

DATA REPORTING QUALIFIERS- ORGANIC

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

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

LAB CHRONICLE

OrderID:	P4397	OrderDate:	10/11/2024 3:19:00 PM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	Location:	K32,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4397-01	WB-301-TOP	SOIL	VOC-TCLVOA-10	8260D	10/10/24		10/14/24	10/11/24
P4397-02	WB-301-BOT	SOIL	VOC-TCLVOA-10	8260D	10/10/24		10/14/24	10/11/24
P4397-04	WB-301-SW	Water	VOC-TCLVOA-10	8260-Low	10/10/24		10/15/24	10/11/24
P4397-05	TB-10102024	Water	VOC-TCLVOA-10	8260-Low	10/11/24		10/15/24	10/11/24

Hit Summary Sheet SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	WB-301-TOP							
P4397-01	WB-301-TOP	SOIL	Acetone	120		7.90	31.6	ug/Kg
P4397-01	WB-301-TOP	SOIL	Carbon Disulfide	5.50	J	1.60	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	2-Butanone	36.3		7.20	31.6	ug/Kg
P4397-01	WB-301-TOP	SOIL	Methylcyclohexane	3.70	J	1.10	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	Ethyl Benzene	3.70	J	0.78	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	m/p-Xylenes	3.10	J	1.70	12.7	ug/Kg
P4397-01	WB-301-TOP	SOIL	o-Xylene	8.50		0.89	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	Isopropylbenzene	17.6		0.85	6.30	ug/Kg
			Total Voc :		198			
P4397-01	WB-301-TOP	SOIL	Benzene, 1,2,3,5-tetramethyl-	* 140	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	1H-Indene, 1-methyl-	* 83.6	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzene, 1-ethyl-2,3-dimethyl-	* 70.2	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzene, 4-ethyl-1,2-dimethyl-	* 100	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	2-Methylindene	* 74.2	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzene, 1,1-(1,5-hexadiene-1,	* 130	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzene, (3-methyl-2-butenyl)-	* 130	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	Benzene, 1-ethenyl-3-ethyl-	* 130	J	0	0	ug/Kg
P4397-01	WB-301-TOP	SOIL	n-propylbenzene	* 3.40	J	0.81	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	1,3,5-Trimethylbenzene	* 10.5	J	0.81	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	1,2,4-Trimethylbenzene	* 33.0	J	1.70	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	sec-Butylbenzene	* 1.40	J	0.85	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	p-Isopropyltoluene	* 11.7	J	0.73	6.30	ug/Kg
P4397-01	WB-301-TOP	SOIL	Diisopropyl ether	* 1.60	J	0.72	6.30	ug/Kg
			Total Tics :		920			
			Total Concentration:		1120			
Client ID:	WB-301-BOT							
P4397-02	WB-301-BOT	SOIL	Acetone	9.00	J	5.40	21.6	ug/Kg
P4397-02	WB-301-BOT	SOIL	Carbon Disulfide	2.10	J	1.10	4.30	ug/Kg
P4397-02	WB-301-BOT	SOIL	Methylene Chloride	6.10	J	2.90	8.60	ug/Kg
			Total Voc :		17.2			
P4397-02	WB-301-BOT	SOIL	Diisopropyl ether	* 1.30	J	0.49	4.30	ug/Kg
			Total Tics :		1.30			
			Total Concentration:		18.5			
Client ID:	WB-301-SW							
P4397-04	WB-301-SW	Water	Acetone	4.30	J	1.40	5.00	ug/L
P4397-04	WB-301-SW	Water	Methyl Acetate	0.74	J	0.60	1.00	ug/L

Hit Summary Sheet
SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Total Voc :				5.04				
Total Concentration:				5.04				
Client ID: P4397-05	TB-10102024 TB-10102024	Water	Acetone	1.90	J	1.40	5.00	ug/L
Total Voc :				1.90				
Total Concentration:				1.90				



QC SUMMARY

Surrogate Summary

SDG No.: **P4397**

Client: **Portal Partners Tri-Venture**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4397-01	WB-301-TOP	1,2-Dichloroethane-d4	50	63.1	126	70 (50)	130 (163)
		Dibromofluoromethane	50	51.8	104	70 (54)	130 (147)
		Toluene-d8	50	50.7	101	70 (58)	130 (134)
		4-Bromofluorobenzene	50	43.9	88	70 (29)	130 (146)
P4397-02	WB-301-BOT	1,2-Dichloroethane-d4	50	57.1	114	70 (50)	130 (163)
		Dibromofluoromethane	50	49.7	99	70 (54)	130 (147)
		Toluene-d8	50	50.2	100	70 (58)	130 (134)
		4-Bromofluorobenzene	50	44.1	88	70 (29)	130 (146)
VY1014SBL01	VY1014SBL01	1,2-Dichloroethane-d4	50	52.0	104	70 (50)	130 (163)
		Dibromofluoromethane	50	48.9	98	70 (54)	130 (147)
		Toluene-d8	50	50.2	100	70 (58)	130 (134)
		4-Bromofluorobenzene	50	40.3	81	70 (29)	130 (146)
VY1014SBS01	VY1014SBS01	1,2-Dichloroethane-d4	50	55.1	110	70 (50)	130 (163)
		Dibromofluoromethane	50	55.0	110	70 (54)	130 (147)
		Toluene-d8	50	52.7	105	70 (58)	130 (134)
		4-Bromofluorobenzene	50	53.3	107	70 (29)	130 (146)
VY1014SBSD01	VY1014SBSD01	1,2-Dichloroethane-d4	50	54.7	109	70 (50)	130 (163)
		Dibromofluoromethane	50	54.2	108	70 (54)	130 (147)
		Toluene-d8	50	52.3	105	70 (58)	130 (134)
		4-Bromofluorobenzene	50	51.5	103	70 (29)	130 (146)

Surrogate Summary

SDG No.: **P4397**

Client: **Portal Partners Tri-Venture**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4397-04	WB-301-SW	1,2-Dichloroethane-d4	50	50.3	101	70 (74)	130 (125)
		Dibromofluoromethane	50	47.8	96	70 (75)	130 (124)
		Toluene-d8	50	49.7	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.4	95	70 (77)	130 (121)
P4397-05	TB-10102024	1,2-Dichloroethane-d4	50	50.5	101	70 (74)	130 (125)
		Dibromofluoromethane	50	47.3	95	70 (75)	130 (124)
		Toluene-d8	50	48.9	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.5	95	70 (77)	130 (121)
VX1015WBL01	VX1015WBL01	1,2-Dichloroethane-d4	50	50.4	101	70 (74)	130 (125)
		Dibromofluoromethane	50	47.6	95	70 (75)	130 (124)
		Toluene-d8	50	49.6	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.6	97	70 (77)	130 (121)
VX1015WBS01	VX1015WBS01	1,2-Dichloroethane-d4	50	54.2	108	70 (74)	130 (125)
		Dibromofluoromethane	50	52.3	105	70 (75)	130 (124)
		Toluene-d8	50	50.0	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.2	102	70 (77)	130 (121)
VX1015WBSD0	VX1015WBSD01	1,2-Dichloroethane-d4	50	53.6	107	70 (74)	130 (125)
		Dibromofluoromethane	50	52.6	105	70 (75)	130 (124)
		Toluene-d8	50	50.4	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.5	105	70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX043392.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1015WBS01	Dichlorodifluoromethane	20	20.3	ug/L	102			40 (69)	160 (116)	
	Chloromethane	20	20.5	ug/L	103			40 (65)	160 (116)	
	Vinyl chloride	20	21.1	ug/L	106			70 (65)	130 (117)	
	Bromomethane	20	21.6	ug/L	108			40 (58)	160 (125)	
	Chloroethane	20	24.7	ug/L	124			40 (56)	160 (128)	
	Trichlorofluoromethane	20	22.5	ug/L	113			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	21.4	ug/L	107			70 (80)	130 (112)	
	1,1-Dichloroethene	20	20.3	ug/L	102			70 (74)	130 (110)	
	Acetone	100	120	ug/L	120			40 (60)	160 (125)	
	Carbon disulfide	20	17.6	ug/L	88			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	21.9	ug/L	110			70 (78)	130 (114)	
	Methyl Acetate	20	20.0	ug/L	100			70 (67)	130 (125)	
	Methylene Chloride	20	20.3	ug/L	102			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	20.9	ug/L	104			70 (75)	130 (108)	
	1,1-Dichloroethane	20	21.9	ug/L	110			70 (78)	130 (112)	
	Cyclohexane	20	21.6	ug/L	108			70 (75)	130 (110)	
	2-Butanone	100	110	ug/L	110			40 (65)	160 (122)	
	Carbon Tetrachloride	20	20.7	ug/L	104			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	21.3	ug/L	106			70 (77)	130 (110)	
	Bromochloromethane	20	19.6	ug/L	98			70 (70)	130 (124)	
	Chloroform	20	21.9	ug/L	110			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	21.8	ug/L	109			70 (80)	130 (108)	
	Methylcyclohexane	20	20.8	ug/L	104			70 (72)	130 (115)	
	Benzene	20	21.1	ug/L	106			70 (82)	130 (109)	
	1,2-Dichloroethane	20	21.8	ug/L	109			70 (80)	130 (115)	
	Trichloroethene	20	20.4	ug/L	102			70 (77)	130 (113)	
	1,2-Dichloropropane	20	21.5	ug/L	108			70 (83)	130 (111)	
	Bromodichloromethane	20	20.1	ug/L	101			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	100	ug/L	100			40 (74)	160 (118)	
	Toluene	20	20.8	ug/L	104			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	20.8	ug/L	104			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	20.7	ug/L	104			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	21.2	ug/L	106			70 (83)	130 (112)	
	2-Hexanone	100	110	ug/L	110			40 (73)	160 (117)	
	Dibromochloromethane	20	20.0	ug/L	100			70 (82)	130 (110)	
	1,2-Dibromoethane	20	21.0	ug/L	105			70 (81)	130 (110)	
	Tetrachloroethene	20	21.7	ug/L	109			70 (67)	130 (123)	
	Chlorobenzene	20	21.0	ug/L	105			70 (82)	130 (109)	
	Ethyl Benzene	20	21.4	ug/L	107			70 (83)	130 (109)	
	m/p-Xylenes	40	41.6	ug/L	104			70 (82)	130 (110)	
	o-Xylene	20	21.3	ug/L	106			70 (83)	130 (109)	
	Styrene	20	21.2	ug/L	106			70 (80)	130 (111)	
	Bromoform	20	19.1	ug/L	96			70 (79)	130 (109)	
	Isopropylbenzene	20	21.8	ug/L	109			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	21.7	ug/L	109			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	21.2	ug/L	106			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	20.7	ug/L	104			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	21.2	ug/L	106			70 (82)	130 (109)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX043392.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1015WBS01	1,2-Dibromo-3-Chloropropane	20	19.8	ug/L	99			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	20.2	ug/L	101			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	21.2	ug/L	106			70 (76)	130 (114)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX043393.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1015WBSD01	Dichlorodifluoromethane	20	20.2	ug/L	101	1		40 (69)	160 (116)	20 (20)
	Chloromethane	20	19.6	ug/L	98	5		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	20.5	ug/L	103	3		70 (65)	130 (117)	20 (20)
	Bromomethane	20	20.9	ug/L	104	4		40 (58)	160 (125)	20 (20)
	Chloroethane	20	21.2	ug/L	106	16		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	20.9	ug/L	104	8		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	21.3	ug/L	106	1		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	19.8	ug/L	99	3		70 (74)	130 (110)	20 (20)
	Acetone	100	110	ug/L	110	9		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	17.3	ug/L	86	2		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	22.1	ug/L	111	1		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	20.4	ug/L	102	2		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	20.1	ug/L	101	1		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	21.0	ug/L	105	1		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	21.6	ug/L	108	2		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	21.1	ug/L	106	2		70 (75)	130 (110)	20 (20)
	2-Butanone	100	110	ug/L	110	0		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	20.9	ug/L	104	0		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	21.5	ug/L	108	2		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	19.2	ug/L	96	2		70 (70)	130 (124)	20 (20)
	Chloroform	20	21.6	ug/L	108	2		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	21.4	ug/L	107	2		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	21.9	ug/L	110	6		70 (72)	130 (115)	20 (20)
	Benzene	20	21.2	ug/L	106	0		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	22.2	ug/L	111	2		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	21.1	ug/L	106	4		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	21.7	ug/L	109	1		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	20.6	ug/L	103	2		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	110	ug/L	110	10		40 (74)	160 (118)	20 (20)
	Toluene	20	21.6	ug/L	108	4		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	21.7	ug/L	109	5		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	21.1	ug/L	106	2		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	22.1	ug/L	111	5		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	110	ug/L	110	0		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	20.3	ug/L	102	2		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	21.4	ug/L	107	2		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	22.4	ug/L	112	3		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	21.2	ug/L	106	1		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	21.5	ug/L	108	1		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	42.6	ug/L	106	2		70 (82)	130 (110)	20 (20)
	o-Xylene	20	21.2	ug/L	106	0		70 (83)	130 (109)	20 (20)
	Styrene	20	21.2	ug/L	106	0		70 (80)	130 (111)	20 (20)
	Bromoform	20	19.4	ug/L	97	1		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	21.3	ug/L	106	3		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	21.9	ug/L	110	1		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	21.3	ug/L	106	0		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	20.5	ug/L	103	1		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	20.9	ug/L	104	2		70 (82)	130 (109)	20 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Datafile : VX043393.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1015WBSD01	1,2-Dibromo-3-Chloropropane	20	19.9	ug/L	100	1		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	21.2	ug/L	106	5		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	21.1	ug/L	106	0		70 (76)	130 (114)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY019884.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1014SBS01	Dichlorodifluoromethane	20	18.0	ug/Kg	90			40 (64)	160 (136)	
	Chloromethane	20	19.8	ug/Kg	99			40 (70)	160 (130)	
	Vinyl chloride	20	19.1	ug/Kg	96			70 (72)	130 (129)	
	Bromomethane	20	19.6	ug/Kg	98			40 (58)	160 (141)	
	Chloroethane	20	19.1	ug/Kg	96			40 (69)	160 (130)	
	Trichlorofluoromethane	20	18.9	ug/Kg	95			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	19.8	ug/Kg	99			70 (81)	130 (123)	
	1,1-Dichloroethene	20	18.0	ug/Kg	90			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (60)	160 (131)	
	Carbon disulfide	20	15.6	ug/Kg	78			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	20.3	ug/Kg	102			70 (77)	130 (129)	
	Methyl Acetate	20	22.5	ug/Kg	113			70 (69)	130 (149)	
	Methylene Chloride	20	21.5	ug/Kg	108			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	18.7	ug/Kg	94			70 (80)	130 (123)	
	1,1-Dichloroethane	20	20.7	ug/Kg	104			70 (82)	130 (123)	
	Cyclohexane	20	18.0	ug/Kg	90			70 (76)	130 (122)	
	2-Butanone	100	110	ug/Kg	110			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.4	ug/Kg	97			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	20.6	ug/Kg	103			70 (82)	130 (123)	
	Bromochloromethane	20	22.5	ug/Kg	113			70 (80)	130 (127)	
	Chloroform	20	21.0	ug/Kg	105			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	19.7	ug/Kg	99			70 (80)	130 (126)	
	Methylcyclohexane	20	17.5	ug/Kg	88			70 (77)	130 (123)	
	Benzene	20	19.7	ug/Kg	99			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.8	ug/Kg	104			70 (81)	130 (126)	
	Trichloroethene	20	19.1	ug/Kg	96			70 (83)	130 (122)	
	1,2-Dichloropropane	20	20.5	ug/Kg	103			70 (83)	130 (122)	
	Bromodichloromethane	20	20.6	ug/Kg	103			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			40 (70)	160 (135)	
	Toluene	20	20.0	ug/Kg	100			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.6	ug/Kg	98			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.6	ug/Kg	98			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.4	ug/Kg	102			70 (82)	130 (125)	
	2-Hexanone	100	110	ug/Kg	110			40 (66)	160 (138)	
	Dibromochloromethane	20	20.0	ug/Kg	100			70 (79)	130 (125)	
	1,2-Dibromoethane	20	19.2	ug/Kg	96			70 (80)	130 (125)	
	Tetrachloroethene	20	17.8	ug/Kg	89			70 (83)	130 (125)	
	Chlorobenzene	20	19.6	ug/Kg	98			70 (84)	130 (122)	
	Ethyl Benzene	20	19.4	ug/Kg	97			70 (82)	130 (124)	
	m/p-Xylenes	40	38.2	ug/Kg	96			70 (83)	130 (124)	
	o-Xylene	20	19.4	ug/Kg	97			70 (83)	130 (123)	
	Styrene	20	19.9	ug/Kg	100			70 (82)	130 (124)	
	Bromoform	20	20.0	ug/Kg	100			70 (75)	130 (127)	
	Isopropylbenzene	20	19.0	ug/Kg	95			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	21.3	ug/Kg	106			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.4	ug/Kg	97			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.5	ug/Kg	98			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.9	ug/Kg	100			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY019884.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1014SBS01	1,2-Dibromo-3-Chloropropane	20	19.7	ug/Kg	99			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.4	ug/Kg	92			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.1	ug/Kg	91			70 (70)	130 (137)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY019885.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1014SBSD01	Dichlorodifluoromethane	20	18.5	ug/Kg	93	3		40 (64)	160 (136)	30 (20)
	Chloromethane	20	19.0	ug/Kg	95	4		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	18.4	ug/Kg	92	4		70 (72)	130 (129)	30 (20)
	Bromomethane	20	19.6	ug/Kg	98	0		40 (58)	160 (141)	30 (20)
	Chloroethane	20	19.2	ug/Kg	96	0		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	18.9	ug/Kg	95	0		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.0	ug/Kg	95	4		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	18.3	ug/Kg	92	2		70 (79)	130 (121)	30 (20)
	Acetone	100	98.7	ug/Kg	99	11		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	15.5	ug/Kg	78	0		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	20.6	ug/Kg	103	1		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	24.1	ug/Kg	121	7		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	21.8	ug/Kg	109	1		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	18.8	ug/Kg	94	0		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	20.7	ug/Kg	104	0		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	17.6	ug/Kg	88	2		70 (76)	130 (122)	30 (20)
	2-Butanone	100	110	ug/Kg	110	0		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	19.3	ug/Kg	97	0		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	20.1	ug/Kg	101	2		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	22.3	ug/Kg	112	1		70 (80)	130 (127)	30 (20)
	Chloroform	20	20.7	ug/Kg	104	1		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	19.8	ug/Kg	99	0		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	17.0	ug/Kg	85	3		70 (77)	130 (123)	30 (20)
	Benzene	20	19.8	ug/Kg	99	0		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	21.0	ug/Kg	105	1		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	18.9	ug/Kg	95	1		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	20.8	ug/Kg	104	1		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	20.7	ug/Kg	104	1		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	0		40 (70)	160 (135)	30 (20)
	Toluene	20	19.6	ug/Kg	98	2		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	19.8	ug/Kg	99	1		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	19.6	ug/Kg	98	0		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	20.6	ug/Kg	103	1		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	100	ug/Kg	100	10		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	20.1	ug/Kg	101	1		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.5	ug/Kg	103	7		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	18.6	ug/Kg	93	4		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	19.9	ug/Kg	100	2		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	19.3	ug/Kg	97	0		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	38.4	ug/Kg	96	0		70 (83)	130 (124)	30 (20)
	o-Xylene	20	19.6	ug/Kg	98	1		70 (83)	130 (123)	30 (20)
	Styrene	20	20.1	ug/Kg	101	1		70 (82)	130 (124)	30 (20)
	Bromoform	20	20.1	ug/Kg	101	1		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	19.2	ug/Kg	96	1		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	21.2	ug/Kg	106	0		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	19.4	ug/Kg	97	0		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	19.2	ug/Kg	96	2		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	19.7	ug/Kg	99	1		70 (83)	130 (124)	30 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4397

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Datafile : VY019885.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY1014SBSD01	1,2-Dibromo-3-Chloropropane	20	20.5	ug/Kg	103	4		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	19.0	ug/Kg	95	3		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	19.0	ug/Kg	95	4		70 (70)	130 (137)	30 (20)

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1015WBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: P4397

SAS No.: P4397 SDG NO.: P4397

Lab File ID: VX043391.D

Lab Sample ID: VX1015WBL01

Date Analyzed: 10/15/2024

Time Analyzed: 09:31

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
VX1015WBS01	VX1015WBS01	VX043392.D	10/15/2024
VX1015WBSD01	VX1015WBSD01	VX043393.D	10/15/2024
TB-10102024	P4397-05	VX043399.D	10/15/2024
WB-301-SW	P4397-04	VX043400.D	10/15/2024

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1014SBL01

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: P4397

SAS No.: P4397 SDG NO.: P4397

Lab File ID: VY019883.D

Lab Sample ID: VY1014SBL01

Date Analyzed: 10/14/2024

Time Analyzed: 10:31

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
VY1014SBS01	VY1014SBS01	VY019884.D	10/14/2024
VY1014SBSD01	VY1014SBSD01	VY019885.D	10/14/2024
WB-301-BOT	P4397-02	VY019889.D	10/14/2024
WB-301-TOP	P4397-01	VY019890.D	10/14/2024

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.: P4397 SAS No.: P4397 SDG NO.: P4397
Lab File ID: VX043204.D BFB Injection Date: 10/01/2024
Instrument ID: MSVOA_X BFB Injection Time: 08:42
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	20.9
75	30.0 - 60.0% of mass 95	55.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	71.5
175	5.0 - 9.0% of mass 174	5.7 (7.9) 1
176	95.0 - 101.0% of mass 174	68.6 (95.9) 1
177	5.0 - 9.0% of mass 176	4.7 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VX043207.D	10/01/2024	11:36
VSTDIC005	VSTDIC005	VX043208.D	10/01/2024	11:59
VSTDIC020	VSTDIC020	VX043209.D	10/01/2024	12:22
VSTDIC050	VSTDIC050	VX043210.D	10/01/2024	12:45
VSTDIC100	VSTDIC100	VX043211.D	10/01/2024	13:08
VSTDIC150	VSTDIC150	VX043212.D	10/01/2024	13:31



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397
Lab File ID: VX043388.D BFB Injection Date: 10/15/2024
Instrument ID: MSVOA_X BFB Injection Time: 07:57
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	20.8
75	30.0 - 60.0% of mass 95	55.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	72.8
175	5.0 - 9.0% of mass 174	5.6 (7.6) 1
176	95.0 - 101.0% of mass 174	69.5 (95.5) 1
177	5.0 - 9.0% of mass 176	4.6 (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	VX043389.D	10/15/2024	08:26
VX1015WBL01	VX1015WBL01	VX043391.D	10/15/2024	09:31
VX1015WBS01	VX1015WBS01	VX043392.D	10/15/2024	09:54
VX1015WBSD01	VX1015WBSD01	VX043393.D	10/15/2024	10:28
TB-10102024	P4397-05	VX043399.D	10/15/2024	12:46
WB-301-SW	P4397-04	VX043400.D	10/15/2024	13:09



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397
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.: P4397 SAS No.: P4397 SDG NO.: P4397
Lab File ID: VY019881.D BFB Injection Date: 10/14/2024
Instrument ID: MSVOA_Y BFB Injection Time: 09:19
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	23.1
75	30.0 - 60.0% of mass 95	55.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	76.1
175	5.0 - 9.0% of mass 174	5.6 (7.3) 1
176	95.0 - 101.0% of mass 174	72.7 (95.5) 1
177	5.0 - 9.0% of mass 176	4.9 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY019882.D	10/14/2024	09:52
VY1014SBL01	VY1014SBL01	VY019883.D	10/14/2024	10:31
VY1014SBS01	VY1014SBS01	VY019884.D	10/14/2024	11:56
VY1014SBSD01	VY1014SBSD01	VY019885.D	10/14/2024	12:18
WB-301-BOT	P4397-02	VY019889.D	10/14/2024	14:08
WB-301-TOP	P4397-01	VY019890.D	10/14/2024	14:31

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397
 Lab File ID: VX043389.D Date Analyzed: 10/15/2024
 Instrument ID: MSVOA_X Time Analyzed: 08:26
 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	108973	5.54	187563	6.76	162899	10.05
UPPER LIMIT	217946	6.044	375126	7.257	325798	10.549
LOWER LIMIT	54486.5	5.044	93781.5	6.257	81449.5	9.549
EPA SAMPLE NO.						
WB-301-SW	80908	5.55	148484	6.76	126066	10.06
TB-10102024	87697	5.55	161174	6.76	134772	10.06
VX1015WBL01	94368	5.55	170879	6.76	144567	10.06
VX1015WBS01	98951	5.55	177022	6.76	148487	10.06
VX1015WBSD01	94177	5.54	163248	6.76	138792	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.: P4397 SAS No.: P4397 SDG NO.: P4397
 Lab File ID: VX043389.D Date Analyzed: 10/15/2024
 Instrument ID: MSVOA_X Time Analyzed: 08:26
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	75623	12.018				
UPPER LIMIT	151246	12.518				
LOWER LIMIT	37811.5	11.518				
EPA SAMPLE NO.						
WB-301-SW	50389	12.02				
TB-10102024	57811	12.02				
VX1015WBL01	64756	12.02				
VX1015WBS01	66651	12.02				
VX1015WBSD01	64769	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.: P4397 SAS No.: P4397 SDG NO.: P4397
 Lab File ID: VY019882.D Date Analyzed: 10/14/2024
 Instrument ID: MSVOA_Y Time Analyzed: 09:52
 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	286716	7.71	498763	8.62	439404	11.41
UPPER LIMIT	573432	8.207	997526	9.116	878808	11.914
LOWER LIMIT	143358	7.207	249382	8.116	219702	10.914
EPA SAMPLE NO.						
WB-301-TOP	258268	7.71	523100	8.62	477257	11.41
WB-301-BOT	252165	7.71	523891	8.62	471714	11.41
VY1014SBL01	272092	7.71	541333	8.62	470368	11.41
VY1014SBS01	286988	7.71	511012	8.62	442973	11.41
VY1014SBSD01	289295	7.71	513238	8.62	439692	11.41

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG NO.: P4397
 Lab File ID: VY019882.D Date Analyzed: 10/14/2024
 Instrument ID: MSVOA_Y Time Analyzed: 09:52
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	212252	13.347				
UPPER LIMIT	424504	13.847				
LOWER LIMIT	106126	12.847				
EPA SAMPLE NO.						
WB-301-TOP	164219	13.35				
WB-301-BOT	175128	13.35				
VY1014SBL01	156619	13.35				
VY1014SBS01	215154	13.35				
VY1014SBSD01	211812	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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-TOP	SDG No.:	P4397
Lab Sample ID:	P4397-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	63.3
Sample Wt/Vol:	6.24 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
VY019890.D	1		10/14/24 14:31	VY101424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.10	U	2.10	6.30	ug/Kg
74-87-3	Chloromethane	1.50	U	1.50	6.30	ug/Kg
75-01-4	Vinyl Chloride	0.97	U	0.97	6.30	ug/Kg
74-83-9	Bromomethane	1.30	U	1.30	6.30	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	6.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	6.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.40	U	1.40	6.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.99	U	0.99	6.30	ug/Kg
67-64-1	Acetone	120		7.90	31.6	ug/Kg
75-15-0	Carbon Disulfide	5.50	J	1.60	6.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.85	U	0.85	6.30	ug/Kg
79-20-9	Methyl Acetate	2.30	U	2.30	6.30	ug/Kg
75-09-2	Methylene Chloride	4.30	U	4.30	12.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.10	U	1.10	6.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	6.30	ug/Kg
110-82-7	Cyclohexane	0.87	U	0.87	6.30	ug/Kg
78-93-3	2-Butanone	36.3		7.20	31.6	ug/Kg
56-23-5	Carbon Tetrachloride	1.10	U	1.10	6.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.77	U	0.77	6.30	ug/Kg
74-97-5	Bromochloromethane	3.10	U	3.10	6.30	ug/Kg
67-66-3	Chloroform	0.85	U	0.85	6.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.99	U	0.99	6.30	ug/Kg
108-87-2	Methylcyclohexane	3.70	J	1.10	6.30	ug/Kg
71-43-2	Benzene	0.91	U	0.91	6.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.77	U	0.77	6.30	ug/Kg
79-01-6	Trichloroethene	0.95	U	0.95	6.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.84	U	0.84	6.30	ug/Kg
75-27-4	Bromodichloromethane	0.71	U	0.71	6.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	5.50	U	5.50	31.6	ug/Kg
108-88-3	Toluene	0.85	U	0.85	6.30	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	10/11/24
Client Sample ID:	WB-301-TOP			SDG No.:	P4397
Lab Sample ID:	P4397-01			Matrix:	SOIL
Analytical Method:	SW8260			% Solid:	63.3
Sample Wt/Vol:	6.24	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
VY019890.D	1		10/14/24 14:31	VY101424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.76	U	0.76	6.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.72	U	0.72	6.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.10	U	1.10	6.30	ug/Kg
591-78-6	2-Hexanone	6.10	U	6.10	31.6	ug/Kg
124-48-1	Dibromochloromethane	0.82	U	0.82	6.30	ug/Kg
106-93-4	1,2-Dibromoethane	1.00	U	1.00	6.30	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	6.30	ug/Kg
108-90-7	Chlorobenzene	0.94	U	0.94	6.30	ug/Kg
100-41-4	Ethyl Benzene	3.70	J	0.78	6.30	ug/Kg
179601-23-1	m/p-Xylenes	3.10	J	1.70	12.7	ug/Kg
95-47-6	o-Xylene	8.50		0.89	6.30	ug/Kg
100-42-5	Styrene	0.76	U	0.76	6.30	ug/Kg
75-25-2	Bromoform	1.00	U	1.00	6.30	ug/Kg
98-82-8	Isopropylbenzene	17.6		0.85	6.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.40	U	1.40	6.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.94	U	0.94	6.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.00	U	1.00	6.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.75	U	0.75	6.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.00	U	2.00	6.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	6.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.99	U	0.99	6.30	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	63.1	70 (50) - 130 (163)	126%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8	70 (54) - 130 (147)	104%	SPK: 50
2037-26-5	Toluene-d8	50.7	70 (58) - 130 (134)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.9	70 (29) - 130 (146)	88%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	258000	7.713
540-36-3	1,4-Difluorobenzene	523000	8.616
3114-55-4	Chlorobenzene-d5	477000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	164000	13.347

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-TOP	SDG No.:	P4397
Lab Sample ID:	P4397-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	63.3
Sample Wt/Vol:	6.24 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
VY019890.D	1		10/14/24 14:31	VY101424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-20-3	Diisopropyl ether	1.60	J		6.03	ug/Kg
103-65-1	n-propylbenzene	3.40	J		12.6	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	10.5	J		12.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	33.0	J		13.0	ug/Kg
135-98-8	sec-Butylbenzene	1.40	J		13.2	ug/Kg
99-87-6	p-Isopropyltoluene	11.7	J		13.3	ug/Kg
004439-45-6	Benzene, 1,1-(1,5-hexadiene-1,6-d	130	J		13.5	ug/Kg
000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	70.2	J		13.6	ug/Kg
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	100	J		13.9	ug/Kg
007525-62-4	Benzene, 1-ethenyl-3-ethyl-	130	J		14.0	ug/Kg
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	140	J		14.6	ug/Kg
002177-47-1	2-Methylindene	74.2	J		14.7	ug/Kg
000767-59-9	1H-Indene, 1-methyl-	83.6	J		14.7	ug/Kg
004489-84-3	Benzene, (3-methyl-2-butenyl)-	130	J		14.9	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\VY101424\
 Data File : VY019890.D
 Acq On : 14 Oct 2024 14:31
 Operator : SY/MD
 Sample : P4397-01
 Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-301-TOP

Quant Time: Oct 15 01:37:20 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	7.713	168	258268	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	523100	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	477257	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	164219	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	200812	63.148	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	126.300%
35) Dibromofluoromethane	7.634	113	178738	51.780	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	103.560%
50) Toluene-d8	10.109	98	645964	50.674	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	101.340%
62) 4-Bromofluorobenzene	12.402	95	202166	43.892	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	87.780%

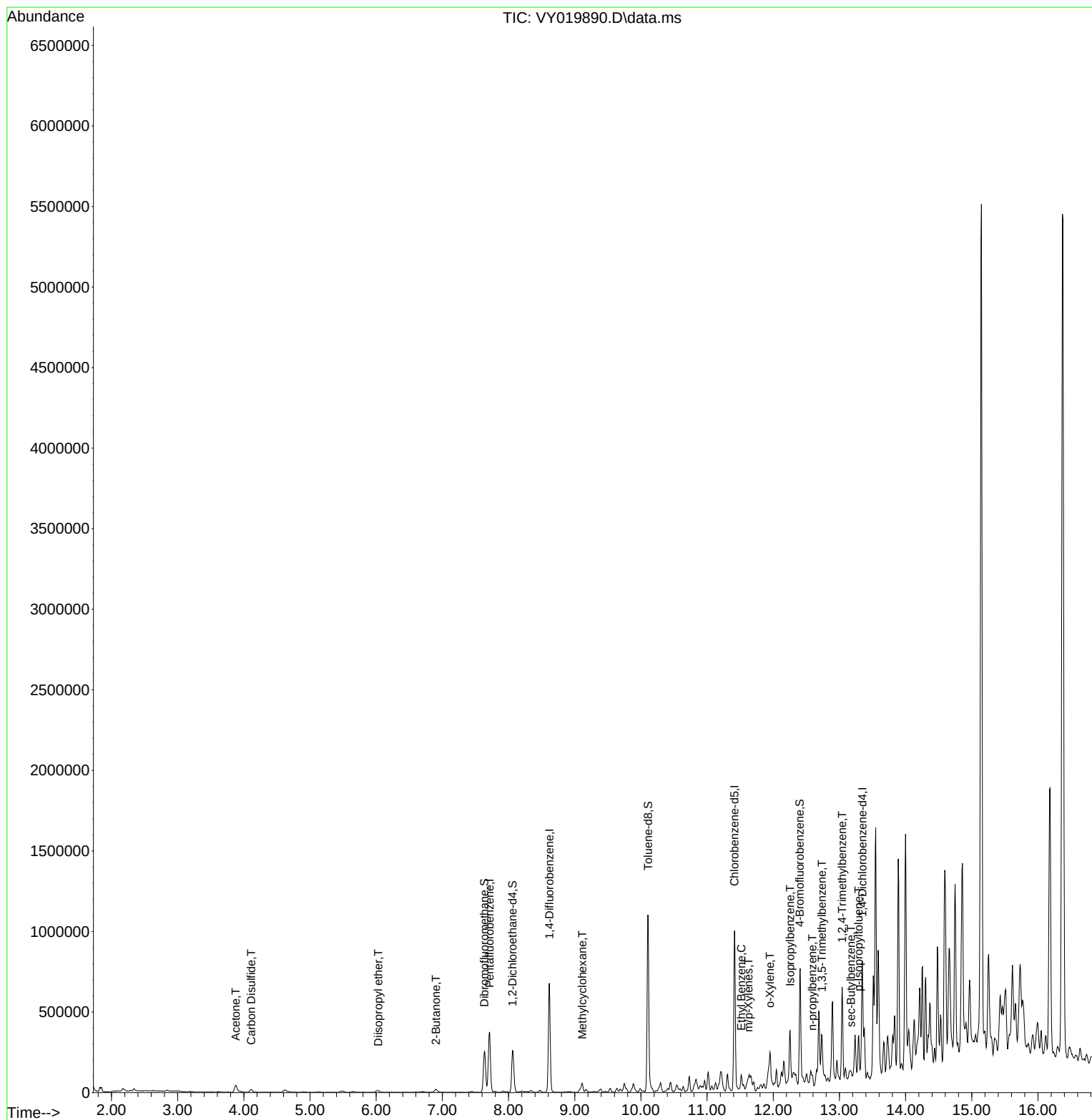
Target Compounds						Qvalue
16) Acetone	3.879	43	79461	95.989	ug/l	# 84
17) Carbon Disulfide	4.110	76	32155	4.330	ug/l	# 92
22) Diisopropyl ether	6.031	45	14136	1.298	ug/l	# 86
25) 2-Butanone	6.903	43	31799	28.698	ug/l	# 82
39) Methylcyclohexane	9.116	83	18263	2.915	ug/l	88
67) Ethyl Benzene	11.518	91	58733	2.962	ug/l	96
68) m/p-Xylenes	11.627	106	17656	2.411	ug/l	92
69) o-Xylene	11.950	106	47505	6.751	ug/l	94
73) Isopropylbenzene	12.255	105	192294	13.921	ug/l	97
78) n-propylbenzene	12.591	91	44469	2.664	ug/l	96
80) 1,3,5-Trimethylbenzene	12.737	105	92114	8.257	ug/l	95
84) 1,2,4-Trimethylbenzene	13.042	105	288058	26.045	ug/l	96
85) sec-Butylbenzene	13.176	105	16043	1.074	ug/l	# 59
86) p-Isopropyltoluene	13.292	119	112455	9.275	ug/l	93

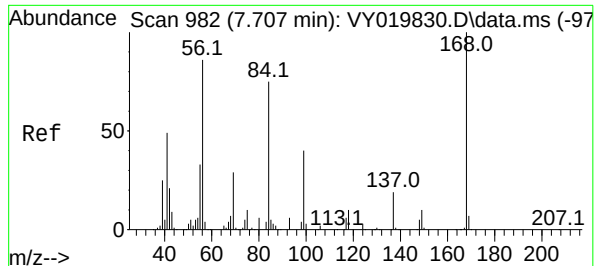
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSV0A_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSV0A_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSV0A_Y
ClientSampleId :
WB-301-TOP

Quant Time: Oct 15 01:37:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSV0A_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 10 05:30:07 2024
Response via : Initial Calibration

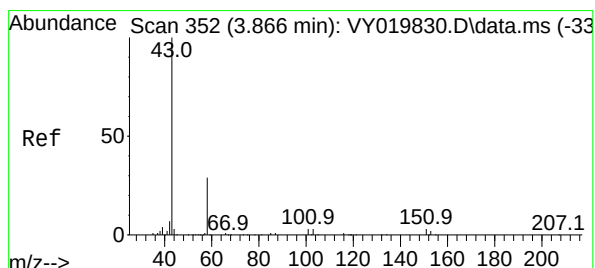
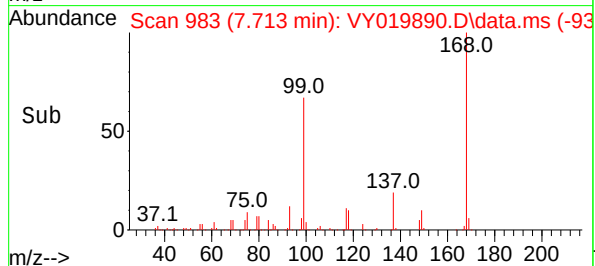
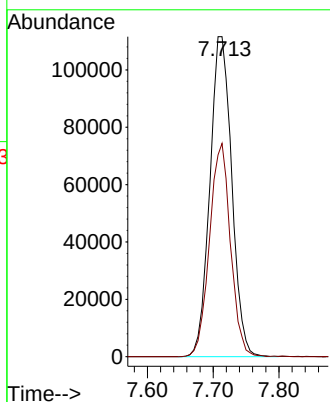
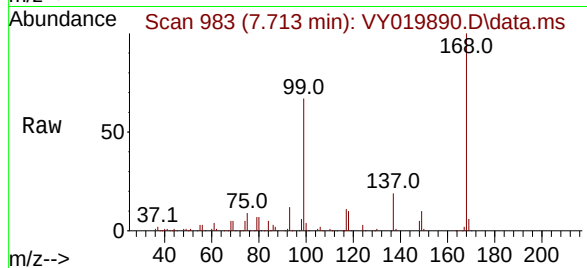




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

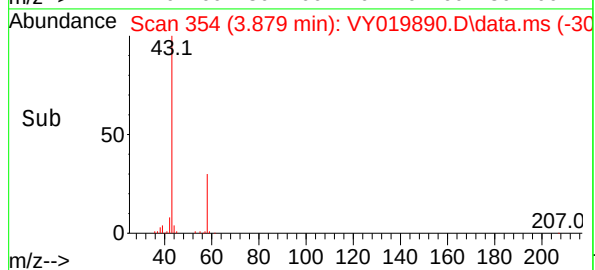
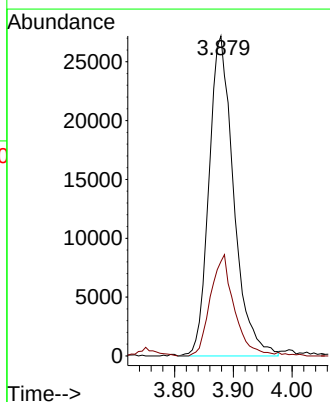
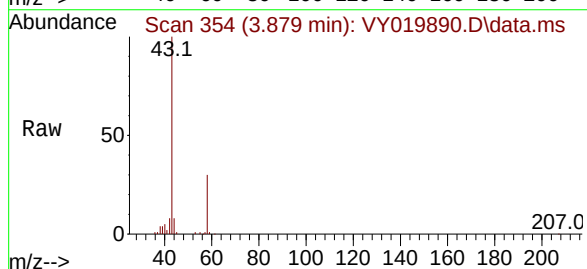
Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

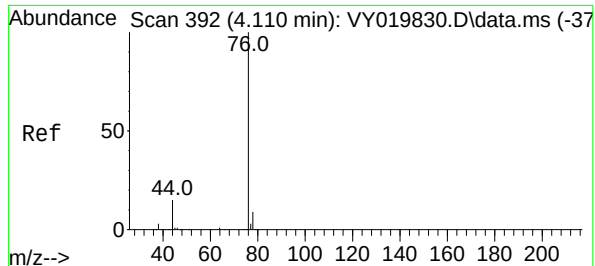
Tgt Ion:168 Resp: 258268
Ion Ratio Lower Upper
168 100
99 66.7 39.1 58.7#



#16
Acetone
Concen: 95.989 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY019890.D
Acq: 14 Oct 2024 14:31

Tgt Ion: 43 Resp: 79461
Ion Ratio Lower Upper
43 100
58 29.5 31.7 47.5#





#17

Carbon Disulfide

Concen: 4.330 ug/l

RT: 4.110 min Scan# 392

Delta R.T. 0.006 min

Lab File: VY019890.D

Acq: 14 Oct 2024 14:31

Instrument :

MSVOA_Y

ClientSampleId :

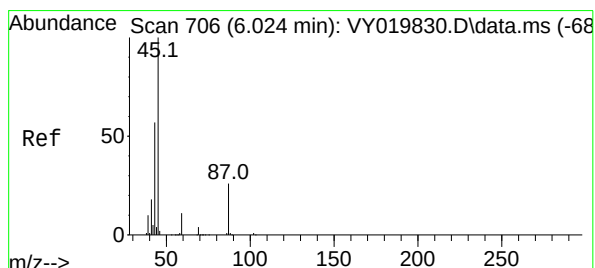
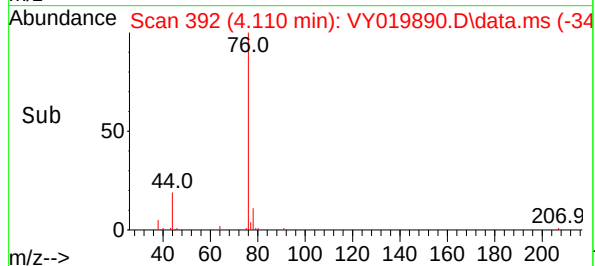
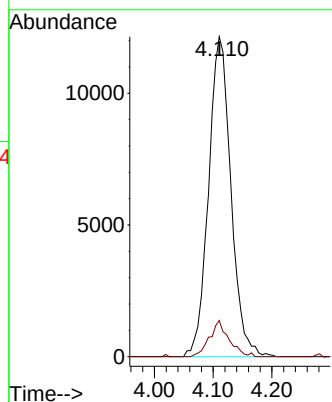
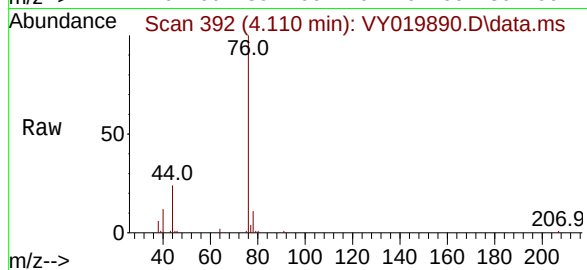
WB-301-TOP

Tgt Ion: 76 Resp: 32155

Ion Ratio Lower Upper

76 100

78 11.3 6.8 10.2#



#22

Diisopropyl ether

Concen: 1.298 ug/l

RT: 6.031 min Scan# 707

Delta R.T. 0.013 min

Lab File: VY019890.D

Acq: 14 Oct 2024 14:31

Tgt Ion: 45 Resp: 14136

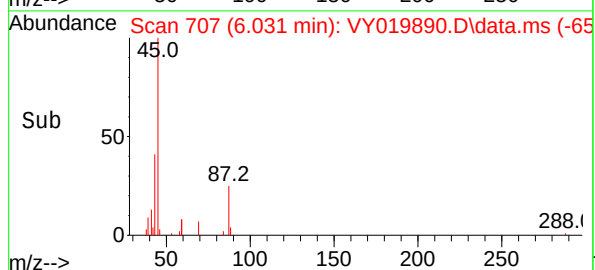
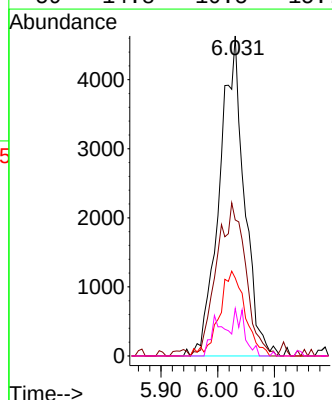
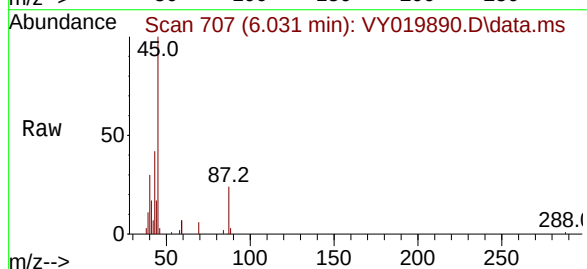
Ion Ratio Lower Upper

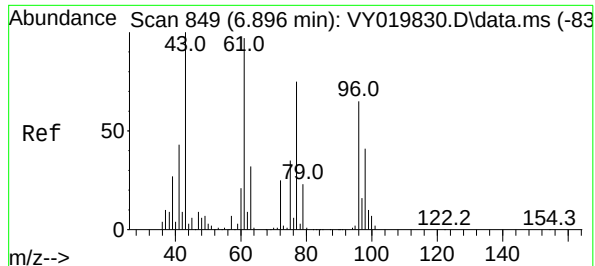
45 100

43 41.0 42.2 63.2#

87 24.4 25.0 37.6#

59 14.8 10.5 15.7





#25

2-Butanone

Concen: 28.698 ug/l

RT: 6.903 min Scan# 849

Delta R.T. 0.013 min

Lab File: VY019890.D

Acq: 14 Oct 2024 14:31

Instrument :

MSVOA_Y

ClientSampleId :

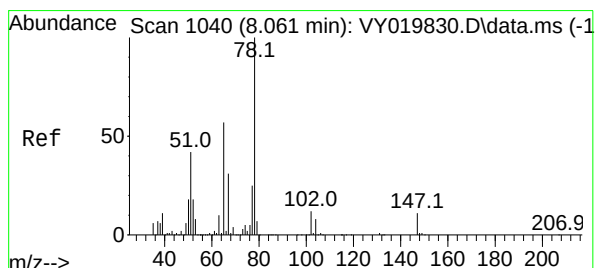
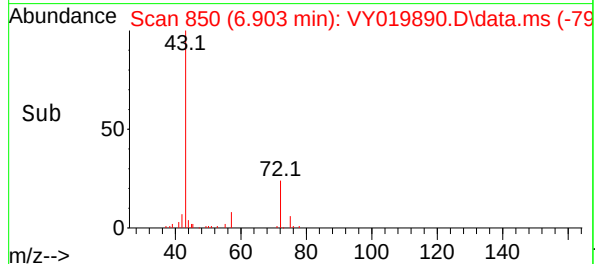
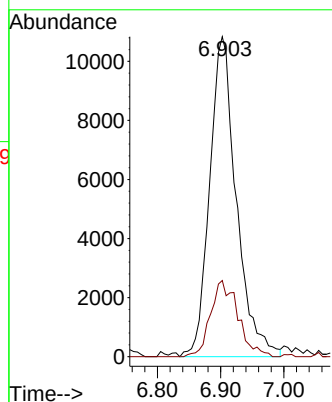
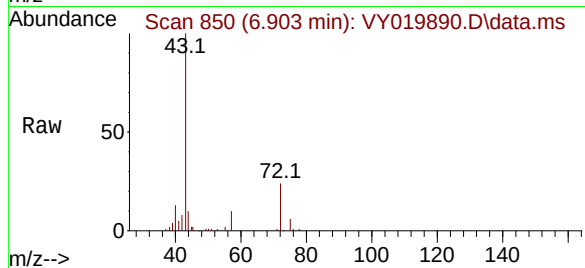
WB-301-TOP

Tgt Ion: 43 Resp: 31799

Ion Ratio Lower Upper

43 100

72 23.8 27.3 40.9#



#33

1,2-Dichloroethane-d4

Concen: 63.148 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY019890.D

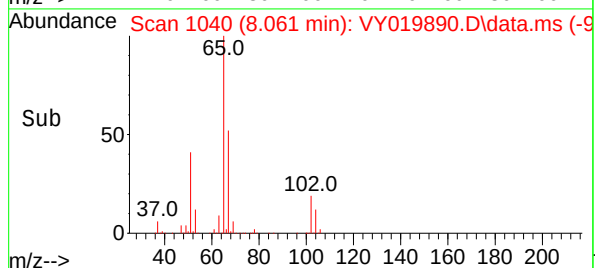
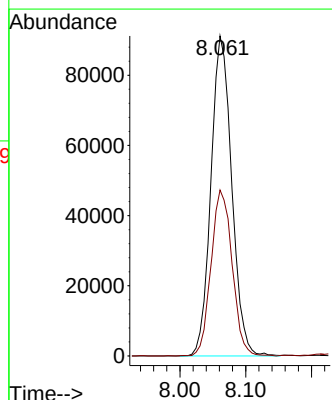
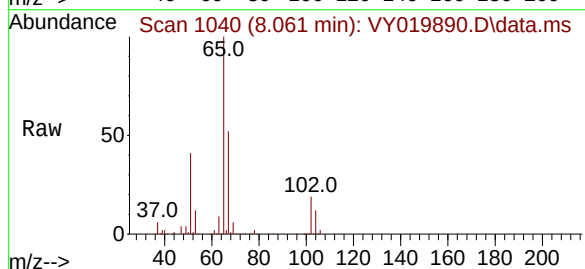
Acq: 14 Oct 2024 14:31

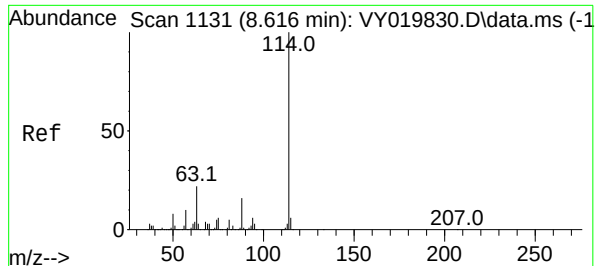
Tgt Ion: 65 Resp: 200812

Ion Ratio Lower Upper

65 100

67 52.6 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: VY019890.D

Acq: 14 Oct 2024 14:31

Instrument :

MSVOA_Y

ClientSampleId :

WB-301-TOP

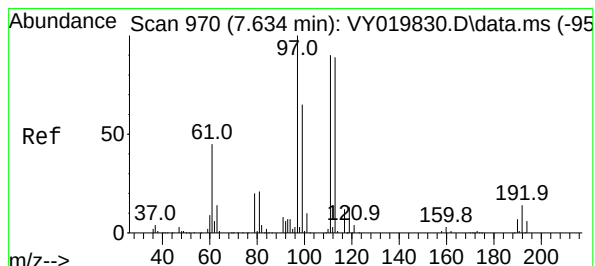
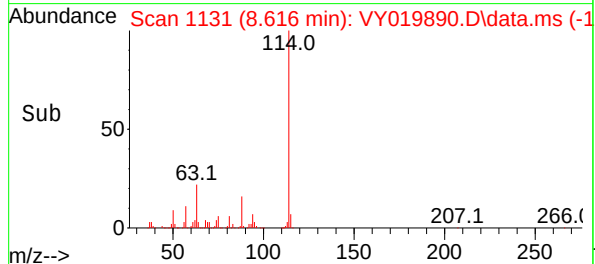
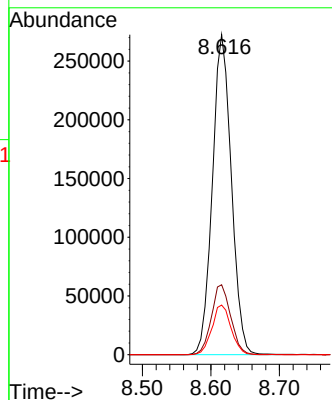
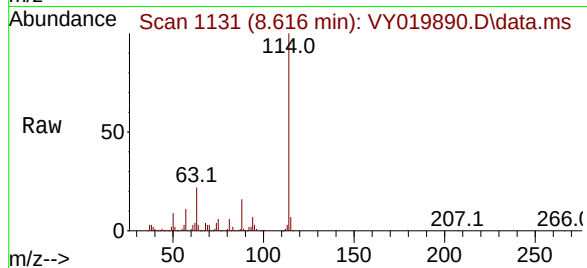
Tgt Ion:114 Resp: 523100

Ion Ratio Lower Upper

114 100

63 21.9 0.0 35.0

88 15.5 0.0 27.2



#35

Dibromofluoromethane

Concen: 51.780 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY019890.D

Acq: 14 Oct 2024 14:31

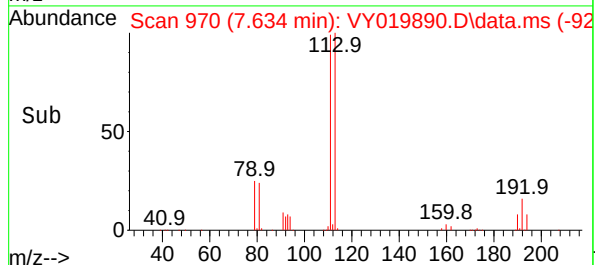
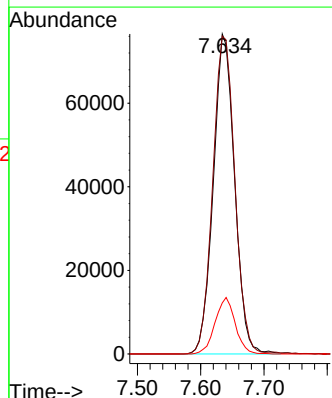
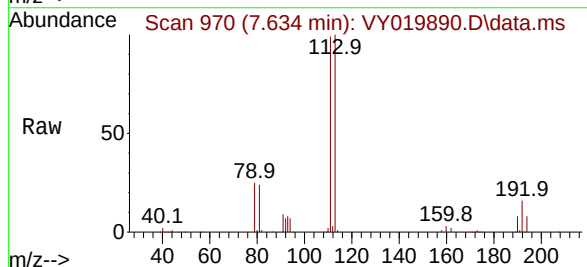
Tgt Ion:113 Resp: 178738

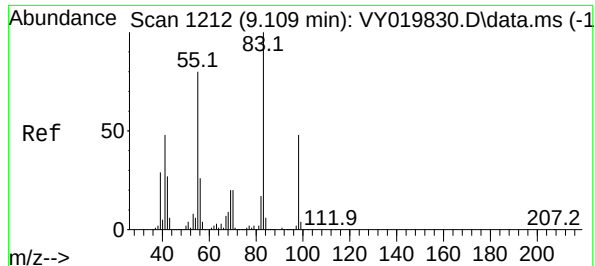
Ion Ratio Lower Upper

113 100

111 103.1 82.2 123.4

192 16.7 15.9 23.9





#39

Methylcyclohexane

Concen: 2.915 ug/l

RT: 9.116 min Scan# 1213

Delta R.T. 0.007 min

Lab File: VY019890.D

Acq: 14 Oct 2024 14:31

Instrument :

MSVOA_Y

ClientSampleId :

WB-301-TOP

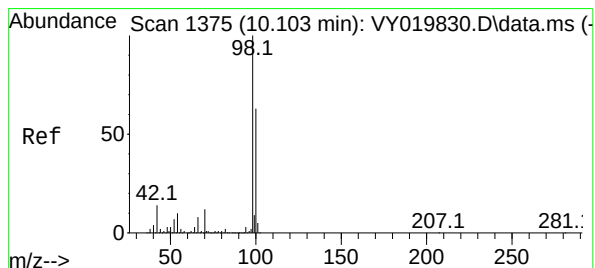
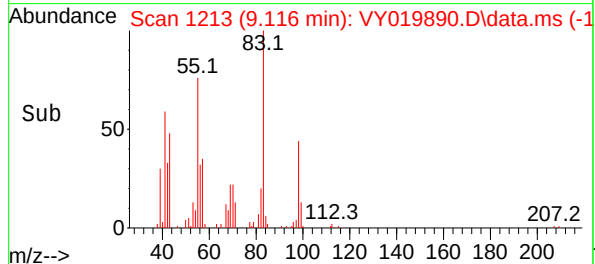
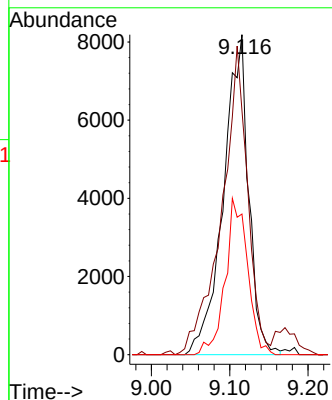
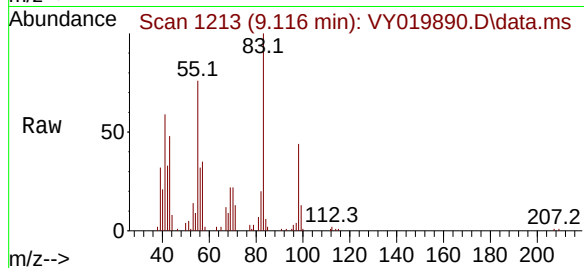
Tgt Ion: 83 Resp: 18263

Ion Ratio Lower Upper

83 100

55 75.6 51.5 77.3

98 43.9 40.5 60.7



#50

Toluene-d8

Concen: 50.674 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY019890.D

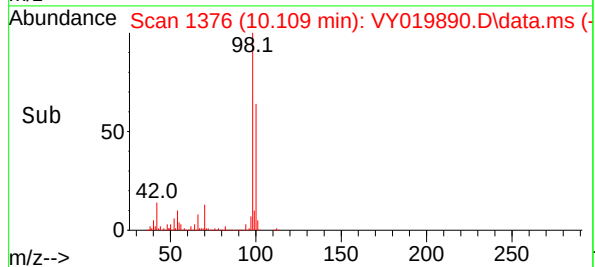
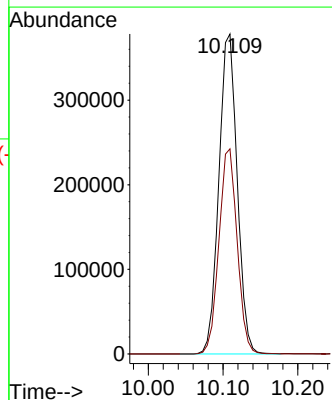
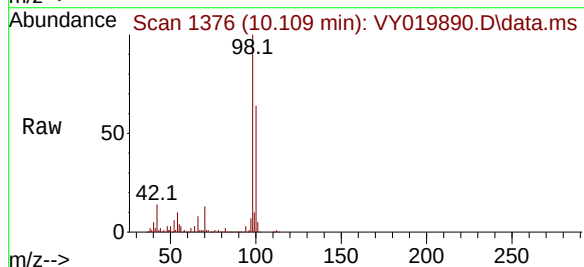
Acq: 14 Oct 2024 14:31

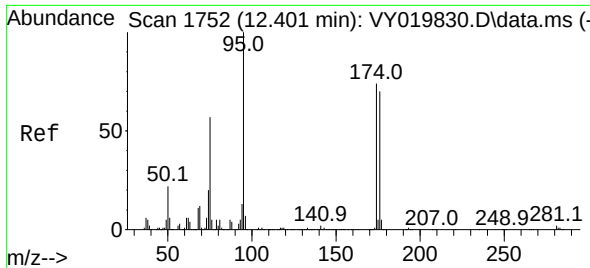
Tgt Ion: 98 Resp: 645964

Ion Ratio Lower Upper

98 100

100 63.8 52.0 78.0





#62

4-Bromofluorobenzene

Concen: 43.892 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY019890.D

Acq: 14 Oct 2024 14:31

Instrument :

MSVOA_Y

ClientSampleId :

WB-301-TOP

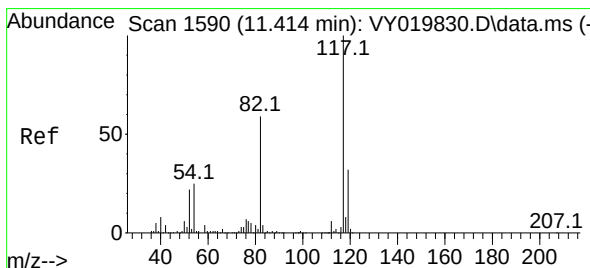
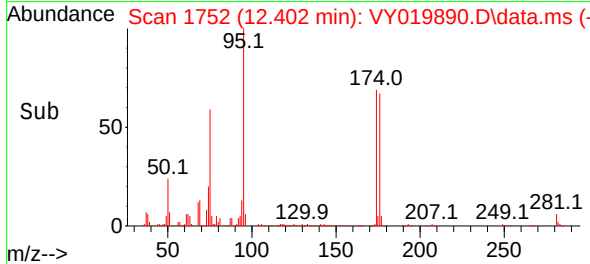
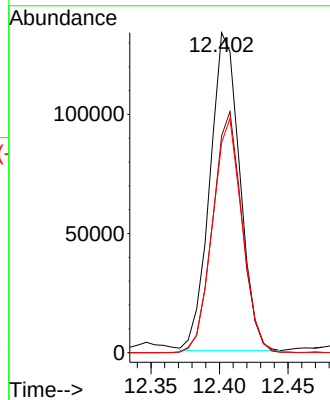
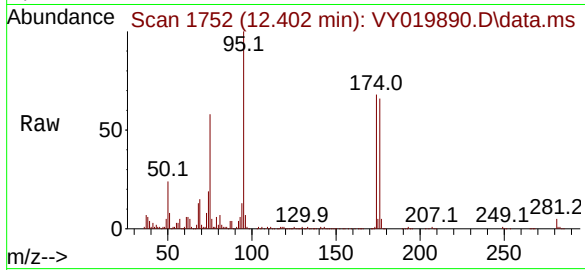
Tgt Ion: 95 Resp: 202166

Ion Ratio Lower Upper

95 100

174 74.5 0.0 175.6

176 73.4 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: VY019890.D

Acq: 14 Oct 2024 14:31

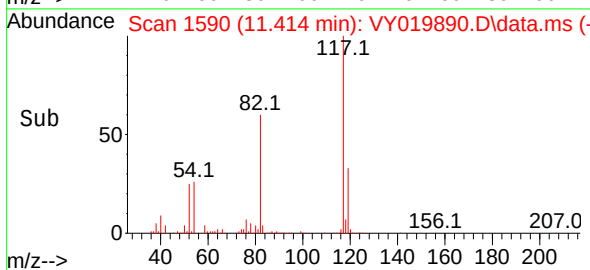
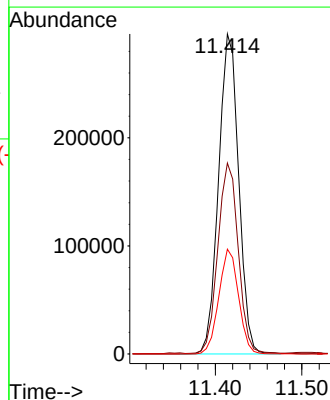
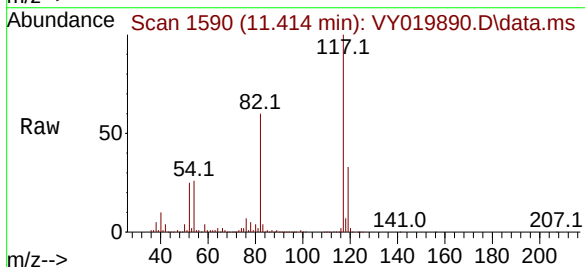
Tgt Ion: 117 Resp: 477257

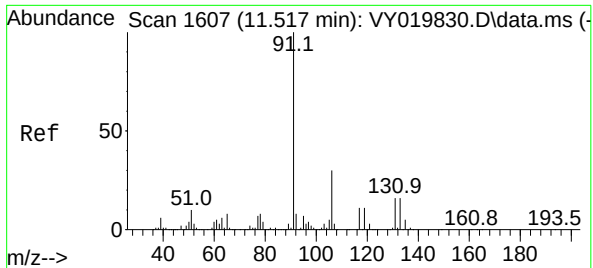
Ion Ratio Lower Upper

117 100

82 59.4 42.4 63.6

119 32.8 25.9 38.9





#67

Ethyl Benzene

Concen: 2.962 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. -0.006 min

Lab File: VY019890.D

Acq: 14 Oct 2024 14:31

Instrument :

MSVOA_Y

ClientSampleId :

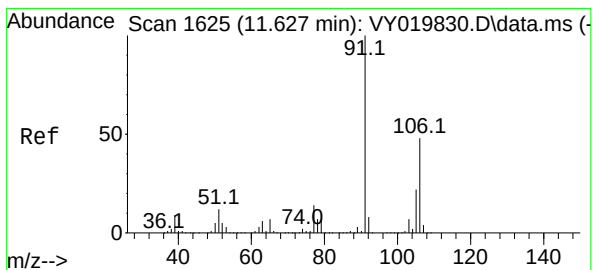
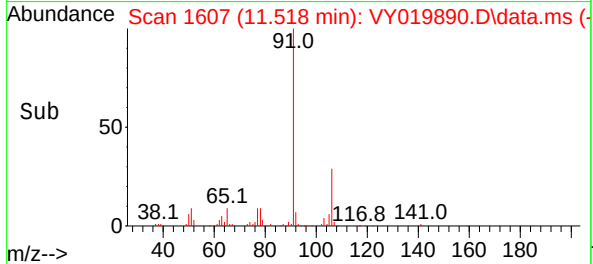
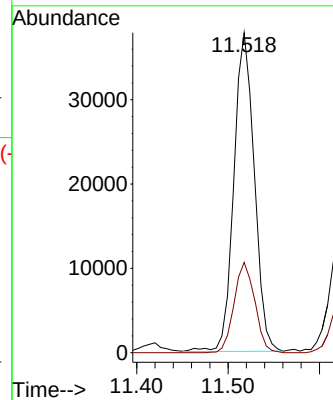
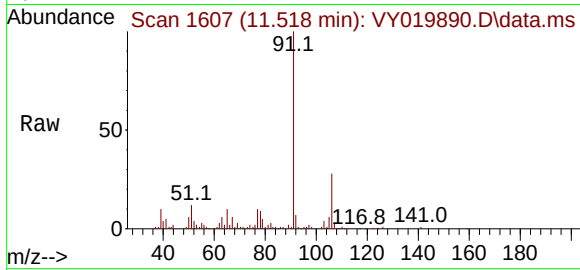
WB-301-TOP

Tgt Ion: 91 Resp: 58733

Ion Ratio Lower Upper

91 100

106 28.3 24.5 36.7



#68

m/p-Xylenes

Concen: 2.411 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. -0.006 min

Lab File: VY019890.D

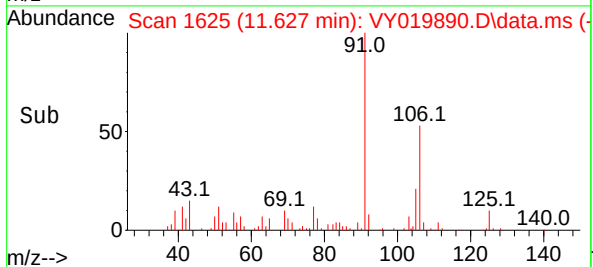
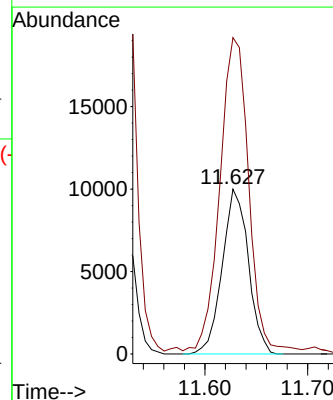
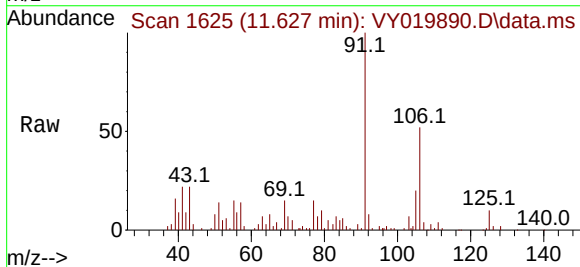
Acq: 14 Oct 2024 14:31

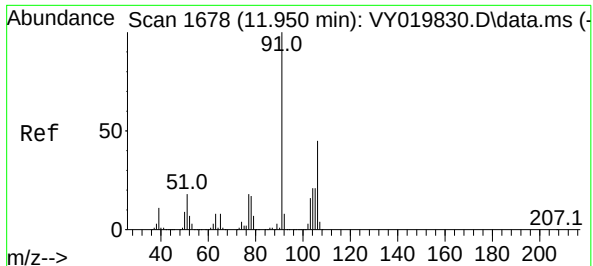
Tgt Ion: 106 Resp: 17656

Ion Ratio Lower Upper

106 100

91 206.5 156.0 234.0





#69

o-Xylene

Concen: 6.751 ug/l

RT: 11.950 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY019890.D

Acq: 14 Oct 2024 14:31

Instrument :

MSVOA_Y

ClientSampleId :

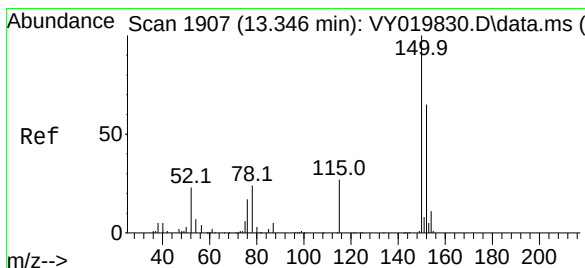
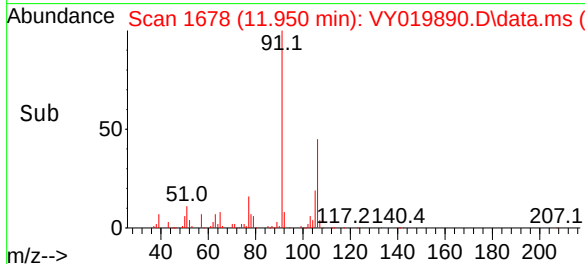
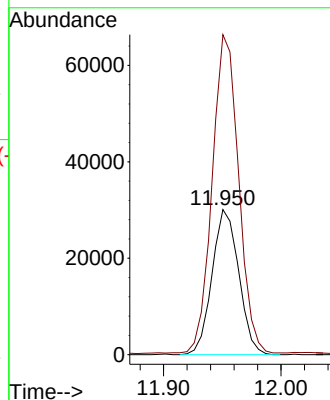
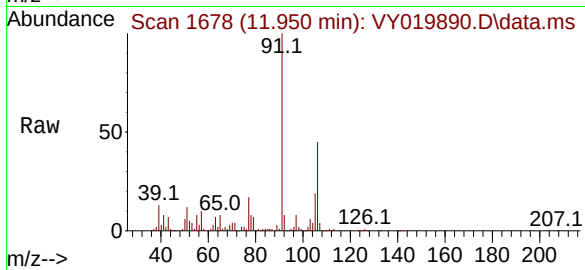
WB-301-TOP

Tgt Ion:106 Resp: 47505

Ion Ratio Lower Upper

106 100

91 217.1 103.6 310.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY019890.D

Acq: 14 Oct 2024 14:31

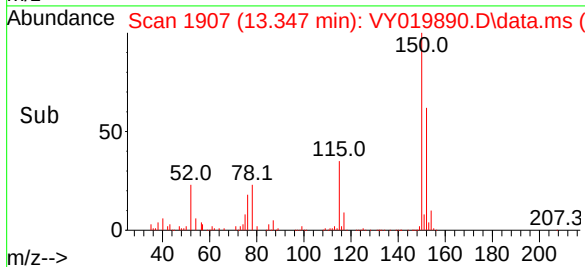
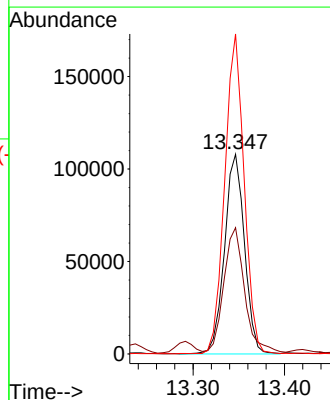
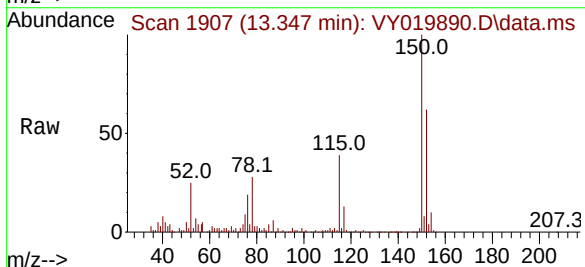
Tgt Ion:152 Resp: 164219

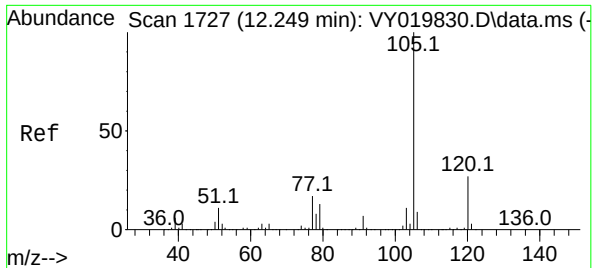
Ion Ratio Lower Upper

152 100

115 64.8 28.2 84.7

150 154.9 0.0 345.6





#73

Isopropylbenzene

Concen: 13.921 ug/l

RT: 12.255 min Scan# 1727

Delta R.T. 0.000 min

Lab File: VY019890.D

Acq: 14 Oct 2024 14:31

Instrument :

MSVOA_Y

ClientSampleId :

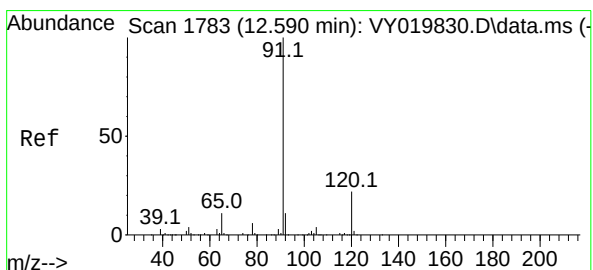
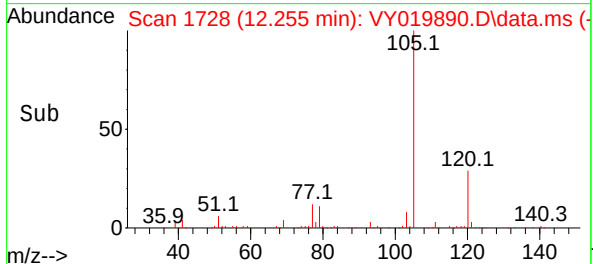
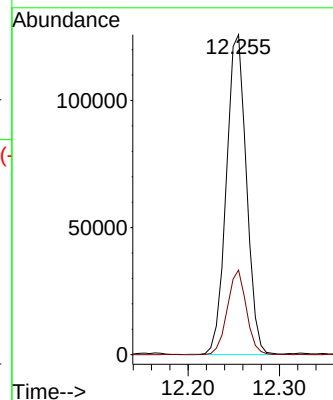
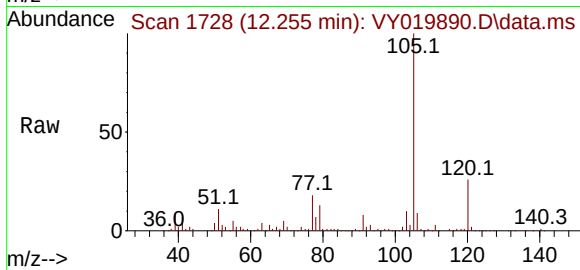
WB-301-TOP

Tgt Ion:105 Resp: 192294

Ion Ratio Lower Upper

105 100

120 25.1 13.4 40.1



#78

n-propylbenzene

Concen: 2.664 ug/l

RT: 12.591 min Scan# 1783

Delta R.T. -0.006 min

Lab File: VY019890.D

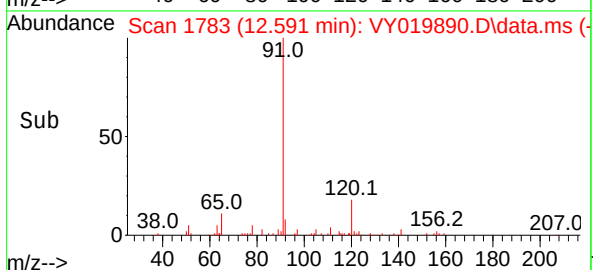
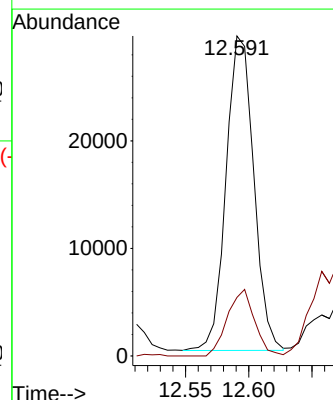
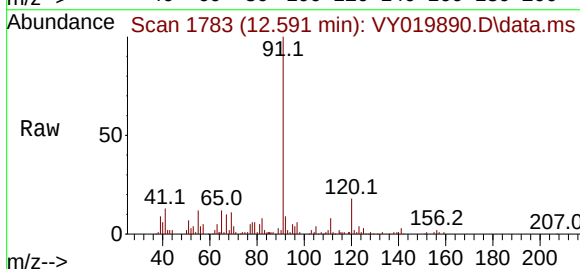
Acq: 14 Oct 2024 14:31

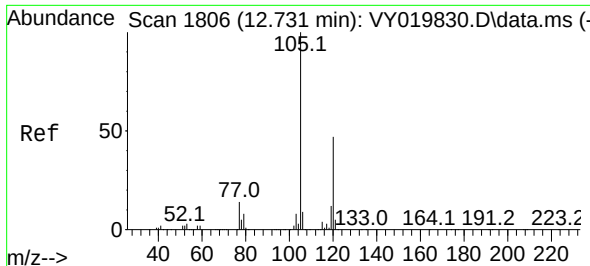
Tgt Ion: 91 Resp: 44469

Ion Ratio Lower Upper

91 100

120 20.7 11.5 34.4





#80

1,3,5-Trimethylbenzene

Concen: 8.257 ug/l

RT: 12.737 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VY019890.D

Acq: 14 Oct 2024 14:31

Instrument :

MSVOA_Y

ClientSampleId :

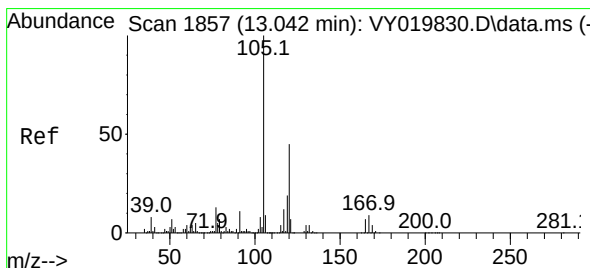
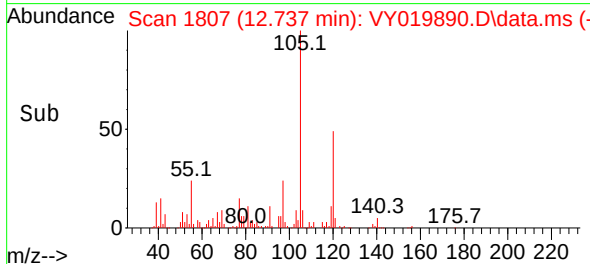
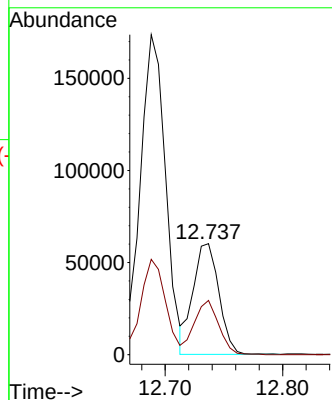
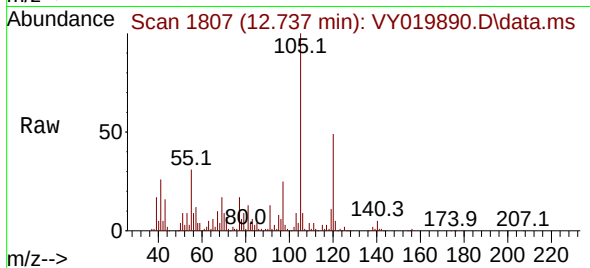
WB-301-TOP

Tgt Ion:105 Resp: 92114

Ion Ratio Lower Upper

105 100

120 46.5 25.1 75.2



#84

1,2,4-Trimethylbenzene

Concen: 26.045 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. -0.006 min

Lab File: VY019890.D

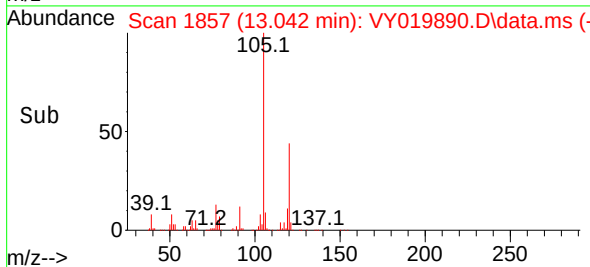
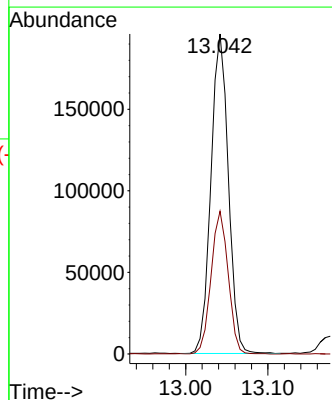
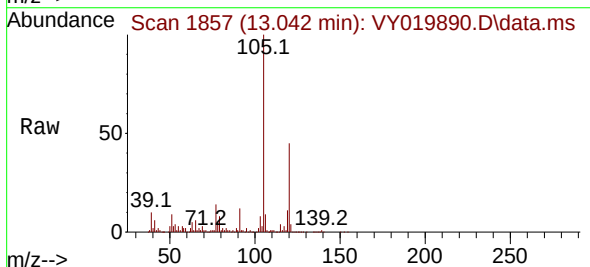
Acq: 14 Oct 2024 14:31

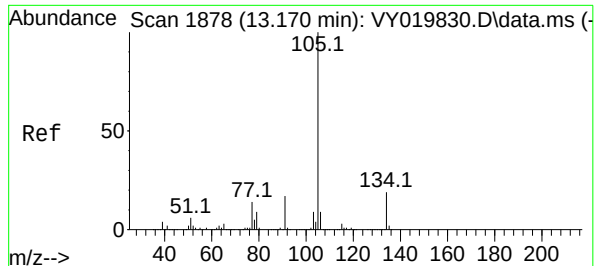
Tgt Ion:105 Resp: 288058

Ion Ratio Lower Upper

105 100

120 43.9 23.2 69.6





#85

sec-Butylbenzene

Concen: 1.074 ug/l

RT: 13.176 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VY019890.D

Acq: 14 Oct 2024 14:31

Instrument :

MSVOA_Y

ClientSampleId :

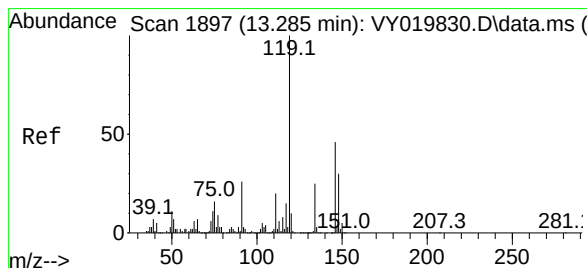
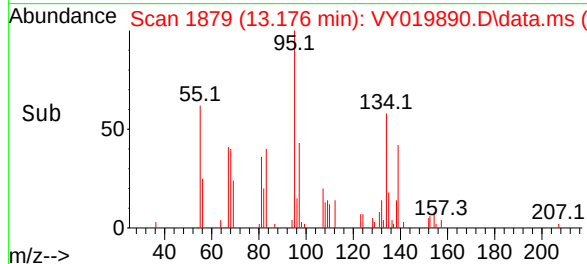
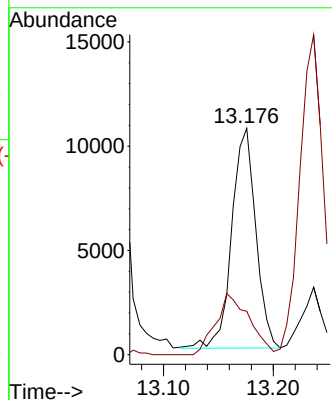
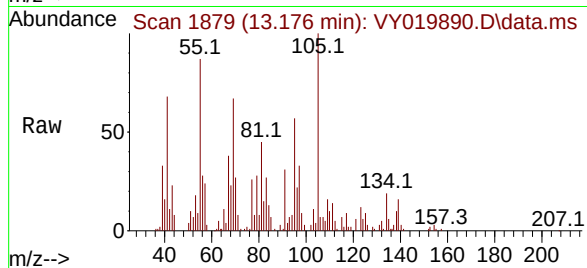
WB-301-TOP

Tgt Ion:105 Resp: 16043

Ion Ratio Lower Upper

105 100

134 38.8 10.1 30.1#



#86

p-Isopropyltoluene

Concen: 9.275 ug/l

RT: 13.292 min Scan# 1898

Delta R.T. 0.000 min

Lab File: VY019890.D

Acq: 14 Oct 2024 14:31

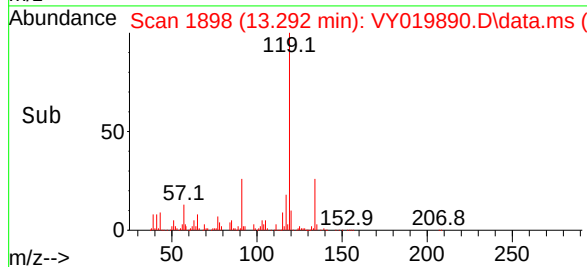
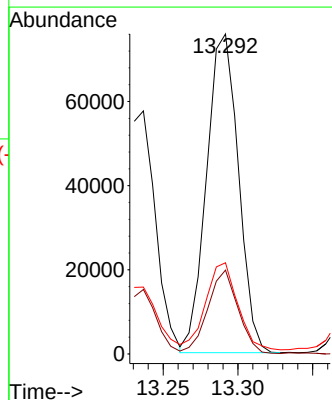
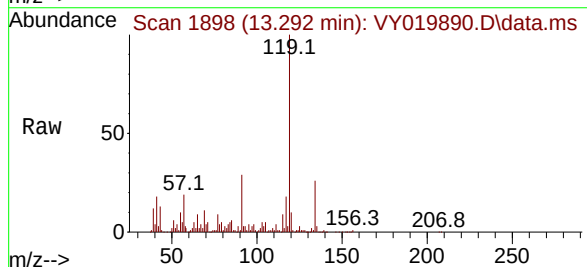
Tgt Ion:119 Resp: 112455

Ion Ratio Lower Upper

119 100

134 24.7 13.1 39.3

91 27.2 10.7 32.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
 Data File : VY019890.D
 Acq On : 14 Oct 2024 14:31
 Operator : SY/MD
 Sample : P4397-01
 Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-301-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: VY019890.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.879	345	354	375	rBV2	42886	140764	1.30%	0.201%
2	7.634	960	970	976	rBV	254571	608682	5.64%	0.871%
3	7.713	976	983	992	rVB	367822	847012	7.84%	1.212%
4	8.061	1032	1040	1054	rBV	258616	600980	5.57%	0.860%
5	8.616	1122	1131	1143	rBV	676567	1307252	12.11%	1.870%
6	9.109	1199	1212	1218	rBV3	56152	147723	1.37%	0.211%
7	9.884	1329	1339	1351	rBV2	52657	140520	1.30%	0.201%
8	10.103	1368	1375	1391	rBV	1096271	2011409	18.63%	2.877%
9	10.298	1398	1407	1414	rVB4	56808	135910	1.26%	0.194%
10	10.731	1468	1478	1484	rBV2	92734	161396	1.49%	0.231%
11	10.835	1484	1495	1501	rBV2	76062	234556	2.17%	0.336%
12	11.018	1520	1525	1530	rVB	109594	181477	1.68%	0.260%
13	11.207	1547	1556	1567	rVB4	120328	365523	3.39%	0.523%
14	11.310	1567	1573	1582	rBV	104365	195621	1.81%	0.280%
15	11.414	1582	1590	1601	rBV	993150	1644053	15.23%	2.352%
16	11.518	1602	1607	1611	rBV	86227	137282	1.27%	0.196%
17	11.633	1616	1626	1628	rBV5	89921	218906	2.03%	0.313%
18	11.950	1667	1678	1686	rBV3	223426	620032	5.74%	0.887%
19	12.048	1690	1694	1698	rVB	105745	151178	1.40%	0.216%
20	12.127	1698	1707	1709	rBV3	92897	186539	1.73%	0.267%
21	12.158	1709	1712	1718	rVB2	138543	232902	2.16%	0.333%
22	12.255	1722	1728	1733	rBV	312960	500830	4.64%	0.716%
23	12.408	1747	1753	1759	rBV2	717093	1191824	11.04%	1.705%
24	12.566	1775	1779	1782	rBV2	72936	120160	1.11%	0.172%
25	12.658	1787	1794	1795	rBV3	102479	160875	1.49%	0.230%
26	12.688	1795	1799	1803	rVV	412204	625839	5.80%	0.895%
27	12.731	1803	1806	1813	rVB2	256129	424159	3.93%	0.607%
28	12.895	1825	1833	1840	rBV	496811	855708	7.93%	1.224%
29	12.962	1840	1844	1851	rVV3	126152	193451	1.79%	0.277%
30	13.042	1851	1857	1862	rVV	574318	854596	7.92%	1.222%
31	13.164	1871	1877	1882	rBV7	51870	140117	1.30%	0.200%
32	13.237	1883	1889	1893	rVV2	261431	435580	4.03%	0.623%
33	13.292	1893	1898	1901	rVV	251197	386395	3.58%	0.553%
34	13.347	1901	1907	1910	rVV	709924	1151756	10.67%	1.648%
35	13.377	1910	1912	1916	rVB	305048	352017	3.26%	0.504%
36	13.511	1928	1934	1936	rBV	627905	895182	8.29%	1.280%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
 Data File : VY019890.D
 Acq On : 14 Oct 2024 14:31
 Operator : SY/MD
 Sample : P4397-01
 Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-301-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	13.548	1936	1940	1943	rVV	1523262	2320656	21.49%	3.320%
38	13.584	1943	1946	1954	rVB2	764302	1276497	11.82%	1.826%
39	13.670	1955	1960	1964	rBV5	189489	314563	2.91%	0.450%
40	13.731	1964	1970	1975	rBV3	220368	437838	4.06%	0.626%
41	13.804	1978	1982	1984	rVV	212812	324208	3.00%	0.464%
42	13.834	1984	1987	1991	rVV2	333950	474718	4.40%	0.679%
43	13.889	1991	1996	2001	rVB2	1302278	1907323	17.67%	2.728%
44	13.999	2008	2014	2019	rBV	1461949	2404502	22.27%	3.439%
45	14.048	2019	2022	2029	rVB	241818	462143	4.28%	0.661%
46	14.133	2029	2036	2039	rBV2	304970	609379	5.64%	0.872%
47	14.212	2040	2049	2052	rVV2	466590	997696	9.24%	1.427%
48	14.255	2052	2056	2060	rVV	582330	817589	7.57%	1.170%
49	14.304	2060	2064	2067	rVV2	513216	696264	6.45%	0.996%
50	14.340	2067	2070	2071	rVV	141925	158003	1.46%	0.226%
51	14.365	2071	2074	2083	rVB2	365573	718120	6.65%	1.027%
52	14.480	2089	2093	2098	rBV	702864	1075582	9.96%	1.539%
53	14.529	2098	2101	2105	rVB	289361	397641	3.68%	0.569%
54	14.590	2105	2111	2117	rBV2	1186318	2460282	22.79%	3.519%
55	14.657	2117	2122	2131	rVV4	612700	1350829	12.51%	1.932%
56	14.749	2132	2137	2142	rVB	996151	1521224	14.09%	2.176%
57	14.858	2148	2155	2161	rBV2	1148340	2326518	21.55%	3.328%
58	14.968	2168	2173	2182	rBV3	386632	694514	6.43%	0.993%
59	15.145	2195	2202	2208	rVB	5145394	8524539	78.95%	12.194%
60	15.255	2214	2220	2225	rBV2	578088	1052766	9.75%	1.506%
61	15.346	2231	2235	2242	rBV7	102747	278509	2.58%	0.398%
62	15.432	2243	2249	2252	rBV3	325520	691269	6.40%	0.989%
63	15.614	2274	2279	2284	rBV4	428025	794345	7.36%	1.136%
64	15.657	2284	2286	2291	rVB	233405	330527	3.06%	0.473%
65	15.730	2291	2298	2302	rBV3	477245	1104741	10.23%	1.580%
66	15.919	2325	2329	2334	rBV5	94323	183122	1.70%	0.262%
67	16.047	2347	2350	2356	rVB3	143091	206331	1.91%	0.295%
68	16.114	2359	2361	2365	rVV3	108673	164050	1.52%	0.235%
69	16.181	2365	2372	2379	rVB	1641070	3165628	29.32%	4.528%
70	16.370	2396	2403	2414	rVB	5237689	10797043	100.00%	15.444%
71	16.474	2416	2420	2432	rVB	68262	192048	1.78%	0.275%
72	16.639	2444	2447	2454	rVB7	72581	119918	1.11%	0.172%

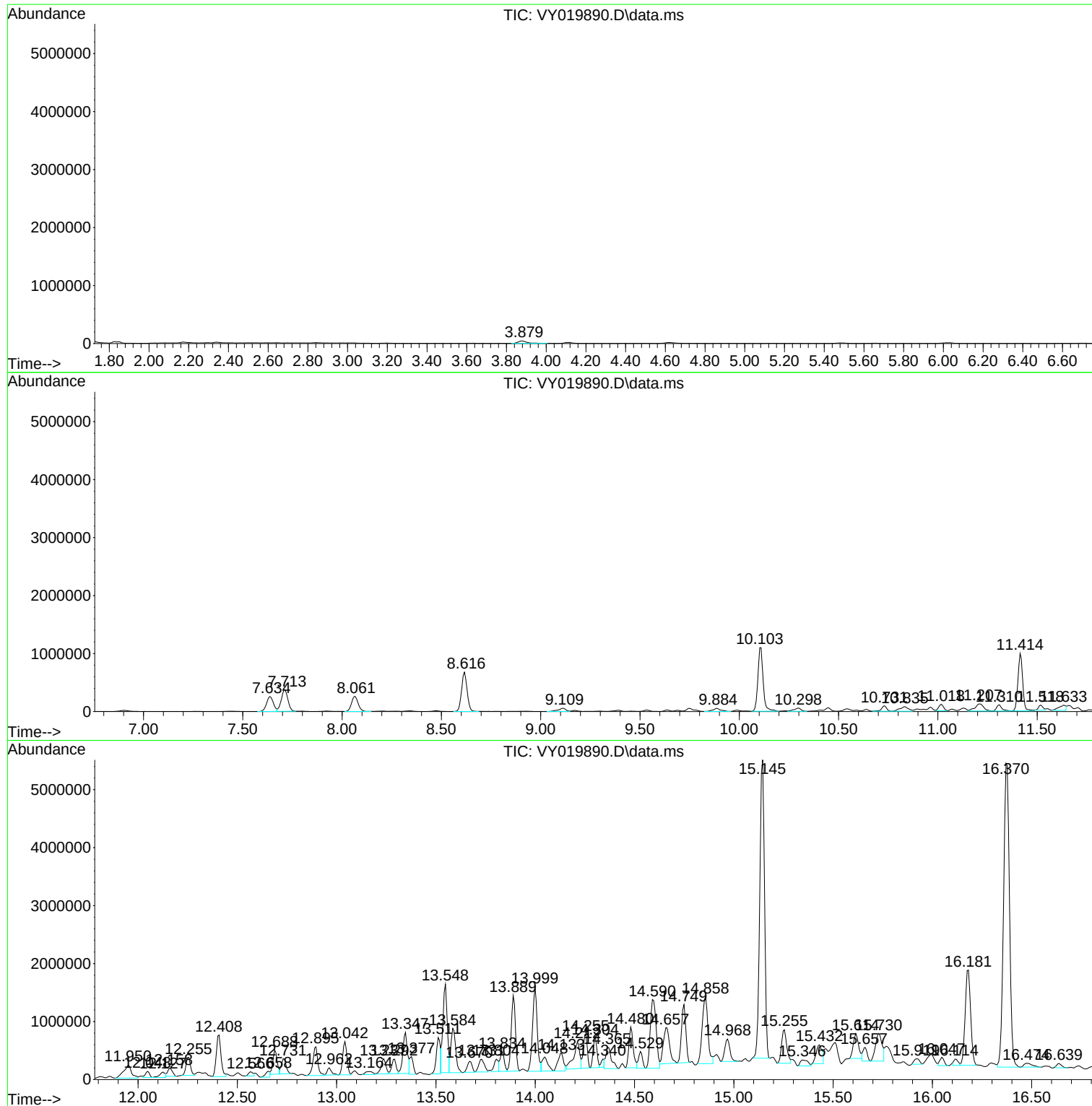
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-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\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

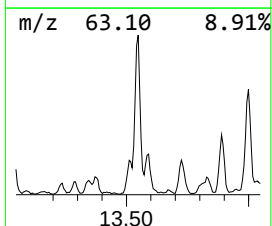
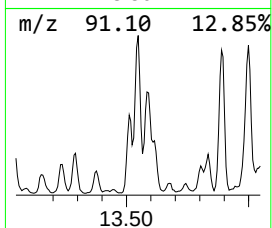
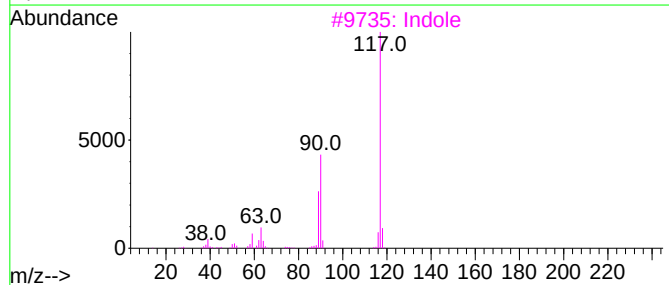
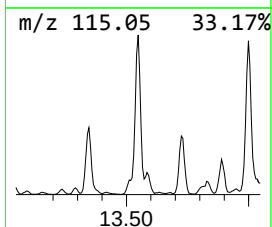
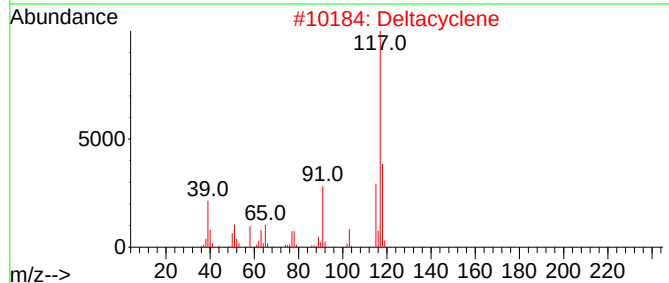
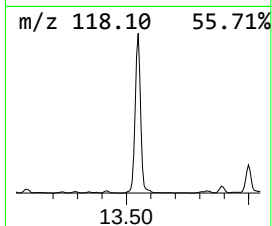
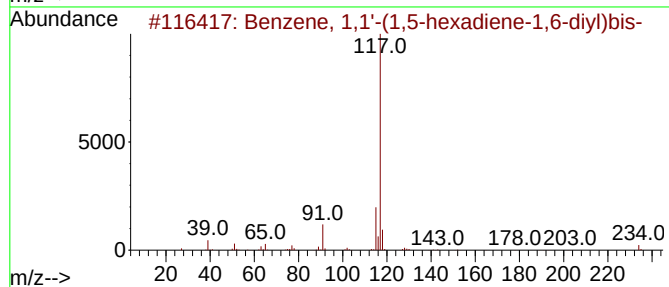
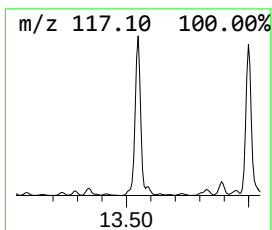
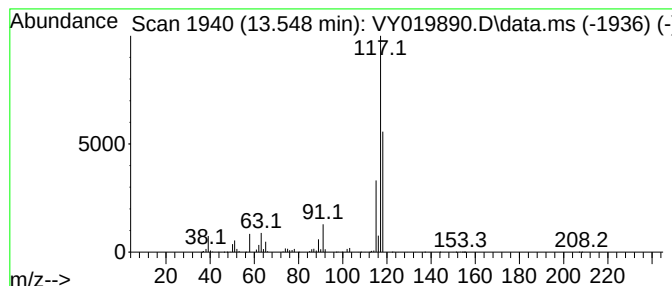
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

Peak Number 1 Benzene, 1,1'-(1,5-hexadien... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.548	100.74 ug/l	2320660	1,4-Dichlorobenzene-d4	13.347

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1,1'-(1,5-hexadiene-1,6...	234	C18H18	004439-45-6	59
2			Deltacyclene	118	C9H10	007785-10-6	50
3			Indole	117	C8H7N	000120-72-9	46
4			Benzaldehyde, 4-(1-phenyl-2-prop...	238	C16H14O2	1000277-56-1	42
5			Benzene, (2-bromocyclopropyl)-	196	C9H9Br	036617-02-4	38



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

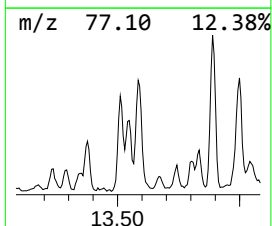
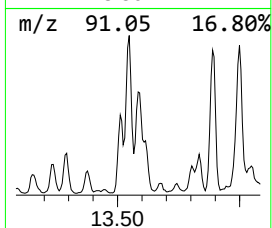
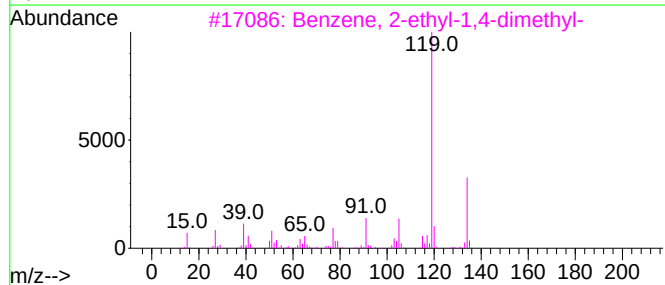
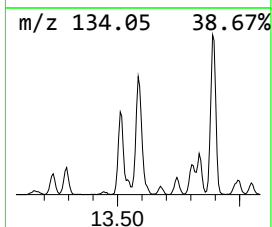
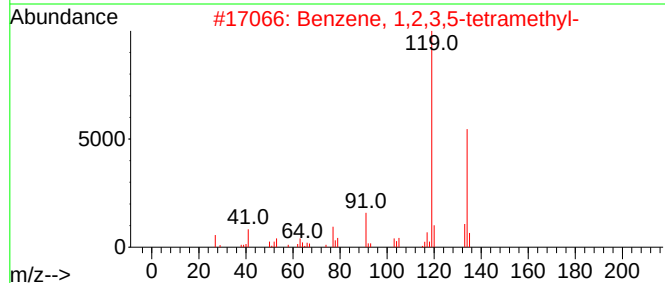
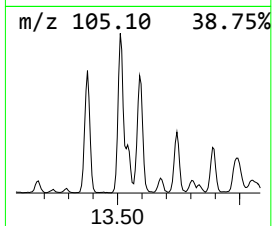
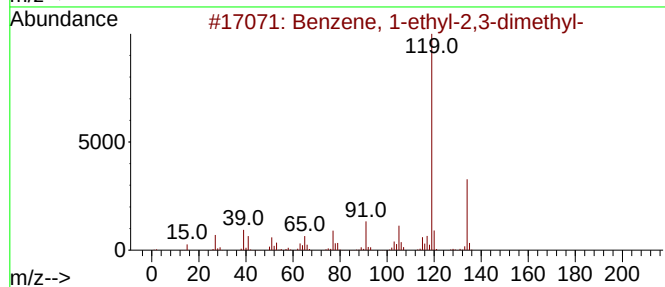
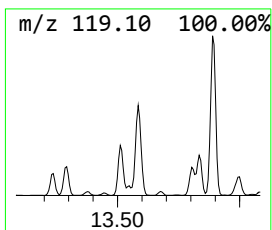
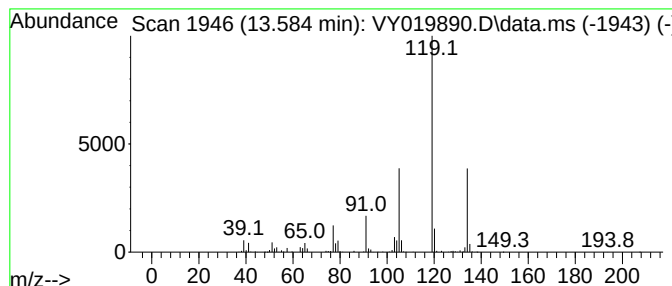
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

Peak Number 2 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.584	55.42 ug/l	1276500	1,4-Dichlorobenzene-d4	13.347

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
2			Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91
3			Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	91
4			Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	90
5			Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	90



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

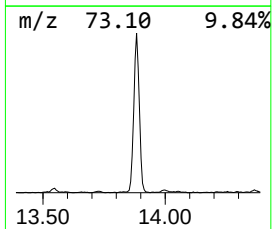
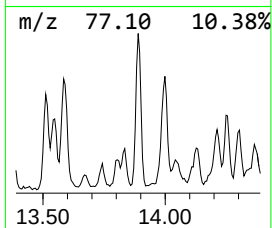
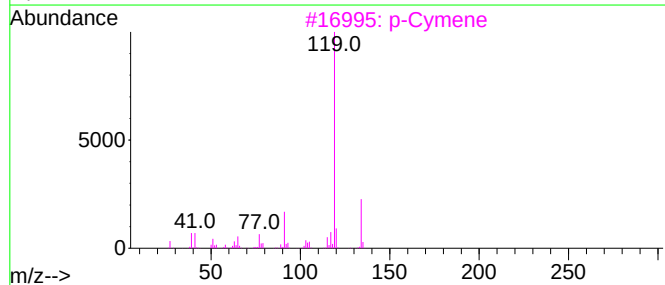
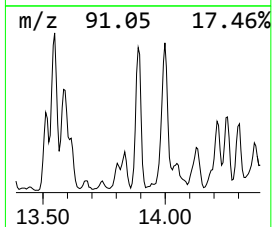
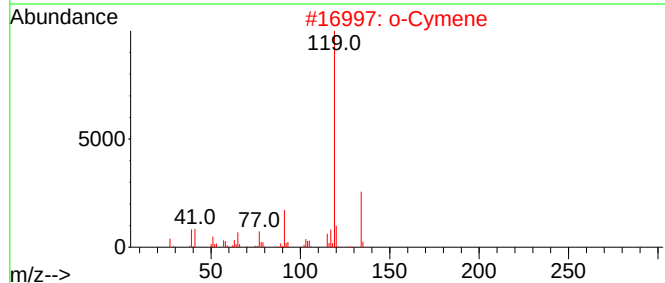
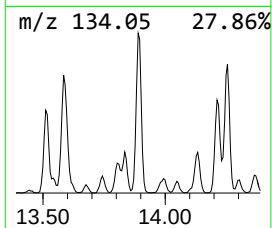
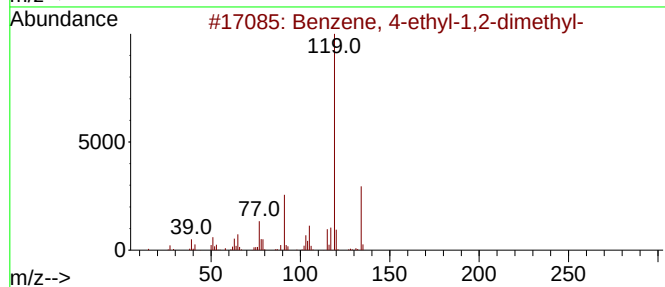
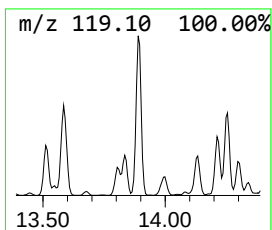
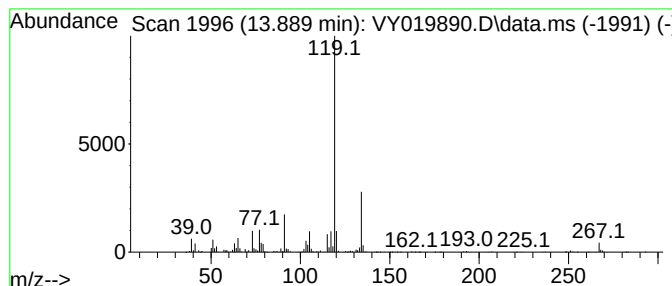
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

Peak Number 3 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.889	82.80 ug/l	1907320	1,4-Dichlorobenzene-d4	13.347

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96
2			o-Cymene	134	C10H14	000527-84-4	95
3			p-Cymene	134	C10H14	000099-87-6	94
4			Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94
5			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	93



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

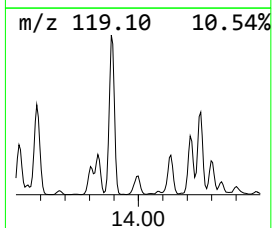
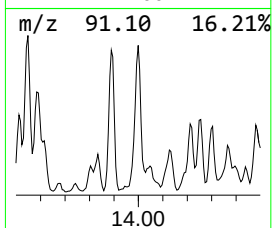
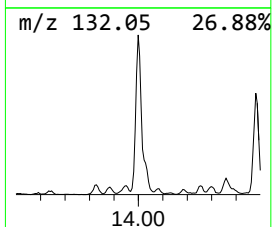
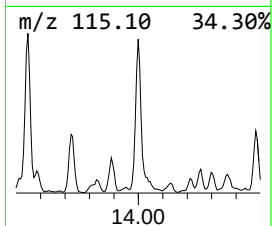
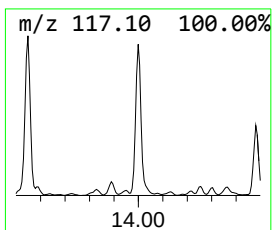
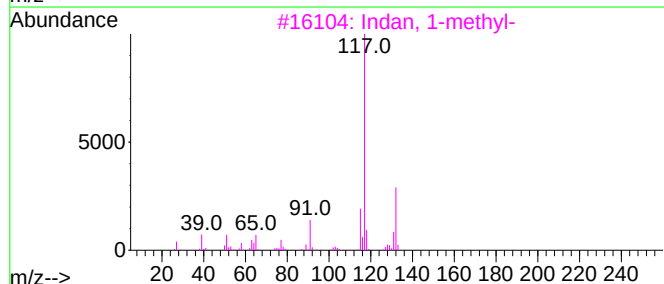
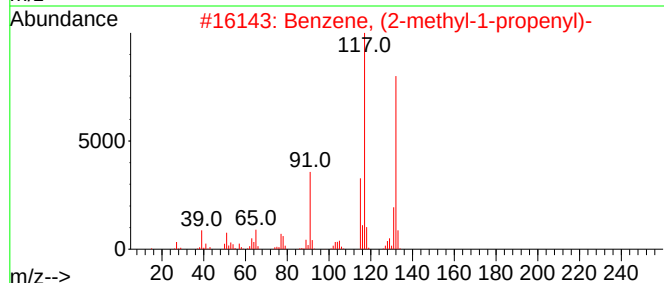
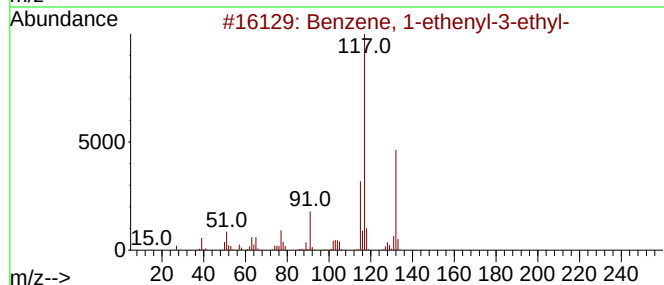
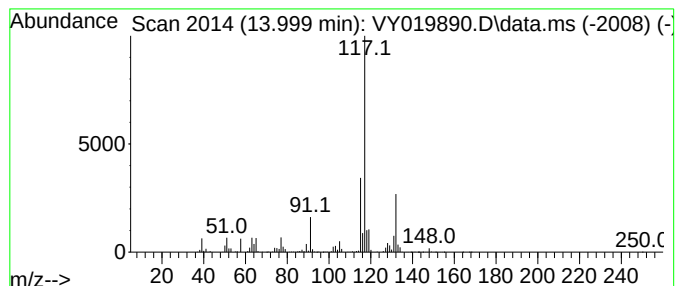
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

Peak Number 4 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.999	104.38 ug/l	2404500	1,4-Dichlorobenzene-d4	13.347

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	90
2			Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	87
3			Indan, 1-methyl-	132	C10H12	000767-58-8	87
4			Benzene, 2-butenyl-	132	C10H12	001560-06-1	83
5			Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	83



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

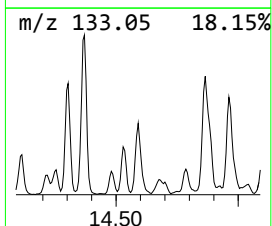
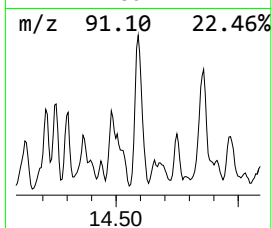
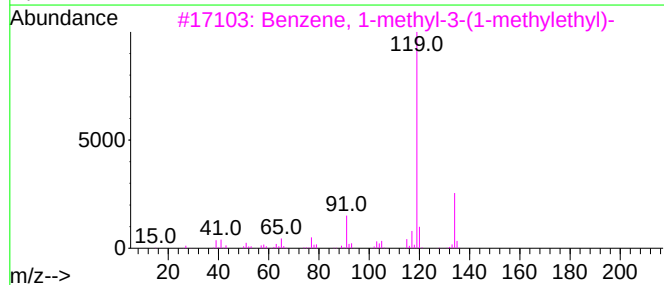
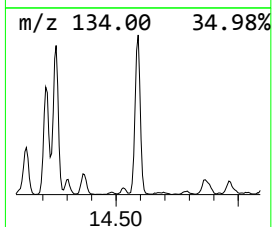
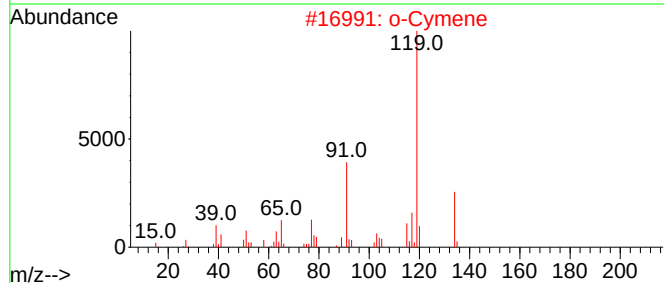
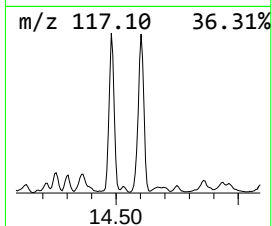
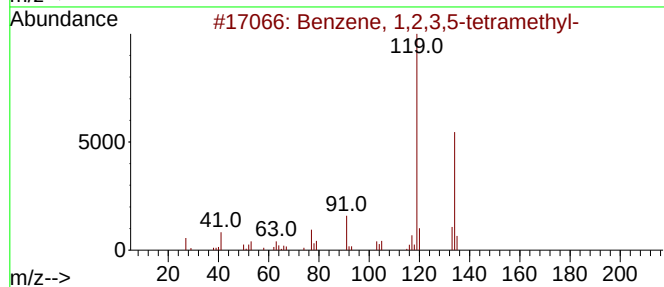
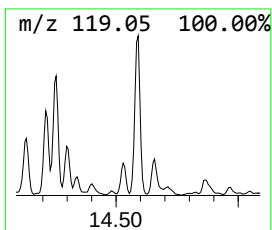
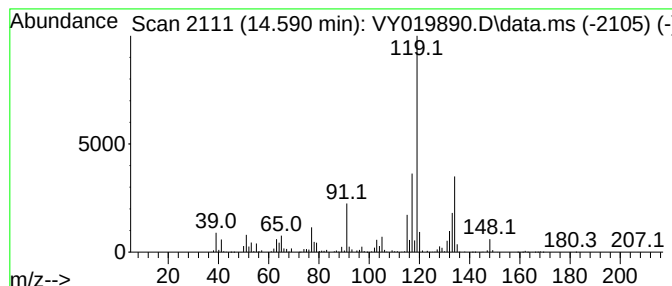
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.590	106.81 ug/l	2460280	1,4-Dichlorobenzene-d4	13.347

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	76
2			o-Cymene	134	C10H14	000527-84-4	76
3			Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	70
4			Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	70
5			p-Cymene	134	C10H14	000099-87-6	70



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

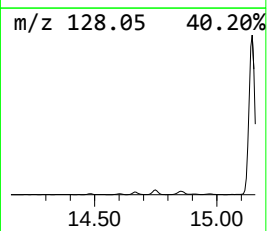
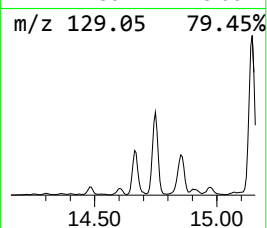
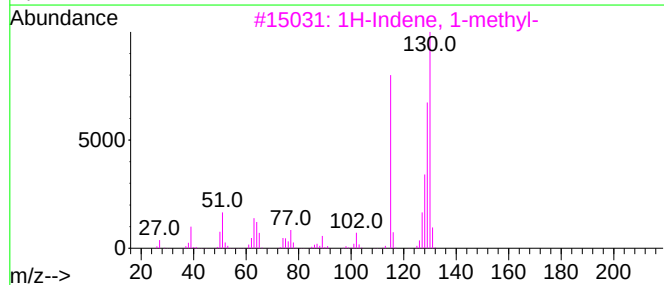
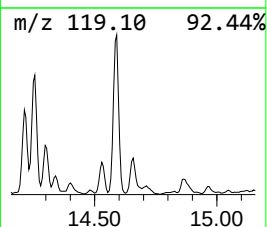
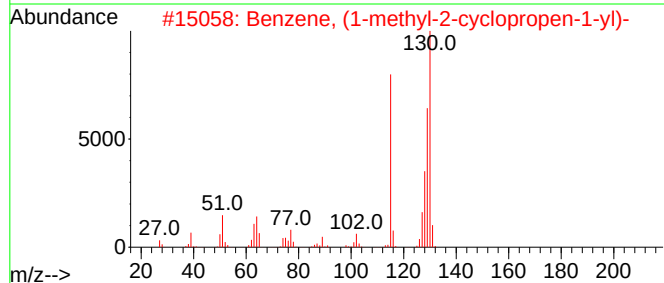
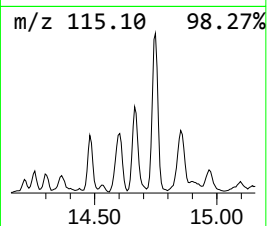
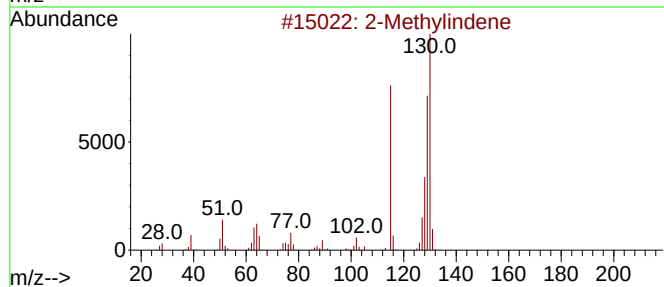
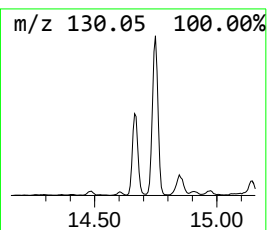
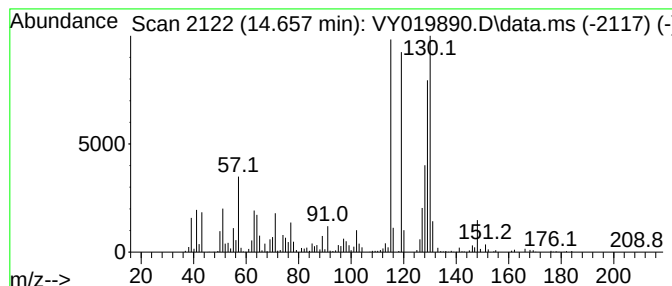
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Quant Title : SW846 8260

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

Peak Number 6 2-Methylindene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.657	58.64 ug/l	1350830	1,4-Dichlorobenzene-d4	13.347

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Methylindene	130	C10H10	002177-47-1	96
2			Benzene, (1-methyl-2-cyclopropen...	130	C10H10	065051-83-4	96
3			1H-Indene, 1-methyl-	130	C10H10	000767-59-9	92
4			1H-Indene, 3-methyl-	130	C10H10	000767-60-2	91
5			Benzene,1-methyl-1,2-propadienyl-	130	C10H10	022433-39-2	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

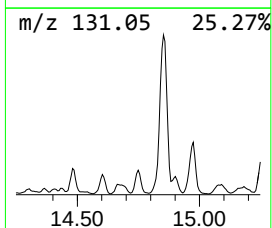
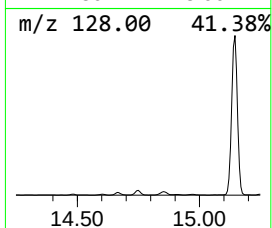
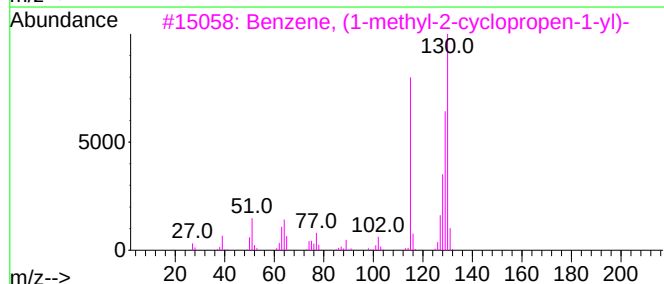
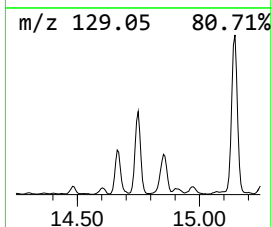
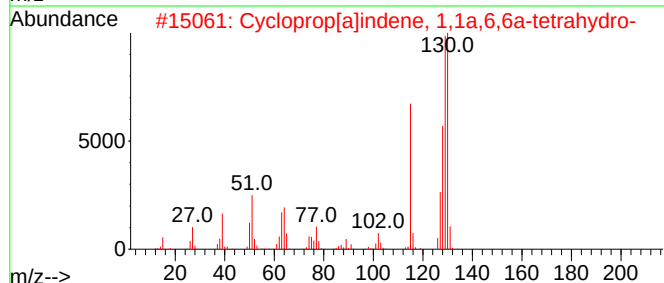
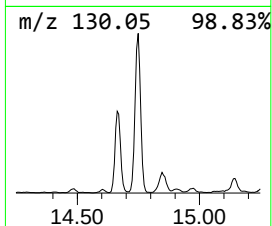
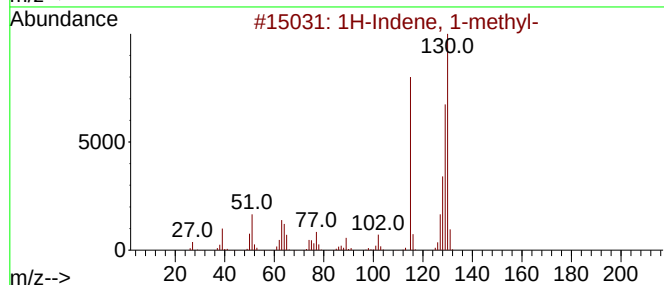
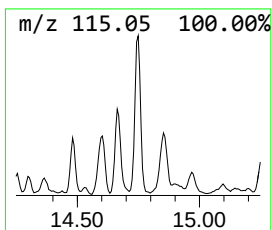
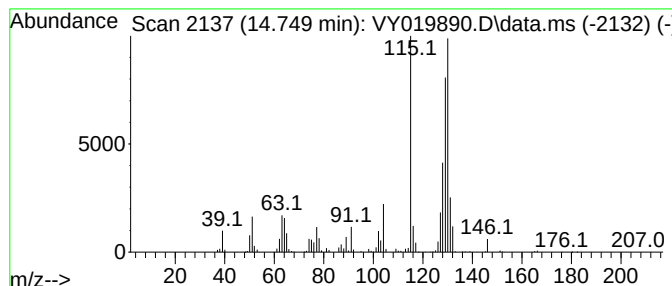
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

Peak Number 7 1H-Indene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.749	66.04 ug/l	1521220	1,4-Dichlorobenzene-d4	13.347

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1H-Indene, 1-methyl-	130	C10H10	000767-59-9	96
2			Cycloprop[a]indene, 1,1a,6,6a-te...	130	C10H10	015677-15-3	94
3			Benzene, (1-methyl-2-cyclopropen...	130	C10H10	065051-83-4	94
4			2-Methylindene	130	C10H10	002177-47-1	94
5			Benzene,1-methyl-1,2-propadienyl-	130	C10H10	022433-39-2	93



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

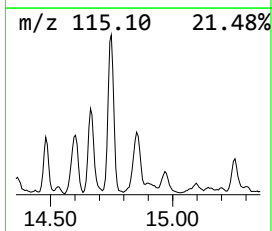
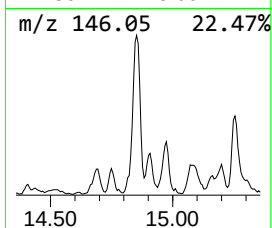
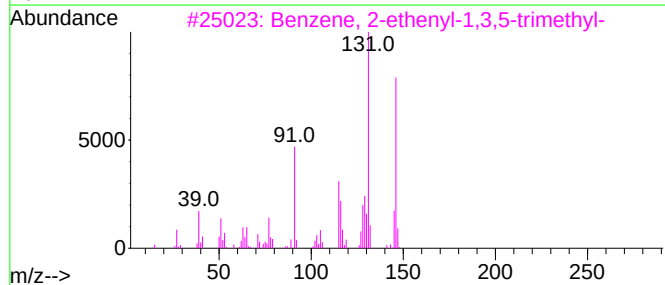
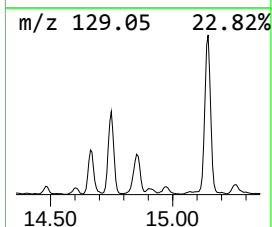
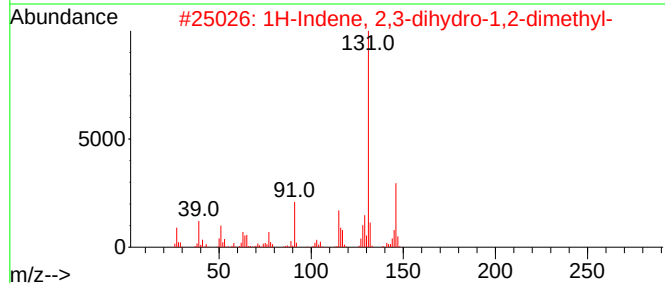
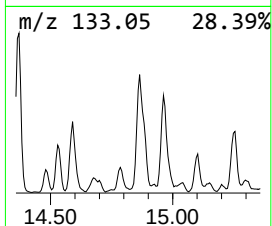
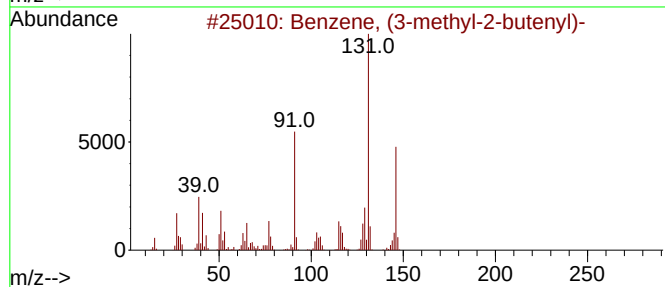
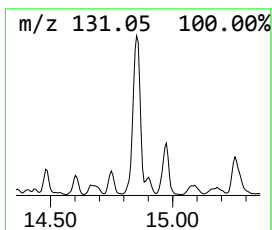
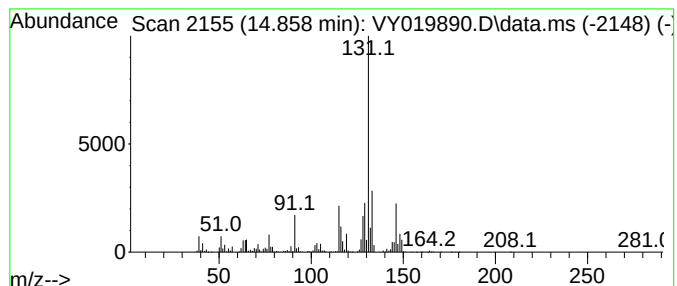
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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

Peak Number 8 Benzene, (3-methyl-2-butenyl)- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.858	101.00 ug/l	2326520	1,4-Dichlorobenzene-d4	13.347

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	90
2			1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	87
3			Benzene, 2-ethenyl-1,3,5-trimethyl-	146	C11H14	000769-25-5	87
4			1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	81
5			1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	81



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019890.D
Acq On : 14 Oct 2024 14:31
Operator : SY/MD
Sample : P4397-01
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-TOP

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, 1,1'-(...	13.548	100.7	ug/l	2320660	4	13.347	1151760	50.0
Benzene, 1-ethy...	13.584	55.4	ug/l	1276500	4	13.347	1151760	50.0
Benzene, 4-ethy...	13.889	82.8	ug/l	1907320	4	13.347	1151760	50.0
Benzene, 1-ethe...	13.999	104.4	ug/l	2404500	4	13.347	1151760	50.0
Benzene, 1,2,3,...	14.590	106.8	ug/l	2460280	4	13.347	1151760	50.0
2-Methylindene	14.657	58.6	ug/l	1350830	4	13.347	1151760	50.0
1H-Indene, 1-me...	14.749	66.0	ug/l	1521220	4	13.347	1151760	50.0
Benzene, (3-met...	14.858	101.0	ug/l	2326520	4	13.347	1151760	50.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	76
Sample Wt/Vol:	7.63 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
VY019889.D	1		10/14/24 14:08	VY101424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	4.30	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.66	U	0.66	4.30	ug/Kg
74-83-9	Bromomethane	0.89	U	0.89	4.30	ug/Kg
75-00-3	Chloroethane	0.87	U	0.87	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	0.78	U	0.78	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.92	U	0.92	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.67	U	0.67	4.30	ug/Kg
67-64-1	Acetone	9.00	J	5.40	21.6	ug/Kg
75-15-0	Carbon Disulfide	2.10	J	1.10	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.58	U	0.58	4.30	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	4.30	ug/Kg
75-09-2	Methylene Chloride	6.10	J	2.90	8.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.72	U	0.72	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.54	U	0.54	4.30	ug/Kg
110-82-7	Cyclohexane	0.59	U	0.59	4.30	ug/Kg
78-93-3	2-Butanone	4.90	U	4.90	21.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.75	U	0.75	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.53	U	0.53	4.30	ug/Kg
74-97-5	Bromochloromethane	2.10	U	2.10	4.30	ug/Kg
67-66-3	Chloroform	0.58	U	0.58	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.67	U	0.67	4.30	ug/Kg
108-87-2	Methylcyclohexane	0.75	U	0.75	4.30	ug/Kg
71-43-2	Benzene	0.62	U	0.62	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.53	U	0.53	4.30	ug/Kg
79-01-6	Trichloroethene	0.65	U	0.65	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.57	U	0.57	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.48	U	0.48	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.80	U	3.80	21.6	ug/Kg
108-88-3	Toluene	0.58	U	0.58	4.30	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	10/11/24
Client Sample ID:	WB-301-BOT			SDG No.:	P4397
Lab Sample ID:	P4397-02			Matrix:	SOIL
Analytical Method:	SW8260			% Solid:	76
Sample Wt/Vol:	7.63	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
VY019889.D	1		10/14/24 14:08	VY101424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.52	U	0.52	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.49	U	0.49	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.72	U	0.72	4.30	ug/Kg
591-78-6	2-Hexanone	4.10	U	4.10	21.6	ug/Kg
124-48-1	Dibromochloromethane	0.56	U	0.56	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.68	U	0.68	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.77	U	0.77	4.30	ug/Kg
108-90-7	Chlorobenzene	0.64	U	0.64	4.30	ug/Kg
100-41-4	Ethyl Benzene	0.53	U	0.53	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	8.60	ug/Kg
95-47-6	o-Xylene	0.60	U	0.60	4.30	ug/Kg
100-42-5	Styrene	0.52	U	0.52	4.30	ug/Kg
75-25-2	Bromoform	0.70	U	0.70	4.30	ug/Kg
98-82-8	Isopropylbenzene	0.58	U	0.58	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.95	U	0.95	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.64	U	0.64	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.69	U	0.69	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.51	U	0.51	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.68	U	0.68	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.67	U	0.67	4.30	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	57.1	70 (50) - 130 (163)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7	70 (54) - 130 (147)	99%	SPK: 50
2037-26-5	Toluene-d8	50.2	70 (58) - 130 (134)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.2	70 (29) - 130 (146)	88%	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	252000	7.713
540-36-3	1,4-Difluorobenzene	524000	8.616
3114-55-4	Chlorobenzene-d5	472000	11.414
3855-82-1	1,4-Dichlorobenzene-d4	175000	13.346

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-BOT	SDG No.:	P4397
Lab Sample ID:	P4397-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	76
Sample Wt/Vol:	7.63 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
VY019889.D	1		10/14/24 14:08	VY101424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-20-3	Diisopropyl ether	1.30	J		6.01	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\VY101424\
 Data File : VY019889.D
 Acq On : 14 Oct 2024 14:08
 Operator : SY/MD
 Sample : P4397-02
 Misc : 7.63g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-301-BOT

Quant Time: Oct 15 01:36:53 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)

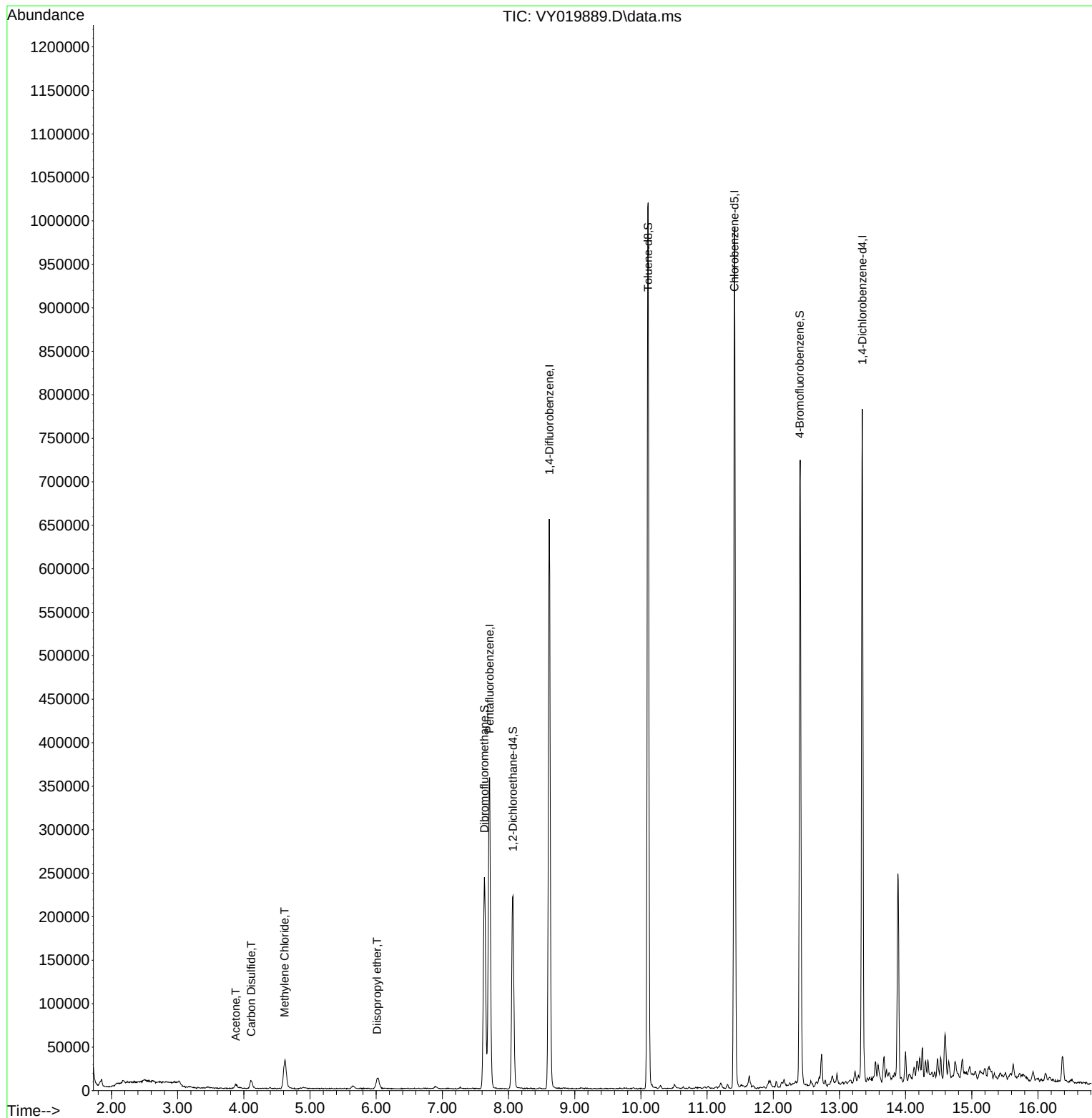
Internal Standards						
1) Pentafluorobenzene	7.713	168	252165	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	523891	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	471714	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	175128	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	177217	57.077	ug/l	0.00
Spiked Amount	50.000	Range 50 - 163	Recovery	=	114.160%	
35) Dibromofluoromethane	7.634	113	171944	49.736	ug/l	0.00
Spiked Amount	50.000	Range 54 - 147	Recovery	=	99.480%	
50) Toluene-d8	10.109	98	640644	50.181	ug/l	0.00
Spiked Amount	50.000	Range 58 - 134	Recovery	=	100.360%	
62) 4-Bromofluorobenzene	12.402	95	203661	44.150	ug/l	0.00
Spiked Amount	50.000	Range 29 - 146	Recovery	=	88.300%	
Target Compounds						
					Qvalue	
16) Acetone	3.879	43	8479	10.491	ug/l	# 73
17) Carbon Disulfide	4.110	76	17568	2.423	ug/l	95
20) Methylene Chloride	4.616	84	23306	7.112	ug/l	# 84
22) Diisopropyl ether	6.012	45	16618	1.563	ug/l	# 84

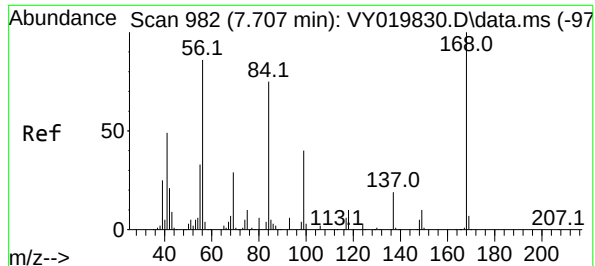
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019889.D
Acq On : 14 Oct 2024 14:08
Operator : SY/MD
Sample : P4397-02
Misc : 7.63g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-BOT

Quant Time: Oct 15 01:36:53 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

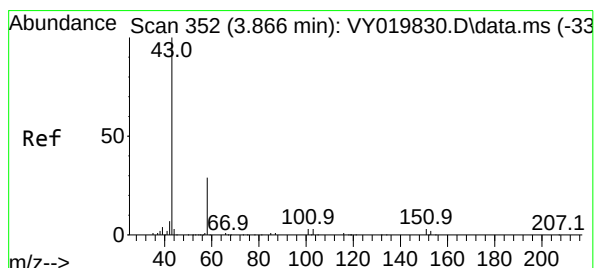
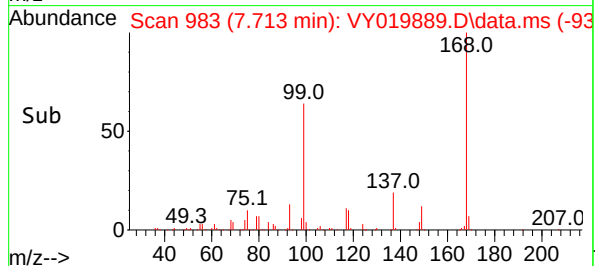
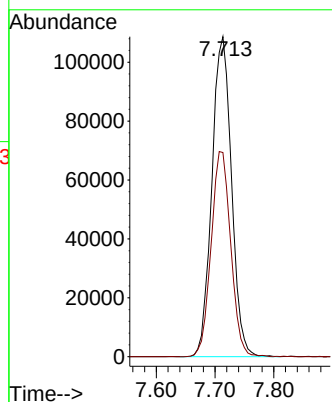
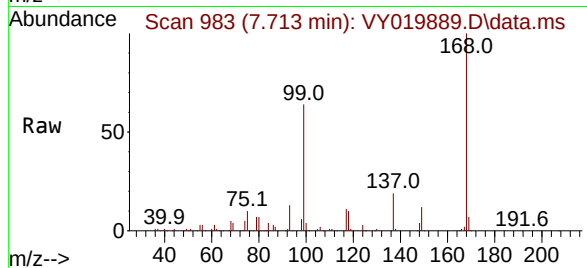




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY019889.D
Acq: 14 Oct 2024 14:08

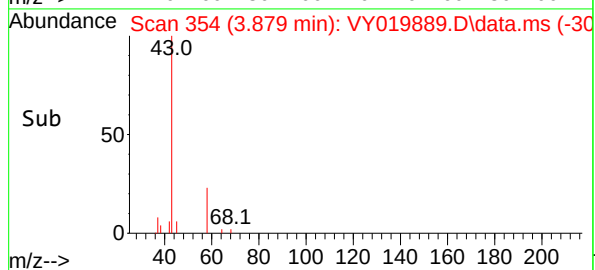
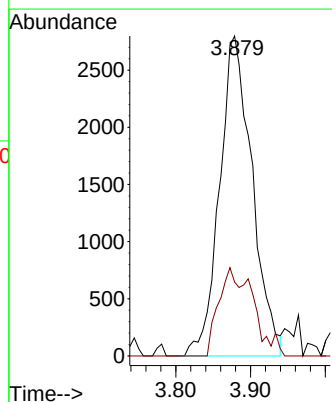
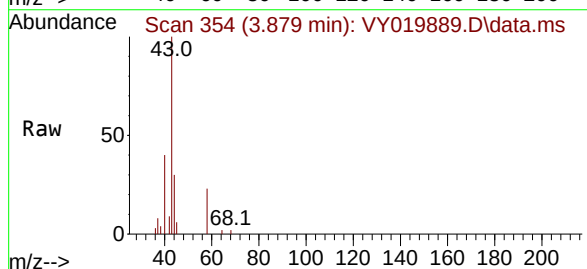
Instrument :
MSVOA_Y
ClientSampleId :
WB-301-BOT

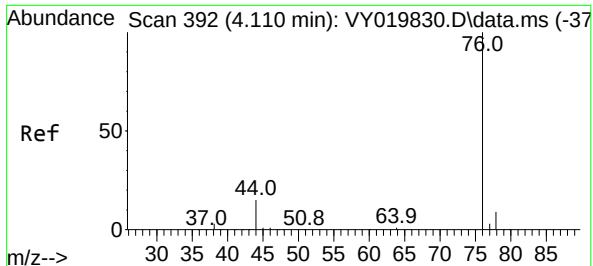
Tgt Ion:168 Resp: 252165
Ion Ratio Lower Upper
168 100
99 63.8 39.1 58.7#



#16
Acetone
Concen: 10.491 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY019889.D
Acq: 14 Oct 2024 14:08

Tgt Ion: 43 Resp: 8479
Ion Ratio Lower Upper
43 100
58 23.1 31.7 47.5#





#17

Carbon Disulfide

Concen: 2.423 ug/l

RT: 4.110 min Scan# 392

Delta R.T. 0.006 min

Lab File: VY019889.D

Acq: 14 Oct 2024 14:08

Instrument :

MSVOA_Y

ClientSampleId :

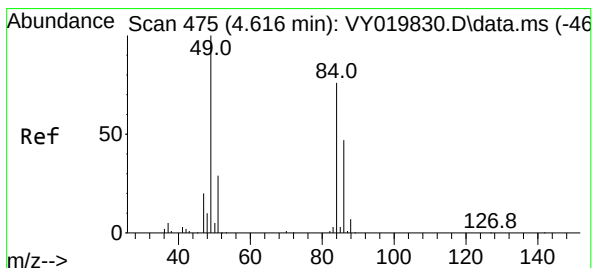
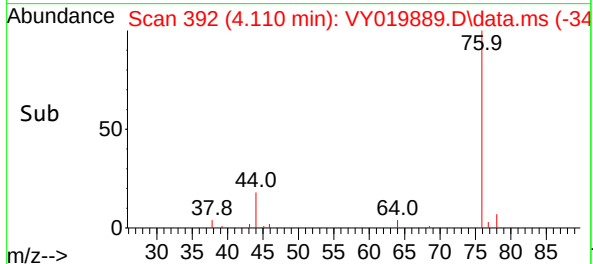
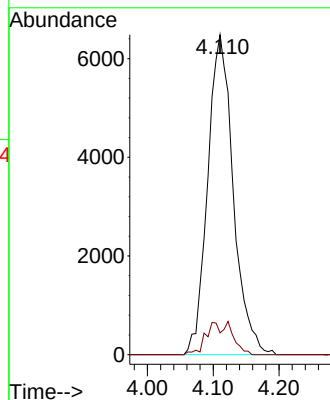
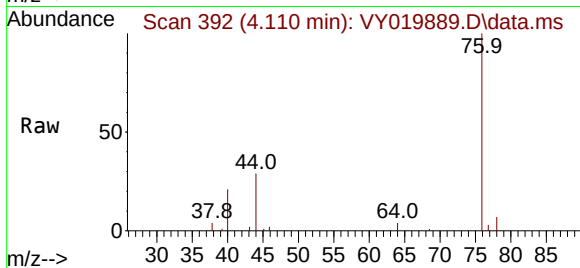
WB-301-BOT

Tgt Ion: 76 Resp: 17568

Ion Ratio Lower Upper

76 100

78 6.8 6.8 10.2



#20

Methylene Chloride

Concen: 7.112 ug/l

RT: 4.616 min Scan# 475

Delta R.T. 0.000 min

Lab File: VY019889.D

Acq: 14 Oct 2024 14:08

Tgt Ion: 84 Resp: 23306

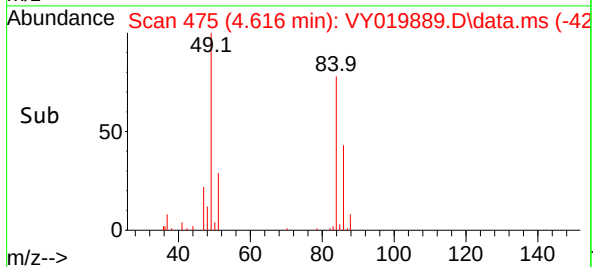
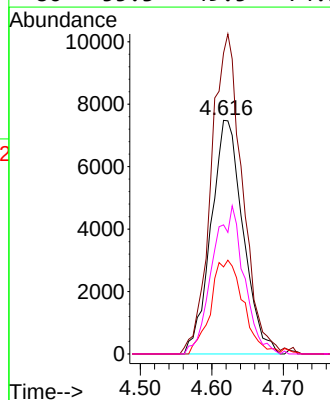
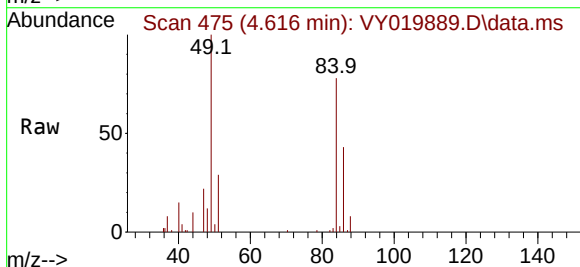
Ion Ratio Lower Upper

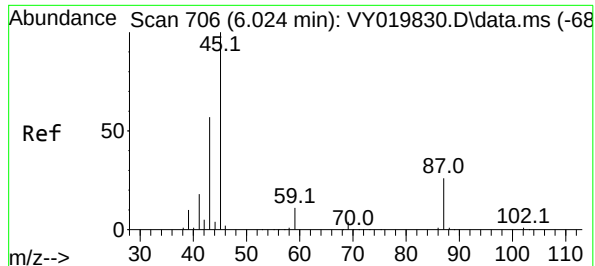
84 100

49 128.8 84.4 126.6#

51 37.2 26.0 39.0

86 55.3 49.5 74.3





#22

Diisopropyl ether

Concen: 1.563 ug/l

RT: 6.012 min Scan# 706

Delta R.T. -0.006 min

Lab File: VY019889.D

Acq: 14 Oct 2024 14:08

Instrument :

MSVOA_Y

ClientSampleId :

WB-301-BOT

Tgt Ion: 45 Resp: 16618

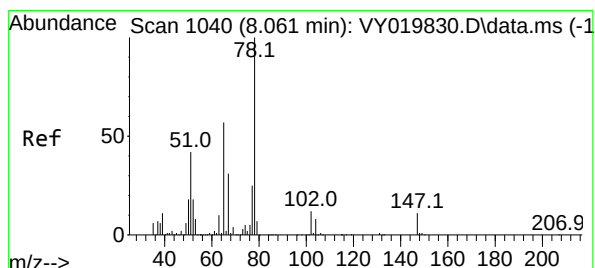
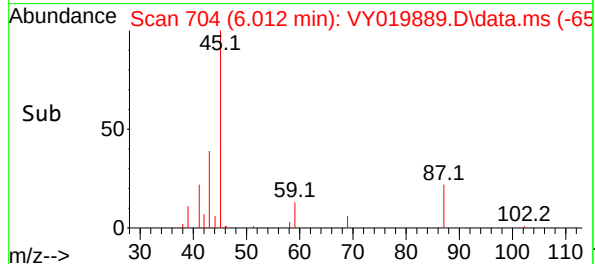
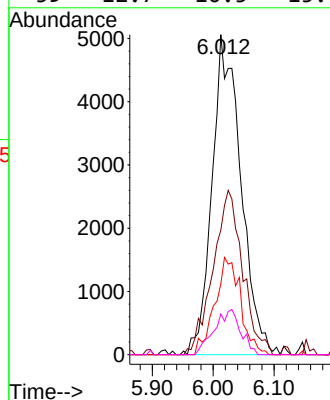
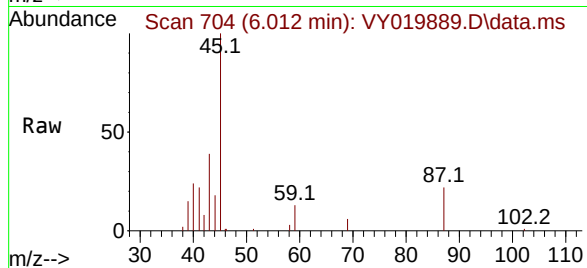
Ion Ratio Lower Upper

45 100

43 39.0 42.2 63.2#

87 22.2 25.0 37.6#

59 12.7 10.5 15.7



#33

1,2-Dichloroethane-d4

Concen: 57.077 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VY019889.D

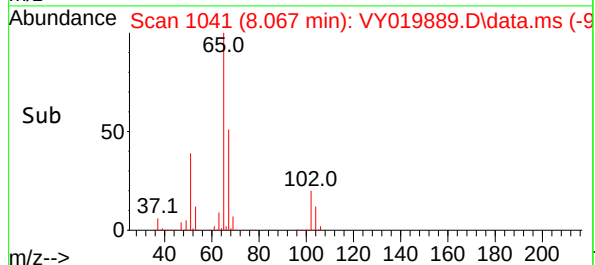
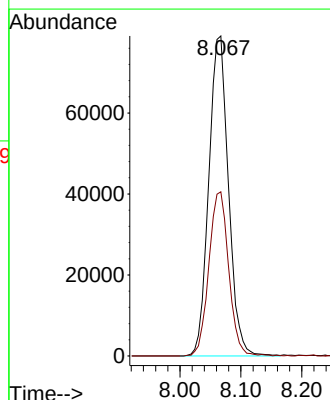
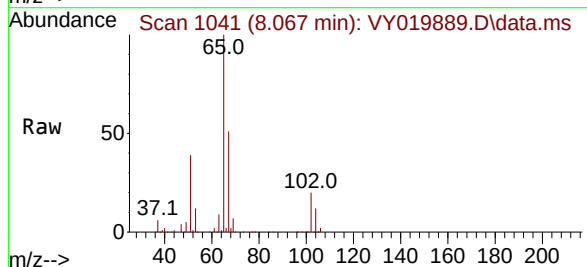
Acq: 14 Oct 2024 14:08

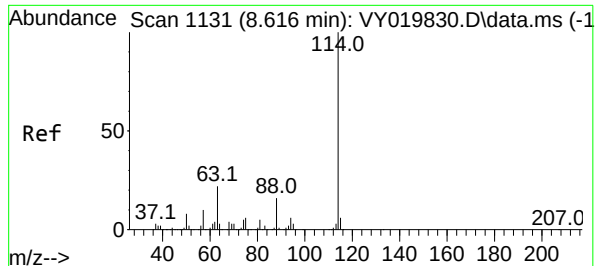
Tgt Ion: 65 Resp: 177217

Ion Ratio Lower Upper

65 100

67 51.8 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: VY019889.D

Acq: 14 Oct 2024 14:08

Instrument :

MSVOA_Y

ClientSampleId :

WB-301-BOT

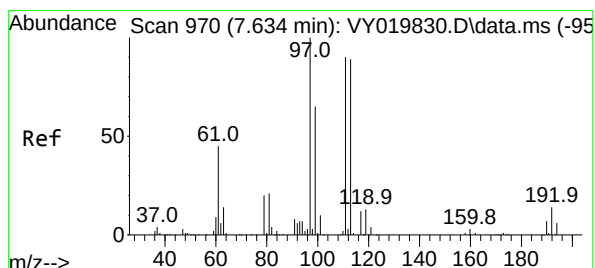
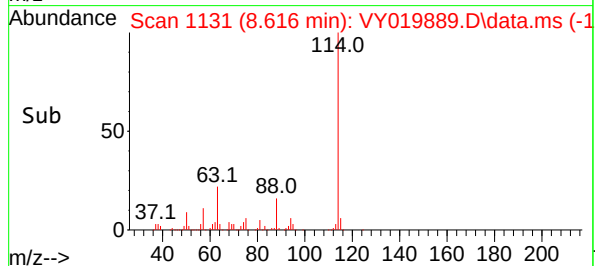
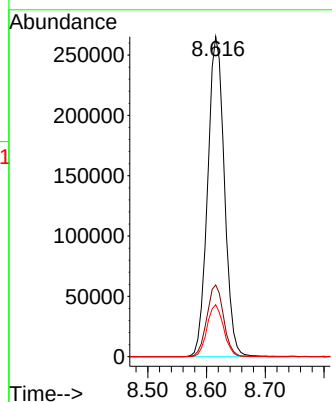
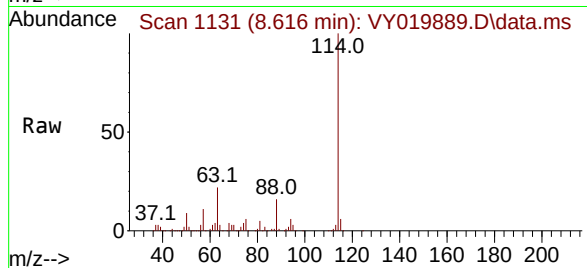
Tgt Ion:114 Resp: 523891

Ion Ratio Lower Upper

114 100

63 22.4 0.0 35.0

88 16.3 0.0 27.2



#35

Dibromofluoromethane

Concen: 49.736 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY019889.D

Acq: 14 Oct 2024 14:08

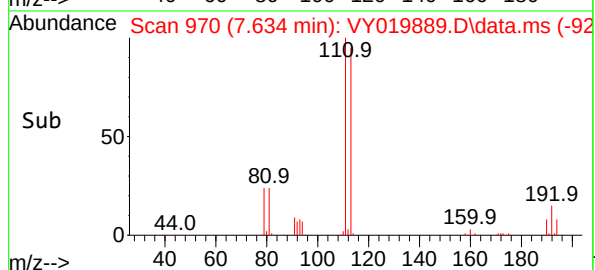
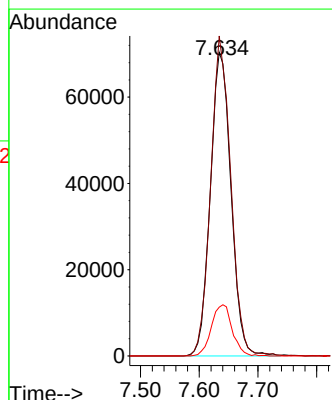
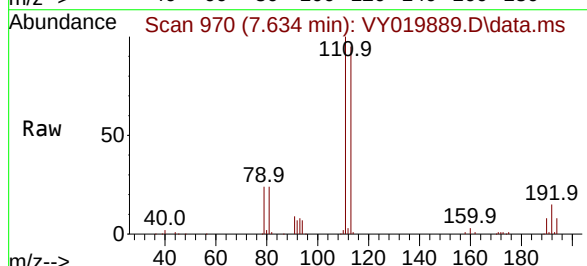
Tgt Ion:113 Resp: 171944

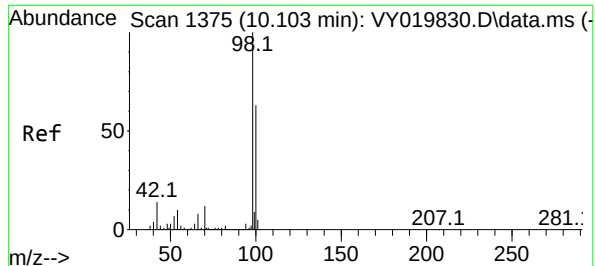
Ion Ratio Lower Upper

113 100

111 102.5 82.2 123.4

192 17.0 15.9 23.9





#50

Toluene-d8

Concen: 50.181 ug/l

RT: 10.109 min Scan# 1375

Delta R.T. 0.000 min

Lab File: VY019889.D

Acq: 14 Oct 2024 14:08

Instrument :

MSVOA_Y

ClientSampleId :

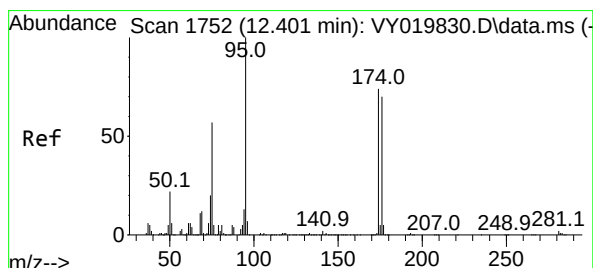
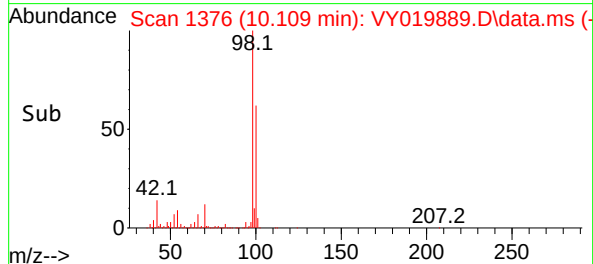
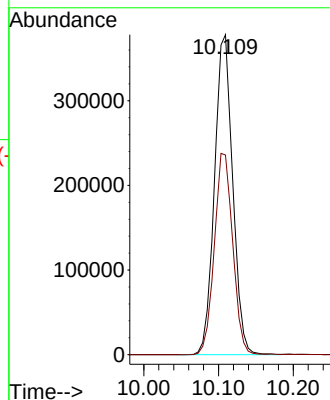
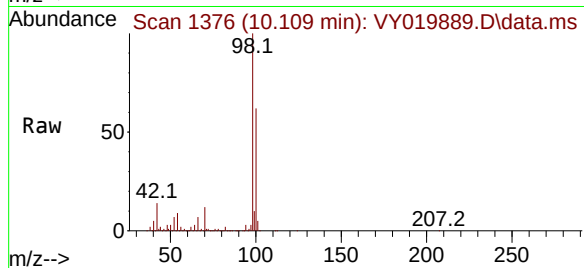
WB-301-BOT

Tgt Ion: 98 Resp: 640644

Ion Ratio Lower Upper

98 100

100 63.7 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 44.150 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY019889.D

Acq: 14 Oct 2024 14:08

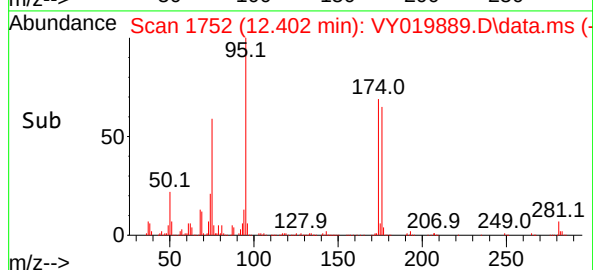
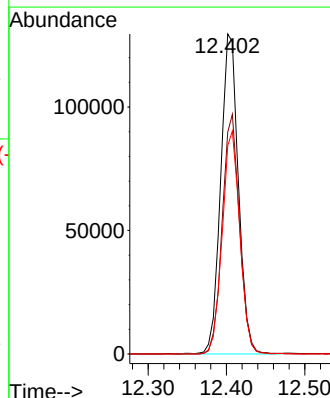
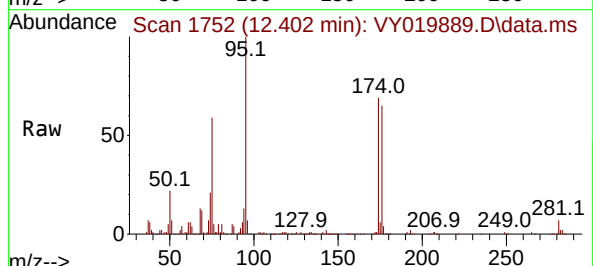
Tgt Ion: 95 Resp: 203661

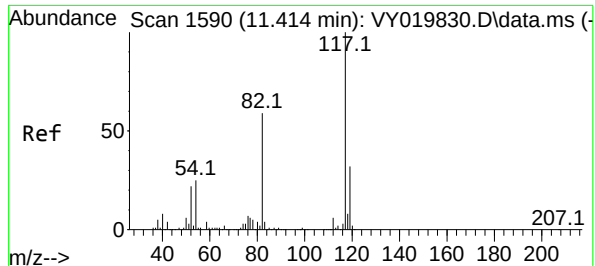
Ion Ratio Lower Upper

95 100

174 73.2 0.0 175.6

176 69.2 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: VY019889.D

Acq: 14 Oct 2024 14:08

Instrument :

MSVOA_Y

ClientSampleId :

WB-301-BOT

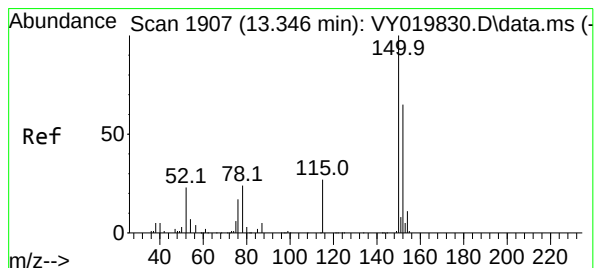
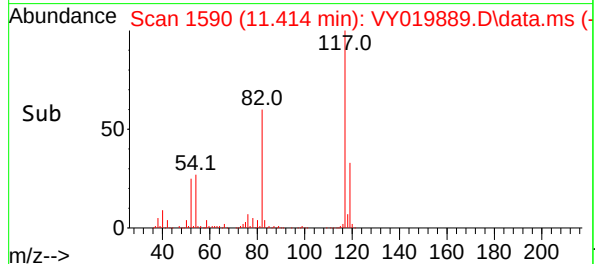
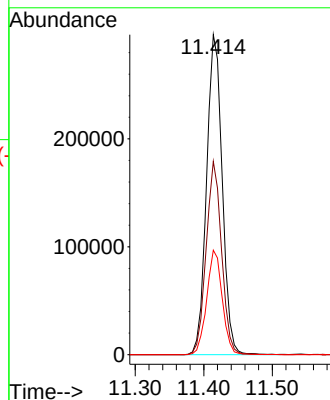
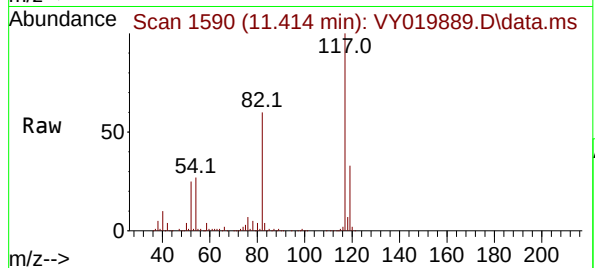
Tgt Ion:117 Resp: 471714

Ion Ratio Lower Upper

117 100

82 60.4 42.4 63.6

119 32.7 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: VY019889.D

Acq: 14 Oct 2024 14:08

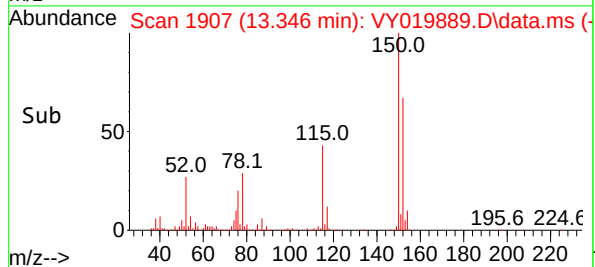
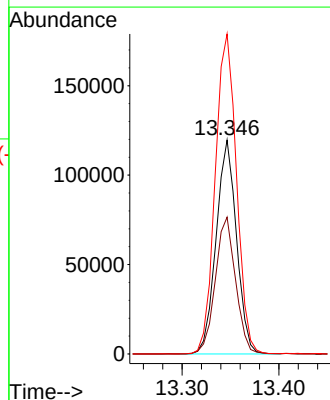
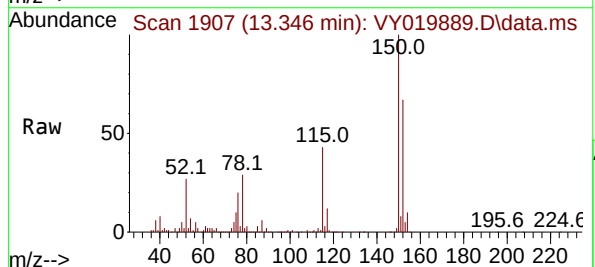
Tgt Ion:152 Resp: 175128

Ion Ratio Lower Upper

152 100

115 64.0 28.2 84.7

150 155.7 0.0 345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019889.D
Acq On : 14 Oct 2024 14:08
Operator : SY/MD
Sample : P4397-02
Misc : 7.63g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-BOT

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\82Y1009245.M
Title : SW846 8260

Signal : TIC: VY019889.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.849	13	21	27	rVB4	7931	18666	1.05%	0.176%
2	4.104	380	391	398	rBV2	9310	25579	1.44%	0.242%
3	4.622	465	476	488	rBV2	33035	103989	5.87%	0.982%
4	6.031	696	707	717	rBV5	12448	44109	2.49%	0.417%
5	7.634	960	970	976	rBV2	243196	580994	32.81%	5.487%
6	7.713	976	983	993	rVB	356764	828994	46.82%	7.829%
7	8.067	1027	1041	1055	rBV	222332	511558	28.89%	4.831%
8	8.616	1122	1131	1148	rBV	655319	1296812	73.24%	12.247%
9	10.109	1366	1376	1385	rBV	1018999	1770641	100.00%	16.722%
10	11.414	1583	1590	1602	rBV	989040	1577329	89.08%	14.897%
11	11.639	1616	1627	1632	rBV9	12774	27969	1.58%	0.264%
12	12.408	1744	1753	1766	rVB2	718518	1240125	70.04%	11.712%
13	12.731	1801	1806	1812	rVV4	37317	68665	3.88%	0.648%
14	12.895	1826	1833	1837	rBV6	9657	20283	1.15%	0.192%
15	13.237	1883	1889	1893	rBV8	13293	24641	1.39%	0.233%
16	13.346	1900	1907	1916	rVB	773448	1204957	68.05%	11.380%
17	13.548	1931	1940	1943	rBV3	21392	40051	2.26%	0.378%
18	13.584	1943	1946	1955	rVB3	19769	38772	2.19%	0.366%
19	13.676	1955	1961	1964	rBV3	29126	52018	2.94%	0.491%
20	13.883	1989	1995	2001	rVB3	235564	396055	22.37%	3.740%
21	13.999	2008	2014	2019	rBV	34756	53414	3.02%	0.504%
22	14.060	2019	2024	2030	rVV9	7451	18469	1.04%	0.174%
23	14.127	2030	2035	2039	rVV4	13779	25880	1.46%	0.244%
24	14.176	2039	2043	2046	rVV6	19854	37397	2.11%	0.353%
25	14.212	2046	2049	2052	rVV	22149	33701	1.90%	0.318%
26	14.255	2052	2056	2060	rVB	33081	46210	2.61%	0.436%
27	14.304	2060	2064	2067	rBV5	18134	26857	1.52%	0.254%
28	14.334	2067	2069	2075	rVB3	17186	21703	1.23%	0.205%
29	14.480	2089	2093	2098	rBV4	21067	36390	2.06%	0.344%
30	14.529	2098	2101	2106	rVB7	24002	32402	1.83%	0.306%
31	14.596	2106	2112	2117	rBV4	51214	106025	5.99%	1.001%
32	14.651	2117	2121	2126	rVB7	18486	31769	1.79%	0.300%
33	14.749	2132	2137	2143	rBV8	16743	32645	1.84%	0.308%
34	14.858	2149	2155	2159	rBV5	21238	42559	2.40%	0.402%
35	15.127	2194	2199	2207	rBV10	7941	24548	1.39%	0.232%
36	15.261	2216	2221	2223	rBV6	11047	20399	1.15%	0.193%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019889.D
Acq On : 14 Oct 2024 14:08
Operator : SY/MD
Sample : P4397-02
Misc : 7.63g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-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	15.590	2266	2275	2277	rBV10	7039	17854	1.01%	0.169%
38	15.627	2277	2281	2287	rVB7	14929	26538	1.50%	0.251%
39	15.925	2325	2330	2335	rVB8	10263	19526	1.10%	0.184%
40	16.370	2397	2403	2410	rBV3	28395	61985	3.50%	0.585%

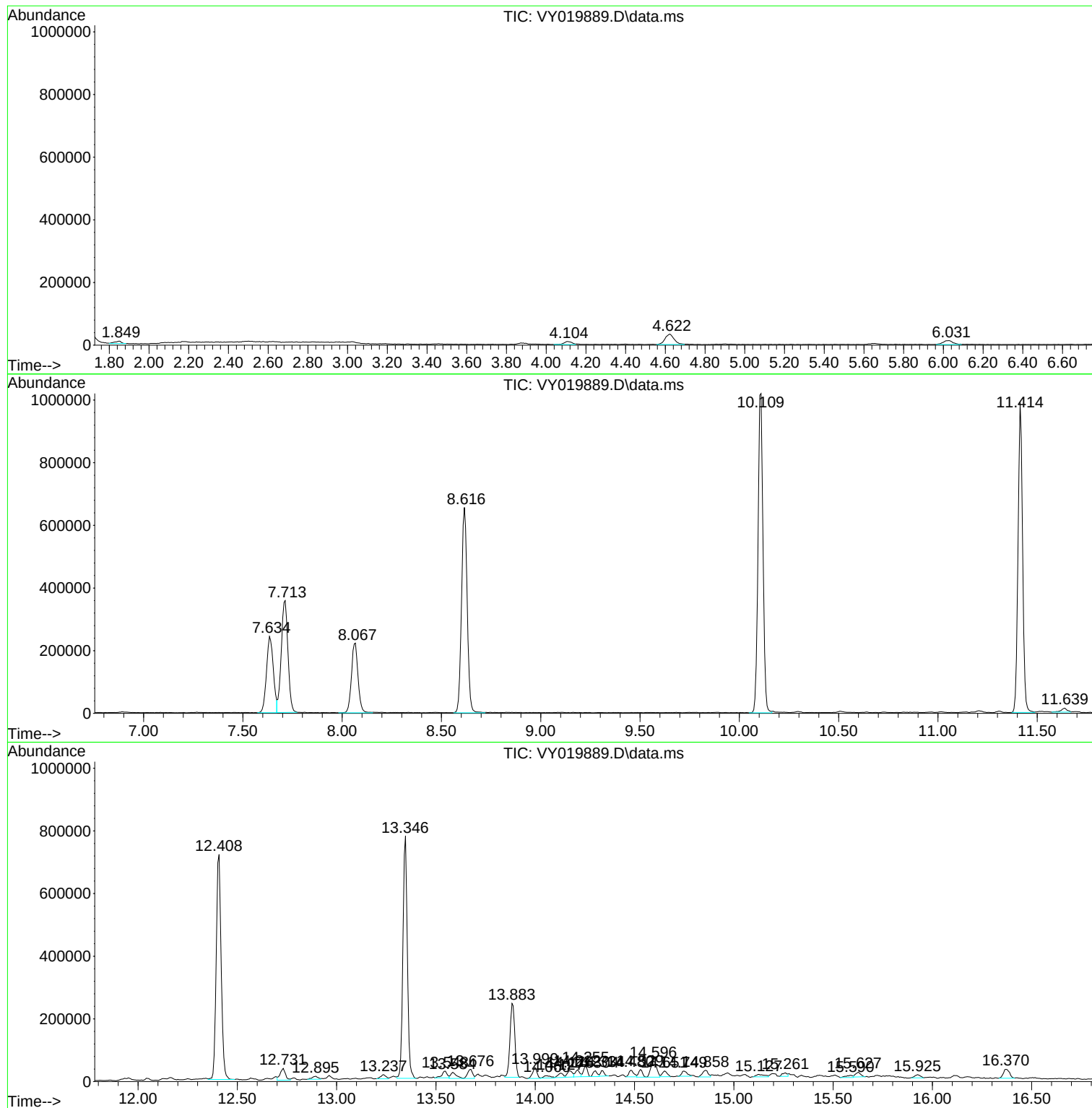
Sum of corrected areas: 10588478

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019889.D
Acq On : 14 Oct 2024 14:08
Operator : SY/MD
Sample : P4397-02
Misc : 7.63g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-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\VY101424\
Data File : VY019889.D
Acq On : 14 Oct 2024 14:08
Operator : SY/MD
Sample : P4397-02
Misc : 7.63g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-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

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019889.D
Acq On : 14 Oct 2024 14:08
Operator : SY/MD
Sample : P4397-02
Misc : 7.63g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-301-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

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

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-SW	SDG No.:	P4397
Lab Sample ID:	P4397-04	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
VX043400.D	1		10/15/24 13:09	VX101524

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	4.30	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	0.74	J	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:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-SW	SDG No.:	P4397
Lab Sample ID:	P4397-04	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
VX043400.D	1		10/15/24 13:09	VX101524

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	50.3		70 (74) - 130 (125)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		70 (75) - 130 (124)	96%	SPK: 50
2037-26-5	Toluene-d8	49.7		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.4		70 (77) - 130 (121)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	80900	5.55			
540-36-3	1,4-Difluorobenzene	148000	6.763			
3114-55-4	Chlorobenzene-d5	126000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	50400	12.024			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/10/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	WB-301-SW	SDG No.:	P4397
Lab Sample ID:	P4397-04	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
VX043400.D	1		10/15/24 13:09	VX101524

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

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
 Data File : VX043400.D
 Acq On : 15 Oct 2024 13:09
 Operator : JC/MD
 Sample : P4397-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WB-301-SW

Quant Time: Oct 16 01:54:52 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:50:57 2024
 Response via : Initial Calibration

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

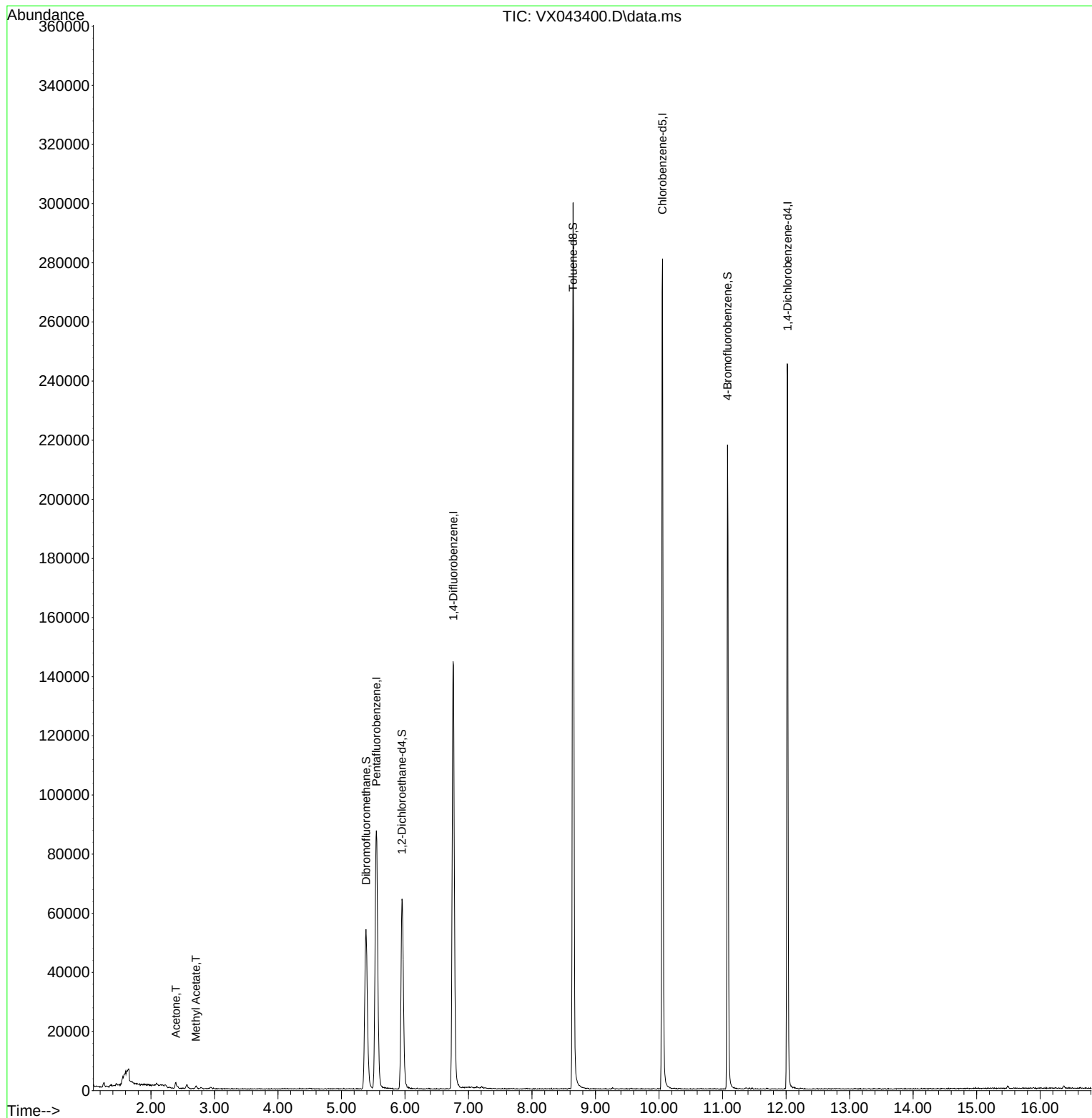
Internal Standards						
1) Pentafluorobenzene	5.550	168	80908	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	148484	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	126066	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	50389	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	66434	50.277	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	100.560%
35) Dibromofluoromethane	5.385	113	48941	47.794	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.580%
50) Toluene-d8	8.647	98	176310	49.684	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.360%
62) 4-Bromofluorobenzene	11.079	95	61059	47.362	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	94.720%
Target Compounds						
16) Acetone	2.392	43	2387	4.326	ug/l	99
18) Methyl Acetate	2.709	43	1022	0.738	ug/l #	89

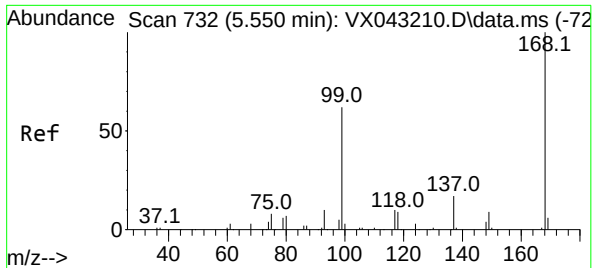
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043400.D
Acq On : 15 Oct 2024 13:09
Operator : JC/MD
Sample : P4397-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-301-SW

Quant Time: Oct 16 01:54:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

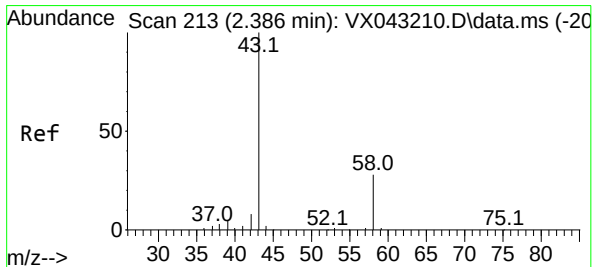
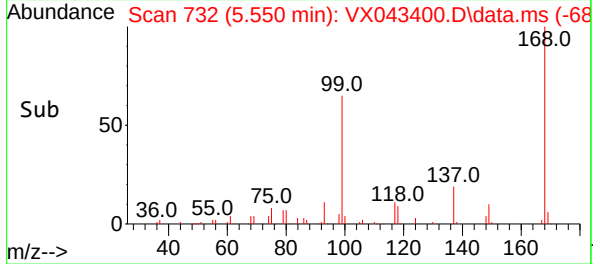
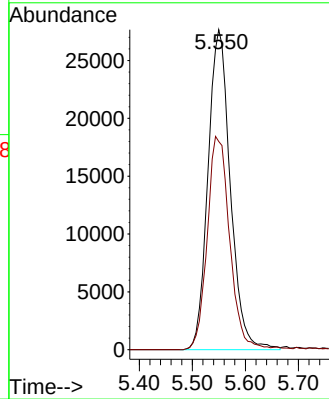
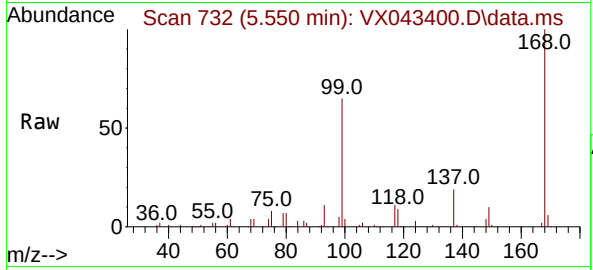




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX043400.D
Acq: 15 Oct 2024 13:09

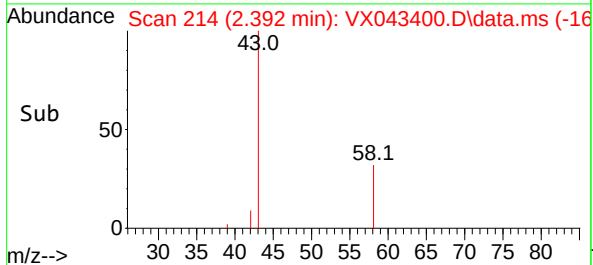
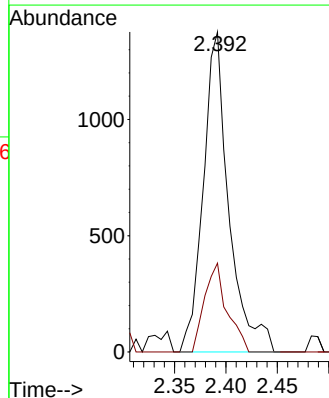
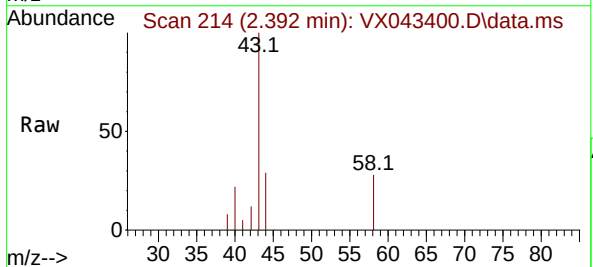
Instrument :
MSVOA_X
ClientSampleId :
WB-301-SW

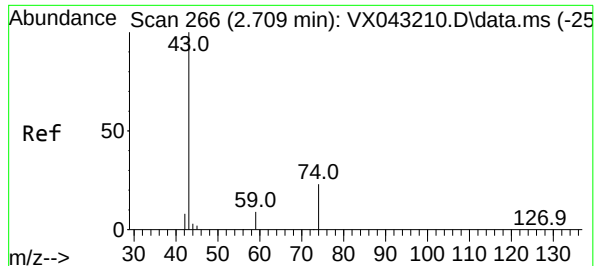
Tgt Ion:168 Resp: 80908
Ion Ratio Lower Upper
168 100
99 65.1 49.7 74.5



#16
Acetone
Concen: 4.326 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX043400.D
Acq: 15 Oct 2024 13:09

Tgt Ion: 43 Resp: 2387
Ion Ratio Lower Upper
43 100
58 27.8 22.6 33.8





#18

Methyl Acetate

Concen: 0.738 ug/l

RT: 2.709 min Scan# 2

Delta R.T. -0.000 min

Lab File: VX043400.D

Acq: 15 Oct 2024 13:09

Instrument :

MSVOA_X

ClientSampleId :

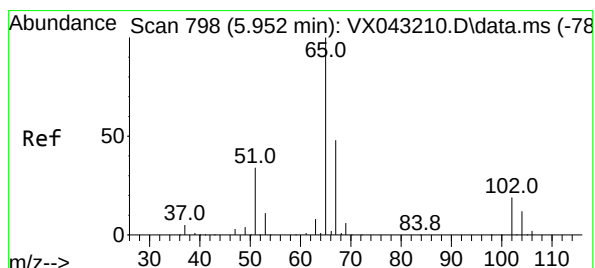
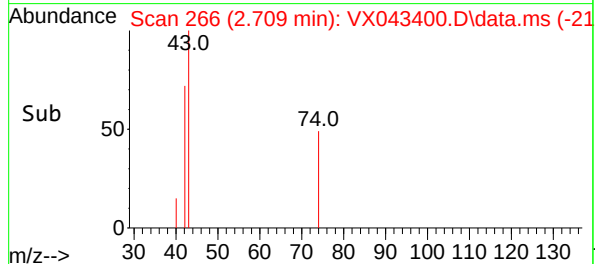
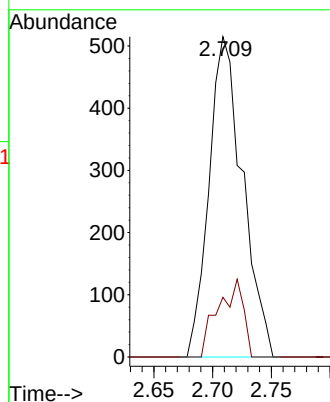
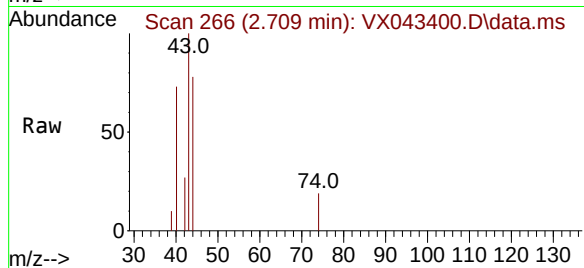
WB-301-SW

Tgt Ion: 43 Resp: 1022

Ion Ratio Lower Upper

43 100

74 18.3 19.1 28.7#



#33

1,2-Dichloroethane-d4

Concen: 50.277 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX043400.D

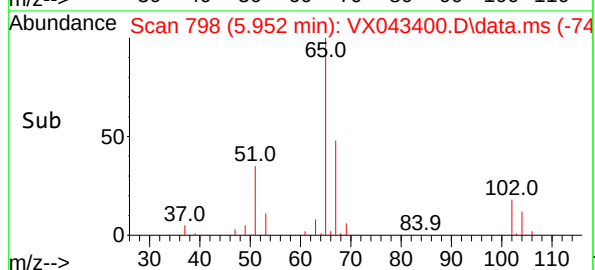
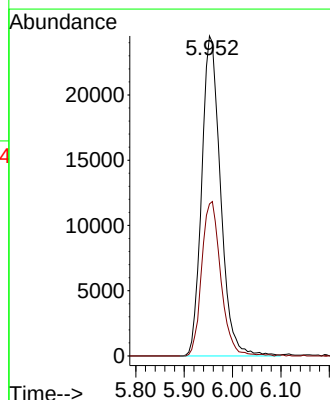
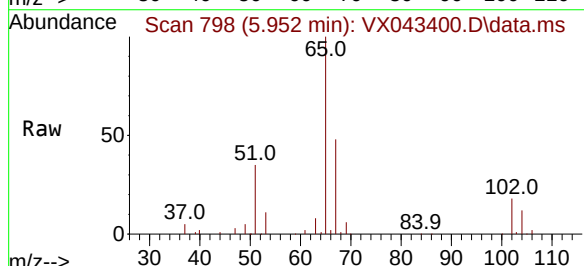
Acq: 15 Oct 2024 13:09

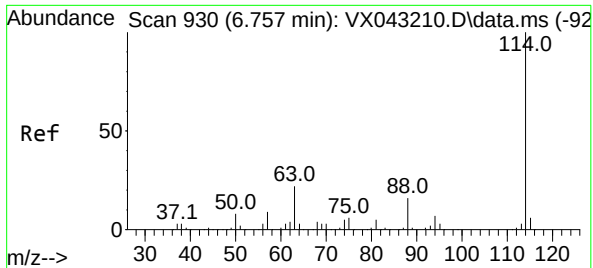
Tgt Ion: 65 Resp: 66434

Ion Ratio Lower Upper

65 100

67 49.0 0.0 99.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. 0.006 min

Lab File: VX043400.D

Acq: 15 Oct 2024 13:09

Instrument :

MSVOA_X

ClientSampleId :

WB-301-SW

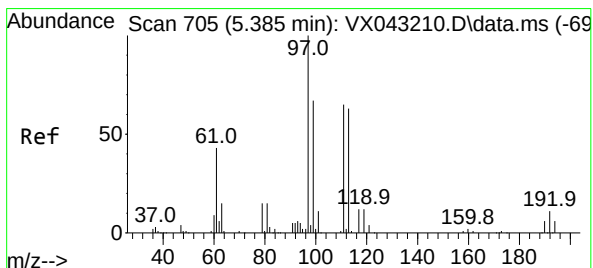
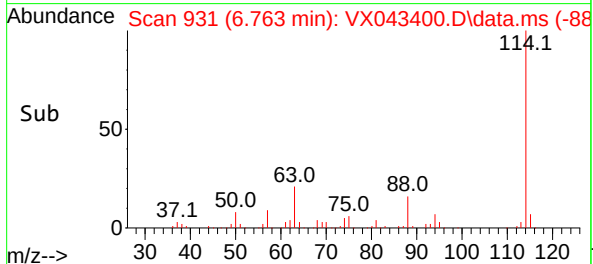
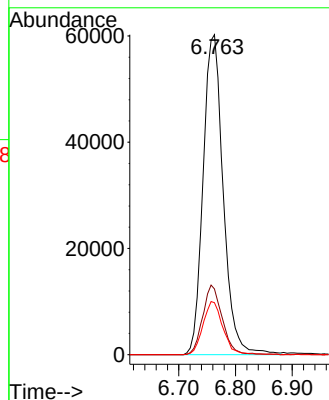
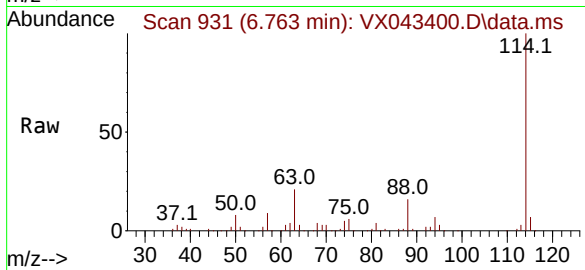
Tgt Ion:114 Resp: 148484

Ion Ratio Lower Upper

114 100

63 20.6 0.0 43.0

88 16.3 0.0 33.0



#35

Dibromofluoromethane

Concen: 47.794 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX043400.D

Acq: 15 Oct 2024 13:09

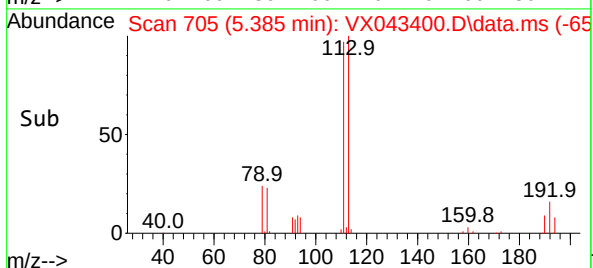
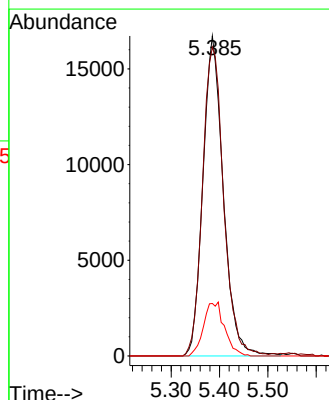
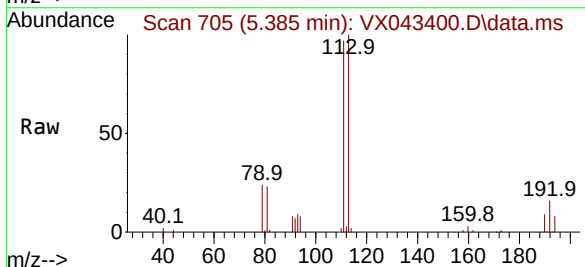
Tgt Ion:113 Resp: 48941

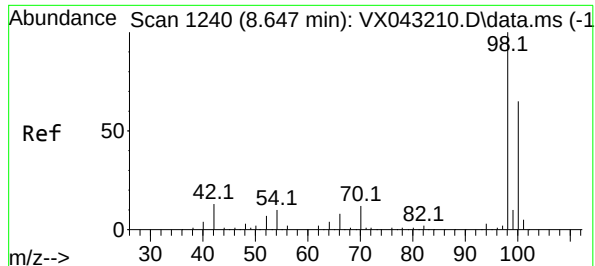
Ion Ratio Lower Upper

113 100

111 100.1 83.4 125.0

192 17.3 14.1 21.1





#50

Toluene-d8

Concen: 49.684 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX043400.D

Acq: 15 Oct 2024 13:09

Instrument :

MSVOA_X

ClientSampleId :

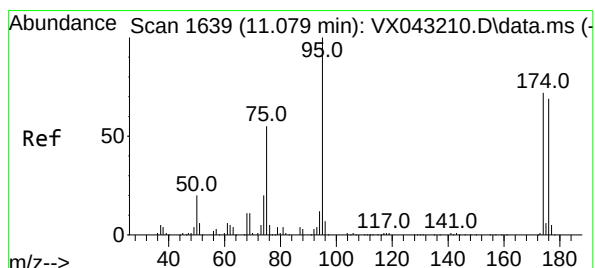
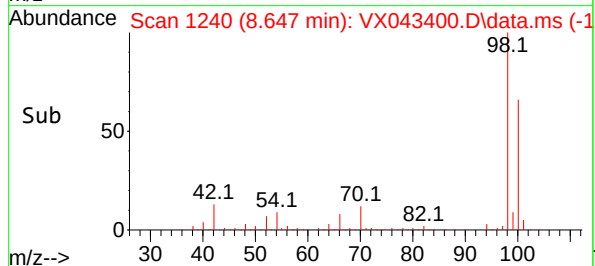
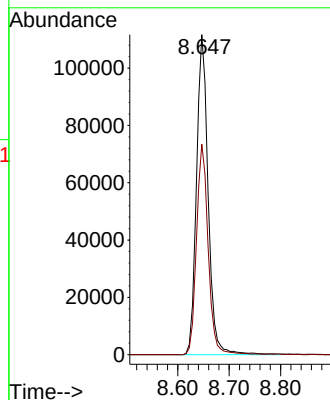
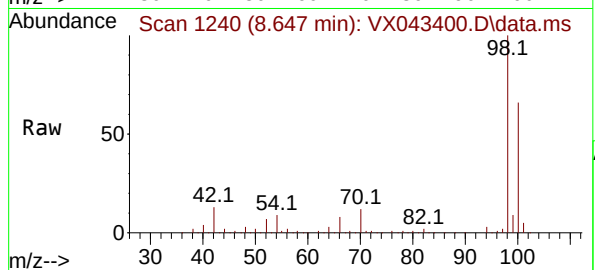
WB-301-SW

Tgt Ion: 98 Resp: 176310

Ion Ratio Lower Upper

98 100

100 65.9 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 47.362 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX043400.D

Acq: 15 Oct 2024 13:09

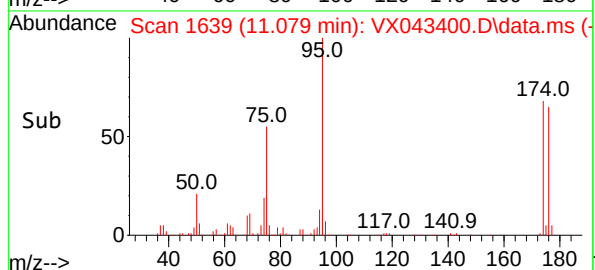
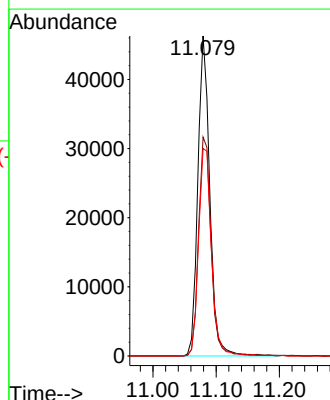
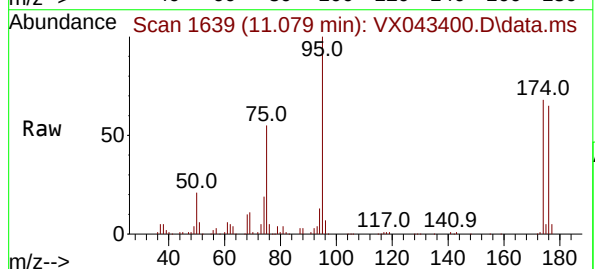
Tgt Ion: 95 Resp: 61059

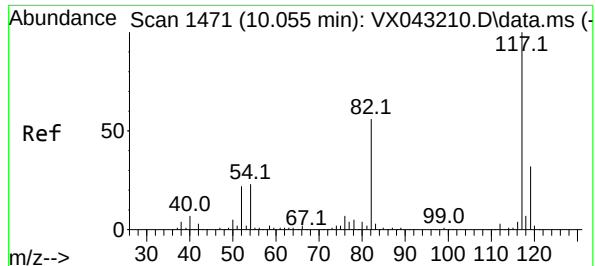
Ion Ratio Lower Upper

95 100

174 71.8 0.0 145.0

176 69.6 0.0 143.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX043400.D

Acq: 15 Oct 2024 13:09

Instrument :

MSVOA_X

ClientSampleId :

WB-301-SW

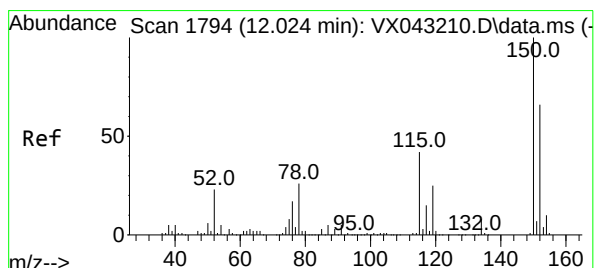
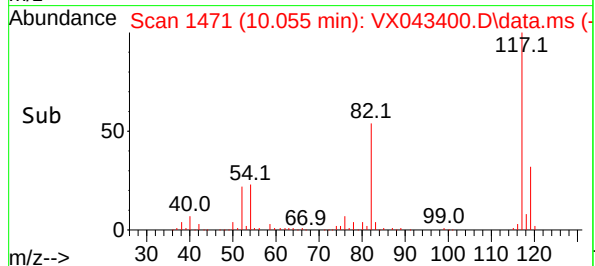
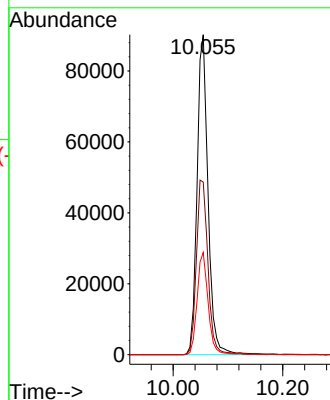
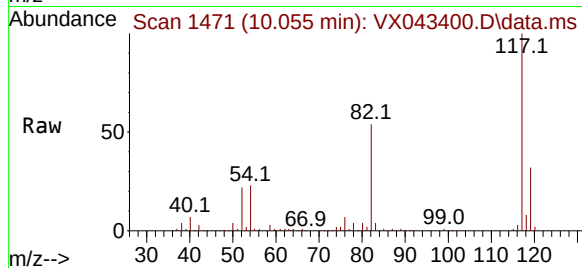
Tgt Ion:117 Resp: 126066

Ion Ratio Lower Upper

117 100

82 54.0 45.0 67.6

119 32.0 25.3 37.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX043400.D

Acq: 15 Oct 2024 13:09

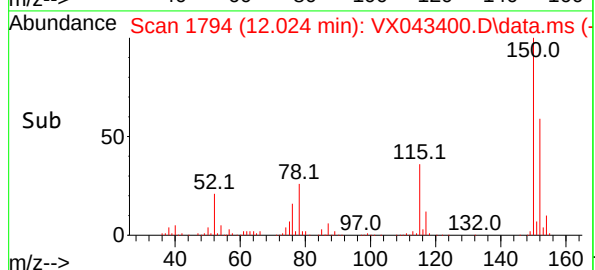
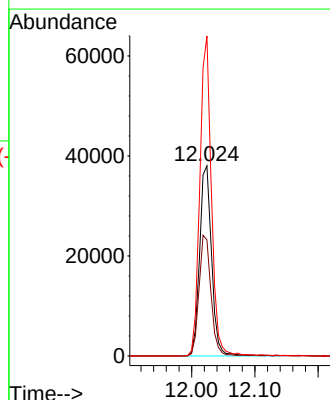
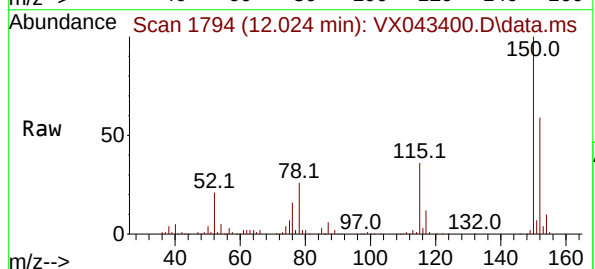
Tgt Ion:152 Resp: 50389

Ion Ratio Lower Upper

152 100

115 63.1 44.1 132.3

150 161.3 0.0 347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043400.D
Acq On : 15 Oct 2024 13:09
Operator : JC/MD
Sample : P4397-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-301-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\82X100124W.M

Title : SW846 8260

Signal : TIC: VX043400.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.385	693	705	721	rBV2	54148	161295	33.94%	6.603%
2	5.550	721	732	748	rVV2	87120	254017	53.45%	10.400%
3	5.952	789	798	814	rBV	64272	172972	36.39%	7.082%
4	6.757	922	930	948	rBV	144499	352973	74.27%	14.451%
5	8.647	1234	1240	1256	rBV	299651	475267	100.00%	19.458%
6	10.055	1465	1471	1490	rBV	280906	407489	85.74%	16.683%
7	11.079	1634	1639	1655	rBV	217962	293207	61.69%	12.004%
8	12.018	1788	1793	1803	rBV	245361	325357	68.46%	13.320%

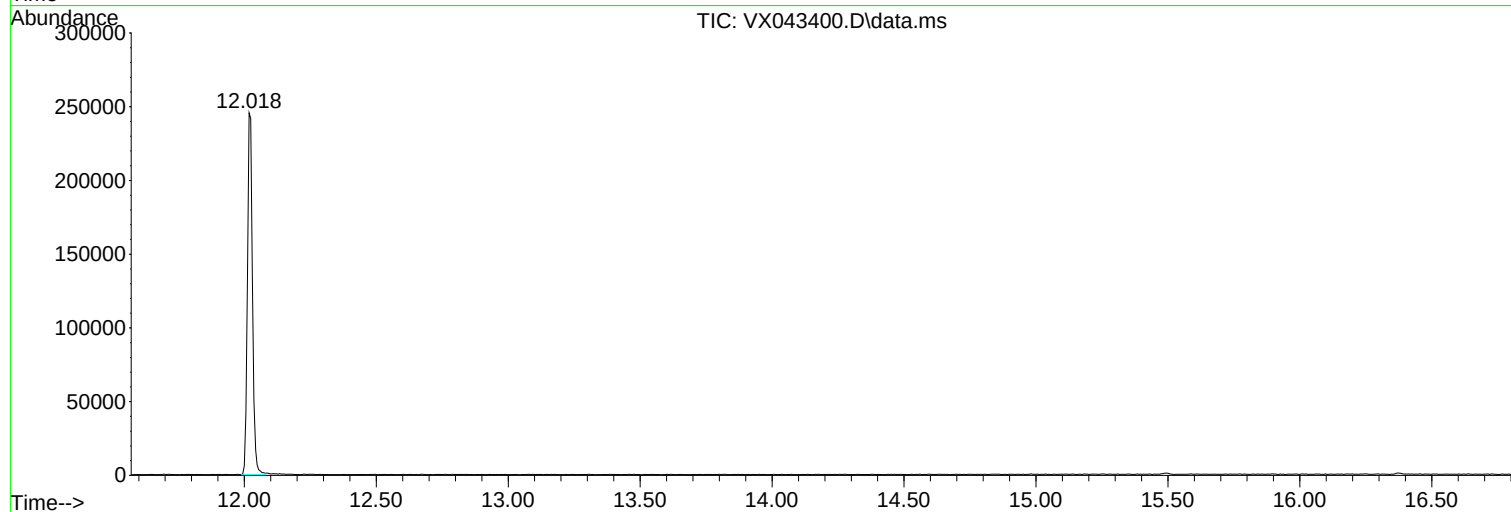
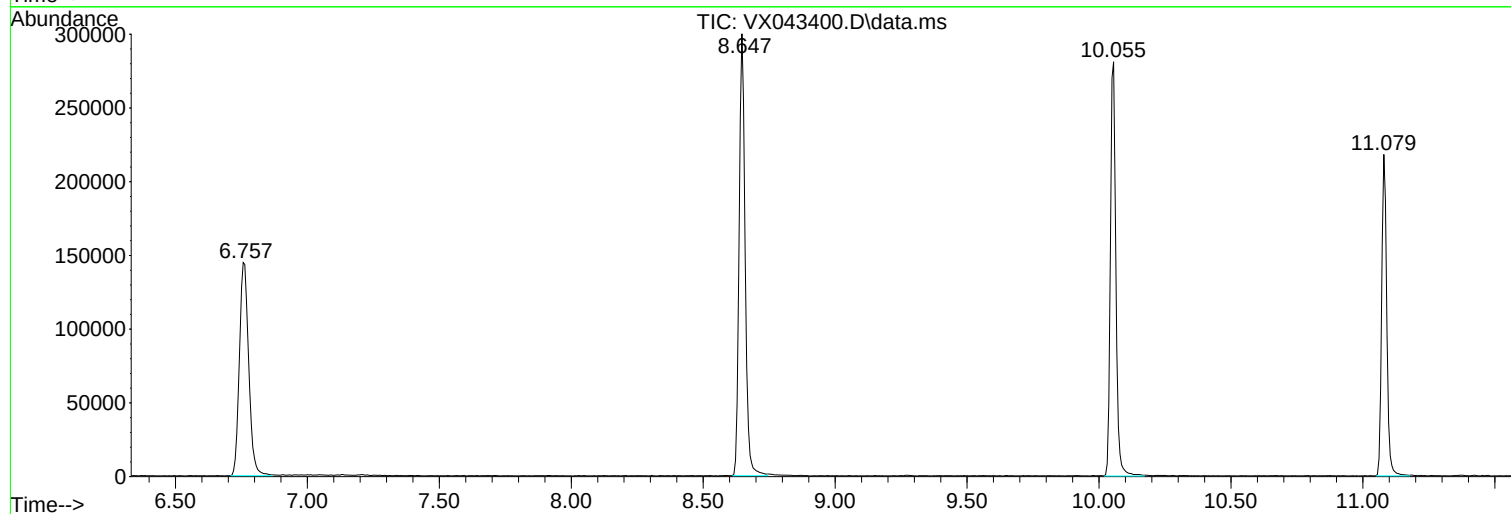
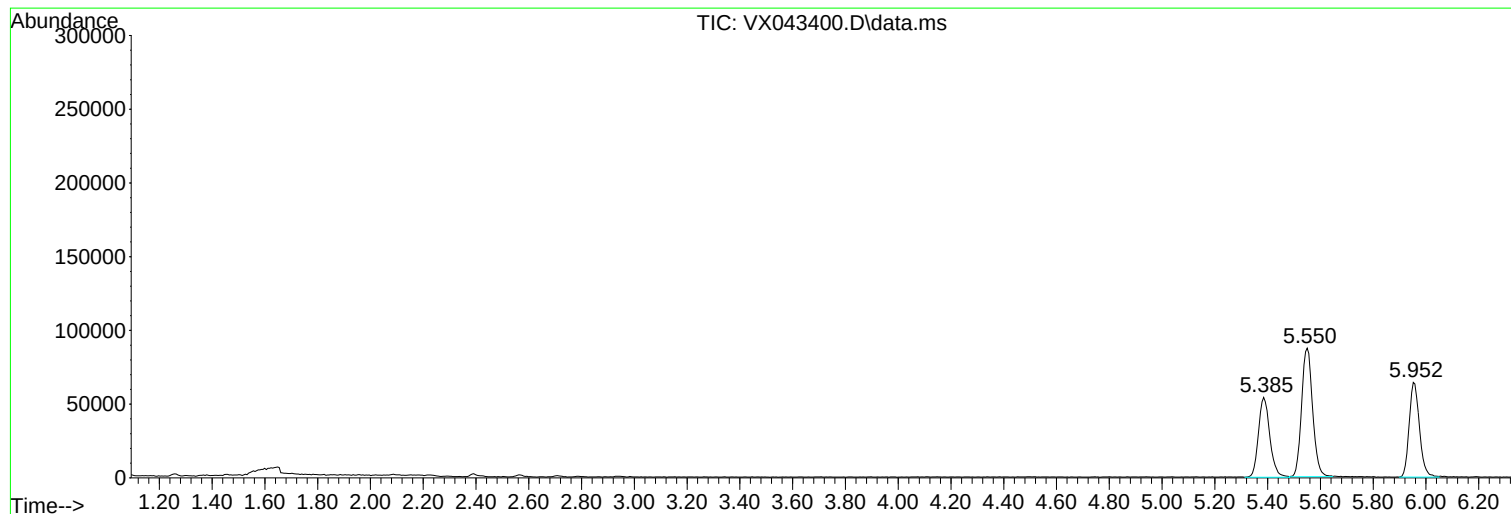
Sum of corrected areas: 2442577

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043400.D
Acq On : 15 Oct 2024 13:09
Operator : JC/MD
Sample : P4397-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-301-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043400.D
Acq On : 15 Oct 2024 13:09
Operator : JC/MD
Sample : P4397-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-301-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.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\VX101524\
Data File : VX043400.D
Acq On : 15 Oct 2024 13:09
Operator : JC/MD
Sample : P4397-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-301-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260

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

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

Client:	Portal Partners Tri-Venture		Date Collected:	10/11/24	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	10/11/24	
Client Sample ID:	TB-10102024		SDG No.:	P4397	
Lab Sample ID:	P4397-05		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
VX043399.D	1		10/15/24 12:46	VX101524

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	1.90	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:	10/11/24	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	10/11/24	
Client Sample ID:	TB-10102024			SDG No.:	P4397	
Lab Sample ID:	P4397-05			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
VX043399.D	1		10/15/24 12:46	VX101524

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	50.5		70 (74) - 130 (125)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	47.3		70 (75) - 130 (124)	95%	SPK: 50
2037-26-5	Toluene-d8	48.9		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		70 (77) - 130 (121)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	87700	5.55			
540-36-3	1,4-Difluorobenzene	161000	6.757			
3114-55-4	Chlorobenzene-d5	135000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	57800	12.024			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/11/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/11/24
Client Sample ID:	TB-10102024	SDG No.:	P4397
Lab Sample ID:	P4397-05	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
VX043399.D	1		10/15/24 12:46	VX101524

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

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043399.D
Acq On : 15 Oct 2024 12:46
Operator : JC/MD
Sample : P4397-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10102024

Quant Time: Oct 16 01:54:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

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

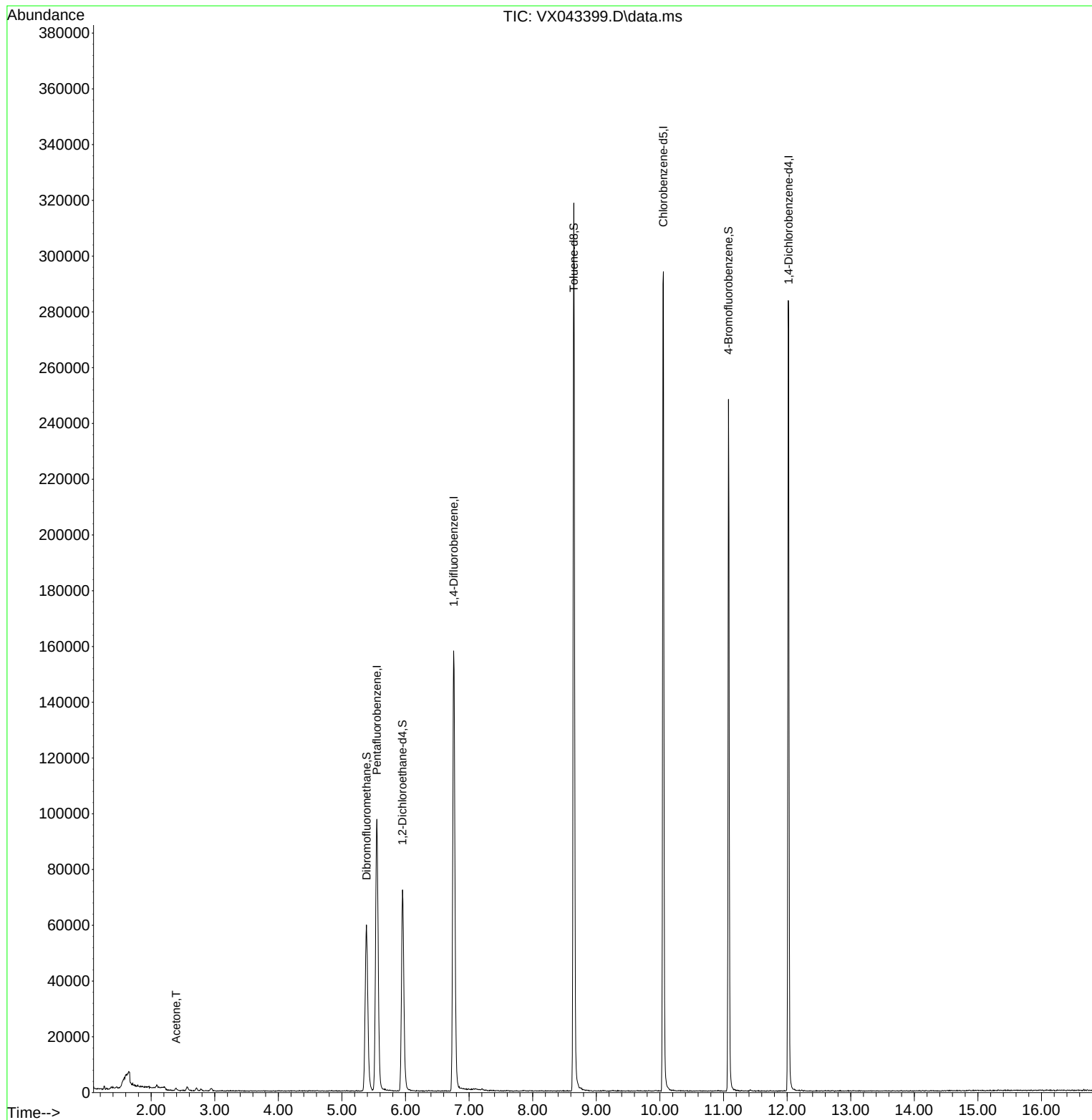
Internal Standards						
1) Pentafluorobenzene	5.550	168	87697	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	161174	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	134772	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	57811	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	72289	50.473	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	100.940%
35) Dibromofluoromethane	5.385	113	52528	47.258	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.520%
50) Toluene-d8	8.647	98	188334	48.893	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.780%
62) 4-Bromofluorobenzene	11.079	95	66490	47.514	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	95.020%
Target Compounds						
16) Acetone	2.392	43	1130	1.889	ug/l	Qvalue # 75

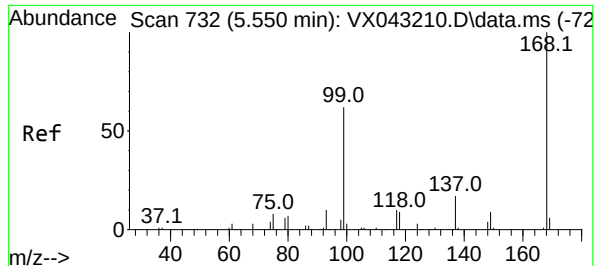
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043399.D
Acq On : 15 Oct 2024 12:46
Operator : JC/MD
Sample : P4397-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10102024

Quant Time: Oct 16 01:54:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 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: VX043399.D

Acq: 15 Oct 2024 12:46

Instrument :

MSVOA_X

ClientSampleId :

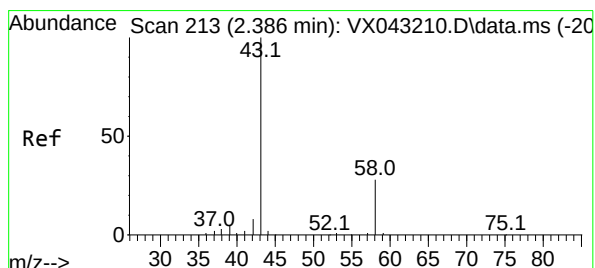
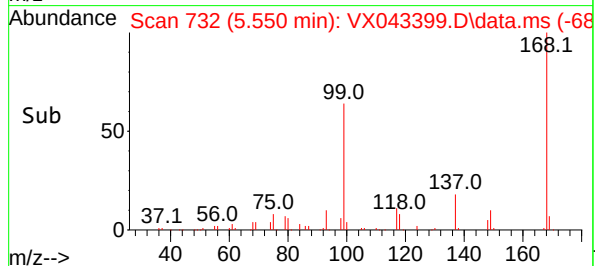
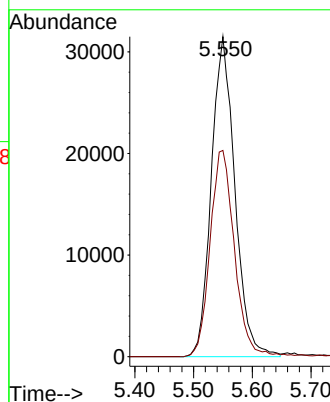
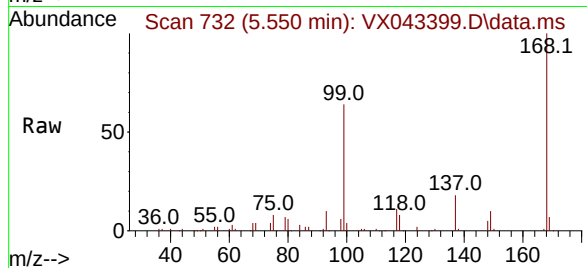
TB-10102024

Tgt Ion:168 Resp: 87697

Ion Ratio Lower Upper

168 100

99 64.4 49.7 74.5



#16

Acetone

Concen: 1.889 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.006 min

Lab File: VX043399.D

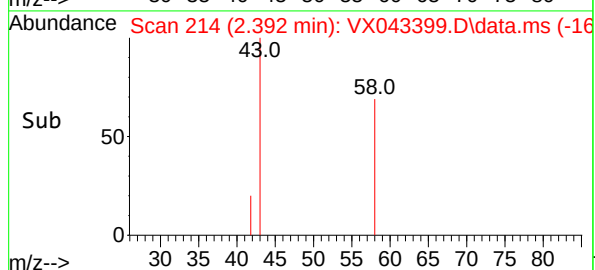
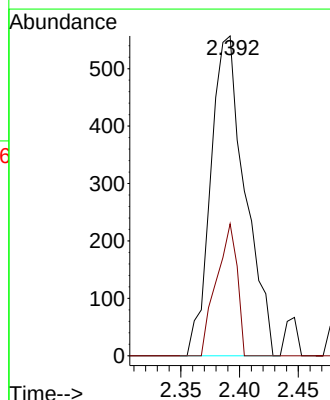
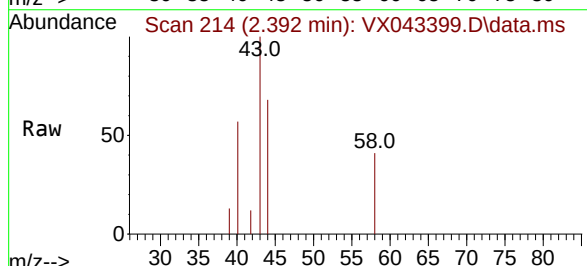
Acq: 15 Oct 2024 12:46

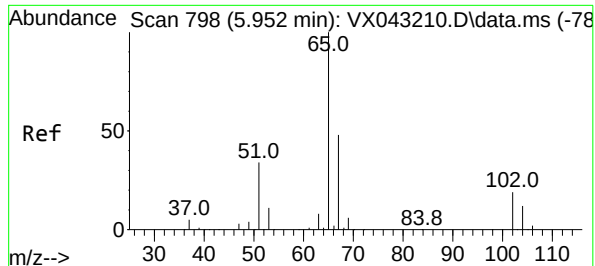
Tgt Ion: 43 Resp: 1130

Ion Ratio Lower Upper

43 100

58 41.3 22.6 33.8#





#33

1,2-Dichloroethane-d4

Concen: 50.473 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX043399.D

Acq: 15 Oct 2024 12:46

Instrument :

MSVOA_X

ClientSampleId :

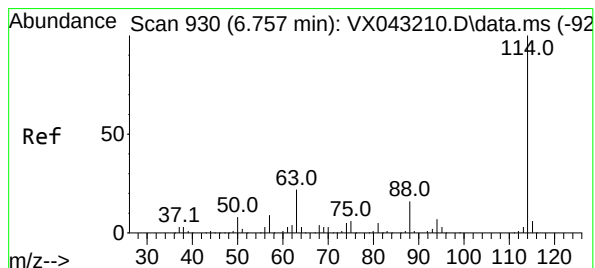
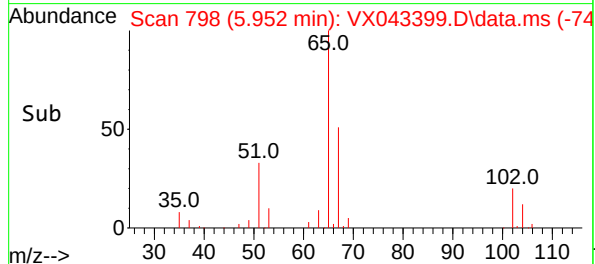
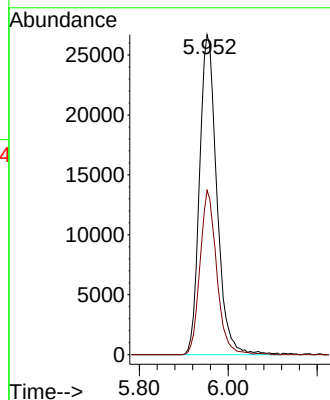
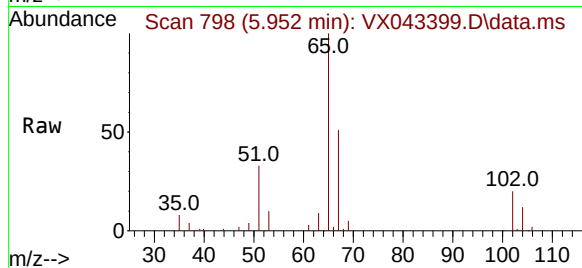
TB-10102024

Tgt Ion: 65 Resp: 72289

Ion Ratio Lower Upper

65 100

67 49.6 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX043399.D

Acq: 15 Oct 2024 12:46

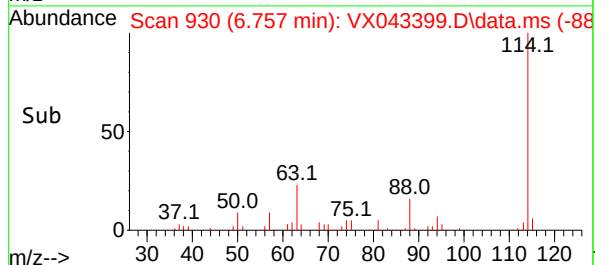
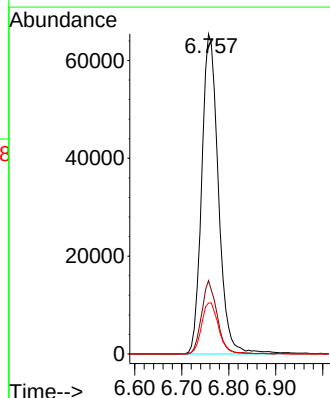
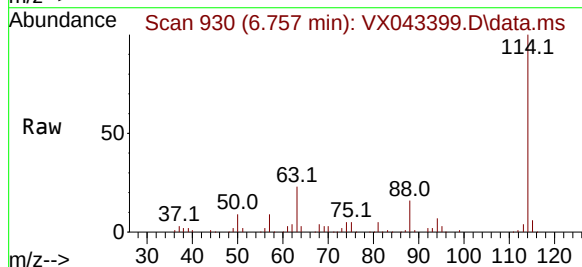
Tgt Ion: 114 Resp: 161174

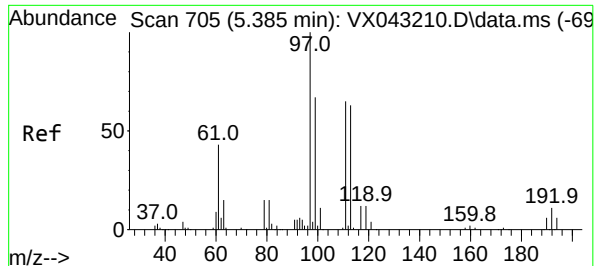
Ion Ratio Lower Upper

114 100

63 22.9 0.0 43.0

88 15.9 0.0 33.0





#35

Dibromofluoromethane

Concen: 47.258 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX043399.D

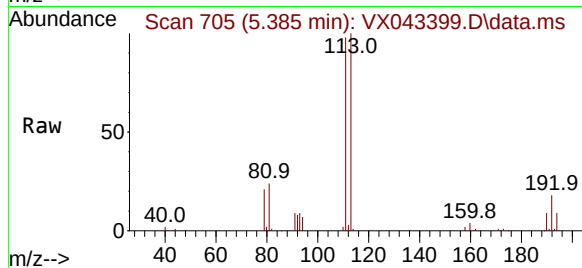
Acq: 15 Oct 2024 12:46

Instrument :

MSVOA_X

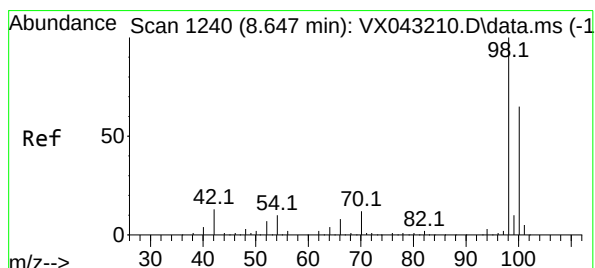
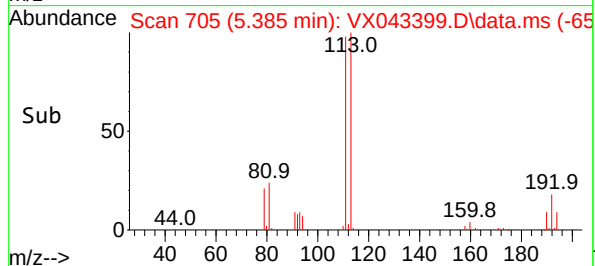
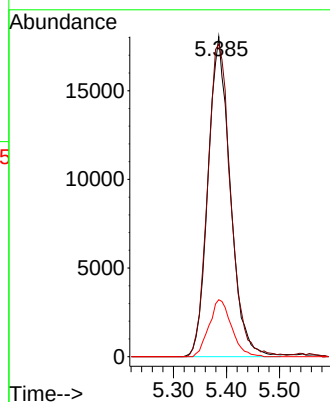
ClientSampleId :

TB-10102024



Tgt Ion:113 Resp: 52528

Ion	Ratio	Lower	Upper
113	100		
111	101.7	83.4	125.0
192	18.0	14.1	21.1



#50

Toluene-d8

Concen: 48.893 ug/l

RT: 8.647 min Scan# 1240

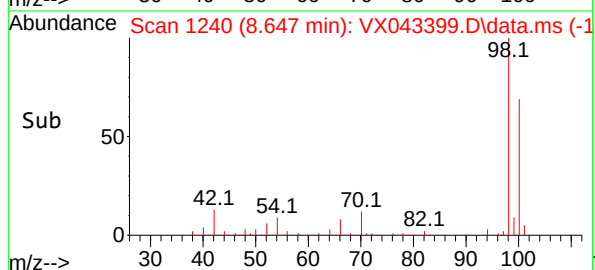
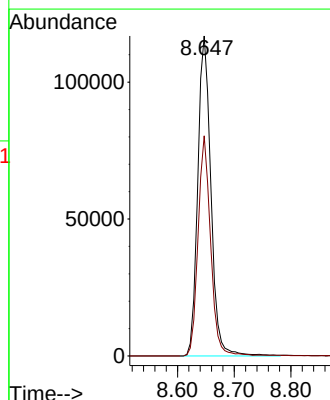
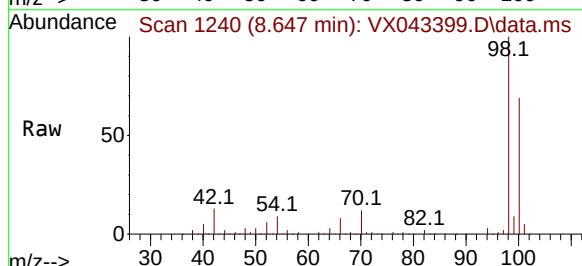
Delta R.T. 0.000 min

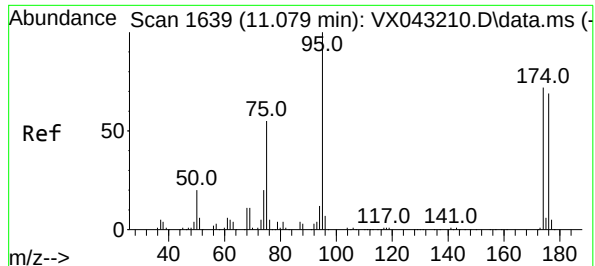
Lab File: VX043399.D

Acq: 15 Oct 2024 12:46

Tgt Ion: 98 Resp: 188334

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.4	78.6

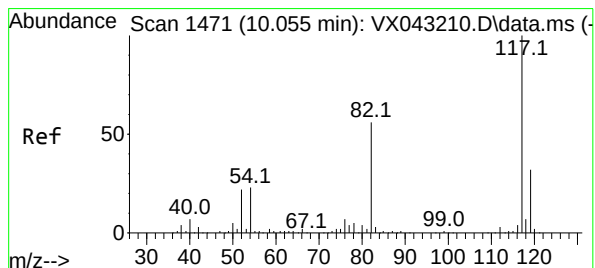
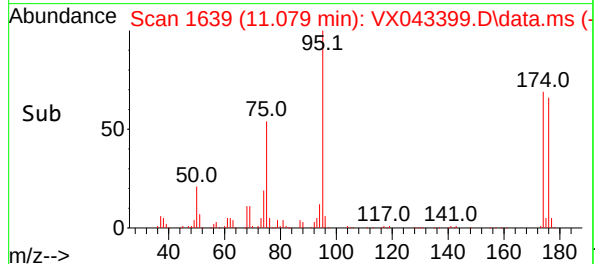
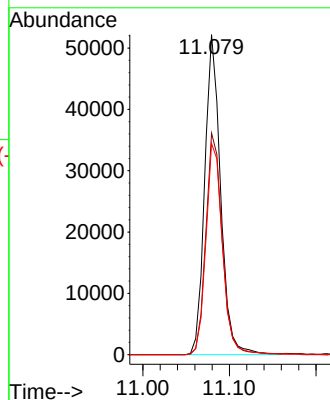
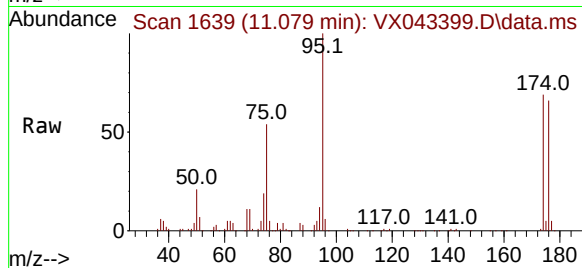




#62
4-Bromofluorobenzene
Concen: 47.514 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX043399.D
Acq: 15 Oct 2024 12:46

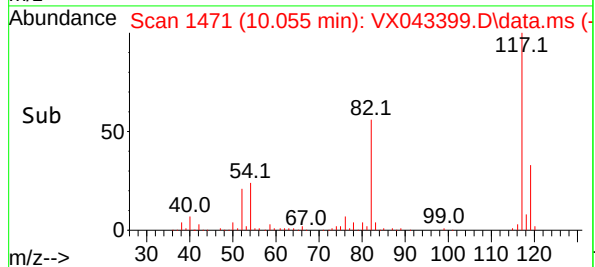
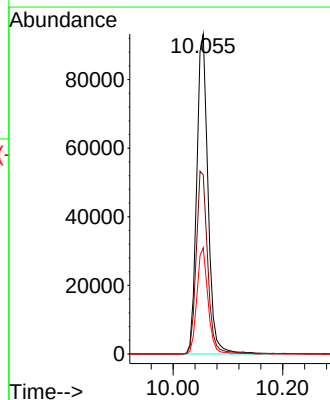
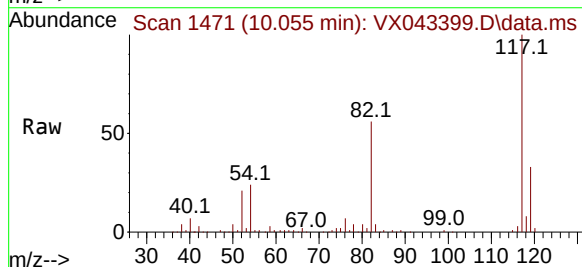
Instrument :
MSVOA_X
ClientSampleId :
TB-10102024

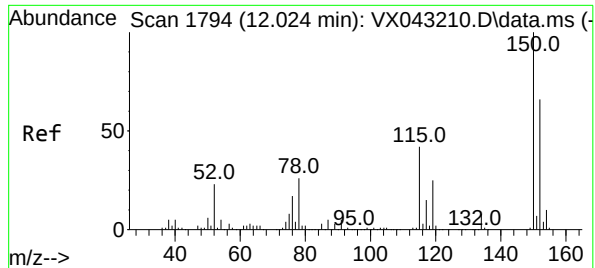
Tgt Ion: 95 Resp: 66490
Ion Ratio Lower Upper
95 100
174 71.6 0.0 145.0
176 69.0 0.0 143.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX043399.D
Acq: 15 Oct 2024 12:46

Tgt Ion: 117 Resp: 134772
Ion Ratio Lower Upper
117 100
82 56.0 45.0 67.6
119 33.2 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX043399.D

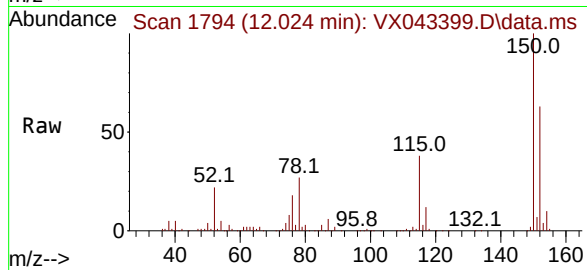
Acq: 15 Oct 2024 12:46

Instrument :

MSVOA_X

ClientSampleId :

TB-10102024



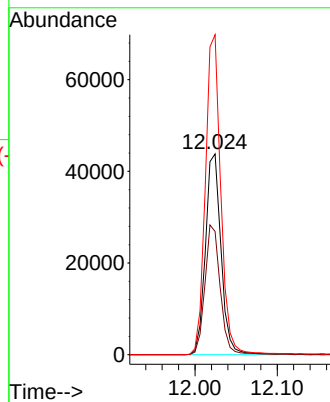
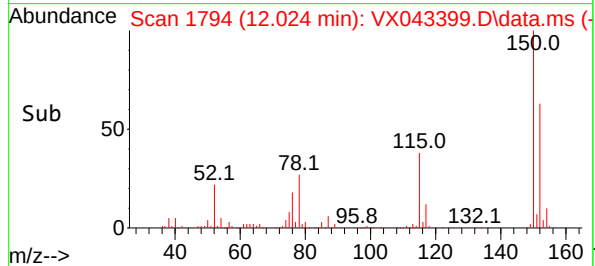
Tgt Ion:152 Resp: 57811

Ion Ratio Lower Upper

152 100

115 63.4 44.1 132.3

150 158.4 0.0 347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043399.D
Acq On : 15 Oct 2024 12:46
Operator : JC/MD
Sample : P4397-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10102024

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\82X100124W.M

Title : SW846 8260

Signal : TIC: VX043399.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.581	69	81	82	rBV4	3794	10228	2.01%	0.384%
2	5.385	694	705	720	rBV2	59512	174133	34.28%	6.544%
3	5.550	720	732	748	rBV	97239	275571	54.24%	10.356%
4	5.952	787	798	815	rBV	72201	189078	37.22%	7.106%
5	6.757	921	930	943	rBV	157963	382148	75.22%	14.361%
6	8.647	1233	1240	1254	rBV	318544	508037	100.00%	19.092%
7	10.055	1465	1471	1487	rBV	294012	431975	85.03%	16.234%
8	11.079	1634	1639	1652	rBV	248041	319848	62.96%	12.020%
9	12.018	1788	1793	1807	rBV	283451	369953	72.82%	13.903%

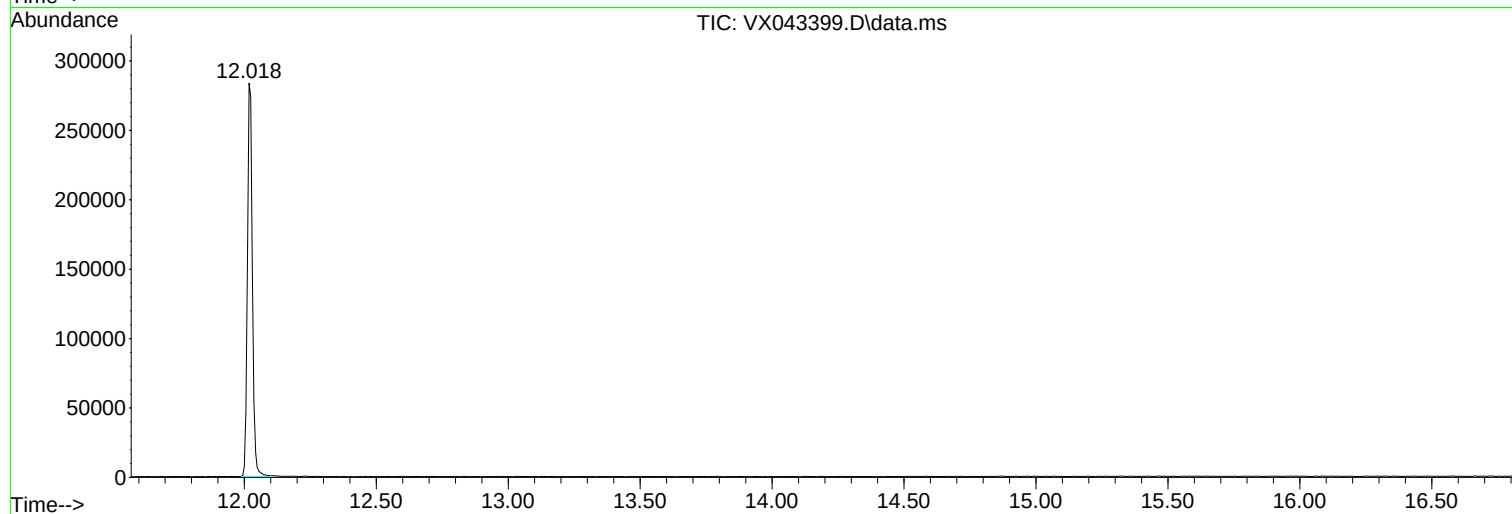
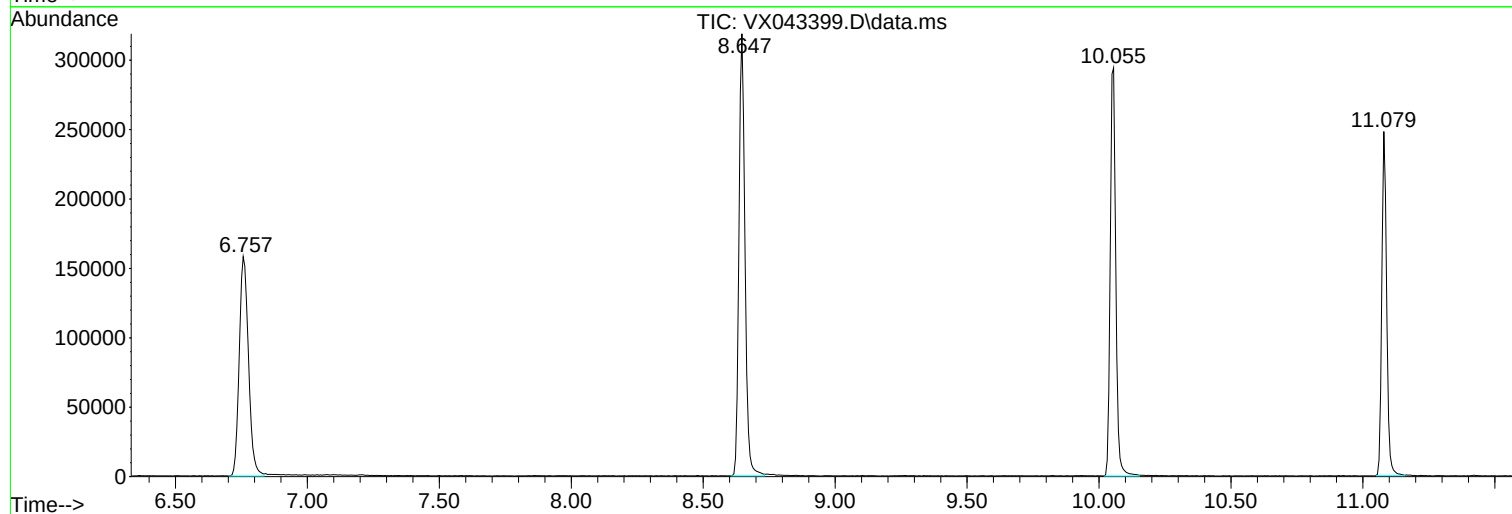
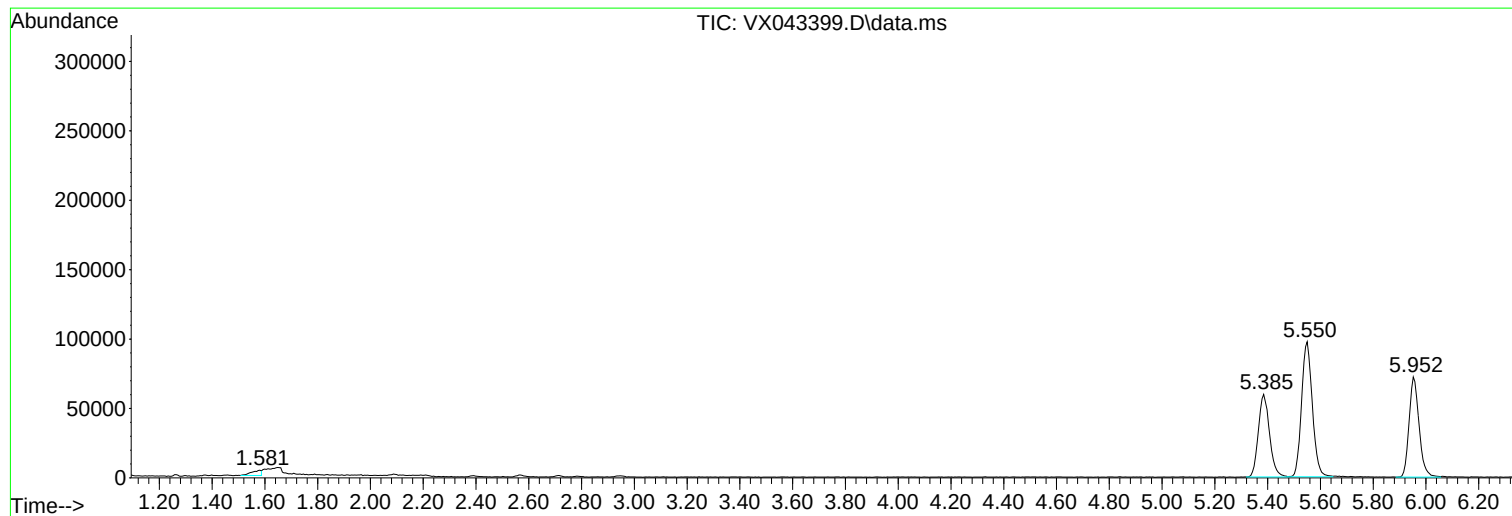
Sum of corrected areas: 2660971

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043399.D
Acq On : 15 Oct 2024 12:46
Operator : JC/MD
Sample : P4397-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10102024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043399.D
Acq On : 15 Oct 2024 12:46
Operator : JC/MD
Sample : P4397-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10102024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.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\VX101524\
Data File : VX043399.D
Acq On : 15 Oct 2024 12:46
Operator : JC/MD
Sample : P4397-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-10102024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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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.: P4397 SAS No.: P4397 SDG No.: P4397
 Instrument ID: MSVOA_X Calibration Date(s): 10/01/2024 10/01/2024
 Heated Purge: (Y/N) N Calibration Time(s): 11:36 13:31
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX043207.D		RRF005 = VX043208.D		RRF020 = VX043209.D			
		RRF050 = VX043210.D		RRF100 = VX043211.D		RRF150 = VX043212.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.558	0.532	0.539	0.599	0.608	0.654	0.582	8.1	
Chloromethane	0.673	0.565	0.559	0.601	0.567	0.629	0.599	7.5	
Vinyl Chloride	0.564	0.582	0.580	0.603	0.607	0.664	0.600	5.9	
Bromomethane		0.247	0.219	0.239	0.245	0.275	0.245	8.2	
Chloroethane	0.277	0.207	0.207	0.225	0.209	0.215	0.223	12.1	
Trichlorofluoromethane	0.969	0.869	0.860	0.869	0.864	0.948	0.896	5.4	
1,1,2-Trichlorotrifluoroethane	0.531	0.536	0.534	0.559	0.584	0.612	0.559	5.9	
1,1-Dichloroethene	0.579	0.529	0.525	0.549	0.548	0.604	0.556	5.5	
Acetone	0.414	0.361	0.337	0.317	0.303	0.314	0.341	12	
Carbon Disulfide	1.388	1.238	1.288	1.321	1.361	1.512	1.351	7	
Methyl tert-butyl Ether	1.862	1.948	1.944	1.993	2.016	2.162	1.987	5	
Methyl Acetate	0.890	0.787	0.739	0.891	0.881	0.945	0.855	8.9	
Methylene Chloride	0.676	0.629	0.599	0.612	0.604	0.652	0.629	4.8	
trans-1,2-Dichloroethene	0.514	0.537	0.545	0.550	0.563	0.608	0.553	5.7	
1,1-Dichloroethane	0.962	1.057	1.056	1.073	1.102	1.166	1.069	6.2	
Cyclohexane		0.873	0.880	0.860	0.875	0.917	0.881	2.4	
2-Butanone	0.459	0.480	0.466	0.471	0.452	0.478	0.468	2.3	
Carbon Tetrachloride	0.474	0.491	0.505	0.527	0.531	0.566	0.516	6.3	
cis-1,2-Dichloroethene	0.654	0.682	0.674	0.683	0.695	0.750	0.690	4.7	
Bromochloromethane	0.504	0.474	0.348	0.404	0.381	0.420	0.422	13.8	
Chloroform	1.171	1.174	1.148	1.151	1.161	1.242	1.174	2.9	
1,1,1-Trichloroethane	1.020	1.050	1.046	1.083	1.100	1.173	1.079	5	
Methylcyclohexane	0.502	0.525	0.552	0.550	0.569	0.590	0.548	5.7	
Benzene	1.289	1.310	1.314	1.314	1.308	1.389	1.321	2.6	
1,2-Dichloroethane	0.516	0.523	0.539	0.545	0.536	0.569	0.538	3.5	
Trichloroethene	0.370	0.322	0.345	0.342	0.348	0.375	0.350	5.6	
1,2-Dichloropropane	0.306	0.319	0.322	0.328	0.324	0.346	0.324	4.1	
Bromodichloromethane	0.462	0.477	0.499	0.527	0.528	0.570	0.511	7.7	
4-Methyl-2-Pentanone	0.514	0.520	0.522	0.543	0.514	0.537	0.525	2.3	
Toluene	0.798	0.819	0.829	0.845	0.811	0.865	0.828	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.



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.: P4397 SAS No.: P4397 SDG No.: P4397
 Instrument ID: MSVOA_X Calibration Date(s): 10/01/2024 10/01/2024
 Heated Purge: (Y/N) N Calibration Time(s): 11:36 13:31
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX043207.D		RRF005 = VX043208.D		RRF020 = VX043209.D			
		RRF050 = VX043210.D		RRF100 = VX043211.D		RRF150 = VX043212.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.431	0.459	0.496	0.542	0.535	0.581	0.507	11	
cis-1,3-Dichloropropene	0.499	0.518	0.529	0.560	0.556	0.603	0.544	6.8	
1,1,2-Trichloroethane	0.316	0.329	0.328	0.340	0.320	0.341	0.329	3.1	
2-Hexanone	0.373	0.390	0.397	0.413	0.396	0.412	0.397	3.8	
Dibromochloromethane	0.343	0.348	0.369	0.407	0.394	0.430	0.382	9	
1,2-Dibromoethane	0.354	0.331	0.353	0.364	0.346	0.372	0.353	4	
Tetrachloroethene	0.335	0.343	0.345	0.343	0.345	0.371	0.347	3.5	
Chlorobenzene	1.110	1.030	1.033	1.058	1.065	1.154	1.075	4.5	
Ethyl Benzene	1.795	1.770	1.816	1.887	1.857	2.023	1.858	4.9	
m/p-Xylenes	0.698	0.683	0.682	0.704	0.692	0.755	0.702	3.9	
o-Xylene	0.704	0.689	0.668	0.693	0.685	0.747	0.698	3.9	
Styrene	1.016	1.067	1.111	1.165	1.164	1.262	1.131	7.6	
Bromoform	0.236	0.244	0.280	0.305	0.323	0.358	0.291	16.2	
Isopropylbenzene	3.742	3.936	3.886	3.910	3.776	4.075	3.887	3.1	
1,1,2,2-Tetrachloroethane	1.243	1.295	1.243	1.248	1.238	1.332	1.266	3	
1,3-Dichlorobenzene	1.609	1.634	1.642	1.629	1.666	1.819	1.666	4.6	
1,4-Dichlorobenzene	1.848	1.672	1.662	1.639	1.665	1.823	1.718	5.4	
1,2-Dichlorobenzene	1.774	1.720	1.690	1.650	1.636	1.755	1.704	3.3	
1,2-Dibromo-3-Chloropropane	0.290	0.281	0.298	0.312	0.324	0.351	0.309	8.3	
1,2,4-Trichlorobenzene	0.865	0.837	0.944	1.001	1.058	1.190	0.983	13.3	
1,2,3-Trichlorobenzene	0.957	0.918	0.957	1.016	1.056	1.179	1.014	9.3	
1,2-Dichloroethane-d4		0.802	0.779	0.814	0.788	0.900	0.817	5.9	
Dibromofluoromethane		0.331	0.329	0.340	0.339	0.384	0.345	6.5	
Toluene-d8		1.148	1.165	1.217	1.147	1.298	1.195	5.4	
4-Bromofluorobenzene		0.404	0.413	0.453	0.421	0.480	0.434	7.3	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X100124W.M
 Title : SW846 8260
 Last Update : Wed Oct 02 16:50:57 2024
 Response Via : Initial Calibration

Calibration Files

1 =VX043207.D 5 =VX043208.D 20 =VX043209.D 50 =VX043210.D 100 =VX043211.D 150 =VX043212.D

D

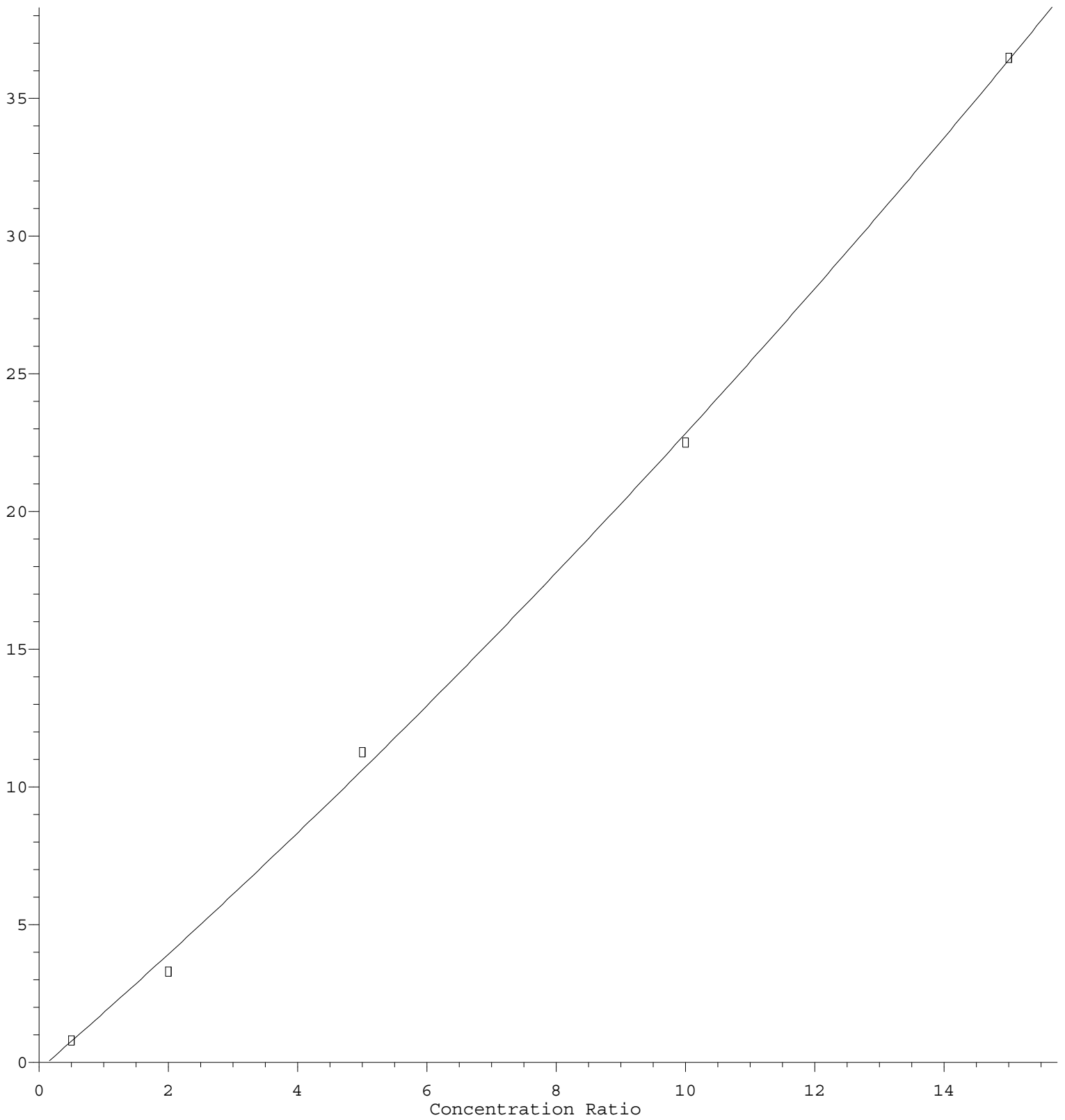
	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.558	0.532	0.539	0.599	0.608	0.654	0.582	8.11
3) P	Chloromethane	0.673	0.565	0.559	0.601	0.567	0.629	0.599	7.50
4) C	Vinyl Chloride	0.564	0.582	0.580	0.603	0.607	0.664	0.600	5.86#
5) T	Bromomethane		0.247	0.219	0.239	0.245	0.275	0.245	8.18
6) T	Chloroethane	0.277	0.207	0.207	0.225	0.209	0.215	0.223	12.08
7) T	Trichlorofluor...	0.969	0.869	0.860	0.869	0.864	0.948	0.896	5.40
8) T	Diethyl Ether	0.347	0.341	0.334	0.344	0.350	0.377	0.349	4.31
9) T	1,1,2-Trichlor...	0.531	0.536	0.534	0.559	0.584	0.612	0.559	5.89
10) T	Methyl Iodide		0.645	0.683	0.719	0.726	0.740	0.703	5.51
11) T	Tert butyl alc...		0.139	0.151	0.160	0.157	0.171	0.155	7.54
12) CM	1,1-Dichloroet...	0.579	0.529	0.525	0.549	0.548	0.604	0.556	5.48#
13) T	Acrolein		0.147	0.129	0.147	0.148	0.164	0.147	8.39
14) T	Allyl chloride	0.996	0.889	0.898	0.913	0.862	0.919	0.913	4.98
15) T	Acrylonitrile	0.323	0.312	0.308	0.320	0.311	0.331	0.317	2.76
16) T	Acetone	0.414	0.361	0.337	0.317	0.303	0.314	0.341	12.05
17) T	Carbon Disulfide	1.388	1.238	1.288	1.321	1.361	1.512	1.351	7.01
18) T	Methyl Acetate	0.890	0.787	0.739	0.891	0.881	0.945	0.855	8.94
19) T	Methyl tert-bu...	1.862	1.948	1.944	1.993	2.016	2.162	1.987	5.05
20) T	Methylene Chlo...	0.676	0.629	0.599	0.612	0.604	0.652	0.629	4.77
21) T	trans-1,2-Dich...	0.514	0.537	0.545	0.550	0.563	0.608	0.553	5.68
22) T	Diisopropyl ether	1.773	1.801	1.795	1.837	1.822	1.987	1.836	4.21
23) T	Vinyl Acetate	1.464	1.593	1.648	2.252	2.250	2.431	1.940	21.48
24) P	1,1-Dichloroet...	0.962	1.057	1.056	1.073	1.102	1.166	1.069	6.25
25) T	2-Butanone	0.459	0.480	0.466	0.471	0.452	0.478	0.468	2.31
26) T	2,2-Dichloropr...	1.017	0.990	0.983	1.009	1.024	1.082	1.018	3.47
27) T	cis-1,2-Dichlo...	0.654	0.682	0.674	0.683	0.695	0.750	0.690	4.71
28) T	Bromochloromet...	0.504	0.474	0.348	0.404	0.381	0.420	0.422	13.77
29) T	Tetrahydrofuran	0.321	0.297	0.285	0.292	0.286	0.306	0.298	4.58
30) C	Chloroform	1.171	1.174	1.148	1.151	1.161	1.242	1.174	2.94#
31) T	Cyclohexane		0.873	0.880	0.860	0.875	0.917	0.881	2.45
32) T	1,1,1-Trichlor...	1.020	1.050	1.046	1.083	1.100	1.173	1.079	5.03
33) S	1,2-Dichloroet...		0.802	0.779	0.814	0.788	0.900	0.817	5.92
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.331	0.329	0.340	0.339	0.384	0.345	6.51
36) T	1,1-Dichloropr...	0.431	0.425	0.422	0.433	0.438	0.464	0.436	3.49
37) T	Ethyl Acetate	0.524	0.513	0.521	0.520	0.516	0.544	0.523	2.12
38) T	Carbon Tetrach...	0.474	0.491	0.505	0.527	0.531	0.566	0.516	6.30
39) T	Methylcyclohexane	0.502	0.525	0.552	0.550	0.569	0.590	0.548	5.74
40) TM	Benzene	1.289	1.310	1.314	1.314	1.308	1.389	1.321	2.64
41) T	Methacrylonitrile	0.248	0.260	0.264	0.289	0.278	0.295	0.272	6.67
42) TM	1,2-Dichloroet...	0.516	0.523	0.539	0.545	0.536	0.569	0.538	3.45
43) T	Isopropyl Acetate	0.812	0.844	0.844	0.890	0.865	0.929	0.864	4.76
44) TM	Trichloroethene	0.370	0.322	0.345	0.342	0.348	0.375	0.350	5.58
45) C	1,2-Dichloropr...	0.306	0.319	0.322	0.328	0.324	0.346	0.324	4.06#
46) T	Dibromomethane	0.237	0.257	0.255	0.263	0.262	0.285	0.260	5.95
47) T	Bromodichlorom...	0.462	0.477	0.499	0.527	0.528	0.570	0.511	7.71
48) T	Methyl methacr...	0.431	0.406	0.401	0.435	0.421	0.451	0.424	4.44
49) T	1,4-Dioxane	0.007	0.008	0.008	0.009	0.009	0.009	0.008	9.31
50) S	Toluene-d8		1.148	1.165	1.217	1.147	1.298	1.195	5.39
51) T	4-Methyl-2-Pen...	0.514	0.520	0.522	0.543	0.514	0.537	0.525	2.32
52) CM	Toluene	0.798	0.819	0.829	0.845	0.811	0.865	0.828	2.91#
53) T	t-1,3-Dichloro...	0.431	0.459	0.496	0.542	0.535	0.581	0.507	11.03
54) T	cis-1,3-Dichlo...	0.499	0.518	0.529	0.560	0.556	0.603	0.544	6.77
55) T	1,1,2-Trichlor...	0.316	0.329	0.328	0.340	0.320	0.341	0.329	3.12

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\										
Method File : 82X100124W.M										
56)	T	Ethyl methacry...	0.443	0.503	0.543	0.581	0.561	0.596	0.538	10.53
57)	T	1,3-Dichloropr...	0.516	0.585	0.560	0.578	0.546	0.577	0.560	4.62
58)	T	2-Chloroethyl ...	0.190	0.245	0.236	0.265	0.253	0.266	0.242	11.66
59)	T	2-Hexanone	0.373	0.390	0.397	0.413	0.396	0.412	0.397	3.77
60)	T	Dibromochlorom...	0.343	0.348	0.369	0.407	0.394	0.430	0.382	8.98
61)	T	1,2-Dibromoethane	0.354	0.331	0.353	0.364	0.346	0.372	0.353	4.02
62)	S	4-Bromofluorob...	0.404	0.413	0.453	0.421	0.480	0.434		7.29
-----ISTD-----										
63)	I	Chlorobenzene-d5								
64)	T	Tetrachloroethene	0.335	0.343	0.345	0.343	0.345	0.371	0.347	3.52
65)	PM	Chlorobenzene	1.110	1.030	1.033	1.058	1.065	1.154	1.075	4.48
66)	T	1,1,1,2-Tetrac...	0.337	0.373	0.363	0.389	0.390	0.428	0.380	8.07
67)	C	Ethyl Benzene	1.795	1.770	1.816	1.887	1.857	2.023	1.858	4.90#
68)	T	m/p-Xylenes	0.698	0.683	0.682	0.704	0.692	0.755	0.702	3.87
69)	T	o-Xylene	0.704	0.689	0.668	0.693	0.685	0.747	0.698	3.85
70)	T	Styrene	1.016	1.067	1.111	1.165	1.164	1.262	1.131	7.63
71)	P	Bromoform	0.236	0.244	0.280	0.305	0.323	0.358	0.291	16.21
-----ISTD-----										
72)	I	1,4-Dichlorobenzen...								
73)	T	Isopropylbenzene	3.742	3.936	3.886	3.910	3.776	4.075	3.887	3.08
74)	T	N-amyl acetate	1.709	1.798	1.820	1.841	1.869	2.035	1.845	5.83
75)	P	1,1,2,2-Tetrac...	1.243	1.295	1.243	1.248	1.238	1.332	1.266	3.04
76)	T	1,2,3-Trichlor...	1.099	1.219	1.091	1.071	1.053	1.121	1.109	5.27
77)	T	Bromobenzene	1.004	0.922	0.927	0.928	0.901	0.994	0.946	4.47
78)	T	n-propylbenzene	4.033	4.036	4.228	4.392	4.253	4.663	4.268	5.57
79)	T	2-Chlorotoluene	2.879	2.828	2.661	2.668	2.608	2.818	2.744	4.05
80)	T	1,3,5-Trimethy...	3.167	3.136	3.266	3.183	3.116	3.371	3.207	2.99
81)	T	trans-1,4-Dich...	0.379	0.397	0.419	0.451	0.493	0.428		10.63
82)	T	4-Chlorotoluene	3.213	3.120	3.050	3.075	3.003	3.291	3.125	3.45
83)	T	tert-Butylbenzene	3.296	3.325	3.271	3.265	3.220	3.445	3.304	2.35
84)	T	1,2,4-Trimethy...	3.197	3.151	3.230	3.229	3.148	3.403	3.226	2.91
85)	T	sec-Butylbenzene	3.671	3.809	3.927	3.946	3.898	4.247	3.916	4.88
86)	T	p-Isopropyltol...	3.016	3.122	3.281	3.300	3.305	3.581	3.267	5.89
87)	T	1,3-Dichlorobe...	1.609	1.634	1.642	1.629	1.666	1.819	1.666	4.60
88)	T	1,4-Dichlorobe...	1.848	1.672	1.662	1.639	1.665	1.823	1.718	5.35
89)	T	n-Butylbenzene	2.418	2.350	2.609	2.830	2.943	3.263	2.735	12.62
90)	T	Hexachloroethane	0.523	0.546	0.587	0.631	0.653	0.737	0.613	12.75
91)	T	1,2-Dichlorobe...	1.774	1.720	1.690	1.650	1.636	1.755	1.704	3.27
92)	T	1,2-Dibromo-3-...	0.290	0.281	0.298	0.312	0.324	0.351	0.309	8.26
93)	T	1,2,4-Trichlor...	0.865	0.837	0.944	1.001	1.058	1.190	0.983	13.31
94)	T	Hexachlorobuta...	0.367	0.349	0.380	0.402	0.404	0.435	0.389	7.86
95)	T	Naphthalene	3.516	3.252	3.385	3.584	3.768	4.166	3.612	8.95
96)	T	1,2,3-Trichlor...	0.957	0.918	0.957	1.016	1.056	1.179	1.014	9.33

(#) = Out of Range

Vinyl Acetate

Response Ratio



$R = 2.679e-002 A^2 + 2.041e+000 A - 2.592e-001$
 Coef of Det (r^2) = 0.999074 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X100124W.M
 Calibration Table Last Updated: Wed Oct 02 16:50:57 2024

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
 Data File : VX043207.D
 Acq On : 01 Oct 2024 11:36
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/02/2024
 Supervised By : Mahesh Dadoda 10/03/2024

Quant Time: Oct 02 16:45:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:45:05 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	116191	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	205863	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	177593	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	77096	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	1297	0.960	ug/l	84
3) Chloromethane	1.294	50	1563	1.123	ug/l #	87
4) Vinyl Chloride	1.374	62	1310	0.940	ug/l	89
6) Chloroethane	1.666	64	643	1.238	ug/l #	71
7) Trichlorofluoromethane	1.874	101	2251	1.081	ug/l	94
8) Diethyl Ether	2.136	74	807	0.995	ug/l	75
9) 1,1,2-Trichlorotrifluo...	2.319	101	1233	0.948	ug/l	95
12) 1,1-Dichloroethene	2.312	96	1345	1.042	ug/l #	94
14) Allyl chloride	2.654	41	2314	1.091	ug/l	95
15) Acrylonitrile	3.081	53	3754	5.091	ug/l	97
16) Acetone	2.386	43	4807	6.066	ug/l #	87
17) Carbon Disulfide	2.501	76	3226	1.027	ug/l	96
18) Methyl Acetate	2.709	43	2068	1.040	ug/l #	90
19) Methyl tert-butyl Ether	3.117	73	4326	0.937	ug/l #	80
20) Methylene Chloride	2.788	84	1570	1.075	ug/l	97
21) trans-1,2-Dichloroethene	3.093	96	1195	0.930	ug/l #	77
22) Diisopropyl ether	3.770	45	4120	0.966	ug/l	88
23) Vinyl Acetate	3.733	43	17006	9.874	ug/l	97
24) 1,1-Dichloroethane	3.611	63	2236	0.900	ug/l	98
25) 2-Butanone	4.580	43	5334	4.909	ug/l #	87
26) 2,2-Dichloropropane	4.477	77	2363	0.999	ug/l	98
27) cis-1,2-Dichloroethene	4.489	96	1519	0.948	ug/l	99
28) Bromochloromethane	4.910	49	1172	1.195	ug/l #	88
29) Tetrahydrofuran	5.032	42	3726	5.383	ug/l #	71
30) Chloroform	5.099	83	2721	0.997	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	2370	0.945	ug/l #	50
36) 1,1-Dichloropropene	5.690	75	1774	0.989	ug/l	94
37) Ethyl Acetate	4.751	43	2156m	1.069	ug/l	
38) Carbon Tetrachloride	5.666	117	1953	0.920	ug/l #	82
39) Methylcyclohexane	7.373	83	2065	0.915	ug/l	99
40) Benzene	6.037	78	5307	0.976	ug/l #	90
41) Methacrylonitrile	4.928	41	1020m	0.999	ug/l	
42) 1,2-Dichloroethane	6.098	62	2126	0.959	ug/l	80
43) Isopropyl Acetate	6.348	43	3342	0.939	ug/l	95
44) Trichloroethene	7.135	130	1525	1.057	ug/l	74
45) 1,2-Dichloropropane	7.440	63	1259	0.943	ug/l	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
 Data File : VX043207.D
 Acq On : 01 Oct 2024 11:36
 Operator : JC/MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/02/2024
 Supervised By : Mahesh Dadoda 10/03/2024

Quant Time: Oct 02 16:45:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:45:05 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.586	93	975	0.912	ug/l	96
47) Bromodichloromethane	7.824	83	1903	0.905	ug/l #	94
48) Methyl methacrylate	7.714	41	1773m	1.043	ug/l	
49) 1,4-Dioxane	7.683	88	573	16.887	ug/l #	84
51) 4-Methyl-2-Pentanone	8.580	43	10572	4.893	ug/l	98
52) Toluene	8.720	92	3287	0.964	ug/l	95
53) t-1,3-Dichloropropene	8.988	75	1774	0.849	ug/l	100
54) cis-1,3-Dichloropropene	8.372	75	2055	0.917	ug/l	91
55) 1,1,2-Trichloroethane	9.159	97	1301	0.961	ug/l	96
56) Ethyl methacrylate	9.128	69	1823	0.823	ug/l #	81
57) 1,3-Dichloropropane	9.311	76	2125	0.921	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.250	63	3908	3.915	ug/l	98
59) 2-Hexanone	9.439	43	7677	4.698	ug/l	91
60) Dibromochloromethane	9.525	129	1414	0.900	ug/l	96
61) 1,2-Dibromoethane	9.616	107	1458	1.002	ug/l	96
64) Tetrachloroethene	9.275	164	1191	0.966	ug/l	93
65) Chlorobenzene	10.073	112	3941	1.032	ug/l #	86
66) 1,1,1,2-Tetrachloroethane	10.159	131	1198	0.887	ug/l #	66
67) Ethyl Benzene	10.195	91	6375	0.966	ug/l	95
68) m/p-Xylenes	10.305	106	4961	1.989	ug/l	99
69) o-Xylene	10.640	106	2499	1.008	ug/l	97
70) Styrene	10.659	104	3607	0.898	ug/l	97
71) Bromoform	10.799	173	839	0.811	ug/l #	98
73) Isopropylbenzene	10.963	105	5770	0.963	ug/l	95
74) N-amyl acetate	10.848	43	2635	0.926	ug/l	97
75) 1,1,1,2-Tetrachloroethane	11.213	83	1917	0.982	ug/l	100
76) 1,2,3-Trichloropropane	11.244	75	1694m	0.960	ug/l	
77) Bromobenzene	11.201	156	1548	1.061	ug/l	94
78) n-propylbenzene	11.305	91	6218	0.945	ug/l	97
79) 2-Chlorotoluene	11.366	91	4439	1.049	ug/l	95
80) 1,3,5-Trimethylbenzene	11.451	105	4884	0.988	ug/l	97
82) 4-Chlorotoluene	11.457	91	4954	1.028	ug/l	99
83) tert-Butylbenzene	11.713	119	5082	0.998	ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	4929	0.991	ug/l	96
85) sec-Butylbenzene	11.890	105	5660	0.937	ug/l	99
86) p-Isopropyltoluene	12.006	119	4650	0.923	ug/l	92
87) 1,3-Dichlorobenzene	11.975	146	2481	0.966	ug/l	100
88) 1,4-Dichlorobenzene	12.042	146	2850m	1.101	ug/l	
89) n-Butylbenzene	12.335	91	3729	0.884	ug/l	94
90) Hexachloroethane	12.536	117	806	0.853	ug/l	93
91) 1,2-Dichlorobenzene	12.341	146	2736	1.041	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	12.945	75	447	0.938	ug/l	88
93) 1,2,4-Trichlorobenzene	13.591	180	1333	0.880	ug/l	99
94) Hexachlorobutadiene	13.725	225	566	0.942	ug/l	92
95) Naphthalene	13.780	128	5422	0.974	ug/l	96
96) 1,2,3-Trichlorobenzene	13.963	180	1475	0.944	ug/l	98

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

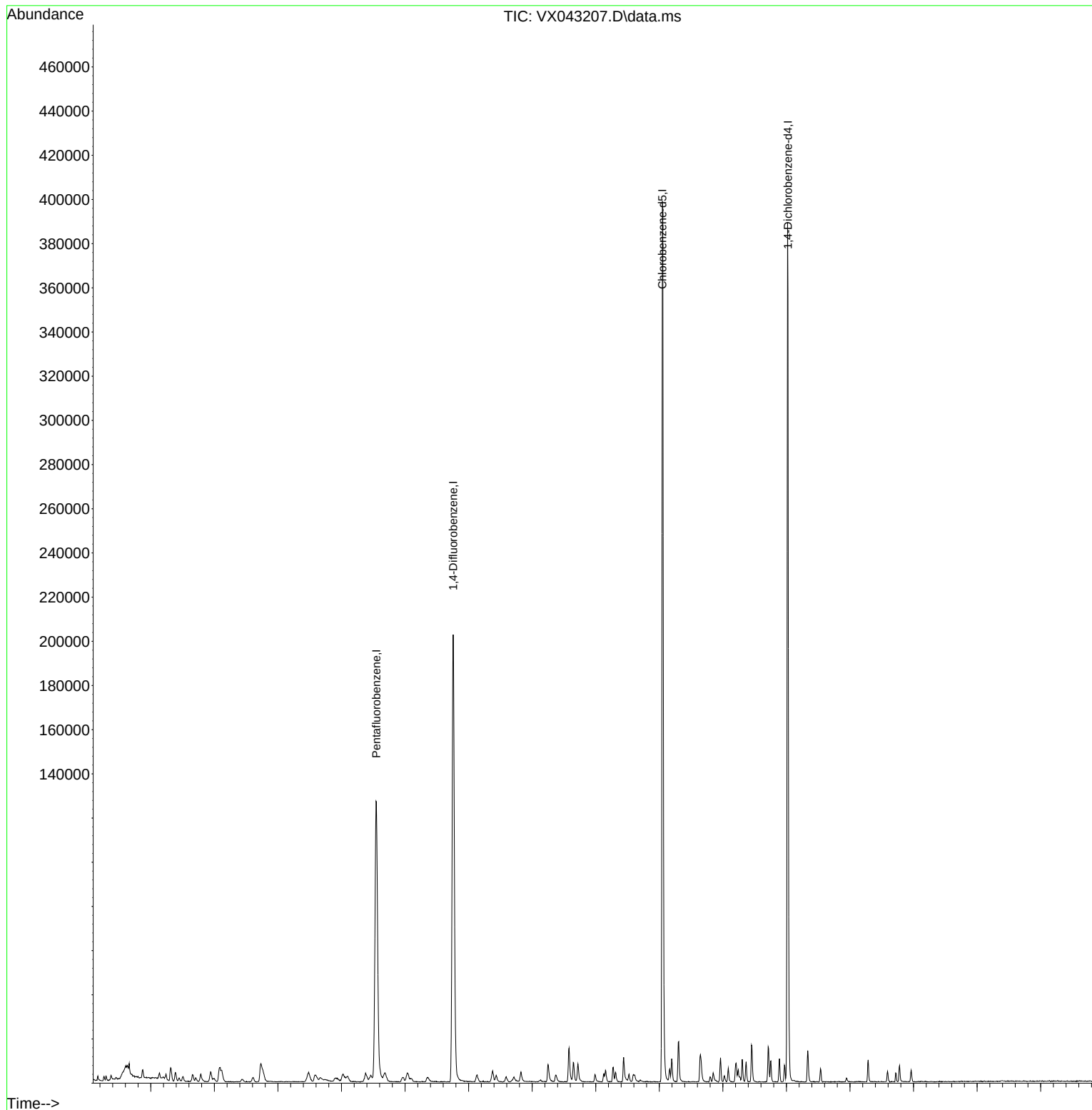
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
Data File : VX043207.D
Acq On : 01 Oct 2024 11:36
Operator : JC/MD
Sample : VSTDIC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

Reviewed By : John Carlone 10/02/2024
Supervised By : Mahesh Dadoda 10/03/2024

Quant Time: Oct 02 16:45:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:45:05 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
 Data File : VX043208.D
 Acq On : 01 Oct 2024 11:59
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Quant Time: Oct 02 16:30:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:27:19 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 10/02/2024
 Supervised By :Mahesh Dadoda 10/03/2024

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	117306	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	204902	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	176103	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	77677	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	9411	4.912	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	9.820%#		
35) Dibromofluoromethane	5.391	113	6786	4.802	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	9.600%#		
50) Toluene-d8	8.647	98	23525	4.804	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	9.600%#		
62) 4-Bromofluorobenzene	11.079	95	8272	4.650	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.300%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	6237	4.571	ug/l	95
3) Chloromethane	1.294	50	6630	4.718	ug/l	94
4) Vinyl Chloride	1.374	62	6822	4.846	ug/l	96
5) Bromomethane	1.599	94	2893	5.031	ug/l	99
6) Chloroethane	1.666	64	2428	4.632	ug/l	90
7) Trichlorofluoromethane	1.867	101	10190	4.845	ug/l	98
8) Diethyl Ether	2.136	74	4000	4.887	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.319	101	6291	4.793	ug/l	99
10) Methyl Iodide	2.447	142	7563	4.588	ug/l	98
11) Tert butyl alcohol	2.995	59	8128	21.905	ug/l	98
12) 1,1-Dichloroethene	2.313	96	6205	4.761	ug/l	98
13) Acrolein	2.239	56	8607	25.078	ug/l	100
14) Allyl chloride	2.660	41	10429	4.871	ug/l	98
15) Acrylonitrile	3.075	53	18288	24.567	ug/l	98
16) Acetone	2.392	43	21181	26.475	ug/l	98
17) Carbon Disulfide	2.501	76	14527	4.583	ug/l	98
18) Methyl Acetate	2.709	43	9231	4.599	ug/l	95
19) Methyl tert-butyl Ether	3.117	73	22856	4.902	ug/l	97
20) Methylene Chloride	2.788	84	7377	5.001	ug/l	94
21) trans-1,2-Dichloroethene	3.087	96	6298	4.855	ug/l	98
22) Diisopropyl ether	3.763	45	21128	4.906	ug/l	94
23) Vinyl Acetate	3.721	43	93425	32.831	ug/l	99
24) 1,1-Dichloroethane	3.605	63	12395	4.940	ug/l	98
25) 2-Butanone	4.574	43	28146	25.658	ug/l	100
26) 2,2-Dichloropropane	4.471	77	11610	4.863	ug/l	99
27) cis-1,2-Dichloroethene	4.489	96	8001	4.946	ug/l	97
28) Bromochloromethane	4.904	49	5556	5.613	ug/l #	99
29) Tetrahydrofuran	5.007	42	17408	24.911	ug/l	99
30) Chloroform	5.086	83	13770	4.998	ug/l	92
31) Cyclohexane	5.464	56	10237	4.952	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	12314	4.866	ug/l	99
36) 1,1-Dichloropropene	5.690	75	8708	4.878	ug/l	99
37) Ethyl Acetate	4.721	43	10515	4.931	ug/l	98
38) Carbon Tetrachloride	5.666	117	10063	4.762	ug/l	95
39) Methylcyclohexane	7.373	83	10759	4.792	ug/l	97
40) Benzene	6.031	78	26842	4.959	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
 Data File : VX043208.D
 Acq On : 01 Oct 2024 11:59
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/02/2024

Supervised By :Mahesh Dadoda 10/03/2024

Quant Time: Oct 02 16:30:58 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M

Quant Title : SW846 8260

QLast Update : Wed Oct 02 16:27:19 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.940	41	5322	4.769	ug/l #	91
42) 1,2-Dichloroethane	6.092	62	10720	4.860	ug/l	97
43) Isopropyl Acetate	6.348	43	17286	4.882	ug/l	98
44) Trichloroethene	7.129	130	6601	4.598	ug/l	96
45) 1,2-Dichloropropane	7.427	63	6534	4.919	ug/l	94
46) Dibromomethane	7.586	93	5256	4.938	ug/l	98
47) Bromodichloromethane	7.824	83	9769	4.668	ug/l	96
48) Methyl methacrylate	7.696	41	8311	4.912	ug/l	98
49) 1,4-Dioxane	7.677	88	3179	94.129	ug/l	92
51) 4-Methyl-2-Pentanone	8.574	43	53232	24.752	ug/l	98
52) Toluene	8.720	92	16775	4.945	ug/l	96
53) t-1,3-Dichloropropene	8.982	75	9414	4.527	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	10616	4.760	ug/l	95
55) 1,1,2-Trichloroethane	9.153	97	6747	5.005	ug/l	97
56) Ethyl methacrylate	9.116	69	10315	4.680	ug/l	94
57) 1,3-Dichloropropane	9.311	76	11992	5.223	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.244	63	25135	25.300	ug/l	100
59) 2-Hexanone	9.433	43	39948	24.564	ug/l	98
60) Dibromochloromethane	9.519	129	7123	4.554	ug/l	98
61) 1,2-Dibromoethane	9.610	107	6789	4.687	ug/l	99
64) Tetrachloroethene	9.275	164	6041	4.944	ug/l	92
65) Chlorobenzene	10.079	112	18146	4.793	ug/l	95
66) 1,1,1,2-Tetrachloroethane	10.159	131	6573	4.910	ug/l	97
67) Ethyl Benzene	10.195	91	31173	4.764	ug/l	98
68) m/p-Xylenes	10.299	106	24041	9.721	ug/l	99
69) o-Xylene	10.640	106	12141	4.940	ug/l	97
70) Styrene	10.659	104	18786	4.717	ug/l	99
71) Bromoform	10.799	173	4295	4.188	ug/l #	100
73) Isopropylbenzene	10.963	105	30571	5.062	ug/l	98
74) N-amyl acetate	10.841	43	13969	4.873	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.213	83	10056	5.111	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	9465m	5.612	ug/l	
77) Bromobenzene	11.201	156	7159	4.871	ug/l	100
78) n-propylbenzene	11.305	91	31349	4.729	ug/l	99
79) 2-Chlorotoluene	11.366	91	21966	5.154	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	24359	4.890	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	2942	4.425	ug/l	96
82) 4-Chlorotoluene	11.457	91	24236	4.992	ug/l	100
83) tert-Butylbenzene	11.713	119	25826	5.032	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	24478	4.883	ug/l	99
85) sec-Butylbenzene	11.890	105	29585	4.863	ug/l	99
86) p-Isopropyltoluene	12.006	119	24251	4.777	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	12694	4.903	ug/l	97
88) 1,4-Dichlorobenzene	12.042	146	12989	4.982	ug/l	93
89) n-Butylbenzene	12.329	91	18252	4.295	ug/l	98
90) Hexachloroethane	12.536	117	4242	4.456	ug/l	92
91) 1,2-Dichlorobenzene	12.335	146	13362	5.047	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	2180	4.538	ug/l	98
93) 1,2,4-Trichlorobenzene	13.591	180	6503	4.260	ug/l	99
94) Hexachlorobutadiene	13.725	225	2711	4.480	ug/l	94
95) Naphthalene	13.774	128	25260	4.502	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	7129	4.527	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
Data File : VX043208.D
Acq On : 01 Oct 2024 11:59
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/02/2024
Supervised By :Mahesh Dadoda 10/03/2024

Quant Time: Oct 02 16:30:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:27:19 2024
Response via : Initial Calibration

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

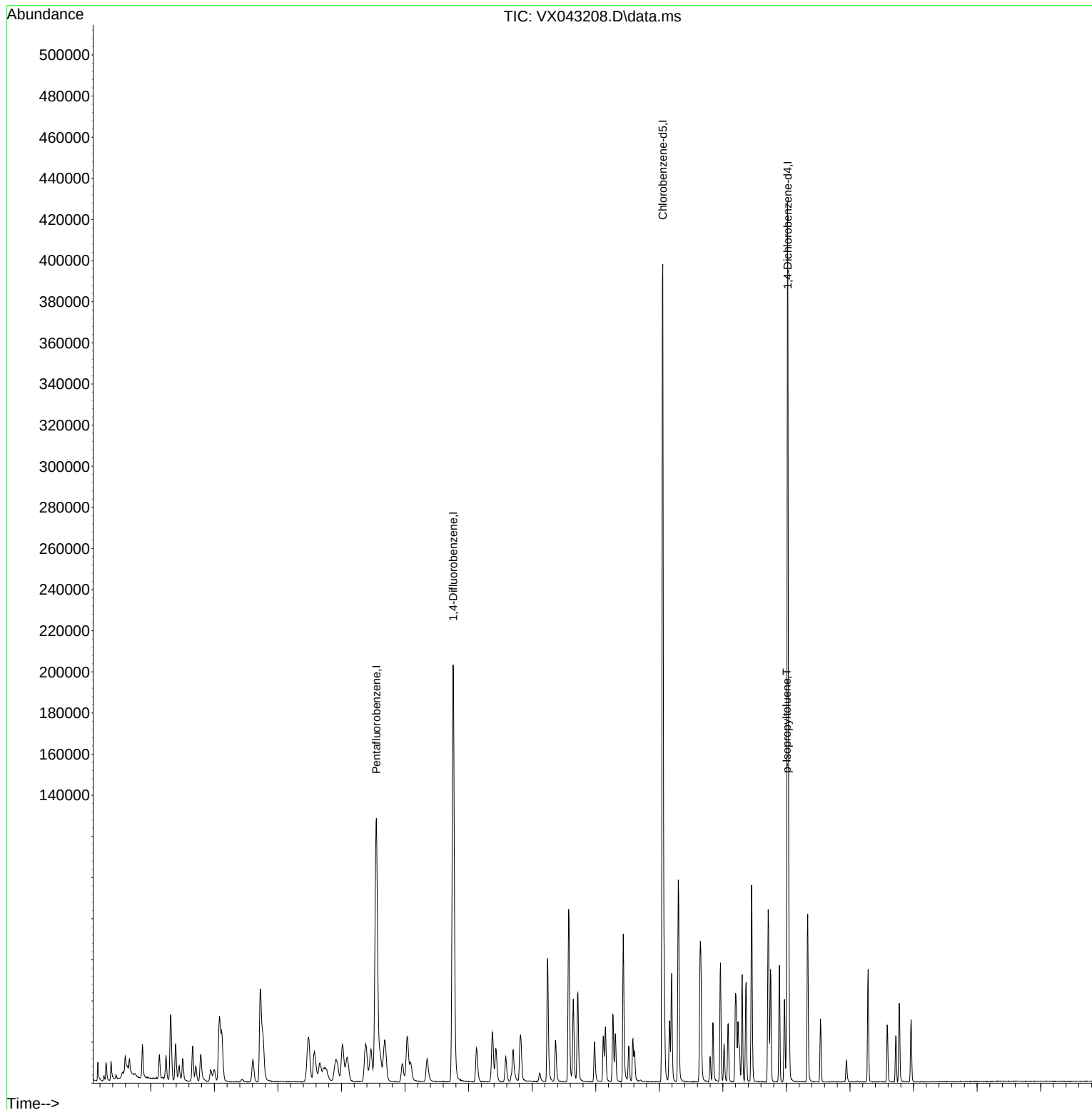
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
Data File : VX043208.D
Acq On : 01 Oct 2024 11:59
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By : John Carlone 10/02/2024
Supervised By : Mahesh Dadoda 10/03/2024

Quant Time: Oct 02 16:30:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:27:19 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
 Data File : VX043209.D
 Acq On : 01 Oct 2024 12:22
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Quant Time: Oct 02 03:05:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 02:49:43 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/02/2024
 Supervised By : Semsettin Yesilyurt 10/02/2024

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	117990	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	204041	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	177106	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	80207	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.952	65	36776	19.085	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	38.180%#
35) Dibromofluoromethane	5.379	113	26869	19.095	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	38.180%#
50) Toluene-d8	8.647	98	95098	19.502	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	39.000%#
62) 4-Bromofluorobenzene	11.079	95	33720	19.034	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	38.060%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.167	85	25419	18.521	ug/l	97
3) Chloromethane	1.295	50	26381	18.664	ug/l	100
4) Vinyl Chloride	1.374	62	27387	19.343	ug/l	96
5) Bromomethane	1.599	94	10358	17.907	ug/l	96
6) Chloroethane	1.666	64	9779	18.547	ug/l	95
7) Trichlorofluoromethane	1.874	101	40587	19.186	ug/l	97
8) Diethyl Ether	2.136	74	15749	19.131	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	25207	19.094	ug/l	99
10) Methyl Iodide	2.447	142	32227	19.436	ug/l	99
11) Tert butyl alcohol	2.995	59	35690m	86.653	ug/l	
12) 1,1-Dichloroethene	2.307	96	24760	18.887	ug/l	96
13) Acrolein	2.240	56	30397	87.767	ug/l	100
14) Allyl chloride	2.660	41	42380	19.678	ug/l	99
15) Acrylonitrile	3.069	53	72608	96.971	ug/l	99
16) Acetone	2.392	43	79498	98.791	ug/l	99
17) Carbon Disulfide	2.502	76	60772	19.059	ug/l	97
18) Methyl Acetate	2.709	43	34888	17.282	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	91760	19.565	ug/l	99
20) Methylene Chloride	2.788	84	28289	19.066	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	25717	19.711	ug/l	93
22) Diisopropyl ether	3.764	45	84695	19.551	ug/l	96
23) Vinyl Acetate	3.721	43	388975	84.975	ug/l	99
24) 1,1-Dichloroethane	3.605	63	49845	19.751	ug/l	99
25) 2-Butanone	4.562	43	109850	99.558	ug/l	99
26) 2,2-Dichloropropane	4.471	77	46409	19.328	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	31821	19.557	ug/l	98
28) Bromochloromethane	4.891	49	16439	16.511	ug/l	99
29) Tetrahydrofuran	5.007	42	67211	95.620	ug/l	99
30) Chloroform	5.093	83	54189	19.553	ug/l	94
31) Cyclohexane	5.465	56	41545	19.981	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	49372	19.395	ug/l	99
36) 1,1-Dichloropropene	5.684	75	34473	19.392	ug/l	99
37) Ethyl Acetate	4.721	43	42499	19.439	ug/l	99
38) Carbon Tetrachloride	5.672	117	41241	19.597	ug/l	99
39) Methylcyclohexane	7.373	83	45015	20.134	ug/l	97
40) Benzene	6.032	78	107255	19.900	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
 Data File : VX043209.D
 Acq On : 01 Oct 2024 12:22
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/02/2024
 Supervised By : Semsettin Yesilyurt 10/02/2024

Quant Time: Oct 02 03:05:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 02:49:43 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	21576	19.179	ug/l	95
42) 1,2-Dichloroethane	6.086	62	43994	20.031	ug/l	99
43) Isopropyl Acetate	6.342	43	68917	19.545	ug/l	99
44) Trichloroethene	7.123	130	28133	19.680	ug/l	99
45) 1,2-Dichloropropane	7.428	63	26272	19.863	ug/l	94
46) Dibromomethane	7.580	93	20824	19.647	ug/l	100
47) Bromodichloromethane	7.818	83	40763	19.562	ug/l	98
48) Methyl methacrylate	7.696	41	32697	19.133	ug/l	96
49) 1,4-Dioxane	7.665	88	13602	397.775	ug/l	98
51) 4-Methyl-2-Pentanone	8.574	43	212974	99.449	ug/l	100
52) Toluene	8.714	92	67641	20.024	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	40470	19.545	ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	43175	19.441	ug/l	98
55) 1,1,2-Trichloroethane	9.153	97	26739	19.918	ug/l	98
56) Ethyl methacrylate	9.116	69	44299	20.184	ug/l	99
57) 1,3-Dichloropropane	9.305	76	45673	19.976	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	96134	97.173	ug/l	99
59) 2-Hexanone	9.433	43	161951	100.002	ug/l	100
60) Dibromochloromethane	9.519	129	30078	19.313	ug/l	99
61) 1,2-Dibromoethane	9.610	107	28827	19.986	ug/l	100
64) Tetrachloroethene	9.269	164	24466	19.909	ug/l	93
65) Chlorobenzene	10.080	112	73164	19.215	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	25686	19.078	ug/l	97
67) Ethyl Benzene	10.195	91	128675	19.552	ug/l	98
68) m/p-Xylenes	10.299	106	96633	38.853	ug/l	100
69) o-Xylene	10.640	106	47336	19.153	ug/l	98
70) Styrene	10.653	104	78731	19.657	ug/l	99
71) Bromoform	10.799	173	19831	19.228	ug/l #	97
73) Isopropylbenzene	10.964	105	124665	19.992	ug/l	99
74) N-amyl acetate	10.842	43	58400	19.728	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.214	83	39868	19.625	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	35012m	19.732	ug/l	
77) Bromobenzene	11.195	156	29742	19.599	ug/l	98
78) n-propylbenzene	11.305	91	135655	19.816	ug/l	99
79) 2-Chlorotoluene	11.360	91	85388	19.402	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	104796	20.373	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	12740	18.559	ug/l	95
82) 4-Chlorotoluene	11.451	91	97857	19.519	ug/l	99
83) tert-Butylbenzene	11.713	119	104940	19.802	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	103628	20.022	ug/l	99
85) sec-Butylbenzene	11.890	105	125984	20.054	ug/l	99
86) p-Isopropyltoluene	12.006	119	105268	20.084	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	52684	19.708	ug/l	98
88) 1,4-Dichlorobenzene	12.043	146	53326	19.349	ug/l	98
89) n-Butylbenzene	12.329	91	83691	19.072	ug/l	99
90) Hexachloroethane	12.536	117	18843	19.169	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	54219	19.832	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.945	75	9559	19.273	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	30302	19.226	ug/l	99
94) Hexachlorobutadiene	13.725	225	12182	19.498	ug/l	95
95) Naphthalene	13.774	128	108599	18.744	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	30700	18.879	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
Data File : VX043209.D
Acq On : 01 Oct 2024 12:22
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/02/2024
Supervised By :Semsettin Yesilyurt 10/02/2024

Quant Time: Oct 02 03:05:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 02:49:43 2024
Response via : Initial Calibration

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

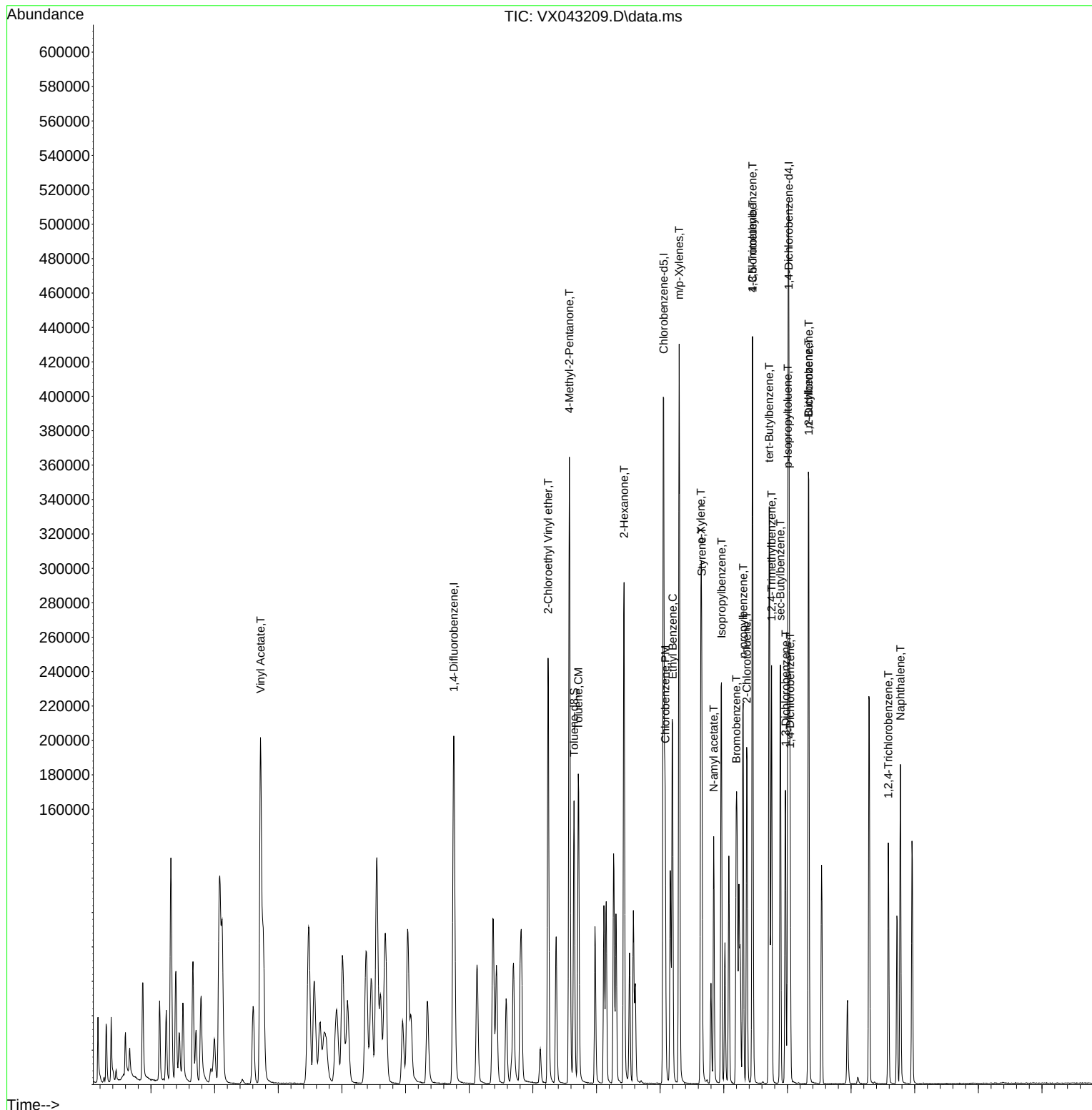
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
Data File : VX043209.D
Acq On : 01 Oct 2024 12:22
Operator : JC/MD
Sample : VSTDIC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Quant Time: Oct 02 03:05:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 02:49:43 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/02/2024
Supervised By :Semsettin Yesilyurt 10/02/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
 Data File : VX043210.D
 Acq On : 01 Oct 2024 12:45
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/02/2024
 Supervised By :Semsettin Yesilyurt 10/02/2024

Quant Time: Oct 02 03:17:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 03:09:11 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	107475	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	187335	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	165604	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	77403	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.952	65	87515	49.860	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.720%
35) Dibromofluoromethane	5.385	113	63750	49.345	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.680%
50) Toluene-d8	8.647	98	227896	50.902	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.800%
62) 4-Bromofluorobenzene	11.079	95	84837	52.159	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	104.320%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	64385	51.502	ug/l	100
3) Chloromethane	1.294	50	64573	50.153	ug/l	100
4) Vinyl Chloride	1.374	62	64833	50.272	ug/l	100
5) Bromomethane	1.599	94	25715	48.805	ug/l	100
6) Chloroethane	1.666	64	24209	50.409	ug/l	100
7) Trichlorofluoromethane	1.874	101	93423	48.483	ug/l	100
8) Diethyl Ether	2.136	74	36928	49.246	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	60088	49.970	ug/l	100
10) Methyl Iodide	2.447	142	77297	51.179	ug/l	100
11) Tert butyl alcohol	2.995	59	85776m	230.424	ug/l	
12) 1,1-Dichloroethene	2.313	96	58964	49.380	ug/l	100
13) Acrolein	2.239	56	79015	250.465	ug/l	100
14) Allyl chloride	2.660	41	98076	49.993	ug/l	100
15) Acrylonitrile	3.069	53	171765	251.843	ug/l	100
16) Acetone	2.386	43	170286	232.314	ug/l	100
17) Carbon Disulfide	2.502	76	141960	48.877	ug/l	100
18) Methyl Acetate	2.709	43	95724	52.057	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	214234	50.147	ug/l	100
20) Methylene Chloride	2.788	84	65794	48.682	ug/l	100
21) trans-1,2-Dichloroethene	3.087	96	59161	49.782	ug/l	100
22) Diisopropyl ether	3.764	45	197404	50.028	ug/l	100
23) Vinyl Acetate	3.721	43	1210300	290.270	ug/l	100
24) 1,1-Dichloroethane	3.605	63	115342	50.176	ug/l	100
25) 2-Butanone	4.562	43	253179	251.909	ug/l	100
26) 2,2-Dichloropropane	4.471	77	108405	49.565	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	73353	49.492	ug/l	100
28) Bromochloromethane	4.897	49	43435	47.894	ug/l	100
29) Tetrahydrofuran	5.007	42	156911	245.075	ug/l	100
30) Chloroform	5.093	83	123733	49.014	ug/l	100
31) Cyclohexane	5.464	56	92480	48.829	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	116430	50.214	ug/l	100
36) 1,1-Dichloropropene	5.690	75	81187	49.743	ug/l	100
37) Ethyl Acetate	4.715	43	97471	48.558	ug/l	100
38) Carbon Tetrachloride	5.672	117	98681	51.073	ug/l	100
39) Methylcyclohexane	7.373	83	102941	50.148	ug/l	100
40) Benzene	6.031	78	246144	49.742	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
 Data File : VX043210.D
 Acq On : 01 Oct 2024 12:45
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
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Reviewed By :John Carlone 10/02/2024
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Quant Time: Oct 02 03:17:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 03:09:11 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	54181	52.457	ug/l	100
42) 1,2-Dichloroethane	6.086	62	102059	50.613	ug/l	100
43) Isopropyl Acetate	6.342	43	166730	51.502	ug/l	100
44) Trichloroethene	7.123	130	64025	48.781	ug/l	100
45) 1,2-Dichloropropane	7.428	63	61382	50.546	ug/l	100
46) Dibromomethane	7.580	93	49270	50.632	ug/l	100
47) Bromodichloromethane	7.818	83	98747	51.615	ug/l	100
48) Methyl methacrylate	7.696	41	81496	51.940	ug/l	100
49) 1,4-Dioxane	7.665	88	31946	1017.535	ug/l	100
51) 4-Methyl-2-Pentanone	8.574	43	508217	258.476	ug/l	100
52) Toluene	8.714	92	158219	51.016	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	101616	53.451	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	104904	51.449	ug/l	100
55) 1,1,2-Trichloroethane	9.153	97	63767	51.736	ug/l	100
56) Ethyl methacrylate	9.116	69	108868	54.026	ug/l	100
57) 1,3-Dichloropropane	9.305	76	108262	51.572	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	247882	272.907	ug/l	100
59) 2-Hexanone	9.433	43	386980	260.264	ug/l	100
60) Dibromochloromethane	9.519	129	76277	53.345	ug/l	100
61) 1,2-Dibromoethane	9.610	107	68281	51.562	ug/l	100
64) Tetrachloroethene	9.269	164	56720	49.361	ug/l	100
65) Chlorobenzene	10.079	112	175184	49.205	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	64449	51.194	ug/l	100
67) Ethyl Benzene	10.189	91	312493	50.780	ug/l	100
68) m/p-Xylenes	10.299	106	233006	100.192	ug/l	100
69) o-Xylene	10.640	106	114771	49.664	ug/l	100
70) Styrene	10.653	104	192929	51.514	ug/l	100
71) Bromoform	10.799	173	50539	52.405	ug/l #	100
73) Isopropylbenzene	10.963	105	302671	50.296	ug/l	100
74) N-ethyl acetate	10.842	43	142466	49.870	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.213	83	96592	49.270	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	82914m	48.421	ug/l	
77) Bromobenzene	11.195	156	71854	49.064	ug/l	100
78) n-propylbenzene	11.305	91	339918	51.453	ug/l	100
79) 2-Chlorotoluene	11.366	91	206498	48.620	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	246409	49.638	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	32438	48.965	ug/l	100
82) 4-Chlorotoluene	11.451	91	238000	49.191	ug/l	100
83) tert-Butylbenzene	11.713	119	252749	49.420	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	249963	50.045	ug/l	100
85) sec-Butylbenzene	11.890	105	305470	50.385	ug/l	100
86) p-Isopropyltoluene	12.006	119	255450	50.502	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	126117	48.887	ug/l	100
88) 1,4-Dichlorobenzene	12.043	146	126827	47.685	ug/l	100
89) n-Butylbenzene	12.329	91	219052	51.728	ug/l	100
90) Hexachloroethane	12.536	117	48838	51.483	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	127738	48.417	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.945	75	24130	50.413	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	77482	50.942	ug/l	100
94) Hexachlorobutadiene	13.725	225	31084	51.553	ug/l	100
95) Naphthalene	13.774	128	277418	49.615	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	78666	50.129	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
Data File : VX043210.D
Acq On : 01 Oct 2024 12:45
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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Quant Time: Oct 02 03:17:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 03:09:11 2024
Response via : Initial Calibration

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

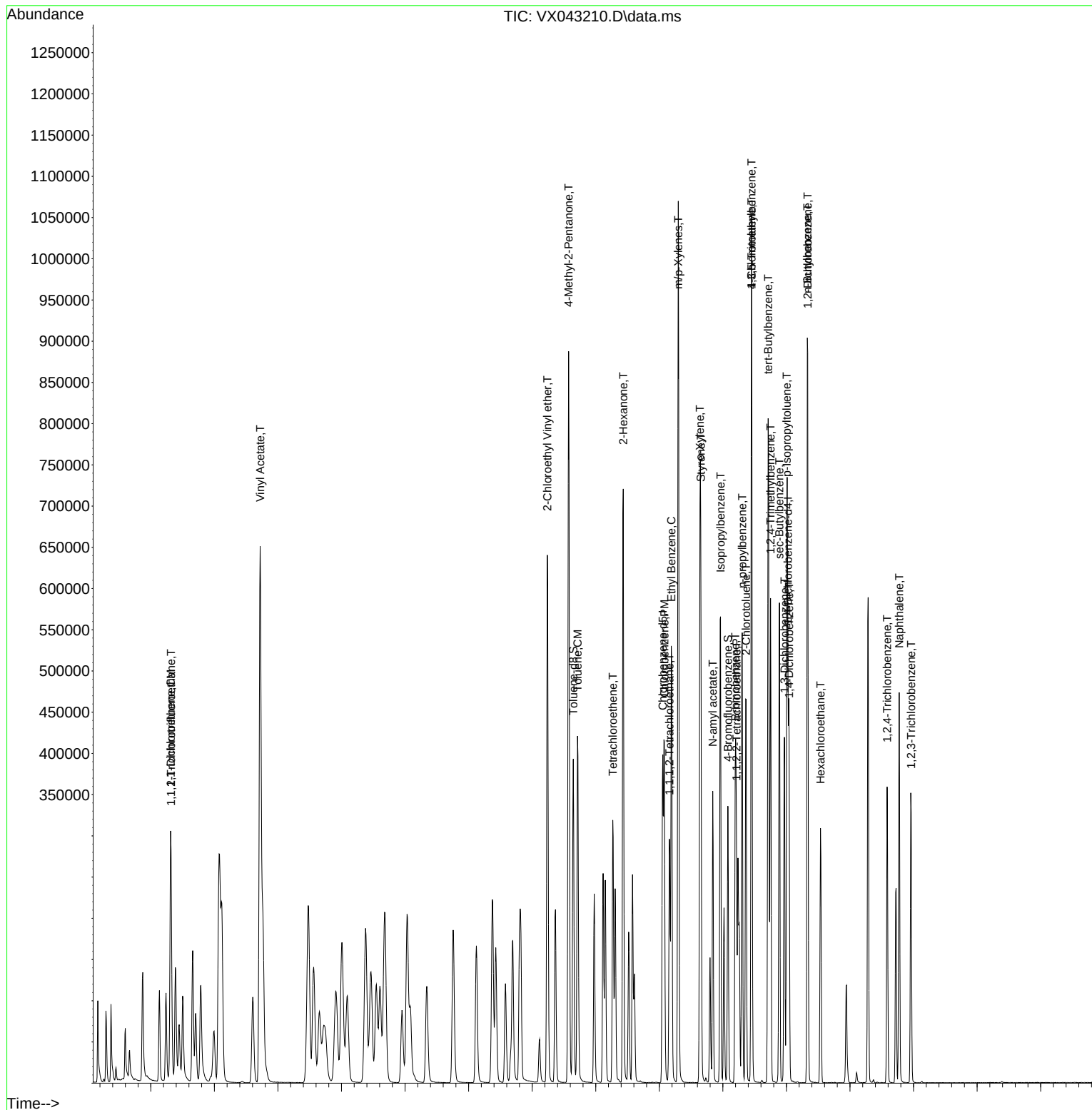
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
Data File : VX043210.D
Acq On : 01 Oct 2024 12:45
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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Quant Time: Oct 02 03:17:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 03:09:11 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
 Data File : VX043211.D
 Acq On : 01 Oct 2024 13:08
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/02/2024
 Supervised By :Semsettin Yesilyurt 10/02/2024

Quant Time: Oct 02 03:06:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 02:49:43 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	105929	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	184645	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	156395	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	74501	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.952	65	166846	96.444	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	192.880%#
35) Dibromofluoromethane	5.379	113	125344	98.434	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	196.860%#
50) Toluene-d8	8.647	98	423423	95.952	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	191.900%#
62) 4-Bromofluorobenzene	11.079	95	155403	96.935	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	193.880%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	128858	104.580	ug/l	97
3) Chloromethane	1.294	50	120175	94.700	ug/l	99
4) Vinyl Chloride	1.374	62	128660	101.219	ug/l	97
5) Bromomethane	1.599	94	51887	99.915	ug/l	96
6) Chloroethane	1.666	64	44375	93.747	ug/l	98
7) Trichlorofluoromethane	1.868	101	183136	96.429	ug/l	100
8) Diethyl Ether	2.136	74	74210	100.409	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	123726	104.394	ug/l	99
10) Methyl Iodide	2.441	142	153872	103.367	ug/l	98
11) Tert butyl alcohol	3.001	59	166317m	449.784	ug/l	
12) 1,1-Dichloroethene	2.313	96	116163	98.701	ug/l	99
13) Acrolein	2.239	56	156397	502.990	ug/l	98
14) Allyl chloride	2.660	41	182549	94.411	ug/l	99
15) Acrylonitrile	3.069	53	329272	489.828	ug/l	99
16) Acetone	2.392	43	320965	444.270	ug/l	99
17) Carbon Disulfide	2.502	76	288245	100.692	ug/l	99
18) Methyl Acetate	2.709	43	186726	103.029	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	427058	101.424	ug/l	99
20) Methylene Chloride	2.788	84	127980	96.077	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	119280	101.835	ug/l	97
22) Diisopropyl ether	3.764	45	385974	99.245	ug/l	99
23) Vinyl Acetate	3.721	43	2383815	580.062	ug/l	99
24) 1,1-Dichloroethane	3.605	63	233482	103.052	ug/l	99
25) 2-Butanone	4.562	43	478906	483.458	ug/l	100
26) 2,2-Dichloropropane	4.471	77	217043	100.685	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	147219	100.780	ug/l	99
28) Bromochloromethane	4.904	49	80718	90.304	ug/l	99
29) Tetrahydrofuran	5.007	42	303457	480.879	ug/l	100
30) Chloroform	5.093	83	245899	98.830	ug/l	98
31) Cyclohexane	5.464	56	185302	99.267	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	233114	102.004	ug/l	100
36) 1,1-Dichloropropene	5.684	75	161613	100.462	ug/l	99
37) Ethyl Acetate	4.721	43	190711	96.392	ug/l	99
38) Carbon Tetrachloride	5.672	117	196078	102.961	ug/l	99
39) Methylcyclohexane	7.379	83	210223	103.903	ug/l	97
40) Benzene	6.031	78	483062	99.042	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
 Data File : VX043211.D
 Acq On : 01 Oct 2024 13:08
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/02/2024

Supervised By :Semsettin Yesilyurt 10/02/2024

Quant Time: Oct 02 03:06:54 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M

Quant Title : SW846 8260

QLast Update : Wed Oct 02 02:49:43 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	102675	100.857	ug/l	98
42) 1,2-Dichloroethane	6.086	62	198072	99.658	ug/l	100
43) Isopropyl Acetate	6.342	43	319559	100.148	ug/l	99
44) Trichloroethene	7.123	130	128508	99.337	ug/l	94
45) 1,2-Dichloropropane	7.428	63	119796	100.085	ug/l	98
46) Dibromomethane	7.580	93	96835	100.961	ug/l	100
47) Bromodichloromethane	7.818	83	194900	103.358	ug/l	100
48) Methyl methacrylate	7.696	41	155545	100.579	ug/l	99
49) 1,4-Dioxane	7.665	88	65463	2115.486	ug/l	94
51) 4-Methyl-2-Pentanone	8.574	43	949403	489.895	ug/l	98
52) Toluene	8.714	92	299543	97.992	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	197637	105.474	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	205366	102.187	ug/l	99
55) 1,1,2-Trichloroethane	9.153	97	118068	97.188	ug/l	98
56) Ethyl methacrylate	9.116	69	207130	104.287	ug/l	99
57) 1,3-Dichloropropane	9.305	76	201674	97.469	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	467003	521.639	ug/l	100
59) 2-Hexanone	9.433	43	731495	499.135	ug/l	99
60) Dibromochloromethane	9.519	129	145324	103.115	ug/l	99
61) 1,2-Dibromoethane	9.610	107	127659	97.805	ug/l	99
64) Tetrachloroethene	9.275	164	107805	99.341	ug/l	96
65) Chlorobenzene	10.079	112	333155	99.085	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	121949	102.572	ug/l	100
67) Ethyl Benzene	10.195	91	580822	99.941	ug/l	98
68) m/p-Xylenes	10.299	106	432683	197.007	ug/l	100
69) o-Xylene	10.640	106	214230	98.161	ug/l	99
70) Styrene	10.653	104	364074	102.936	ug/l	100
71) Bromoform	10.799	173	101163	111.075	ug/l #	100
73) Isopropylbenzene	10.963	105	562564	97.124	ug/l	99
74) N-amyl acetate	10.842	43	278524	101.295	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	184407	97.728	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	156943m	95.223	ug/l	
77) Bromobenzene	11.195	156	134268	95.254	ug/l	99
78) n-propylbenzene	11.305	91	633758	99.668	ug/l	99
79) 2-Chlorotoluene	11.366	91	388550	95.047	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	464278	97.169	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	67257	105.480	ug/l	99
82) 4-Chlorotoluene	11.451	91	447499	96.094	ug/l	98
83) tert-Butylbenzene	11.713	119	479757	97.461	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	469104	97.577	ug/l	99
85) sec-Butylbenzene	11.890	105	580879	99.543	ug/l	99
86) p-Isopropyltoluene	12.006	119	492446	101.148	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	248167	99.944	ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	248050	96.895	ug/l	98
89) n-Butylbenzene	12.329	91	438563	107.598	ug/l	99
90) Hexachloroethane	12.536	117	97252	106.512	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	243738	95.984	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	48321	104.886	ug/l	97
93) 1,2,4-Trichlorobenzene	13.585	180	157643	107.684	ug/l	99
94) Hexachlorobutadiene	13.725	225	60269	103.851	ug/l	96
95) Naphthalene	13.774	128	561375	104.311	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	157298	104.140	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
Data File : VX043211.D
Acq On : 01 Oct 2024 13:08
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :John Carlone 10/02/2024
Supervised By :Semsettin Yesilyurt 10/02/2024

Quant Time: Oct 02 03:06:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 02:49:43 2024
Response via : Initial Calibration

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

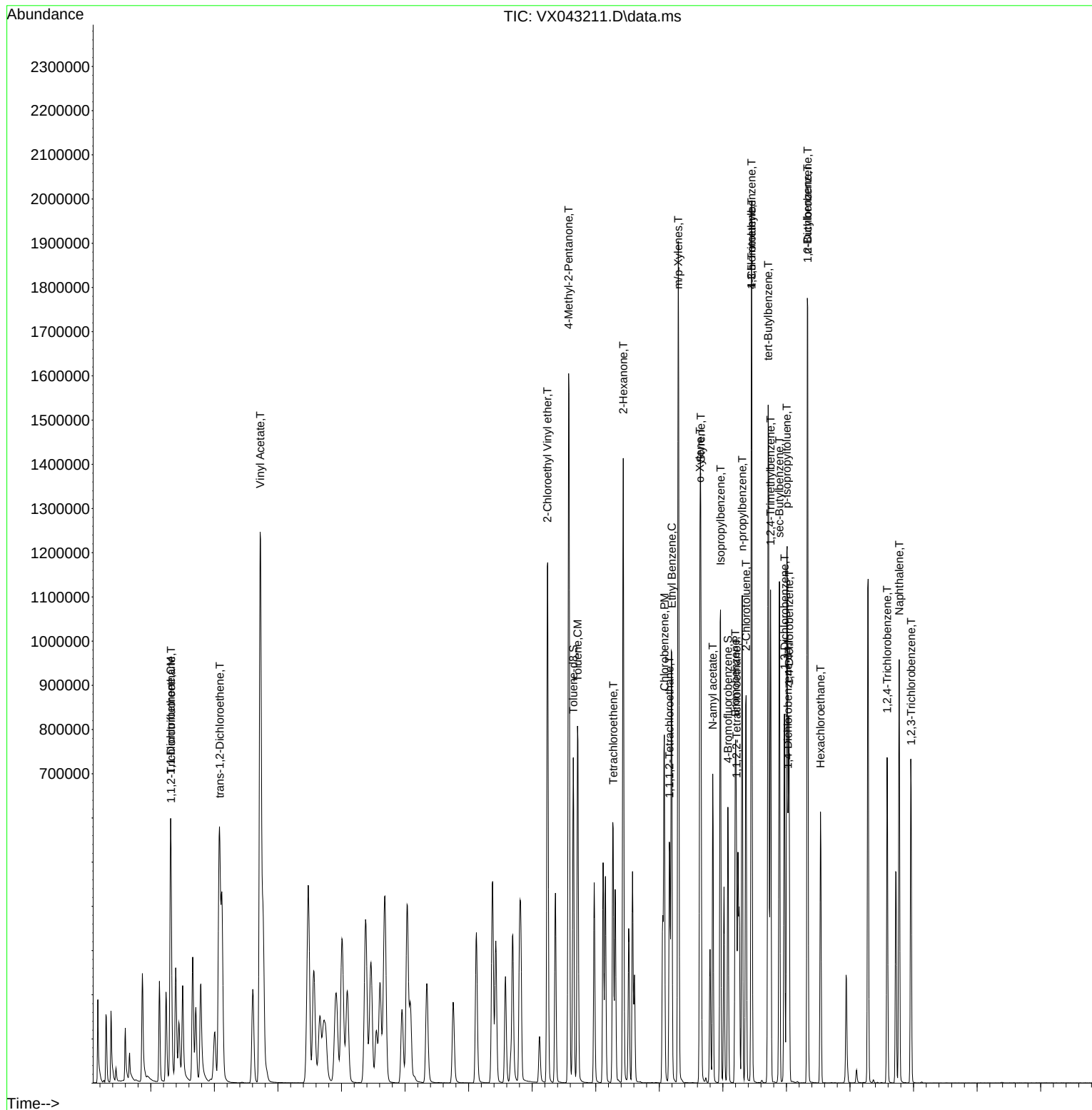
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
Data File : VX043211.D
Acq On    : 01 Oct 2024 13:08
Operator  : JC/MD
Sample    : VSTDICC100
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 9   Sample Multiplier: 1
```

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/02/2024
Supervised By :Semsettin Yesilyurt 10/02/2024

Quant Time: Oct 02 03:06:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 02:49:43 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
 Data File : VX043212.D
 Acq On : 01 Oct 2024 13:31
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Oct 02 03:07:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 02:49:43 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/02/2024
 Supervised By : Semsettin Yesilyurt 10/02/2024

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	96540	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	170430	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	141536	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	67395	50.000	ug/l	# 0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.952	65	260537	165.248	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 330.500%#	
35) Dibromofluoromethane	5.385	113	196329	167.038	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 334.080%#	
50) Toluene-d8	8.647	98	663860	162.985	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 325.960%#	
62) 4-Bromofluorobenzene	11.079	95	245454	165.876	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 331.760%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	189371	168.638	ug/l	96
3) Chloromethane	1.294	50	182201	157.542	ug/l	99
4) Vinyl Chloride	1.374	62	192240	165.948	ug/l	98
5) Bromomethane	1.599	94	79744	168.492	ug/l	97
6) Chloroethane	1.666	64	62260	144.323	ug/l	100
7) Trichlorofluoromethane	1.867	101	274466	158.573	ug/l	97
8) Diethyl Ether	2.136	74	109272	162.229	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	177383	164.223	ug/l	99
10) Methyl Iodide	2.440	142	214362	158.007	ug/l	97
11) Tert butyl alcohol	3.014	59	246905m	732.664	ug/l	
12) 1,1-Dichloroethene	2.306	96	174881	163.044	ug/l	96
13) Acrolein	2.239	56	236895	835.976	ug/l	97
14) Allyl chloride	2.660	41	266167	151.044	ug/l	98
15) Acrylonitrile	3.075	53	478930	781.750	ug/l	100
16) Acetone	2.392	43	455348	691.577	ug/l	100
17) Carbon Disulfide	2.501	76	437768	167.798	ug/l	98
18) Methyl Acetate	2.709	43	273600	165.645	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	626017	163.135	ug/l	100
20) Methylene Chloride	2.788	84	188934	155.631	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	176016	164.887	ug/l	95
22) Diisopropyl ether	3.770	45	575491	162.367	ug/l	88
23) Vinyl Acetate	3.727	43	3520717	940.027	ug/l	100
24) 1,1-Dichloroethane	3.605	63	337802	163.595	ug/l	99
25) 2-Butanone	4.568	43	691799	766.295	ug/l	99
26) 2,2-Dichloropropane	4.471	77	313374	159.510	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	217139	163.101	ug/l	98
28) Bromochloromethane	4.897	49	121651	149.334	ug/l	100
29) Tetrahydrofuran	5.007	42	443722	771.539	ug/l	100
30) Chloroform	5.092	83	359608	158.587	ug/l	100
31) Cyclohexane	5.464	56	265725	156.194	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	339695	163.097	ug/l	100
36) 1,1-Dichloropropene	5.690	75	237480	159.935	ug/l	100
37) Ethyl Acetate	4.721	43	278389	152.444	ug/l	99
38) Carbon Tetrachloride	5.672	117	289222	164.537	ug/l	97
39) Methylcyclohexane	7.379	83	301837	161.626	ug/l	98
40) Benzene	6.031	78	710354	157.791	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
 Data File : VX043212.D
 Acq On : 01 Oct 2024 13:31
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Oct 02 03:07:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 02:49:43 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 10/02/2024
 Supervised By :Semsettin Yesilyurt 10/02/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	150720	160.400	ug/l	98
42) 1,2-Dichloroethane	6.086	62	291165	158.716	ug/l	99
43) Isopropyl Acetate	6.342	43	475118	161.319	ug/l	100
44) Trichloroethene	7.123	130	191664	160.514	ug/l	96
45) 1,2-Dichloropropane	7.427	63	176954	160.170	ug/l	96
46) Dibromomethane	7.580	93	145541	164.398	ug/l	99
47) Bromodichloromethane	7.818	83	291656	167.570	ug/l	99
48) Methyl methacrylate	7.696	41	230420	161.422	ug/l	99
49) 1,4-Dioxane	7.665	88	92122	3225.293	ug/l	96
51) 4-Methyl-2-Pentanone	8.580	43	1372632	767.357	ug/l	99
52) Toluene	8.720	92	442285	156.756	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	296886	171.656	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	308283	166.191	ug/l	98
55) 1,1,2-Trichloroethane	9.153	97	174250	155.398	ug/l	99
56) Ethyl methacrylate	9.116	69	304727	166.223	ug/l	100
57) 1,3-Dichloropropane	9.305	76	294886	154.406	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.244	63	680675	823.725	ug/l	100
59) 2-Hexanone	9.433	43	1053492	778.806	ug/l	99
60) Dibromochloromethane	9.518	129	219617	168.826	ug/l	100
61) 1,2-Dibromoethane	9.610	107	190120	157.809	ug/l	99
64) Tetrachloroethene	9.275	164	157433	160.304	ug/l	95
65) Chlorobenzene	10.079	112	489983	161.027	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.165	131	181918	169.075	ug/l	100
67) Ethyl Benzene	10.195	91	858875	163.301	ug/l	96
68) m/p-Xylenes	10.299	106	641004	322.499	ug/l	99
69) o-Xylene	10.640	106	317290	160.647	ug/l	97
70) Styrene	10.652	104	535839	167.404	ug/l	100
71) Bromoform	10.799	173	152184	184.637	ug/l #	100
73) Isopropylbenzene	10.963	105	823850	157.231	ug/l	99
74) N-amyl acetate	10.841	43	411410	165.400	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	269370	157.807	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	226727m	152.068	ug/l	
77) Bromobenzene	11.195	156	200979	157.614	ug/l	99
78) n-propylbenzene	11.305	91	942879	163.917	ug/l	100
79) 2-Chlorotoluene	11.366	91	569702	154.054	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	681544	157.681	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	99750	172.933	ug/l	99
82) 4-Chlorotoluene	11.451	91	665390	157.949	ug/l	99
83) tert-Butylbenzene	11.713	119	696580	156.429	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	688086	158.218	ug/l	98
85) sec-Butylbenzene	11.890	105	858652	162.659	ug/l	99
86) p-Isopropyltoluene	12.006	119	723935	164.374	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	367680	163.688	ug/l	98
88) 1,4-Dichlorobenzene	12.042	146	368501	159.124	ug/l	98
89) n-Butylbenzene	12.329	91	659704	178.919	ug/l	100
90) Hexachloroethane	12.536	117	148993	180.384	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	354798	154.451	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	70888	170.094	ug/l	96
93) 1,2,4-Trichlorobenzene	13.585	180	240562	181.650	ug/l	100
94) Hexachlorobutadiene	13.725	225	87961	167.549	ug/l	95
95) Naphthalene	13.774	128	842340	173.021	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	238370	174.454	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
Data File : VX043212.D
Acq On : 01 Oct 2024 13:31
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/02/2024
Supervised By :Semsettin Yesilyurt 10/02/2024

Quant Time: Oct 02 03:07:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 02:49:43 2024
Response via : Initial Calibration

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

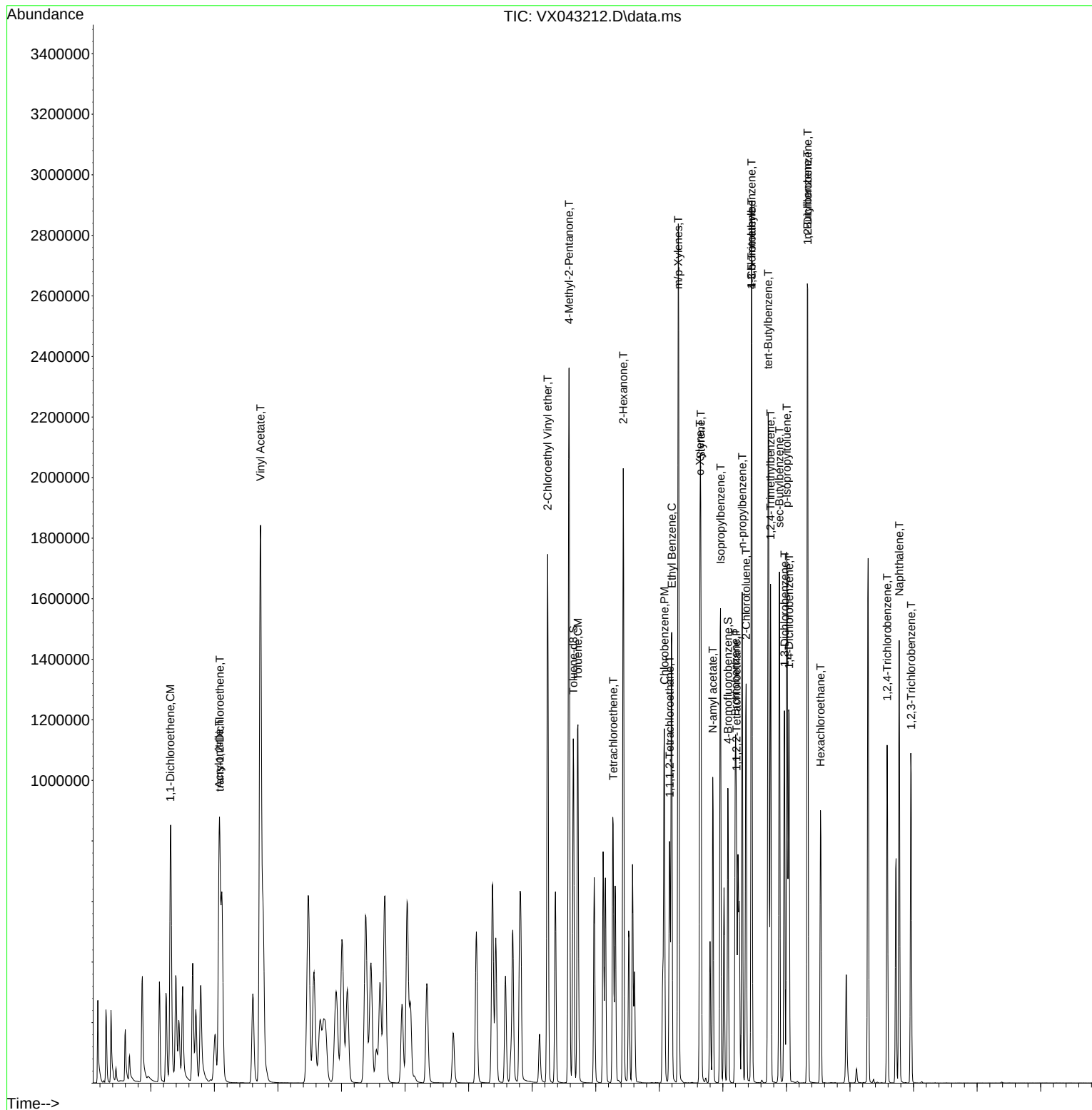
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
Data File : VX043212.D
Acq On : 01 Oct 2024 13:31
Operator : JC/MD
Sample : VSTDIC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/02/2024
Supervised By :Semsettin Yesilyurt 10/02/2024

Quant Time: Oct 02 03:07:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 02:49:43 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
 Data File : VX043214.D
 Acq On : 01 Oct 2024 14:38
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVVX100124

Quant Time: Oct 02 16:52:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:50:57 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 10/02/2024
 Supervised By :Semsettin Yesilyurt 10/02/2024

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	109884	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	187693	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	161490	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	75543	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	89760	50.017	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	100.040%
35) Dibromofluoromethane	5.379	113	66575	51.433	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.860%
50) Toluene-d8	8.647	98	228448	50.928	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.860%
62) 4-Bromofluorobenzene	11.079	95	84489	51.846	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	68776	53.809	ug/l	98
3) Chloromethane	1.295	50	64987	49.368	ug/l	100
4) Vinyl Chloride	1.374	62	67241	50.996	ug/l	98
5) Bromomethane	1.599	94	26690	49.545	ug/l	99
6) Chloroethane	1.666	64	24111	49.104	ug/l	100
7) Trichlorofluoromethane	1.868	101	97836	49.661	ug/l	99
8) Diethyl Ether	2.136	74	38790	50.595	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	65410	53.203	ug/l	100
10) Methyl Iodide	2.441	142	78646	50.930	ug/l	99
11) Tert butyl alcohol	2.995	59	92524	270.936	ug/l	99
12) 1,1-Dichloroethene	2.307	96	61385	50.280	ug/l	91
13) Acrolein	2.240	56	82707	256.421	ug/l	97
14) Allyl chloride	2.654	41	100699	50.205	ug/l	97
15) Acrylonitrile	3.069	53	177625	254.726	ug/l	100
16) Acetone	2.386	43	181804	242.590	ug/l	99
17) Carbon Disulfide	2.502	76	150408	50.651	ug/l	99
18) Methyl Acetate	2.703	43	101260	53.861	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	226977	51.966	ug/l	100
20) Methylene Chloride	2.782	84	68280	49.414	ug/l	96
21) trans-1,2-Dichloroethene	3.081	96	63544	52.298	ug/l	95
22) Diisopropyl ether	3.758	45	206654	51.224	ug/l	95
23) Vinyl Acetate	3.715	43	1270615	270.423	ug/l	99
24) 1,1-Dichloroethane	3.605	63	121052	51.505	ug/l	99
25) 2-Butanone	4.556	43	263027	255.970	ug/l	100
26) 2,2-Dichloropropane	4.465	77	115562	51.679	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	77895	51.404	ug/l	99
28) Bromochloromethane	4.891	49	40560	43.743	ug/l	99
29) Tetrahydrofuran	5.001	42	164137	250.741	ug/l	99
30) Chloroform	5.087	83	130771	50.667	ug/l	98
31) Cyclohexane	5.458	56	96822	50.001	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	122362	51.615	ug/l	100
36) 1,1-Dichloropropene	5.684	75	85599	52.346	ug/l	100
37) Ethyl Acetate	4.709	43	103323	52.615	ug/l	99
38) Carbon Tetrachloride	5.672	117	103282	53.353	ug/l	98
39) Methylcyclohexane	7.373	83	110188	53.576	ug/l	99
40) Benzene	6.032	78	257830	52.004	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
 Data File : VX043214.D
 Acq On : 01 Oct 2024 14:38
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVVX100124

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/02/2024
 Supervised By : Semsettin Yesilyurt 10/02/2024

Quant Time: Oct 02 16:52:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:50:57 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	54654	53.466	ug/l	98
42) 1,2-Dichloroethane	6.080	62	105799	52.367	ug/l	99
43) Isopropyl Acetate	6.336	43	172149	53.074	ug/l	100
44) Trichloroethene	7.117	130	68086	51.776	ug/l	97
45) 1,2-Dichloropropane	7.428	63	62937	51.728	ug/l	95
46) Dibromomethane	7.574	93	51501	52.823	ug/l	99
47) Bromodichloromethane	7.818	83	102493	53.471	ug/l	98
48) Methyl methacrylate	7.690	41	82604	51.904	ug/l	99
49) 1,4-Dioxane	7.659	88	34029	1099.966	ug/l	96
51) 4-Methyl-2-Pentanone	8.574	43	514808	261.329	ug/l	99
52) Toluene	8.714	92	164758	53.023	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	104868	55.057	ug/l	97
54) cis-1,3-Dichloropropene	8.360	75	109879	53.786	ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	65146	52.754	ug/l	98
56) Ethyl methacrylate	9.116	69	110542	54.753	ug/l	99
57) 1,3-Dichloropropane	9.305	76	109369	52.000	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	250352	275.100	ug/l	100
59) 2-Hexanone	9.427	43	393666	264.256	ug/l	100
60) Dibromochloromethane	9.519	129	77238	53.914	ug/l	99
61) 1,2-Dibromoethane	9.610	107	69569	52.434	ug/l	100
64) Tetrachloroethene	9.269	164	58578	52.276	ug/l	96
65) Chlorobenzene	10.080	112	180351	51.947	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	65926	53.701	ug/l	100
67) Ethyl Benzene	10.189	91	318258	53.034	ug/l	99
68) m/p-Xylenes	10.299	106	239994	105.825	ug/l	100
69) o-Xylene	10.640	106	116110	51.524	ug/l	100
70) Styrene	10.653	104	196047	53.680	ug/l	100
71) Bromoform	10.799	173	52408	55.727	ug/l #	100
73) Isopropylbenzene	10.957	105	307411	52.341	ug/l	99
74) N-amyl acetate	10.842	43	143997	51.647	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.214	83	97972	51.205	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	84958m	50.702	ug/l	
77) Bromobenzene	11.195	156	72516	50.736	ug/l	98
78) n-propylbenzene	11.299	91	349447	54.198	ug/l	100
79) 2-Chlorotoluene	11.360	91	213003	51.386	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	254035	52.434	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	33616	51.993	ug/l	99
82) 4-Chlorotoluene	11.451	91	244253	51.727	ug/l	99
83) tert-Butylbenzene	11.713	119	258173	51.724	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	254721	52.253	ug/l	98
85) sec-Butylbenzene	11.890	105	316619	53.509	ug/l	100
86) p-Isopropyltoluene	12.006	119	267408	54.168	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	131623	52.277	ug/l	98
88) 1,4-Dichlorobenzene	12.037	146	131413	50.625	ug/l	99
89) n-Butylbenzene	12.329	91	232978	56.371	ug/l	99
90) Hexachloroethane	12.536	117	50848	54.921	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	130444	50.660	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	24035	51.451	ug/l	96
93) 1,2,4-Trichlorobenzene	13.585	180	81389	54.829	ug/l	99
94) Hexachlorobutadiene	13.725	225	32646	55.477	ug/l	98
95) Naphthalene	13.774	128	286076	52.424	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	82876	54.112	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
Data File : VX043214.D
Acq On : 01 Oct 2024 14:38
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX100124

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/02/2024
Supervised By :Semsettin Yesilyurt 10/02/2024

Quant Time: Oct 02 16:52:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

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

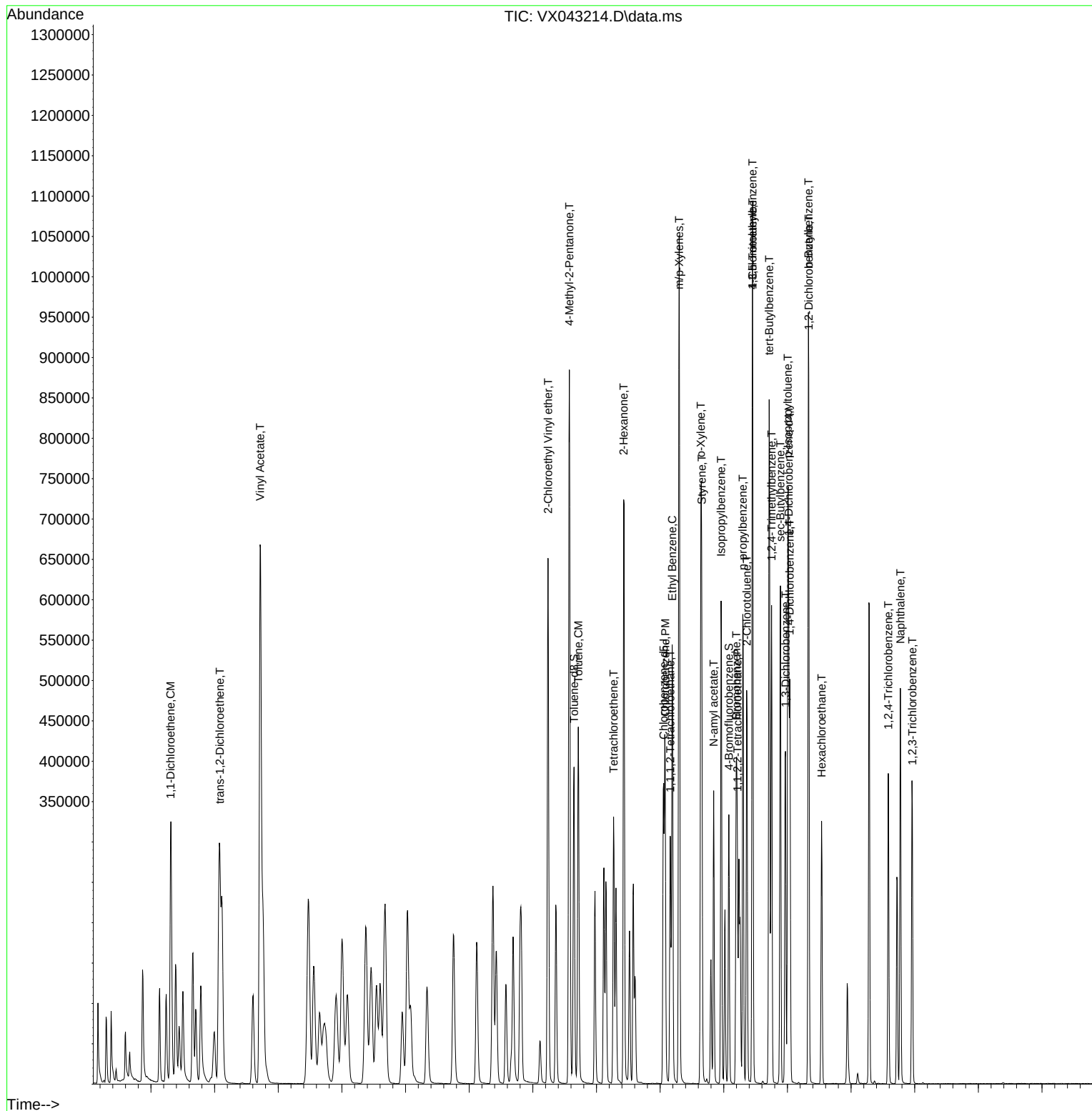
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
Data File : VX043214.D
Acq On : 01 Oct 2024 14:38
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX100124

Quant Time: Oct 02 16:52:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/02/2024
Supervised By :Semsettin Yesilyurt 10/02/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
 Data File : VX043214.D
 Acq On : 01 Oct 2024 14:38
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX100124

Quant Time: Oct 02 16:52:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:50:57 2024
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	102	0.00
2 T	Dichlorodifluoromethane	0.582	0.626	-7.6	107	0.00
3 P	Chloromethane	0.599	0.591	1.3	101	0.00
4 C	Vinyl Chloride	0.600	0.612	-2.0#	104	0.00
5 T	Bromomethane	0.245	0.243	0.8	104	0.00
6 T	Chloroethane	0.223	0.219	1.8	100	0.00
7 T	Trichlorofluoromethane	0.896	0.890	0.7	105	0.00
8 T	Diethyl Ether	0.349	0.353	-1.1	105	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.559	0.595	-6.4	109	0.00
10 T	Methyl Iodide	0.703	0.716	-1.8	102	0.00
11 T	Tert butyl alcohol	0.155	0.168	-8.4	108	0.00
12 CM	1,1-Dichloroethene	0.556	0.559	-0.5#	104	0.00
13 T	Acrolein	0.147	0.151	-2.7	105	0.00
14 T	Allyl chloride	0.913	0.916	-0.3	103	0.00
15 T	Acrylonitrile	0.317	0.323	-1.9	103	0.00
16 T	Acetone	0.341	0.331	2.9	107	0.00
17 T	Carbon Disulfide	1.351	1.369	-1.3	106	0.00
18 T	Methyl Acetate	0.855	0.922	-7.8	106	0.00
19 T	Methyl tert-butyl Ether	1.987	2.066	-4.0	106	0.00
20 T	Methylene Chloride	0.629	0.621	1.3	104	0.00
21 T	trans-1,2-Dichloroethene	0.553	0.578	-4.5	107	0.00
22 T	Diisopropyl ether	1.836	1.881	-2.5	105	0.00
23 T	Vinyl Acetate	1.940	2.313	-19.2	105	0.00
24 P	1,1-Dichloroethane	1.069	1.102	-3.1	105	0.00
25 T	2-Butanone	0.468	0.479	-2.4	104	0.00
26 T	2,2-Dichloropropane	1.018	1.052	-3.3	107	0.00
27 T	cis-1,2-Dichloroethene	0.690	0.709	-2.8	106	0.00
28 T	Bromochloromethane	0.422	0.369	12.6	93	0.00
29 T	Tetrahydrofuran	0.298	0.299	-0.3	105	0.00
30 C	Chloroform	1.174	1.190	-1.4#	106	0.00
31 T	Cyclohexane	0.881	0.881	0.0	105	0.00
32 T	1,1,1-Trichloroethane	1.079	1.114	-3.2	105	0.00
33 S	1,2-Dichloroethane-d4	0.817	0.817	0.0	103	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
35 S	Dibromofluoromethane	0.345	0.355	-2.9	104	0.00
36 T	1,1-Dichloropropene	0.436	0.456	-4.6	105	0.00
37 T	Ethyl Acetate	0.523	0.550	-5.2	106	0.00
38 T	Carbon Tetrachloride	0.516	0.550	-6.6	105	0.00
39 T	Methylcyclohexane	0.548	0.587	-7.1	107	0.00
40 TM	Benzene	1.321	1.374	-4.0	105	0.00
41 T	Methacrylonitrile	0.272	0.291	-7.0	101	-0.01
42 TM	1,2-Dichloroethane	0.538	0.564	-4.8	104	0.00
43 T	Isopropyl Acetate	0.864	0.917	-6.1	103	0.00
44 TM	Trichloroethene	0.350	0.363	-3.7	106	0.00
45 C	1,2-Dichloropropane	0.324	0.335	-3.4#	103	0.00
46 T	Dibromomethane	0.260	0.274	-5.4	105	0.00
47 T	Bromodichloromethane	0.511	0.546	-6.8	104	0.00
48 T	Methyl methacrylate	0.424	0.440	-3.8	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
 Data File : VX043214.D
 Acq On : 01 Oct 2024 14:38
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX100124

Quant Time: Oct 02 16:52:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:50:57 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	0.009	-12.5	107	0.00
50 S	Toluene-d8	1.195	1.217	-1.8	100	0.00
51 T	4-Methyl-2-Pentanone	0.525	0.549	-4.6	101	0.00
52 CM	Toluene	0.828	0.878	-6.0#	104	0.00
53 T	t-1,3-Dichloropropene	0.507	0.559	-10.3	103	0.00
54 T	cis-1,3-Dichloropropene	0.544	0.585	-7.5	105	0.00
55 T	1,1,2-Trichloroethane	0.329	0.347	-5.5	102	0.00
56 T	Ethyl methacrylate	0.538	0.589	-9.5	102	0.00
57 T	1,3-Dichloropropane	0.560	0.583	-4.1	101	0.00
58 T	2-Chloroethyl Vinyl ether	0.242	0.267	-10.3	101	0.00
59 T	2-Hexanone	0.397	0.419	-5.5	102	0.00
60 T	Dibromochloromethane	0.382	0.412	-7.9	101	0.00
61 T	1,2-Dibromoethane	0.353	0.371	-5.1	102	0.00
62 S	4-Bromofluorobenzene	0.434	0.450	-3.7	100	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
64 T	Tetrachloroethene	0.347	0.363	-4.6	103	0.00
65 PM	Chlorobenzene	1.075	1.117	-3.9	103	0.00
66 T	1,1,1,2-Tetrachloroethane	0.380	0.408	-7.4	102	0.00
67 C	Ethyl Benzene	1.858	1.971	-6.1#	102	0.00
68 T	m/p-Xylenes	0.702	0.743	-5.8	103	0.00
69 T	o-Xylene	0.698	0.719	-3.0	101	0.00
70 T	Styrene	1.131	1.214	-7.3	102	0.00
71 P	Bromoform	0.291	0.325	-11.7	104	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73 T	Isopropylbenzene	3.887	4.069	-4.7	102	0.00
74 T	N-amyl acetate	1.845	1.906	-3.3	101	0.00
75 P	1,1,2,2-Tetrachloroethane	1.266	1.297	-2.4	101	0.00
76 T	1,2,3-Trichloropropane	1.109	1.125	-1.4	102	0.00
77 T	Bromobenzene	0.946	0.960	-1.5	101	0.00
78 T	n-propylbenzene	4.268	4.626	-8.4	103	0.00
79 T	2-Chlorotoluene	2.744	2.820	-2.8	103	0.00
80 T	1,3,5-Trimethylbenzene	3.207	3.363	-4.9	103	0.00
81 T	trans-1,4-Dichloro-2-butene	0.428	0.445	-4.0	104	0.00
82 T	4-Chlorotoluene	3.125	3.233	-3.5	103	0.00
83 T	tert-Butylbenzene	3.304	3.418	-3.5	102	0.00
84 T	1,2,4-Trimethylbenzene	3.226	3.372	-4.5	102	0.00
85 T	sec-Butylbenzene	3.916	4.191	-7.0	104	0.00
86 T	p-Isopropyltoluene	3.267	3.540	-8.4	105	0.00
87 T	1,3-Dichlorobenzene	1.666	1.742	-4.6	104	0.00
88 T	1,4-Dichlorobenzene	1.718	1.740	-1.3	104	0.00
89 T	n-Butylbenzene	2.735	3.084	-12.8	106	0.00
90 T	Hexachloroethane	0.613	0.673	-9.8	104	0.00
91 T	1,2-Dichlorobenzene	1.704	1.727	-1.3	102	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.309	0.318	-2.9	100	0.00
93 T	1,2,4-Trichlorobenzene	0.983	1.077	-9.6	105	0.00
94 T	Hexachlorobutadiene	0.389	0.432	-11.1	105	0.00
95 T	Naphthalene	3.612	3.787	-4.8	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
Data File : VX043214.D
Acq On : 01 Oct 2024 14:38
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX100124

Quant Time: Oct 02 16:52:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 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	1.014	1.097	-8.2	105	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
Data File : VX043214.D
Acq On : 01 Oct 2024 14:38
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX100124

Quant Time: Oct 02 16:52:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	102	0.00
2 T	Dichlorodifluoromethane	50.000	53.809	-7.6	107	0.00
3 P	Chloromethane	50.000	49.368	1.3	101	0.00
4 C	Vinyl Chloride	50.000	50.996	-2.0#	104	0.00
5 T	Bromomethane	50.000	49.545	0.9	104	0.00
6 T	Chloroethane	50.000	49.104	1.8	100	0.00
7 T	Trichlorofluoromethane	50.000	49.661	0.7	105	0.00
8 T	Diethyl Ether	50.000	50.595	-1.2	105	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	53.203	-6.4	109	0.00
10 T	Methyl Iodide	50.000	50.930	-1.9	102	0.00
11 T	Tert butyl alcohol	250.000	270.936	-8.4	108	0.00
12 CM	1,1-Dichloroethene	50.000	50.280	-0.6#	104	0.00
13 T	Acrolein	250.000	256.421	-2.6	105	0.00
14 T	Allyl chloride	50.000	50.205	-0.4	103	0.00
15 T	Acrylonitrile	250.000	254.726	-1.9	103	0.00
16 T	Acetone	250.000	242.590	3.0	107	0.00
17 T	Carbon Disulfide	50.000	50.651	-1.3	106	0.00
18 T	Methyl Acetate	50.000	53.861	-7.7	106	0.00
19 T	Methyl tert-butyl Ether	50.000	51.966	-3.9	106	0.00
20 T	Methylene Chloride	50.000	49.414	1.2	104	0.00
21 T	trans-1,2-Dichloroethene	50.000	52.298	-4.6	107	0.00
22 T	Diisopropyl ether	50.000	51.224	-2.4	105	0.00
23 T	Vinyl Acetate	250.000	270.423	-8.2	105	0.00
24 P	1,1-Dichloroethane	50.000	51.505	-3.0	105	0.00
25 T	2-Butanone	250.000	255.970	-2.4	104	0.00
26 T	2,2-Dichloropropane	50.000	51.679	-3.4	107	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.404	-2.8	106	0.00
28 T	Bromochloromethane	50.000	43.743	12.5	93	0.00
29 T	Tetrahydrofuran	250.000	250.741	-0.3	105	0.00
30 C	Chloroform	50.000	50.667	-1.3#	106	0.00
31 T	Cyclohexane	50.000	50.001	-0.0	105	0.00
32 T	1,1,1-Trichloroethane	50.000	51.615	-3.2	105	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.017	-0.0	103	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
35 S	Dibromofluoromethane	50.000	51.433	-2.9	104	0.00
36 T	1,1-Dichloropropene	50.000	52.346	-4.7	105	0.00
37 T	Ethyl Acetate	50.000	52.615	-5.2	106	0.00
38 T	Carbon Tetrachloride	50.000	53.353	-6.7	105	0.00
39 T	Methylcyclohexane	50.000	53.576	-7.2	107	0.00
40 TM	Benzene	50.000	52.004	-4.0	105	0.00
41 T	Methacrylonitrile	50.000	53.466	-6.9	101	-0.01
42 TM	1,2-Dichloroethane	50.000	52.367	-4.7	104	0.00
43 T	Isopropyl Acetate	50.000	53.074	-6.1	103	0.00
44 TM	Trichloroethene	50.000	51.776	-3.6	106	0.00
45 C	1,2-Dichloropropane	50.000	51.728	-3.5#	103	0.00
46 T	Dibromomethane	50.000	52.823	-5.6	105	0.00
47 T	Bromodichloromethane	50.000	53.471	-6.9	104	0.00
48 T	Methyl methacrylate	50.000	51.904	-3.8	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
 Data File : VX043214.D
 Acq On : 01 Oct 2024 14:38
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVVX100124

Quant Time: Oct 02 16:52:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:50:57 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	1099.966	-10.0	107	0.00
50 S	Toluene-d8	50.000	50.928	-1.9	100	0.00
51 T	4-Methyl-2-Pentanone	250.000	261.329	-4.5	101	0.00
52 CM	Toluene	50.000	53.023	-6.0#	104	0.00
53 T	t-1,3-Dichloropropene	50.000	55.057	-10.1	103	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.786	-7.6	105	0.00
55 T	1,1,2-Trichloroethane	50.000	52.754	-5.5	102	0.00
56 T	Ethyl methacrylate	50.000	54.753	-9.5	102	0.00
57 T	1,3-Dichloropropane	50.000	52.000	-4.0	101	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	275.100	-10.0	101	0.00
59 T	2-Hexanone	250.000	264.256	-5.7	102	0.00
60 T	Dibromochloromethane	50.000	53.914	-7.8	101	0.00
61 T	1,2-Dibromoethane	50.000	52.434	-4.9	102	0.00
62 S	4-Bromofluorobenzene	50.000	51.846	-3.7	100	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	98	0.00
64 T	Tetrachloroethene	50.000	52.276	-4.6	103	0.00
65 PM	Chlorobenzene	50.000	51.947	-3.9	103	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	53.701	-7.4	102	0.00
67 C	Ethyl Benzene	50.000	53.034	-6.1#	102	0.00
68 T	m/p-Xylenes	100.000	105.825	-5.8	103	0.00
69 T	o-Xylene	50.000	51.524	-3.0	101	0.00
70 T	Styrene	50.000	53.680	-7.4	102	0.00
71 P	Bromoform	50.000	55.727	-11.5	104	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73 T	Isopropylbenzene	50.000	52.341	-4.7	102	0.00
74 T	N-amyl acetate	50.000	51.647	-3.3	101	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	51.205	-2.4	101	0.00
76 T	1,2,3-Trichloropropane	50.000	50.702	-1.4	102	0.00
77 T	Bromobenzene	50.000	50.736	-1.5	101	0.00
78 T	n-propylbenzene	50.000	54.198	-8.4	103	0.00
79 T	2-Chlorotoluene	50.000	51.386	-2.8	103	0.00
80 T	1,3,5-Trimethylbenzene	50.000	52.434	-4.9	103	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	51.993	-4.0	104	0.00
82 T	4-Chlorotoluene	50.000	51.727	-3.5	103	0.00
83 T	tert-Butylbenzene	50.000	51.724	-3.4	102	0.00
84 T	1,2,4-Trimethylbenzene	50.000	52.253	-4.5	102	0.00
85 T	sec-Butylbenzene	50.000	53.509	-7.0	104	0.00
86 T	p-Isopropyltoluene	50.000	54.168	-8.3	105	0.00
87 T	1,3-Dichlorobenzene	50.000	52.277	-4.6	104	0.00
88 T	1,4-Dichlorobenzene	50.000	50.625	-1.3	104	0.00
89 T	n-Butylbenzene	50.000	56.371	-12.7	106	0.00
90 T	Hexachloroethane	50.000	54.921	-9.8	104	0.00
91 T	1,2-Dichlorobenzene	50.000	50.660	-1.3	102	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	51.451	-2.9	100	0.00
93 T	1,2,4-Trichlorobenzene	50.000	54.829	-9.7	105	0.00
94 T	Hexachlorobutadiene	50.000	55.477	-11.0	105	0.00
95 T	Naphthalene	50.000	52.424	-4.8	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
Data File : VX043214.D
Acq On : 01 Oct 2024 14:38
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX100124

Quant Time: Oct 02 16:52:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 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	54.112	-8.2	105	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.: P4397 SAS No.: P4397 SDG No.: P4397
 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.



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.: P4397 SAS No.: P4397 SDG No.: P4397
 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

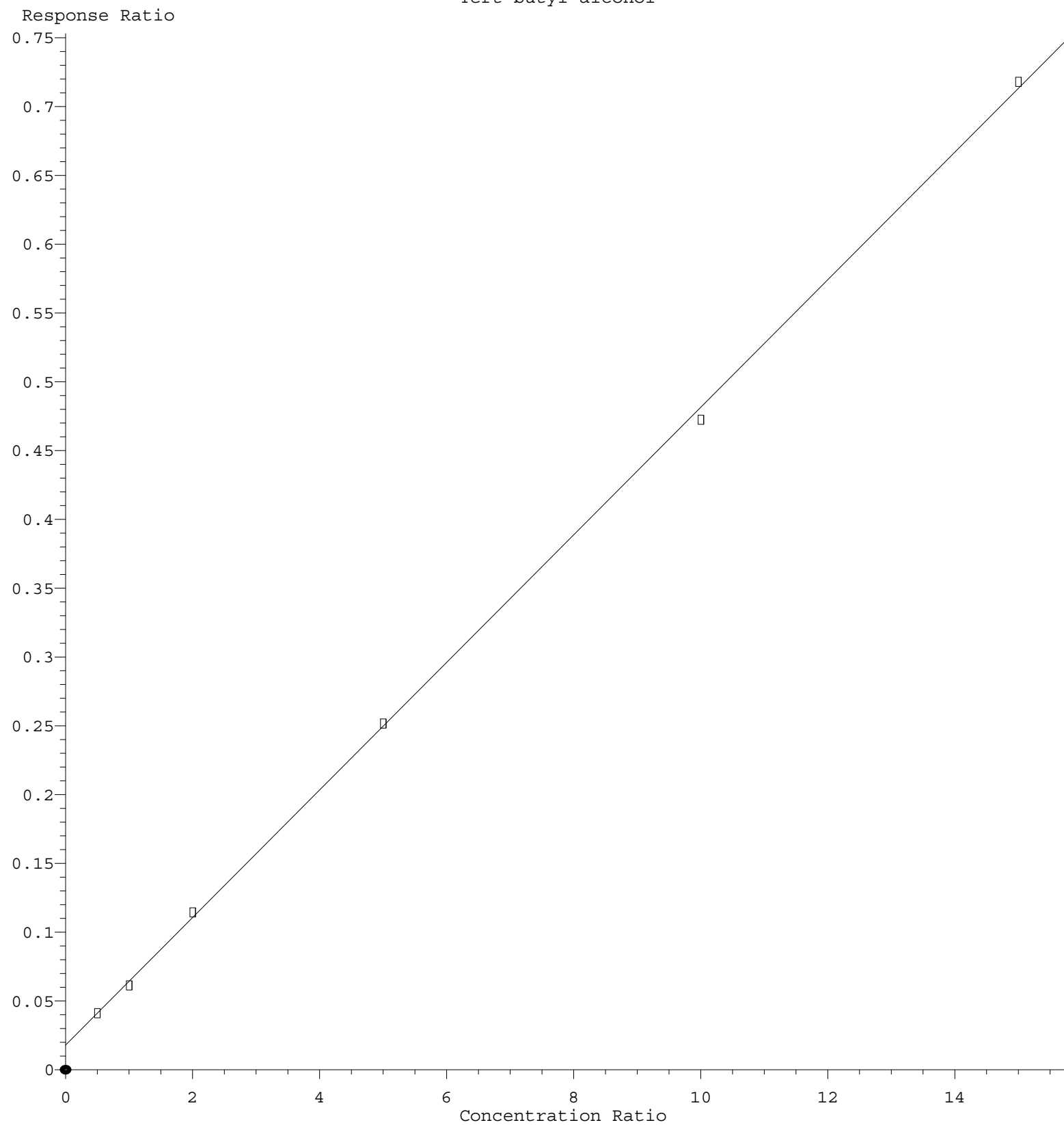
	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.500	0.498	0.410	0.458	0.434	0.492	0.465	8.07
3) P	Chloromethane	0.643	0.637	0.517	0.616	0.550	0.671	0.606	9.80
4) C	Vinyl Chloride	0.707	0.685	0.579	0.688	0.624	0.716	0.667	8.02#
5) T	Bromomethane	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

10/10/2024

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Romaben
Patel

10/10/2024
Supervised By :Mahesh
Dadoda

10/10/2024

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)
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(#) = 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

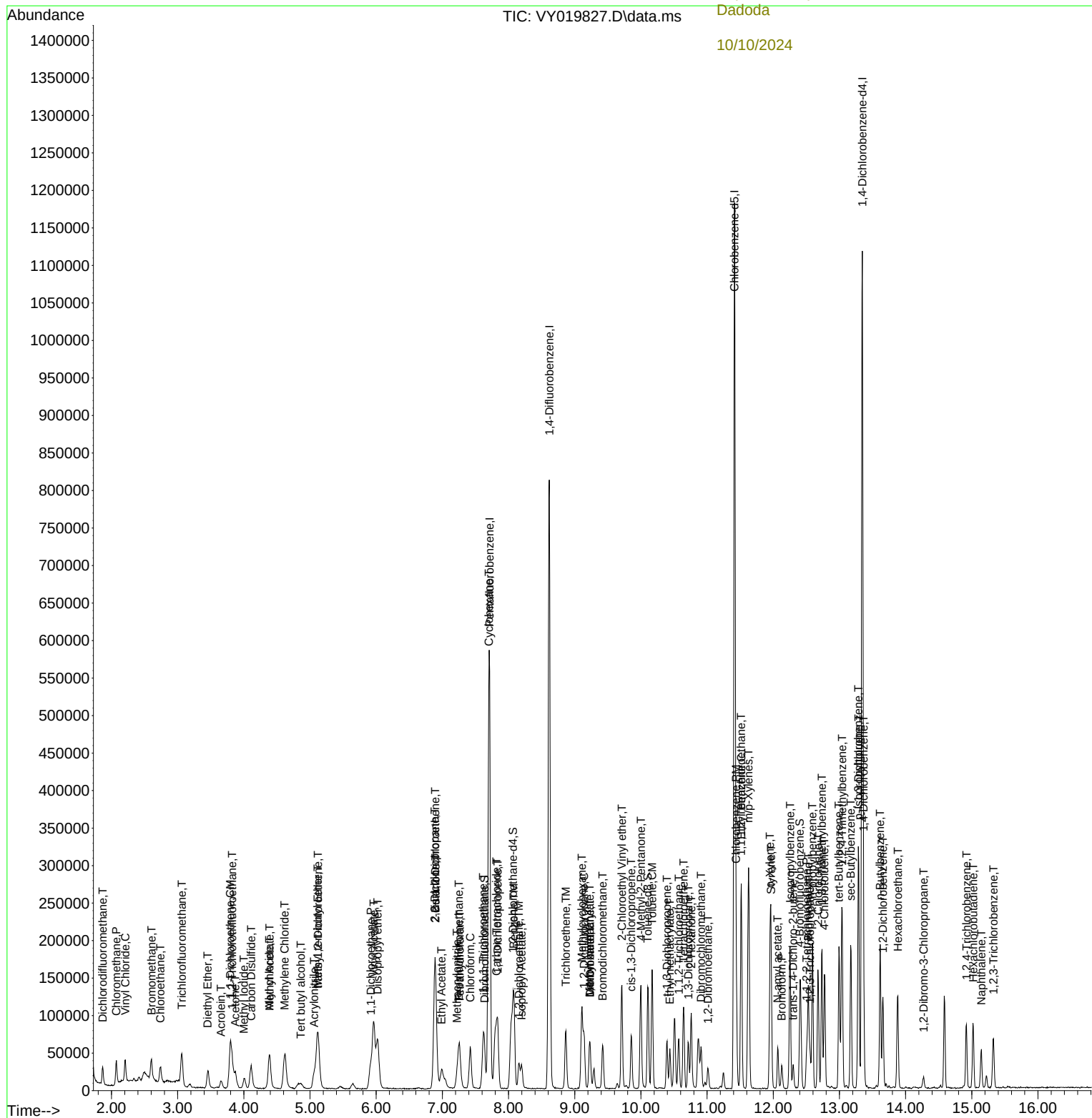
Manual Integrations APPROVED

Reviewed By :Romaben
Patel

10/10/2024
Supervised By :Mahesh
Dadoda

10/10/2024

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



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

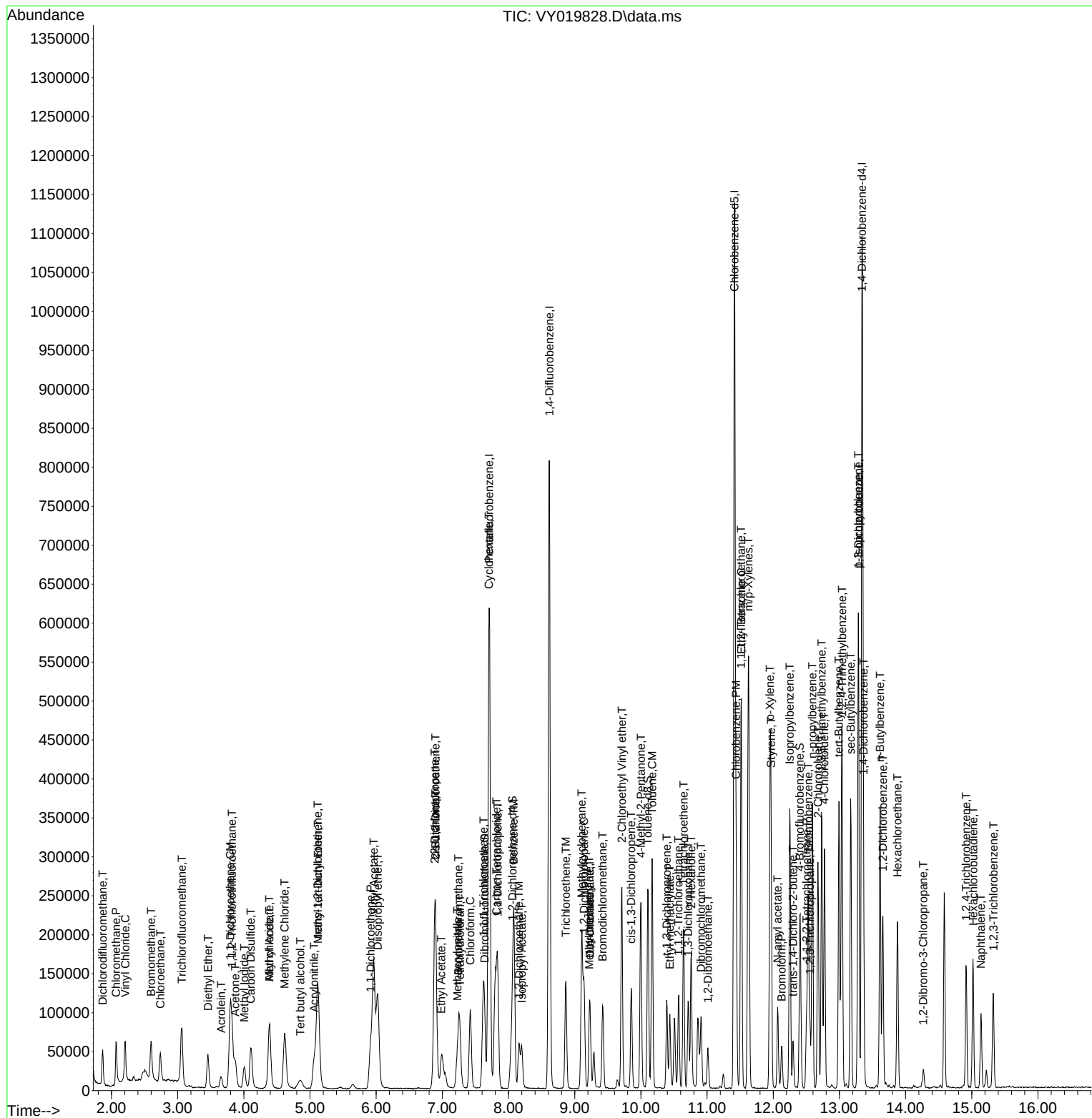
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Data File : VY019828.D
Acq On : 09 Oct 2024 10:41
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

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

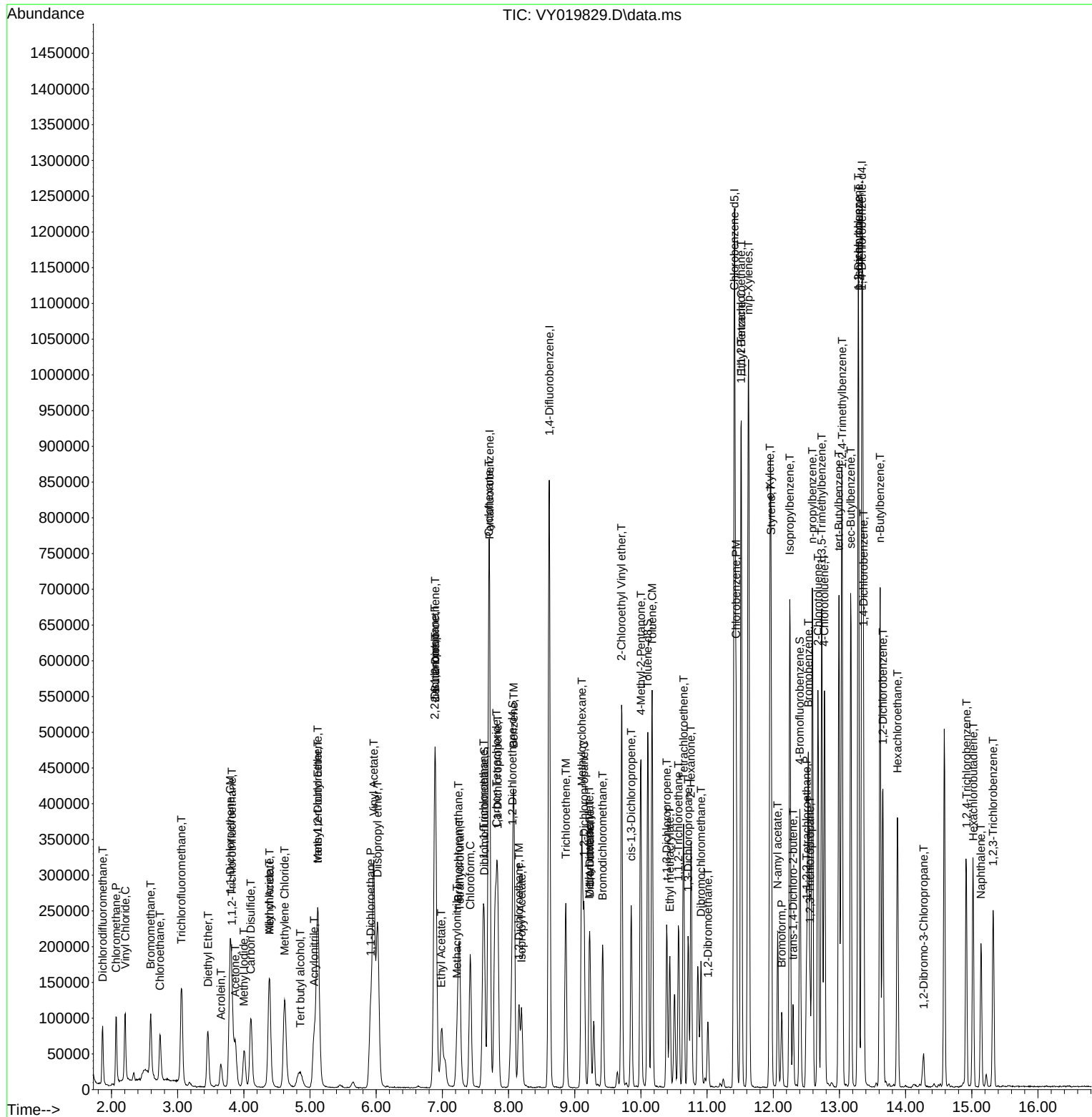
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations

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

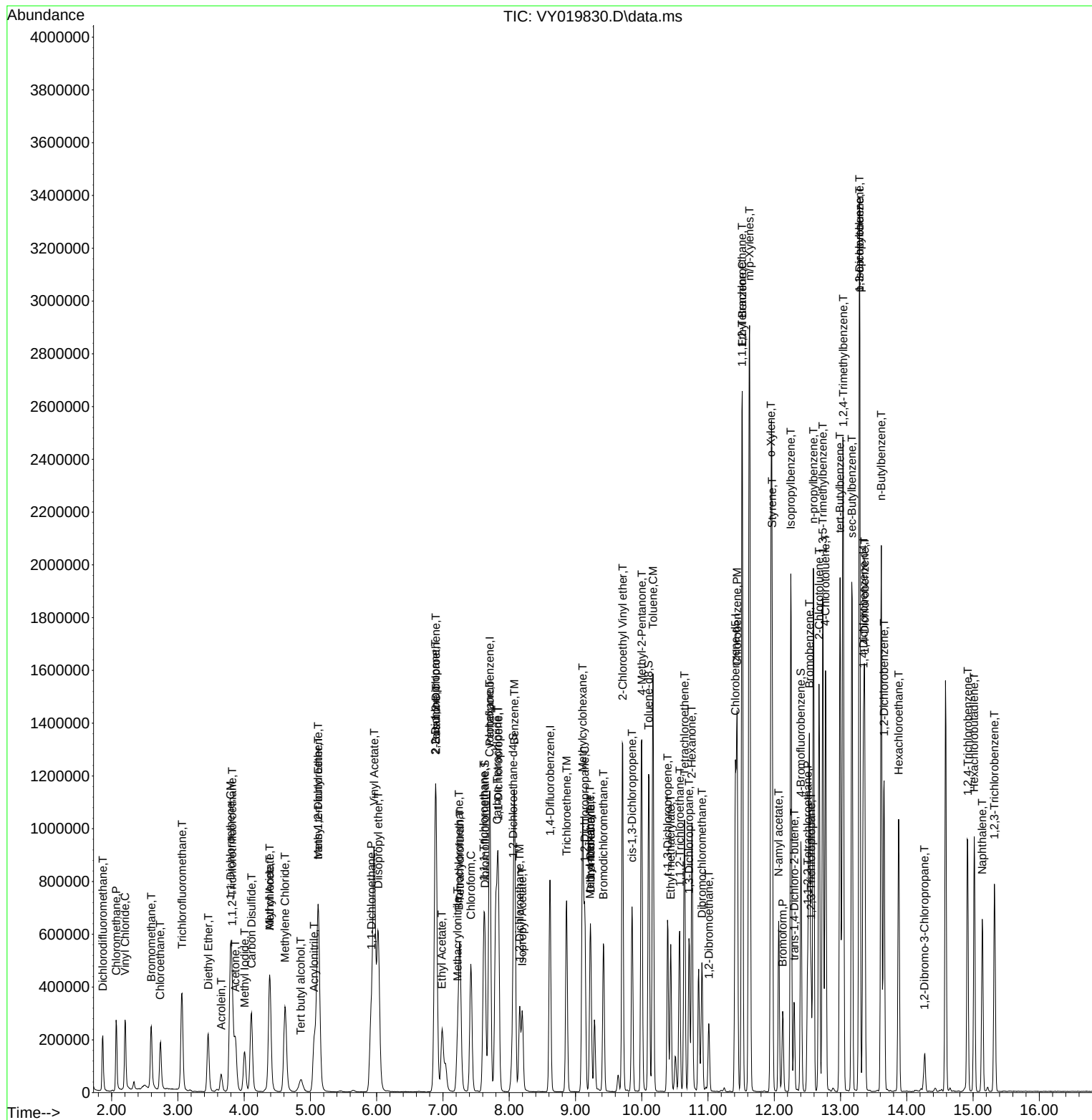
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
Data File : VY019830.D
Acq On : 09 Oct 2024 11:26
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

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

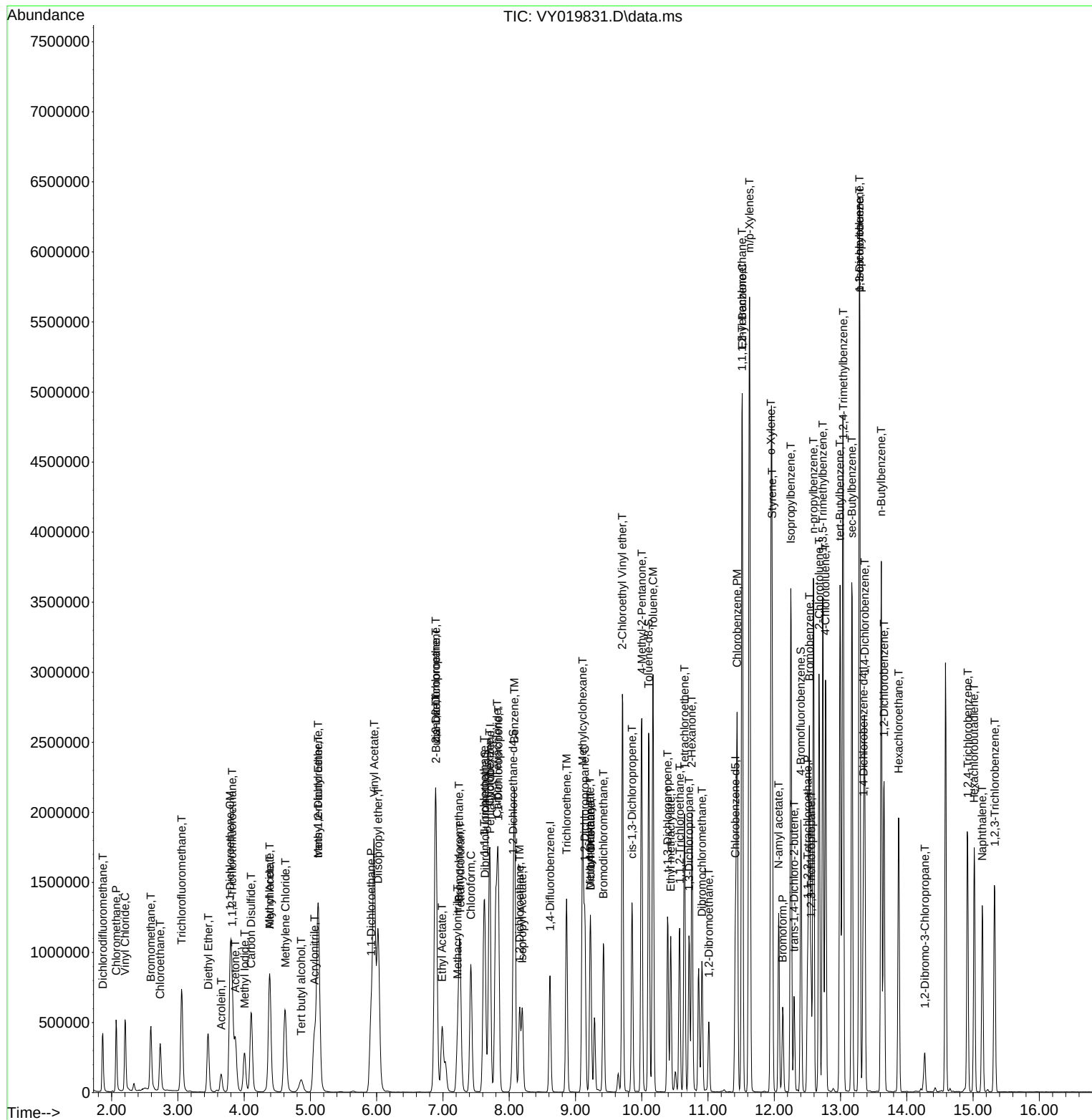
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019831.D
 Acq On : 09 Oct 2024 11:49
 Operator : SY/MD
 Sample : VSTDIC100
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

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

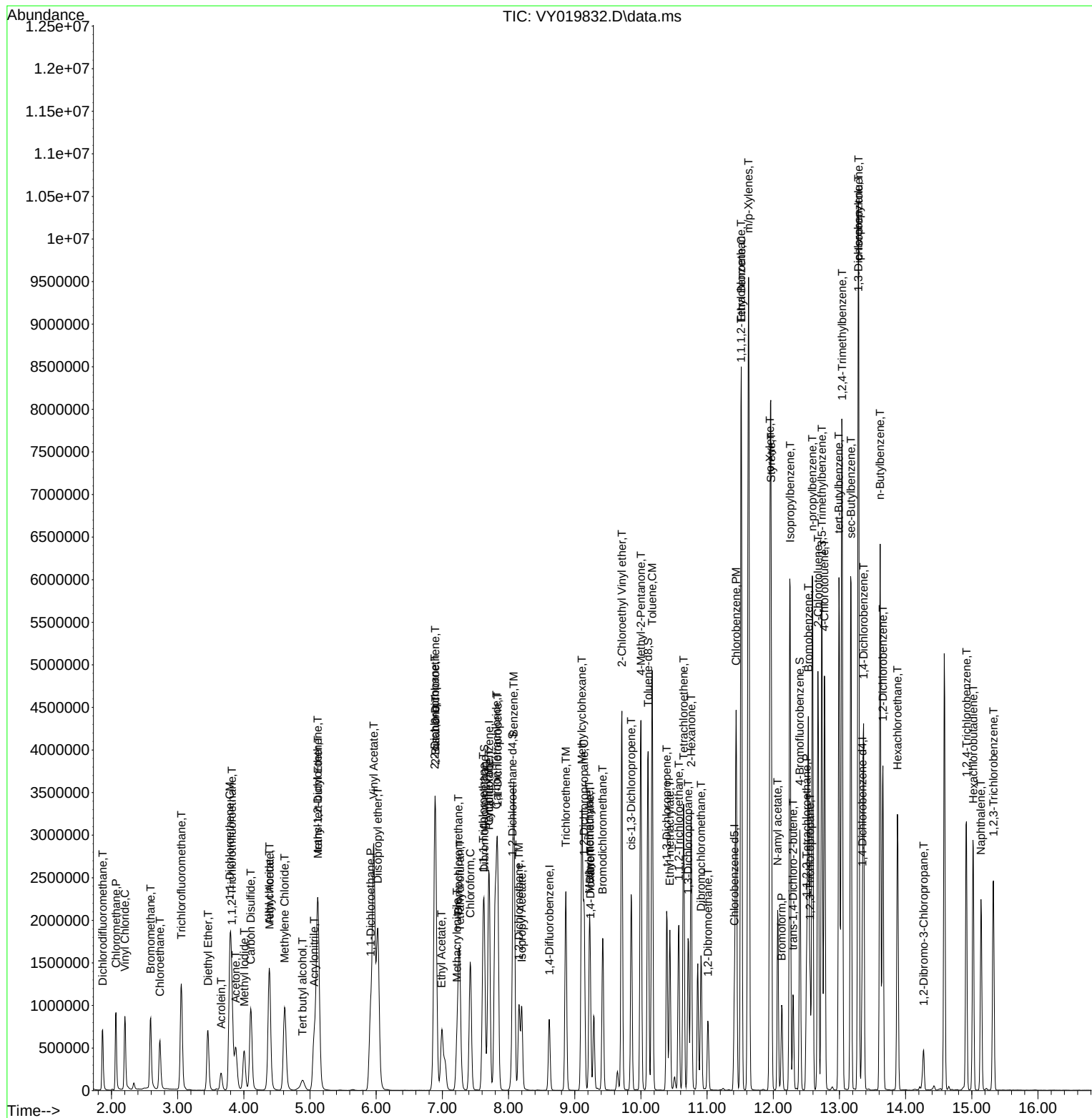
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 Data File : VY019832.D
 Acq On : 09 Oct 2024 12:11
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

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

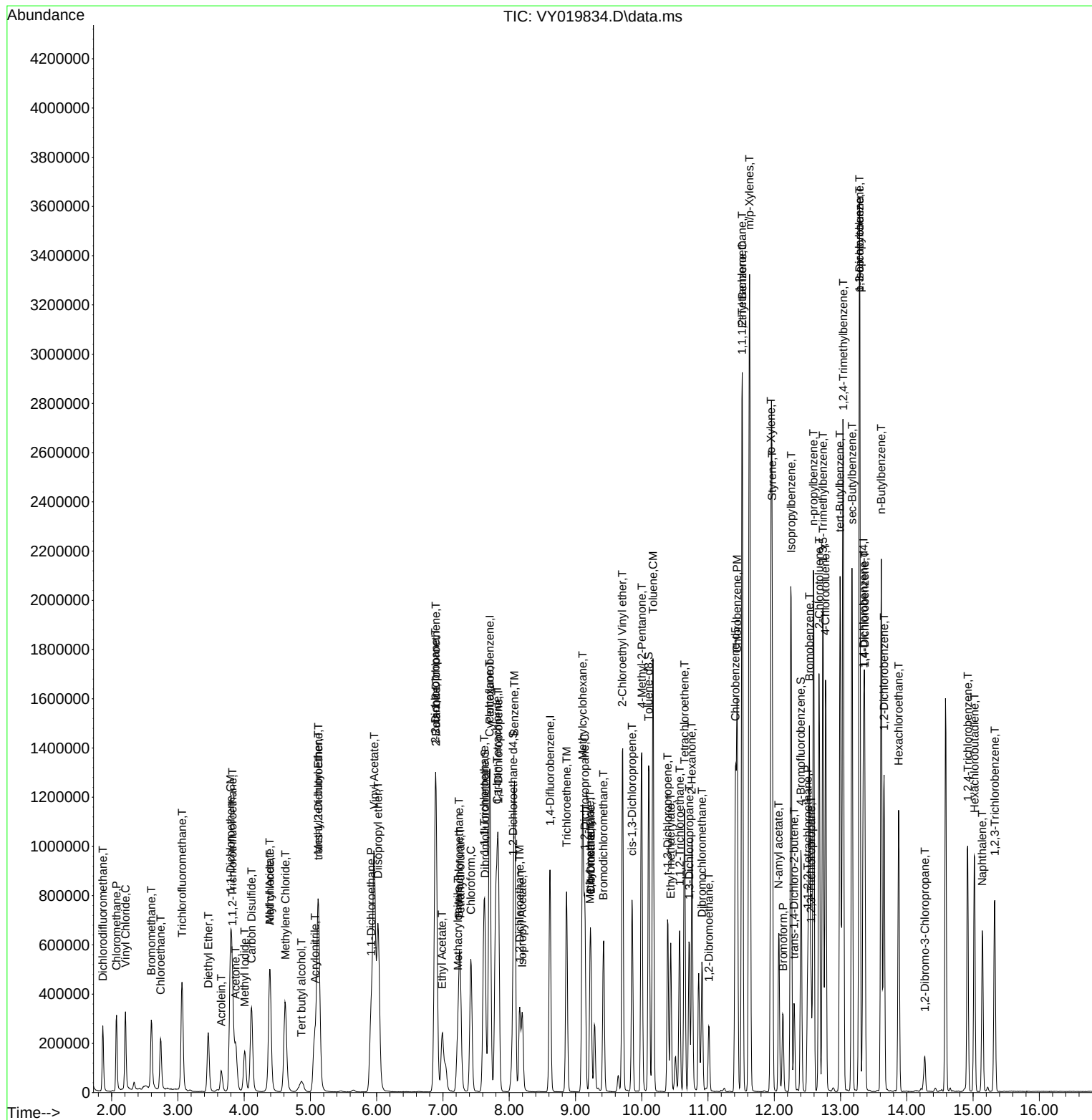
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019834.D
 Acq On : 09 Oct 2024 15:25
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ICVVY100924

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/10/2024
 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



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)
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 :
 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)
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.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: MSVOA_X Calibration Date/Time: 10/15/2024 08:26

Lab File ID: VX043389.D Init. Calib. Date(s): 10/01/2024 10/01/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:36 13:31

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.582	0.590		1.38	20
Chloromethane	0.599	0.601	0.1	0.33	20
Vinyl Chloride	0.600	0.609		1.5	20
Bromomethane	0.245	0.240		-2.04	20
Chloroethane	0.223	0.226		1.35	20
Trichlorofluoromethane	0.896	0.974		8.7	20
1,1,2-Trichlorotrifluoroethane	0.559	0.572		2.33	20
1,1-Dichloroethene	0.556	0.525		-5.58	20
Acetone	0.341	0.402		17.89	20
Carbon Disulfide	1.351	1.220		-9.7	20
Methyl tert-butyl Ether	1.987	2.048		3.07	20
Methyl Acetate	0.855	0.802		-6.2	20
Methylene Chloride	0.629	0.618		-1.75	20
trans-1,2-Dichloroethene	0.553	0.552		-0.18	20
1,1-Dichloroethane	1.069	1.082	0.1	1.22	20
Cyclohexane	0.881	0.871		-1.13	20
2-Butanone	0.468	0.495		5.77	20
Carbon Tetrachloride	0.516	0.526		1.94	20
cis-1,2-Dichloroethene	0.690	0.693		0.44	20
Bromochloromethane	0.422	0.381		-9.72	20
Chloroform	1.174	1.184		0.85	20
1,1,1-Trichloroethane	1.079	1.066		-1.21	20
Methylcyclohexane	0.548	0.566		3.29	20
Benzene	1.321	1.333		0.91	20
1,2-Dichloroethane	0.538	0.558		3.72	20
Trichloroethene	0.350	0.345		-1.43	20
1,2-Dichloropropane	0.324	0.329		1.54	20
Bromodichloromethane	0.511	0.536		4.89	20
4-Methyl-2-Pentanone	0.525	0.521		-0.76	20
Toluene	0.828	0.856		3.38	20
t-1,3-Dichloropropene	0.507	0.551		8.68	20
cis-1,3-Dichloropropene	0.544	0.569		4.6	20
1,1,2-Trichloroethane	0.329	0.339		3.04	20
2-Hexanone	0.397	0.405		2.02	20
Dibromochloromethane	0.382	0.397		3.93	20
1,2-Dibromoethane	0.353	0.362		2.55	20
Tetrachloroethene	0.347	0.351		1.15	20
Chlorobenzene	1.075	1.071	0.3	-0.37	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: MSVOA_X Calibration Date/Time: 10/15/2024 08:26

Lab File ID: VX043389.D Init. Calib. Date(s): 10/01/2024 10/01/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:36 13:31

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.858	1.881		1.24	20
m/p-Xylenes	0.702	0.704		0.28	20
o-Xylene	0.698	0.695		-0.43	20
Styrene	1.131	1.156		2.21	20
Bromoform	0.291	0.289	0.1	-0.69	20
Isopropylbenzene	3.887	3.875		-0.31	20
1,1,2,2-Tetrachloroethane	1.266	1.254	0.3	-0.95	20
1,3-Dichlorobenzene	1.666	1.690		1.44	20
1,4-Dichlorobenzene	1.718	1.673		-2.62	20
1,2-Dichlorobenzene	1.704	1.672		-1.88	20
1,2-Dibromo-3-Chloropropane	0.309	0.290		-6.15	20
1,2,4-Trichlorobenzene	0.983	1.042		6	20
1,2,3-Trichlorobenzene	1.014	1.025		1.09	20
1,2-Dichloroethane-d4	0.817	0.787		-3.67	20
Dibromofluoromethane	0.345	0.333		-3.48	20
Toluene-d8	1.195	1.128		-5.61	20
4-Bromofluorobenzene	0.434	0.429		-1.15	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\VX101524\
 Data File : VX043389.D
 Acq On : 15 Oct 2024 08:26
 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 :John Carlone 10/16/2024
 Supervised By :Mahesh Dadoda 10/16/2024

Quant Time: Oct 16 07:12:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:50:57 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	108973	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	187563	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	162899	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	75623	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	85727	48.169	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.340%		
35) Dibromofluoromethane	5.379	113	62501	48.319	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.640%		
50) Toluene-d8	8.647	98	211515	47.186	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.380%		
62) 4-Bromofluorobenzene	11.079	95	80437	49.393	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	98.780%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	64331	50.752	ug/l	95
3) Chloromethane	1.294	50	65503	50.176	ug/l	100
4) Vinyl Chloride	1.380	62	66349	50.740	ug/l	99
5) Bromomethane	1.599	94	26116	48.885	ug/l	97
6) Chloroethane	1.666	64	24628	50.576	ug/l	98
7) Trichlorofluoromethane	1.873	101	106185	54.349	ug/l	97
8) Diethyl Ether	2.136	74	37952	49.916	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	62335	51.126	ug/l	99
10) Methyl Iodide	2.447	142	80120	52.319	ug/l	98
11) Tert butyl alcohol	2.995	59	89719	264.918	ug/l	100
12) 1,1-Dichloroethene	2.312	96	57171	47.220	ug/l	96
13) Acrolein	2.239	56	67309	210.426	ug/l	100
14) Allyl chloride	2.660	41	101728	51.142	ug/l	100
15) Acrylonitrile	3.068	53	172095	248.859	ug/l	99
16) Acetone	2.386	43	218980	294.639	ug/l	99
17) Carbon Disulfide	2.508	76	132981	45.156	ug/l	98
18) Methyl Acetate	2.703	43	87345	46.848	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	223165	51.520	ug/l	99
20) Methylene Chloride	2.788	84	67352	49.150	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	60202	49.961	ug/l	94
22) Diisopropyl ether	3.757	45	207553	51.877	ug/l	95
23) Vinyl Acetate	3.715	43	935135	205.487	ug/l	99
24) 1,1-Dichloroethane	3.605	63	117943	50.602	ug/l	99
25) 2-Butanone	4.556	43	269632	264.591	ug/l	98
26) 2,2-Dichloropropane	4.464	77	115837	52.235	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	75464	50.216	ug/l	99
28) Bromochloromethane	4.891	49	41475	45.104	ug/l	98
29) Tetrahydrofuran	5.001	42	152177	234.414	ug/l	99
30) Chloroform	5.086	83	129018	50.405	ug/l	99
31) Cyclohexane	5.458	56	94951	49.445	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	116150	49.404	ug/l	99
36) 1,1-Dichloropropene	5.684	75	81547	49.903	ug/l	100
37) Ethyl Acetate	4.714	43	97146	49.504	ug/l	100
38) Carbon Tetrachloride	5.672	117	98720	51.031	ug/l	97
39) Methylcyclohexane	7.372	83	106118	51.633	ug/l	98
40) Benzene	6.031	78	250031	50.466	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
 Data File : VX043389.D
 Acq On : 15 Oct 2024 08:26
 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 : John Carlone 10/16/2024
 Supervised By : Mahesh Dadoda 10/16/2024

Quant Time: Oct 16 07:12:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:50:57 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	53003	51.887	ug/l	98
42) 1,2-Dichloroethane	6.080	62	104658	51.838	ug/l	100
43) Isopropyl Acetate	6.336	43	165550	51.075	ug/l	99
44) Trichloroethene	7.123	130	64718	49.249	ug/l	99
45) 1,2-Dichloropropane	7.427	63	61689	50.737	ug/l	96
46) Dibromomethane	7.574	93	50504	51.837	ug/l	97
47) Bromodichloromethane	7.818	83	100557	52.497	ug/l	99
48) Methyl methacrylate	7.689	41	81492	51.241	ug/l	98
49) 1,4-Dioxane	7.665	88	29296	947.631	ug/l	99
51) 4-Methyl-2-Pentanone	8.573	43	488728	248.262	ug/l	100
52) Toluene	8.714	92	160528	51.698	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	103312	54.277	ug/l	97
54) cis-1,3-Dichloropropene	8.360	75	106792	52.311	ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	63578	51.520	ug/l	98
56) Ethyl methacrylate	9.116	69	107420	53.243	ug/l	98
57) 1,3-Dichloropropane	9.305	76	107526	51.159	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	239165	262.990	ug/l	100
59) 2-Hexanone	9.427	43	380111	255.333	ug/l	100
60) Dibromochloromethane	9.518	129	74451	52.005	ug/l	99
61) 1,2-Dibromoethane	9.604	107	67924	51.230	ug/l	99
64) Tetrachloroethene	9.268	164	57200	50.605	ug/l	95
65) Chlorobenzene	10.079	112	174399	49.798	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	63175	51.015	ug/l	99
67) Ethyl Benzene	10.189	91	306332	50.606	ug/l	99
68) m/p-Xylenes	10.299	106	229255	100.216	ug/l	98
69) o-Xylene	10.640	106	113221	49.807	ug/l	98
70) Styrene	10.652	104	188371	51.132	ug/l	99
71) Bromoform	10.799	173	47121	49.672	ug/l #	99
73) Isopropylbenzene	10.957	105	293050	49.843	ug/l	100
74) N-amyl acetate	10.841	43	136401	48.871	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.213	83	94805	49.497	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	82014m	48.894	ug/l	
77) Bromobenzene	11.195	156	69713	48.723	ug/l	99
78) n-propylbenzene	11.305	91	336138	52.079	ug/l	99
79) 2-Chlorotoluene	11.360	91	204372	49.252	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	244373	50.386	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	32328	49.948	ug/l	97
82) 4-Chlorotoluene	11.451	91	237023	50.142	ug/l	99
83) tert-Butylbenzene	11.713	119	246247	49.282	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	245845	50.379	ug/l	98
85) sec-Butylbenzene	11.890	105	300951	50.808	ug/l	99
86) p-Isopropyltoluene	12.006	119	253379	51.272	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	127803	50.706	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	126514	48.687	ug/l	99
89) n-Butylbenzene	12.329	91	222764	53.843	ug/l	100
90) Hexachloroethane	12.536	117	46533	50.207	ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	126435	49.051	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21937	46.910	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	78827	53.047	ug/l	99
94) Hexachlorobutadiene	13.725	225	31763	53.920	ug/l	99
95) Naphthalene	13.774	128	267786	49.020	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	77516	50.559	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043389.D
Acq On : 15 Oct 2024 08:26
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 :John Carlone 10/16/2024
Supervised By :Mahesh Dadoda 10/16/2024

Quant Time: Oct 16 07:12:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

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

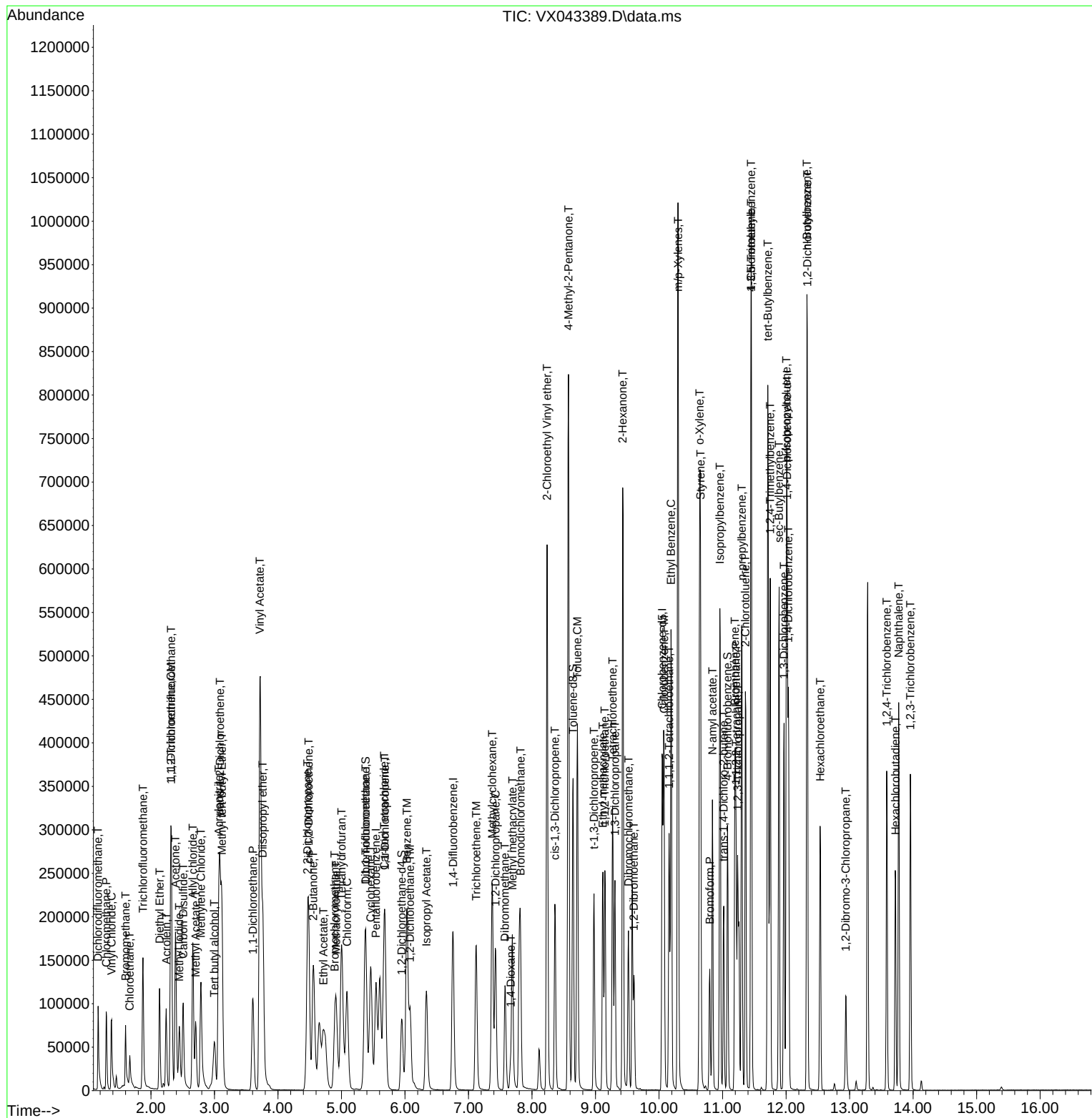
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043389.D
Acq On : 15 Oct 2024 08:26
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
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Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Oct 16 07:12:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/16/2024
Supervised By :Mahesh Dadoda 10/16/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
 Data File : VX043389.D
 Acq On : 15 Oct 2024 08:26
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
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Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 16 07:12:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:50:57 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	101	0.00
2 T	Dichlorodifluoromethane	0.582	0.590	-1.4	100	0.00
3 P	Chloromethane	0.599	0.601	-0.3	101	0.00
4 C	Vinyl Chloride	0.600	0.609	-1.5#	102	0.00
5 T	Bromomethane	0.245	0.240	2.0	102	0.00
6 T	Chloroethane	0.223	0.226	-1.3	102	0.00
7 T	Trichlorofluoromethane	0.896	0.974	-8.7	114	0.00
8 T	Diethyl Ether	0.349	0.348	0.3	103	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.559	0.572	-2.3	104	0.00
10 T	Methyl Iodide	0.703	0.735	-4.6	104	0.00
11 T	Tert butyl alcohol	0.155	0.165	-6.5	105	0.00
12 CM	1,1-Dichloroethene	0.556	0.525	5.6#	97	0.00
13 T	Acrolein	0.147	0.124	15.6	85	0.00
14 T	Allyl chloride	0.913	0.934	-2.3	104	0.00
15 T	Acrylonitrile	0.317	0.316	0.3	100	0.00
16 T	Acetone	0.341	0.402	-17.9	129	0.00
17 T	Carbon Disulfide	1.351	1.220	9.7	94	0.00
18 T	Methyl Acetate	0.855	0.802	6.2	91	0.00
19 T	Methyl tert-butyl Ether	1.987	2.048	-3.1	104	0.00
20 T	Methylene Chloride	0.629	0.618	1.7	102	0.00
21 T	trans-1,2-Dichloroethene	0.553	0.552	0.2	102	0.00
22 T	Diisopropyl ether	1.836	1.905	-3.8	105	0.00
23 T	Vinyl Acetate	1.940	1.716	11.5	77	0.00
24 P	1,1-Dichloroethane	1.069	1.082	-1.2	102	0.00
25 T	2-Butanone	0.468	0.495	-5.8	106	0.00
26 T	2,2-Dichloropropane	1.018	1.063	-4.4	107	0.00
27 T	cis-1,2-Dichloroethene	0.690	0.693	-0.4	103	0.00
28 T	Bromochloromethane	0.422	0.381	9.7	95	0.00
29 T	Tetrahydrofuran	0.298	0.279	6.4	97	0.00
30 C	Chloroform	1.174	1.184	-0.9#	104	0.00
31 T	Cyclohexane	0.881	0.871	1.1	103	0.00
32 T	1,1,1-Trichloroethane	1.079	1.066	1.2	100	0.00
33 S	1,2-Dichloroethane-d4	0.817	0.787	3.7	98	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
35 S	Dibromofluoromethane	0.345	0.333	3.5	98	0.00
36 T	1,1-Dichloropropene	0.436	0.435	0.2	100	0.00
37 T	Ethyl Acetate	0.523	0.518	1.0	100	0.00
38 T	Carbon Tetrachloride	0.516	0.526	-1.9	100	0.00
39 T	Methylcyclohexane	0.548	0.566	-3.3	103	0.00
40 TM	Benzene	1.321	1.333	-0.9	102	0.00
41 T	Methacrylonitrile	0.272	0.283	-4.0	98	0.00
42 TM	1,2-Dichloroethane	0.538	0.558	-3.7	103	0.00
43 T	Isopropyl Acetate	0.864	0.883	-2.2	99	0.00
44 TM	Trichloroethene	0.350	0.345	1.4	101	0.00
45 C	1,2-Dichloropropane	0.324	0.329	-1.5#	101	0.00
46 T	Dibromomethane	0.260	0.269	-3.5	103	0.00
47 T	Bromodichloromethane	0.511	0.536	-4.9	102	0.00
48 T	Methyl methacrylate	0.424	0.434	-2.4	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
 Data File : VX043389.D
 Acq On : 15 Oct 2024 08:26
 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 16 07:12:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:50:57 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	92	0.00
50 S	Toluene-d8	1.195	1.128	5.6	93	0.00
51 T	4-Methyl-2-Pentanone	0.525	0.521	0.8	96	0.00
52 CM	Toluene	0.828	0.856	-3.4#	101	0.00
53 T	t-1,3-Dichloropropene	0.507	0.551	-8.7	102	0.00
54 T	cis-1,3-Dichloropropene	0.544	0.569	-4.6	102	0.00
55 T	1,1,2-Trichloroethane	0.329	0.339	-3.0	100	0.00
56 T	Ethyl methacrylate	0.538	0.573	-6.5	99	0.00
57 T	1,3-Dichloropropane	0.560	0.573	-2.3	99	0.00
58 T	2-Chloroethyl Vinyl ether	0.242	0.255	-5.4	96	0.00
59 T	2-Hexanone	0.397	0.405	-2.0	98	0.00
60 T	Dibromochloromethane	0.382	0.397	-3.9	98	0.00
61 T	1,2-Dibromoethane	0.353	0.362	-2.5	99	0.00
62 S	4-Bromofluorobenzene	0.434	0.429	1.2	95	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
64 T	Tetrachloroethene	0.347	0.351	-1.2	101	0.00
65 PM	Chlorobenzene	1.075	1.071	0.4	100	0.00
66 T	1,1,1,2-Tetrachloroethane	0.380	0.388	-2.1	98	0.00
67 C	Ethyl Benzene	1.858	1.881	-1.2#	98	0.00
68 T	m/p-Xylenes	0.702	0.704	-0.3	98	0.00
69 T	o-Xylene	0.698	0.695	0.4	99	0.00
70 T	Styrene	1.131	1.156	-2.2	98	0.00
71 P	Bromoform	0.291	0.289	0.7	93	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73 T	Isopropylbenzene	3.887	3.875	0.3	97	0.00
74 T	N-amyl acetate	1.845	1.804	2.2	96	0.00
75 P	1,1,2,2-Tetrachloroethane	1.266	1.254	0.9	98	0.00
76 T	1,2,3-Trichloropropane	1.109	1.085	2.2	99	0.00
77 T	Bromobenzene	0.946	0.922	2.5	97	0.00
78 T	n-propylbenzene	4.268	4.445	-4.1	99	0.00
79 T	2-Chlorotoluene	2.744	2.703	1.5	99	0.00
80 T	1,3,5-Trimethylbenzene	3.207	3.231	-0.7	99	0.00
81 T	trans-1,4-Dichloro-2-butene	0.428	0.427	0.2	100	0.00
82 T	4-Chlorotoluene	3.125	3.134	-0.3	100	0.00
83 T	tert-Butylbenzene	3.304	3.256	1.5	97	0.00
84 T	1,2,4-Trimethylbenzene	3.226	3.251	-0.8	98	0.00
85 T	sec-Butylbenzene	3.916	3.980	-1.6	99	0.00
86 T	p-Isopropyltoluene	3.267	3.351	-2.6	99	0.00
87 T	1,3-Dichlorobenzene	1.666	1.690	-1.4	101	0.00
88 T	1,4-Dichlorobenzene	1.718	1.673	2.6	100	0.00
89 T	n-Butylbenzene	2.735	2.946	-7.7	102	0.00
90 T	Hexachloroethane	0.613	0.615	-0.3	95	0.00
91 T	1,2-Dichlorobenzene	1.704	1.672	1.9	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.309	0.290	6.1	91	0.00
93 T	1,2,4-Trichlorobenzene	0.983	1.042	-6.0	102	0.00
94 T	Hexachlorobutadiene	0.389	0.420	-8.0	102	0.00
95 T	Naphthalene	3.612	3.541	2.0	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043389.D
Acq On : 15 Oct 2024 08:26
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 16 07:12:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 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	1.014	1.025	-1.1	99	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
 Data File : VX043389.D
 Acq On : 15 Oct 2024 08:26
 Operator : JC/MD
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 Misc : 5.0mL/MSVOA_X/WATER
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Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 16 07:12:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:50:57 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	101	0.00
2 T	Dichlorodifluoromethane	50.000	50.752	-1.5	100	0.00
3 P	Chloromethane	50.000	50.176	-0.4	101	0.00
4 C	Vinyl Chloride	50.000	50.740	-1.5#	102	0.00
5 T	Bromomethane	50.000	48.885	2.2	102	0.00
6 T	Chloroethane	50.000	50.576	-1.2	102	0.00
7 T	Trichlorofluoromethane	50.000	54.349	-8.7	114	0.00
8 T	Diethyl Ether	50.000	49.916	0.2	103	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.126	-2.3	104	0.00
10 T	Methyl Iodide	50.000	52.319	-4.6	104	0.00
11 T	Tert butyl alcohol	250.000	264.918	-6.0	105	0.00
12 CM	1,1-Dichloroethene	50.000	47.220	5.6#	97	0.00
13 T	Acrolein	250.000	210.426	15.8	85	0.00
14 T	Allyl chloride	50.000	51.142	-2.3	104	0.00
15 T	Acrylonitrile	250.000	248.859	0.5	100	0.00
16 T	Acetone	250.000	294.639	-17.9	129	0.00
17 T	Carbon Disulfide	50.000	45.156	9.7	94	0.00
18 T	Methyl Acetate	50.000	46.848	6.3	91	0.00
19 T	Methyl tert-butyl Ether	50.000	51.520	-3.0	104	0.00
20 T	Methylene Chloride	50.000	49.150	1.7	102	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.961	0.1	102	0.00
22 T	Diisopropyl ether	50.000	51.877	-3.8	105	0.00
23 T	Vinyl Acetate	250.000	205.487	17.8	77	0.00
24 P	1,1-Dichloroethane	50.000	50.602	-1.2	102	0.00
25 T	2-Butanone	250.000	264.591	-5.8	106	0.00
26 T	2,2-Dichloropropane	50.000	52.235	-4.5	107	0.00
27 T	cis-1,2-Dichloroethene	50.000	50.216	-0.4	103	0.00
28 T	Bromochloromethane	50.000	45.104	9.8	95	0.00
29 T	Tetrahydrofuran	250.000	234.414	6.2	97	0.00
30 C	Chloroform	50.000	50.405	-0.8#	104	0.00
31 T	Cyclohexane	50.000	49.445	1.1	103	0.00
32 T	1,1,1-Trichloroethane	50.000	49.404	1.2	100	0.00
33 S	1,2-Dichloroethane-d4	50.000	48.169	3.7	98	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
35 S	Dibromofluoromethane	50.000	48.319	3.4	98	0.00
36 T	1,1-Dichloropropene	50.000	49.903	0.2	100	0.00
37 T	Ethyl Acetate	50.000	49.504	1.0	100	0.00
38 T	Carbon Tetrachloride	50.000	51.031	-2.1	100	0.00
39 T	Methylcyclohexane	50.000	51.633	-3.3	103	0.00
40 TM	Benzene	50.000	50.466	-0.9	102	0.00
41 T	Methacrylonitrile	50.000	51.887	-3.8	98	0.00
42 TM	1,2-Dichloroethane	50.000	51.838	-3.7	103	0.00
43 T	Isopropyl Acetate	50.000	51.075	-2.2	99	0.00
44 TM	Trichloroethene	50.000	49.249	1.5	101	0.00
45 C	1,2-Dichloropropane	50.000	50.737	-1.5#	101	0.00
46 T	Dibromomethane	50.000	51.837	-3.7	103	0.00
47 T	Bromodichloromethane	50.000	52.497	-5.0	102	0.00
48 T	Methyl methacrylate	50.000	51.241	-2.5	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
 Data File : VX043389.D
 Acq On : 15 Oct 2024 08:26
 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 16 07:12:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:50:57 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	947.631	5.2	92	0.00
50 S	Toluene-d8	50.000	47.186	5.6	93	0.00
51 T	4-Methyl-2-Pentanone	250.000	248.262	0.7	96	0.00
52 CM	Toluene	50.000	51.698	-3.4#	101	0.00
53 T	t-1,3-Dichloropropene	50.000	54.277	-8.6	102	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.311	-4.6	102	0.00
55 T	1,1,2-Trichloroethane	50.000	51.520	-3.0	100	0.00
56 T	Ethyl methacrylate	50.000	53.243	-6.5	99	0.00
57 T	1,3-Dichloropropane	50.000	51.159	-2.3	99	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	262.990	-5.2	96	0.00
59 T	2-Hexanone	250.000	255.333	-2.1	98	0.00
60 T	Dibromochloromethane	50.000	52.005	-4.0	98	0.00
61 T	1,2-Dibromoethane	50.000	51.230	-2.5	99	0.00
62 S	4-Bromofluorobenzene	50.000	49.393	1.2	95	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	98	0.00
64 T	Tetrachloroethene	50.000	50.605	-1.2	101	0.00
65 PM	Chlorobenzene	50.000	49.798	0.4	100	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	51.015	-2.0	98	0.00
67 C	Ethyl Benzene	50.000	50.606	-1.2#	98	0.00
68 T	m/p-Xylenes	100.000	100.216	-0.2	98	0.00
69 T	o-Xylene	50.000	49.807	0.4	99	0.00
70 T	Styrene	50.000	51.132	-2.3	98	0.00
71 P	Bromoform	50.000	49.672	0.7	93	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73 T	Isopropylbenzene	50.000	49.843	0.3	97	0.00
74 T	N-amyl acetate	50.000	48.871	2.3	96	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.497	1.0	98	0.00
76 T	1,2,3-Trichloropropane	50.000	48.894	2.2	99	0.00
77 T	Bromobenzene	50.000	48.723	2.6	97	0.00
78 T	n-propylbenzene	50.000	52.079	-4.2	99	0.00
79 T	2-Chlorotoluene	50.000	49.252	1.5	99	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.386	-0.8	99	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.948	0.1	100	0.00
82 T	4-Chlorotoluene	50.000	50.142	-0.3	100	0.00
83 T	tert-Butylbenzene	50.000	49.282	1.4	97	0.00
84 T	1,2,4-Trimethylbenzene	50.000	50.379	-0.8	98	0.00
85 T	sec-Butylbenzene	50.000	50.808	-1.6	99	0.00
86 T	p-Isopropyltoluene	50.000	51.272	-2.5	99	0.00
87 T	1,3-Dichlorobenzene	50.000	50.706	-1.4	101	0.00
88 T	1,4-Dichlorobenzene	50.000	48.687	2.6	100	0.00
89 T	n-Butylbenzene	50.000	53.843	-7.7	102	0.00
90 T	Hexachloroethane	50.000	50.207	-0.4	95	0.00
91 T	1,2-Dichlorobenzene	50.000	49.051	1.9	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	46.910	6.2	91	0.00
93 T	1,2,4-Trichlorobenzene	50.000	53.047	-6.1	102	0.00
94 T	Hexachlorobutadiene	50.000	53.920	-7.8	102	0.00
95 T	Naphthalene	50.000	49.020	2.0	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043389.D
Acq On : 15 Oct 2024 08:26
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 16 07:12:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 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	50.559	-1.1	99	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.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: MSVOA_Y Calibration Date/Time: 10/14/2024 09:52

Lab File ID: VY019882.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	0.410		-11.83	20
Chloromethane	0.606	0.563	0.1	-7.1	20
Vinyl Chloride	0.667	0.625		-6.3	20
Bromomethane	0.422	0.395		-6.4	20
Chloroethane	0.448	0.429		-4.24	20
Trichlorofluoromethane	0.992	0.941		-5.14	20
1,1,2-Trichlorotrifluoroethane	0.577	0.556		-3.64	20
1,1-Dichloroethene	0.536	0.492		-8.21	20
Acetone	0.160	0.179		11.88	20
Carbon Disulfide	1.438	1.214		-15.58	20
Methyl tert-butyl Ether	1.541	1.550		0.58	20
Methyl Acetate	0.345	0.359		4.06	20
Methylene Chloride	0.647	0.591		-8.65	20
trans-1,2-Dichloroethene	0.584	0.559		-4.28	20
1,1-Dichloroethane	1.172	1.193	0.1	1.79	20
Cyclohexane	1.029	0.912		-11.37	20
2-Butanone	0.215	0.229		6.51	20
Carbon Tetrachloride	0.510	0.501		-1.76	20
cis-1,2-Dichloroethene	0.721	0.713		-1.11	20
Bromochloromethane	0.516	0.554		7.36	20
Chloroform	1.195	1.236		3.43	20
1,1,1-Trichloroethane	1.047	1.041		-0.57	20
Methylcyclohexane	0.599	0.552		-7.85	20
Benzene	1.439	1.444		0.35	20
1,2-Dichloroethane	0.413	0.422		2.18	20
Trichloroethene	0.348	0.341		-2.01	20
1,2-Dichloropropane	0.360	0.376		4.44	20
Bromodichloromethane	0.522	0.553		5.94	20
4-Methyl-2-Pentanone	0.258	0.275		6.59	20
Toluene	0.898	0.919		2.34	20
t-1,3-Dichloropropene	0.470	0.484		2.98	20
cis-1,3-Dichloropropene	0.554	0.565		1.99	20
1,1,2-Trichloroethane	0.259	0.269		3.86	20
2-Hexanone	0.184	0.198		7.61	20
Dibromochloromethane	0.333	0.350		5.11	20
1,2-Dibromoethane	0.234	0.240		2.56	20
Tetrachloroethene	0.356	0.326		-8.43	20
Chlorobenzene	1.144	1.139	0.3	-0.44	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.: P4397 SAS No.: P4397 SDG No.: P4397

Instrument ID: MSVOA_Y Calibration Date/Time: 10/14/2024 09:52

Lab File ID: VY019882.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	2.048		-1.4	20
m/p-Xylenes	0.767	0.758		-1.17	20
o-Xylene	0.737	0.737		0	20
Styrene	1.244	1.264		1.61	20
Bromoform	0.207	0.205	0.1	-0.97	20
Isopropylbenzene	4.206	4.068		-3.28	20
1,1,2,2-Tetrachloroethane	0.747	0.756	0.3	1.21	20
1,3-Dichlorobenzene	1.802	1.733		-3.83	20
1,4-Dichlorobenzene	1.771	1.732		-2.2	20
1,2-Dichlorobenzene	1.584	1.540		-2.78	20
1,2-Dibromo-3-Chloropropane	0.119	0.112		-5.88	20
1,2,4-Trichlorobenzene	0.888	0.822		-7.43	20
1,2,3-Trichlorobenzene	0.751	0.689		-8.26	20
1,2-Dichloroethane-d4	0.616	0.619		0.49	20
Dibromofluoromethane	0.330	0.343		3.94	20
Toluene-d8	1.218	1.238		1.64	20
4-Bromofluorobenzene	0.440	0.447		1.59	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\VY101424\
 Data File : VY019882.D
 Acq On : 14 Oct 2024 09:52
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 10/15/2024
 Supervised By :Semsettin Yesilyurt 10/15/2024

Quant Time: Oct 15 01:31:49 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	286716	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	498763	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	439404	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	212252	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	177343	50.234	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.460%			
35) Dibromofluoromethane	7.634	113	171150	52.001	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.000%			
50) Toluene-d8	10.109	98	617294	50.788	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.580%			
62) 4-Bromofluorobenzene	12.408	95	222721	50.714	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 101.420%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	117586	44.055	ug/l	99
3) Chloromethane	2.074	50	161404	46.462	ug/l	98
4) Vinyl Chloride	2.208	62	179097	46.850	ug/l	97
5) Bromomethane	2.598	94	113115	46.748	ug/l	98
6) Chloroethane	2.739	64	122901	47.856	ug/l	96
7) Trichlorofluoromethane	3.062	101	269795	47.430	ug/l	95
8) Diethyl Ether	3.458	74	83357	48.217	ug/l	76
9) 1,1,2-Trichlorotrifluo...	3.818	101	159552	48.223	ug/l	92
10) Methyl Iodide	4.007	142	150631	45.014	ug/l #	89
11) Tert butyl alcohol	4.860	59	62312	188.406	ug/l #	78
12) 1,1-Dichloroethene	3.793	96	141057	45.859	ug/l #	81
13) Acrolein	3.653	56	45312	174.675	ug/l	98
14) Allyl chloride	4.385	41	274895	49.532	ug/l #	90
15) Acrylonitrile	5.061	53	207731	262.708	ug/l	98
16) Acetone	3.867	43	256459	279.063	ug/l #	83
17) Carbon Disulfide	4.110	76	348101	42.222	ug/l	97
18) Methyl Acetate	4.385	43	103071	52.064	ug/l #	88
19) Methyl tert-butyl Ether	5.116	73	444483	50.299	ug/l	97
20) Methylene Chloride	4.616	84	169525	49.923	ug/l #	83
21) trans-1,2-Dichloroethene	5.116	96	160342	47.896	ug/l #	84
22) Diisopropyl ether	6.025	45	641657	53.080	ug/l #	95
23) Vinyl Acetate	5.964	43	1807560	260.826	ug/l #	90
24) 1,1-Dichloroethane	5.921	63	342114	50.912	ug/l	97
25) 2-Butanone	6.896	43	328525	267.070	ug/l #	87
26) 2,2-Dichloropropane	6.890	77	287057	47.967	ug/l	96
27) cis-1,2-Dichloroethene	6.890	96	204415	49.410	ug/l	83
28) Bromochloromethane	7.250	49	158800	53.691	ug/l #	75
29) Tetrahydrofuran	7.262	42	182138	259.321	ug/l #	83
30) Chloroform	7.421	83	354342	51.729	ug/l	97
31) Cyclohexane	7.701	56	261425	44.319	ug/l	91
32) 1,1,1-Trichloroethane	7.622	97	298487	49.722	ug/l	95
36) 1,1-Dichloropropene	7.835	75	230543	48.620	ug/l	95
37) Ethyl Acetate	6.988	43	127995	51.767	ug/l #	94
38) Carbon Tetrachloride	7.817	117	250095	49.200	ug/l	99
39) Methylcyclohexane	9.109	83	275407	46.097	ug/l #	88
40) Benzene	8.079	78	720149	50.184	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
 Data File : VY019882.D
 Acq On : 14 Oct 2024 09:52
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 10/15/2024

Supervised By :Semsettin Yesilyurt 10/15/2024

Quant Time: Oct 15 01:31:49 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	7.226	41	65789	49.163	ug/l	89
42) 1,2-Dichloroethane	8.158	62	210695	51.106	ug/l	94
43) Isopropyl Acetate	8.195	43	256037	50.777	ug/l #	78
44) Trichloroethene	8.866	130	170007	48.914	ug/l	94
45) 1,2-Dichloropropane	9.140	63	187549	52.216	ug/l	99
46) Dibromomethane	9.231	93	99766	50.839	ug/l	91
47) Bromodichloromethane	9.427	83	275950	52.977	ug/l	99
48) Methyl methacrylate	9.225	41	120995	54.550	ug/l #	81
49) 1,4-Dioxane	9.225	88	22292	1014.941	ug/l #	78
51) 4-Methyl-2-Pentanone	10.000	43	685766	266.632	ug/l	89
52) Toluene	10.170	92	458453	51.181	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	241369	51.501	ug/l	97
54) cis-1,3-Dichloropropene	9.859	75	281911	50.978	ug/l #	86
55) 1,1,2-Trichloroethane	10.573	97	134101	51.867	ug/l	94
56) Ethyl methacrylate	10.439	69	194839	52.518	ug/l #	73
57) 1,3-Dichloropropane	10.719	76	233818	51.497	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	446645	258.613	ug/l	93
59) 2-Hexanone	10.762	43	493842	268.835	ug/l	86
60) Dibromochloromethane	10.908	129	174678	52.637	ug/l	99
61) 1,2-Dibromoethane	11.012	107	119572	51.178	ug/l	99
64) Tetrachloroethene	10.646	164	143275	45.842	ug/l	95
65) Chlorobenzene	11.438	112	500303	49.780	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.518	131	168713	49.617	ug/l	100
67) Ethyl Benzene	11.518	91	899911	49.292	ug/l	99
68) m/p-Xylenes	11.627	106	666434	98.840	ug/l	92
69) o-Xylene	11.957	106	323996	50.013	ug/l	93
70) Styrene	11.969	104	555579	50.831	ug/l	96
71) Bromoform	12.133	173	90151	49.525	ug/l #	98
73) Isopropylbenzene	12.255	105	863456	48.364	ug/l	98
74) N-amyl acetate	12.066	43	234129	49.514	ug/l #	87
75) 1,1,2,2-Tetrachloroethane	12.505	83	160419	50.569	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	113428m	27.279	ug/l	
77) Bromobenzene	12.530	156	180188	47.561	ug/l	84
78) n-propylbenzene	12.591	91	1064190	49.331	ug/l	98
79) 2-Chlorotoluene	12.676	91	610791	49.387	ug/l	94
80) 1,3,5-Trimethylbenzene	12.737	105	703927	48.823	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.304	75	51977	50.457	ug/l #	86
82) 4-Chlorotoluene	12.773	91	626239	49.522	ug/l	94
83) tert-Butylbenzene	12.999	119	645418	49.969	ug/l	96
84) 1,2,4-Trimethylbenzene	13.042	105	702078	49.114	ug/l	96
85) sec-Butylbenzene	13.176	105	949023	49.177	ug/l	97
86) p-Isopropyltoluene	13.292	119	761998	48.626	ug/l	96
87) 1,3-Dichlorobenzene	13.286	146	367776	48.070	ug/l	97
88) 1,4-Dichlorobenzene	13.365	146	367618	48.910	ug/l	96
89) n-Butylbenzene	13.615	91	760942	49.730	ug/l	98
90) Hexachloroethane	13.877	117	151654	49.700	ug/l	87
91) 1,2-Dichlorobenzene	13.657	146	326901	48.628	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	23691	46.794	ug/l	80
93) 1,2,4-Trichlorobenzene	14.919	180	174377	46.260	ug/l	98
94) Hexachlorobutadiene	15.023	225	94530	45.107	ug/l	97
95) Naphthalene	15.145	128	333140	46.859	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	146223	45.889	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019882.D
Acq On : 14 Oct 2024 09:52
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/15/2024
Supervised By :Semsettin Yesilyurt 10/15/2024

Quant Time: Oct 15 01:31:49 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)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

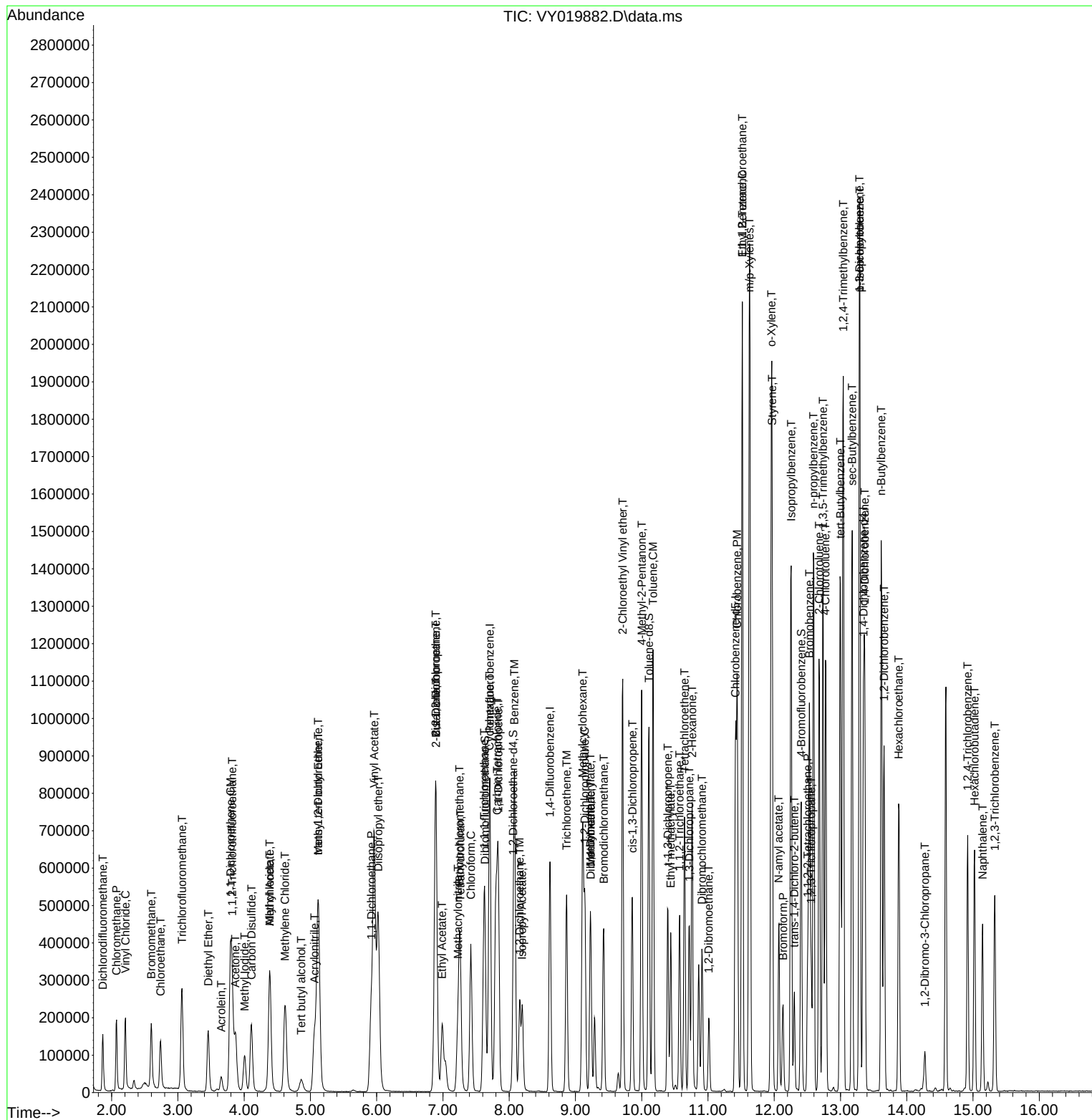
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
 Data File : VY019882.D
 Acq On : 14 Oct 2024 09:52
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/15/2024
 Supervised By :Semsettin Yesilyurt 10/15/2024

Quant Time: Oct 15 01:31:49 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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
 Data File : VY019882.D
 Acq On : 14 Oct 2024 09:52
 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 15 01:31:49 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	76	0.00
2 T	Dichlorodifluoromethane	0.465	0.410	11.8	68	0.00
3 P	Chloromethane	0.606	0.563	7.1	70	0.00
4 C	Vinyl Chloride	0.667	0.625	6.3#	69	0.00
5 T	Bromomethane	0.422	0.395	6.4	69	0.00
6 T	Chloroethane	0.448	0.429	4.2	72	0.00
7 T	Trichlorofluoromethane	0.992	0.941	5.1	72	0.00
8 T	Diethyl Ether	0.301	0.291	3.3	71	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.577	0.556	3.6	73	0.00
10 T	Methyl Iodide	0.584	0.525	10.1	63	0.00
11 T	Tert butyl alcohol	0.058	0.043	25.9#	66	0.00
12 CM	1,1-Dichloroethene	0.536	0.492	8.2#	68	0.00
13 T	Acrolein	0.045	0.032	28.9#	60	0.00
14 T	Allyl chloride	0.968	0.959	0.9	72	0.00
15 T	Acrylonitrile	0.138	0.145	-5.1	77	0.00
16 T	Acetone	0.160	0.179	-11.9	80	0.00
17 T	Carbon Disulfide	1.438	1.214	15.6	60	0.00
18 T	Methyl Acetate	0.345	0.359	-4.1	78	0.00
19 T	Methyl tert-butyl Ether	1.541	1.550	-0.6	75	0.00
20 T	Methylene Chloride	0.647	0.591	8.7	73	0.00
21 T	trans-1,2-Dichloroethene	0.584	0.559	4.3	70	0.00
22 T	Diisopropyl ether	2.108	2.238	-6.2	79	0.00
23 T	Vinyl Acetate	1.209	1.261	-4.3	75	0.00
24 P	1,1-Dichloroethane	1.172	1.193	-1.8	76	0.00
25 T	2-Butanone	0.215	0.229	-6.5	79	0.00
26 T	2,2-Dichloropropane	1.044	1.001	4.1	73	0.00
27 T	cis-1,2-Dichloroethene	0.721	0.713	1.1	73	0.00
28 T	Bromochloromethane	0.516	0.554	-7.4	80	0.00
29 T	Tetrahydrofuran	0.122	0.127	-4.1	76	0.00
30 C	Chloroform	1.195	1.236	-3.4#	77	0.00
31 T	Cyclohexane	1.029	0.912	11.4	69	0.00
32 T	1,1,1-Trichloroethane	1.047	1.041	0.6	74	0.00
33 S	1,2-Dichloroethane-d4	0.616	0.619	-0.5	81	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	76	0.00
35 S	Dibromofluoromethane	0.330	0.343	-3.9	82	0.00
36 T	1,1-Dichloropropene	0.475	0.462	2.7	71	0.00
37 T	Ethyl Acetate	0.248	0.257	-3.6	76	0.00
38 T	Carbon Tetrachloride	0.510	0.501	1.8	73	0.00
39 T	Methylcyclohexane	0.599	0.552	7.8	67	0.00
40 TM	Benzene	1.439	1.444	-0.3	74	0.00
41 T	Methacrylonitrile	0.134	0.132	1.5	65	0.00
42 TM	1,2-Dichloroethane	0.413	0.422	-2.2	75	0.00
43 T	Isopropyl Acetate	0.505	0.513	-1.6	75	0.00
44 TM	Trichloroethene	0.348	0.341	2.0	71	0.00
45 C	1,2-Dichloropropane	0.360	0.376	-4.4#	79	0.00
46 T	Dibromomethane	0.197	0.200	-1.5	75	0.00
47 T	Bromodichloromethane	0.522	0.553	-5.9	78	0.00
48 T	Methyl methacrylate	0.222	0.243	-9.5	78	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
 Data File : VY019882.D
 Acq On : 14 Oct 2024 09:52
 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 15 01:31:49 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	72	0.00
50 S	Toluene-d8	1.218	1.238	-1.6	80	0.00
51 T	4-Methyl-2-Pentanone	0.258	0.275	-6.6	78	0.00
52 CM	Toluene	0.898	0.919	-2.3#	75	0.00
53 T	t-1,3-Dichloropropene	0.470	0.484	-3.0	74	0.00
54 T	cis-1,3-Dichloropropene	0.554	0.565	-2.0	75	0.00
55 T	1,1,2-Trichloroethane	0.259	0.269	-3.9	76	0.00
56 T	Ethyl methacrylate	0.372	0.391	-5.1	74	0.00
57 T	1,3-Dichloropropane	0.455	0.469	-3.1	76	0.00
58 T	2-Chloroethyl Vinyl ether	0.173	0.179	-3.5	80	0.00
59 T	2-Hexanone	0.184	0.198	-7.6	77	0.00
60 T	Dibromochloromethane	0.333	0.350	-5.1	78	0.00
61 T	1,2-Dibromoethane	0.234	0.240	-2.6	75	0.00
62 S	4-Bromofluorobenzene	0.440	0.447	-1.6	80	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	78	0.00
64 T	Tetrachloroethene	0.356	0.326	8.4	69	0.00
65 PM	Chlorobenzene	1.144	1.139	0.4	76	0.00
66 T	1,1,1,2-Tetrachloroethane	0.387	0.384	0.8	75	0.00
67 C	Ethyl Benzene	2.077	2.048	1.4#	74	0.00
68 T	m/p-Xylenes	0.767	0.758	1.2	74	0.00
69 T	o-Xylene	0.737	0.737	0.0	75	0.00
70 T	Styrene	1.244	1.264	-1.6	76	0.00
71 P	Bromoform	0.207	0.205	1.0	73	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	78	0.00
73 T	Isopropylbenzene	4.206	4.068	3.3	74	0.00
74 T	N-amyl acetate	1.114	1.103	1.0	73	0.00
75 P	1,1,2,2-Tetrachloroethane	0.747	0.756	-1.2	77	0.00
76 T	1,2,3-Trichloropropane	0.979	0.534	45.5#	42#	0.00
77 T	Bromobenzene	0.892	0.849	4.8	73	0.00
78 T	n-propylbenzene	5.082	5.014	1.3	75	0.00
79 T	2-Chlorotoluene	2.913	2.878	1.2	76	0.00
80 T	1,3,5-Trimethylbenzene	3.396	3.316	2.4	75	0.00
81 T	trans-1,4-Dichloro-2-butene	0.243	0.245	-0.8	76	0.00
82 T	4-Chlorotoluene	2.979	2.950	1.0	76	0.00
83 T	tert-Butylbenzene	3.043	3.041	0.1	77	0.00
84 T	1,2,4-Trimethylbenzene	3.367	3.308	1.8	74	0.00
85 T	sec-Butylbenzene	4.546	4.471	1.6	74	0.00
86 T	p-Isopropyltoluene	3.691	3.590	2.7	74	0.00
87 T	1,3-Dichlorobenzene	1.802	1.733	3.8	74	0.00
88 T	1,4-Dichlorobenzene	1.771	1.732	2.2	75	0.00
89 T	n-Butylbenzene	3.605	3.585	0.6	73	0.00
90 T	Hexachloroethane	0.719	0.714	0.7	75	0.00
91 T	1,2-Dichlorobenzene	1.584	1.540	2.8	75	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.119	0.112	5.9	72	0.00
93 T	1,2,4-Trichlorobenzene	0.888	0.822	7.4	66	0.00
94 T	Hexachlorobutadiene	0.494	0.445	9.9	66	0.00
95 T	Naphthalene	1.675	1.570	6.3	66	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019882.D
Acq On : 14 Oct 2024 09:52
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 15 01:31:49 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	0.689	8.3	65	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
 Data File : VY019882.D
 Acq On : 14 Oct 2024 09:52
 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 15 01:31:49 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	76	0.00
2 T	Dichlorodifluoromethane	50.000	44.055	11.9	68	0.00
3 P	Chloromethane	50.000	46.462	7.1	70	0.00
4 C	Vinyl Chloride	50.000	46.850	6.3#	69	0.00
5 T	Bromomethane	50.000	46.748	6.5	69	0.00
6 T	Chloroethane	50.000	47.856	4.3	72	0.00
7 T	Trichlorofluoromethane	50.000	47.430	5.1	72	0.00
8 T	Diethyl Ether	50.000	48.217	3.6	71	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.223	3.6	73	0.00
10 T	Methyl Iodide	50.000	45.014	10.0	63	0.00
11 T	Tert butyl alcohol	250.000	188.406	24.6	66	0.00
12 CM	1,1-Dichloroethene	50.000	45.859	8.3#	68	0.00
13 T	Acrolein	250.000	174.675	30.1#	60	0.00
14 T	Allyl chloride	50.000	49.532	0.9	72	0.00
15 T	Acrylonitrile	250.000	262.708	-5.1	77	0.00
16 T	Acetone	250.000	279.063	-11.6	80	0.00
17 T	Carbon Disulfide	50.000	42.222	15.6	60	0.00
18 T	Methyl Acetate	50.000	52.064	-4.1	78	0.00
19 T	Methyl tert-butyl Ether	50.000	50.299	-0.6	75	0.00
20 T	Methylene Chloride	50.000	49.923	0.2	73	0.00
21 T	trans-1,2-Dichloroethene	50.000	47.896	4.2	70	0.00
22 T	Diisopropyl ether	50.000	53.080	-6.2	79	0.00
23 T	Vinyl Acetate	250.000	260.826	-4.3	75	0.00
24 P	1,1-Dichloroethane	50.000	50.912	-1.8	76	0.00
25 T	2-Butanone	250.000	267.070	-6.8	79	0.00
26 T	2,2-Dichloropropane	50.000	47.967	4.1	73	0.00
27 T	cis-1,2-Dichloroethene	50.000	49.410	1.2	73	0.00
28 T	Bromochloromethane	50.000	53.691	-7.4	80	0.00
29 T	Tetrahydrofuran	250.000	259.321	-3.7	76	0.00
30 C	Chloroform	50.000	51.729	-3.5#	77	0.00
31 T	Cyclohexane	50.000	44.319	11.4	69	0.00
32 T	1,1,1-Trichloroethane	50.000	49.722	0.6	74	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.234	-0.5	81	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	76	0.00
35 S	Dibromofluoromethane	50.000	52.001	-4.0	82	0.00
36 T	1,1-Dichloropropene	50.000	48.620	2.8	71	0.00
37 T	Ethyl Acetate	50.000	51.767	-3.5	76	0.00
38 T	Carbon Tetrachloride	50.000	49.200	1.6	73	0.00
39 T	Methylcyclohexane	50.000	46.097	7.8	67	0.00
40 TM	Benzene	50.000	50.184	-0.4	74	0.00
41 T	Methacrylonitrile	50.000	49.163	1.7	65	0.00
42 TM	1,2-Dichloroethane	50.000	51.106	-2.2	75	0.00
43 T	Isopropyl Acetate	50.000	50.777	-1.6	75	0.00
44 TM	Trichloroethene	50.000	48.914	2.2	71	0.00
45 C	1,2-Dichloropropane	50.000	52.216	-4.4#	79	0.00
46 T	Dibromomethane	50.000	50.839	-1.7	75	0.00
47 T	Bromodichloromethane	50.000	52.977	-6.0	78	0.00
48 T	Methyl methacrylate	50.000	54.550	-9.1	78	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
 Data File : VY019882.D
 Acq On : 14 Oct 2024 09:52
 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 15 01:31:49 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	1014.941	-1.5	72	0.00
50 S	Toluene-d8	50.000	50.788	-1.6	80	0.00
51 T	4-Methyl-2-Pentanone	250.000	266.632	-6.7	78	0.00
52 CM	Toluene	50.000	51.181	-2.4#	75	0.00
53 T	t-1,3-Dichloropropene	50.000	51.501	-3.0	74	0.00
54 T	cis-1,3-Dichloropropene	50.000	50.978	-2.0	75	0.00
55 T	1,1,2-Trichloroethane	50.000	51.867	-3.7	76	0.00
56 T	Ethyl methacrylate	50.000	52.518	-5.0	74	0.00
57 T	1,3-Dichloropropane	50.000	51.497	-3.0	76	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	258.613	-3.4	80	0.00
59 T	2-Hexanone	250.000	268.835	-7.5	77	0.00
60 T	Dibromochloromethane	50.000	52.637	-5.3	78	0.00
61 T	1,2-Dibromoethane	50.000	51.178	-2.4	75	0.00
62 S	4-Bromofluorobenzene	50.000	50.714	-1.4	80	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	78	0.00
64 T	Tetrachloroethene	50.000	45.842	8.3	69	0.00
65 PM	Chlorobenzene	50.000	49.780	0.4	76	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.617	0.8	75	0.00
67 C	Ethyl Benzene	50.000	49.292	1.4#	74	0.00
68 T	m/p-Xylenes	100.000	98.840	1.2	74	0.00
69 T	o-Xylene	50.000	50.013	-0.0	75	0.00
70 T	Styrene	50.000	50.831	-1.7	76	0.00
71 P	Bromoform	50.000	49.525	1.0	73	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	78	0.00
73 T	Isopropylbenzene	50.000	48.364	3.3	74	0.00
74 T	N-ethyl acetate	50.000	49.514	1.0	73	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	50.569	-1.1	77	0.00
76 T	1,2,3-Trichloropropane	50.000	27.279	45.4#	42	0.00
77 T	Bromobenzene	50.000	47.561	4.9	73	0.00
78 T	n-propylbenzene	50.000	49.331	1.3	75	0.00
79 T	2-Chlorotoluene	50.000	49.387	1.2	76	0.00
80 T	1,3,5-Trimethylbenzene	50.000	48.823	2.4	75	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	50.457	-0.9	76	0.00
82 T	4-Chlorotoluene	50.000	49.522	1.0	76	0.00
83 T	tert-Butylbenzene	50.000	49.969	0.1	77	0.00
84 T	1,2,4-Trimethylbenzene	50.000	49.114	1.8	74	0.00
85 T	sec-Butylbenzene	50.000	49.177	1.6	74	0.00
86 T	p-Isopropyltoluene	50.000	48.626	2.7	74	0.00
87 T	1,3-Dichlorobenzene	50.000	48.070	3.9	74	0.00
88 T	1,4-Dichlorobenzene	50.000	48.910	2.2	75	0.00
89 T	n-Butylbenzene	50.000	49.730	0.5	73	0.00
90 T	Hexachloroethane	50.000	49.700	0.6	75	0.00
91 T	1,2-Dichlorobenzene	50.000	48.628	2.7	75	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	46.794	6.4	72	0.00
93 T	1,2,4-Trichlorobenzene	50.000	46.260	7.5	66	0.00
94 T	Hexachlorobutadiene	50.000	45.107	9.8	66	0.00
95 T	Naphthalene	50.000	46.859	6.3	66	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019882.D
Acq On : 14 Oct 2024 09:52
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 15 01:31:49 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	45.889	8.2	65	0.00

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



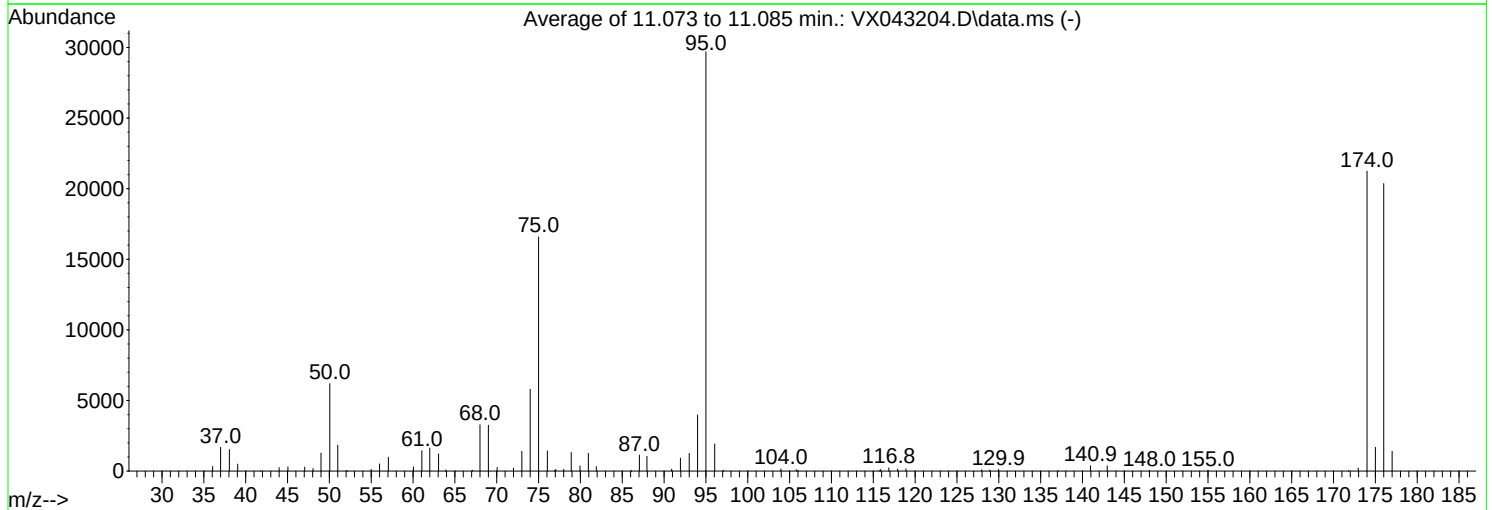
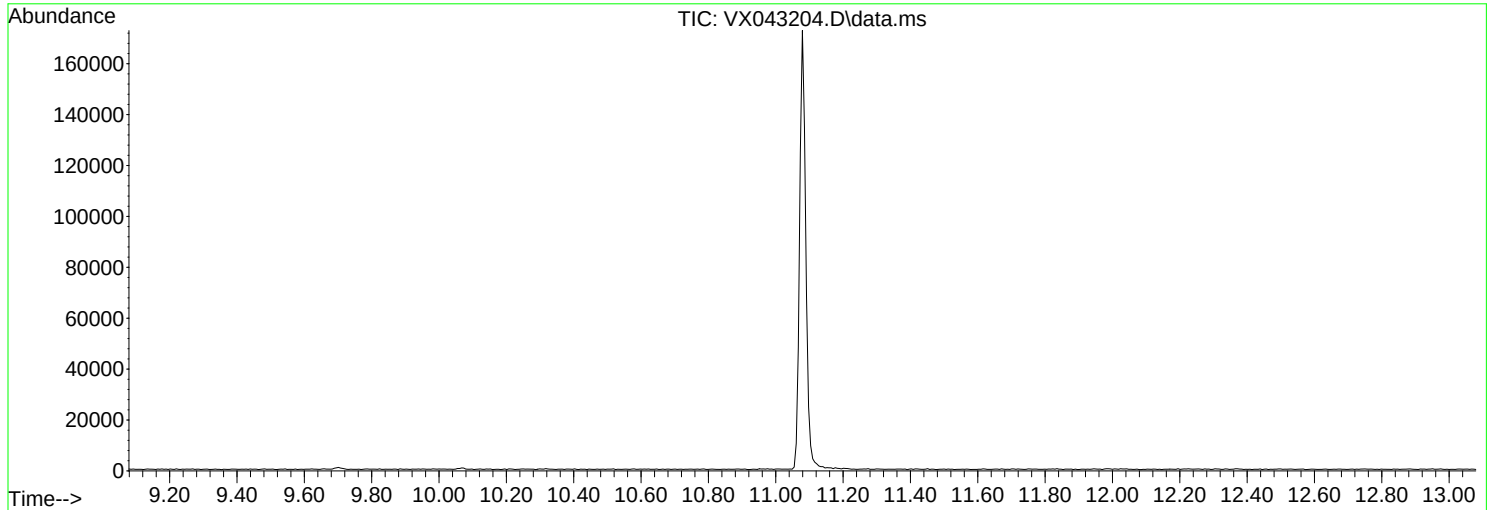
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100124\
Data File : VX043204.D
Acq On : 01 Oct 2024 08:42
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\82X100124W.M
Title : SW846 8260
Last Update : Wed Oct 02 16:50:57 2024



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

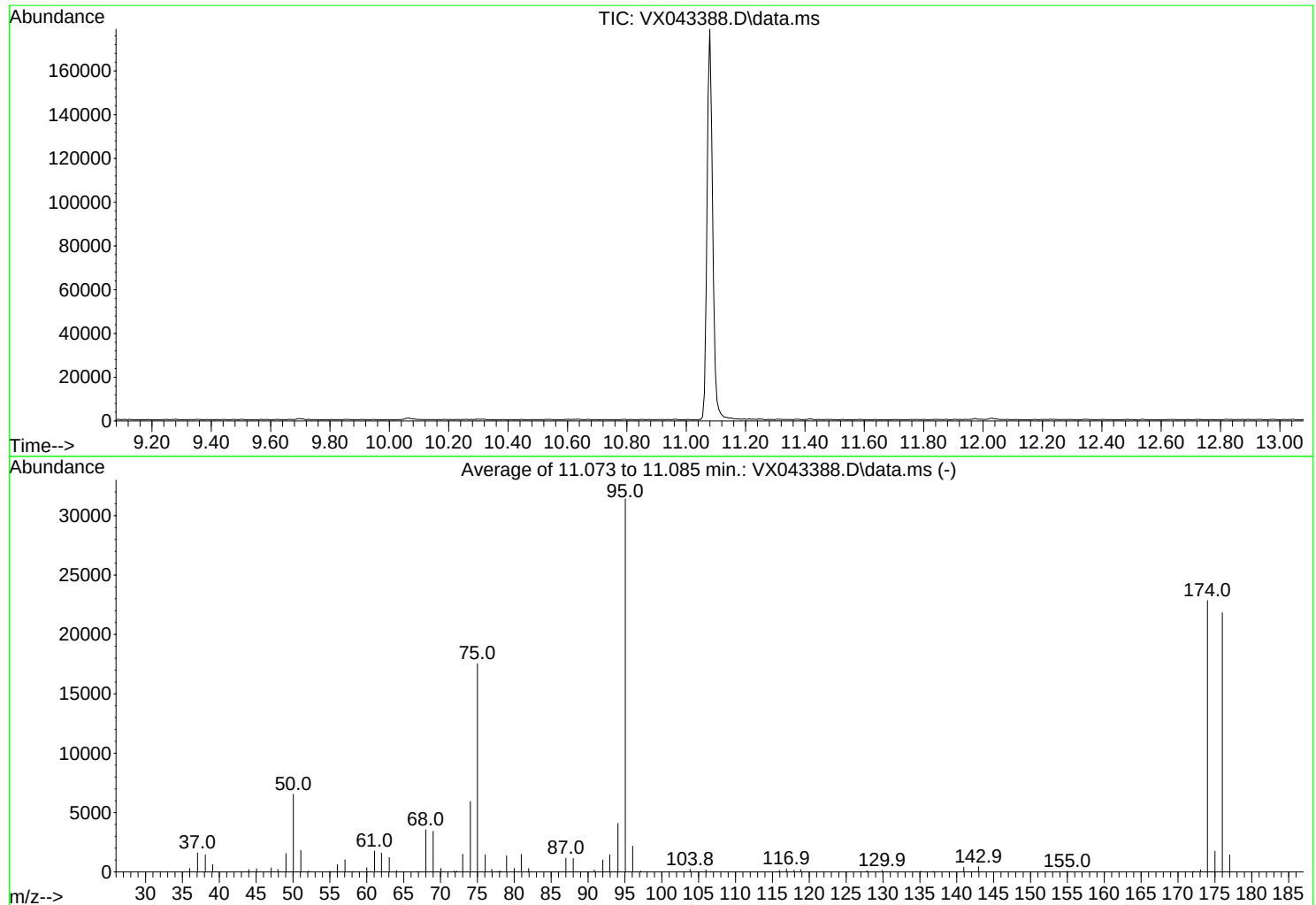
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.9	6194	PASS
75	95	30	60	55.8	16583	PASS
95	95	100	100	100.0	29699	PASS
96	95	5	9	6.5	1920	PASS
173	174	0.00	2	1.0	214	PASS
174	95	50	100	71.5	21240	PASS
175	174	5	9	7.9	1682	PASS
176	174	95	101	95.9	20363	PASS
177	176	5	9	6.9	1400	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043388.D
Acq On : 15 Oct 2024 07:57
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\82X100124W.M
Title : SW846 8260
Last Update : Wed Oct 02 16:50:57 2024



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

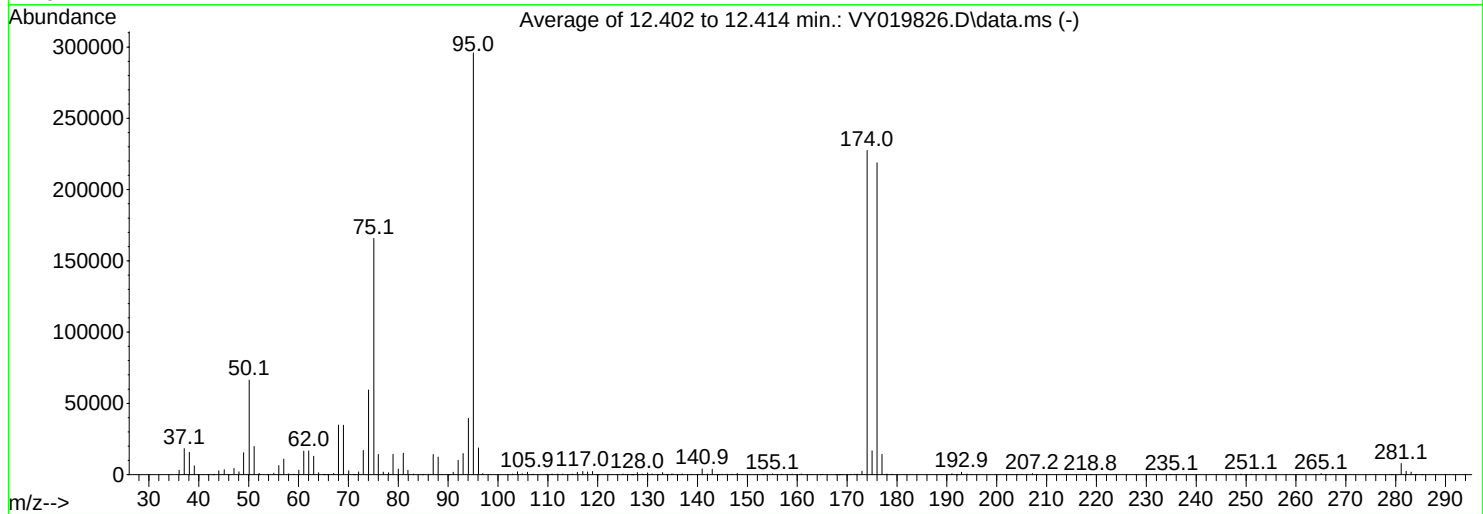
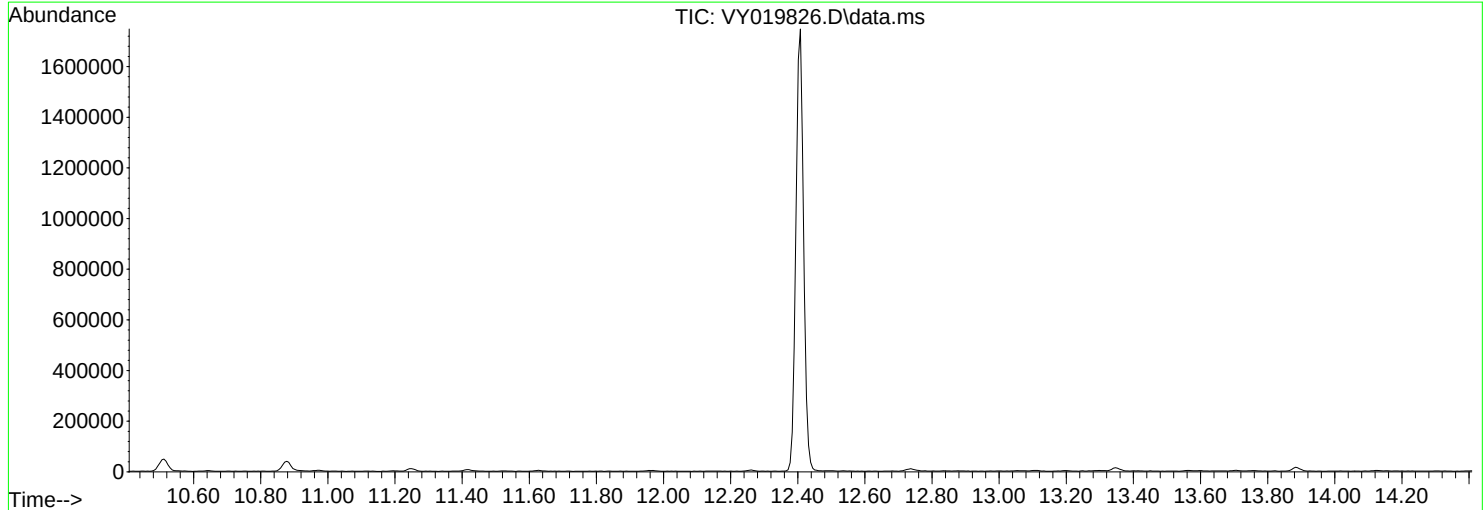
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	20.8	6534	PASS
75	95	30	60	55.8	17531	PASS
95	95	100	100	100.0	31424	PASS
96	95	5	9	6.9	2177	PASS
173	174	0.00	2	0.8	181	PASS
174	95	50	100	72.8	22867	PASS
175	174	5	9	7.6	1748	PASS
176	174	95	101	95.5	21827	PASS
177	176	5	9	6.6	1436	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

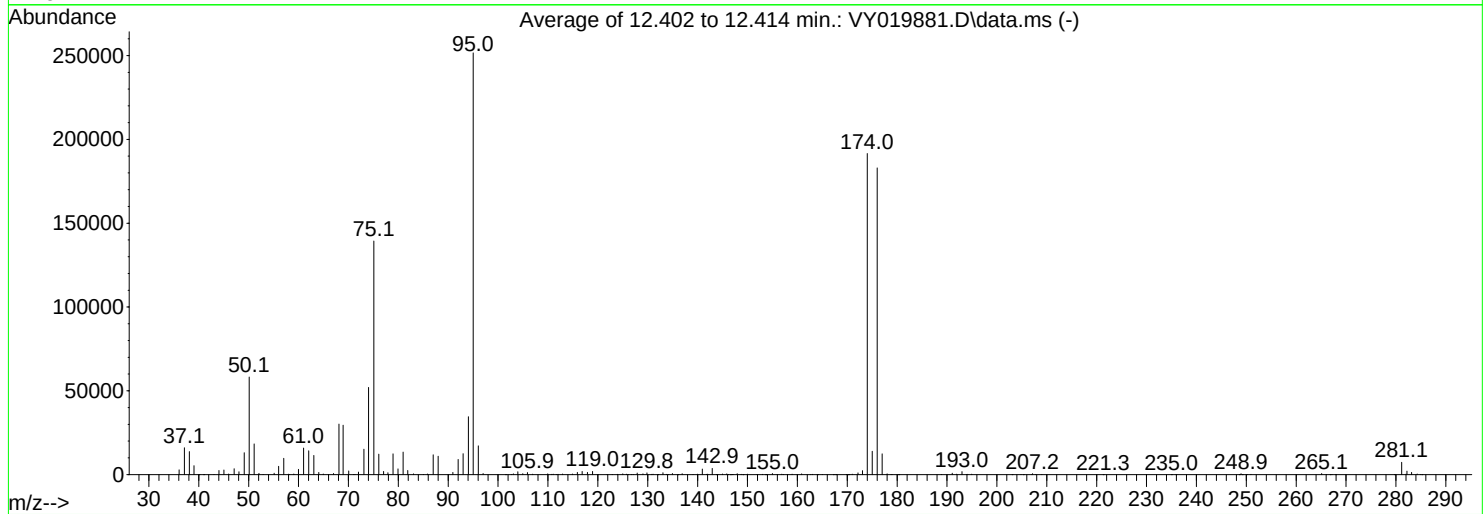
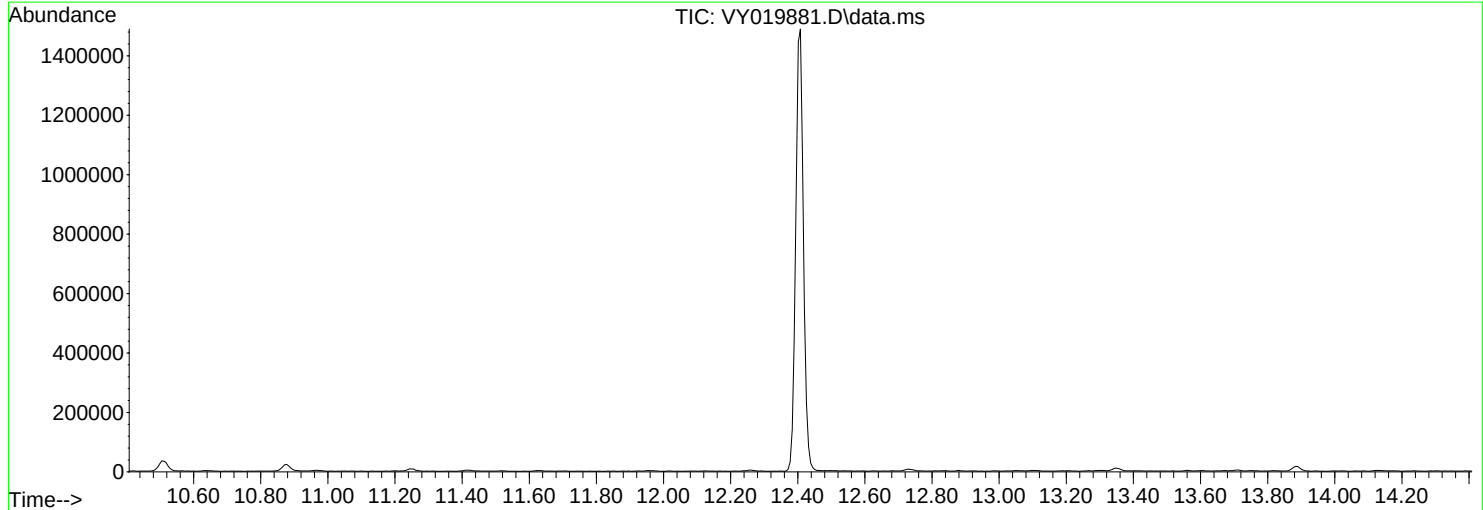
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	22.4	66352	PASS
75	95	30	60	56.0	165725	PASS
95	95	100	100	100.0	295936	PASS
96	95	5	9	6.3	18775	PASS
173	174	0.00	2	1.1	2529	PASS
174	95	50	100	76.9	227477	PASS
175	174	5	9	7.3	16688	PASS
176	174	95	101	96.2	218837	PASS
177	176	5	9	6.5	14261	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019881.D
Acq On : 14 Oct 2024 09:19
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	23.1	58240	PASS
75	95	30	60	55.4	139389	PASS
95	95	100	100	100.0	251627	PASS
96	95	5	9	6.8	17153	PASS
173	174	0.00	2	1.2	2378	PASS
174	95	50	100	76.1	191573	PASS
175	174	5	9	7.3	13966	PASS
176	174	95	101	95.5	182955	PASS
177	176	5	9	6.8	12416	PASS

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1015WBL01	SDG No.:	P4397
Lab Sample ID:	VX1015WBL01	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
VX043391.D	1		10/15/24 09:31	VX101524

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:	VX1015WBL01	SDG No.:	P4397
Lab Sample ID:	VX1015WBL01	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
VX043391.D	1		10/15/24 09:31	VX101524

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	50.4		70 (74) - 130 (125)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		70 (75) - 130 (124)	95%	SPK: 50
2037-26-5	Toluene-d8	49.6		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.6		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	94400	5.55			
540-36-3	1,4-Difluorobenzene	171000	6.757			
3114-55-4	Chlorobenzene-d5	145000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	64800	12.024			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1015WBL01	SDG No.:	P4397
Lab Sample ID:	VX1015WBL01	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
VX043391.D	1		10/15/24 09:31	VX101524

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

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043391.D
Acq On : 15 Oct 2024 09:31
Operator : JC/MD
Sample : VX1015WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBL01

Quant Time: Oct 16 07:15:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	94368	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	170879	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	144567	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	64756	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	77644	50.380	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	100.760%
35) Dibromofluoromethane	5.385	113	56082	47.590	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.180%
50) Toluene-d8	8.647	98	202475	49.579	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.160%
62) 4-Bromofluorobenzene	11.079	95	72144	48.626	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.260%

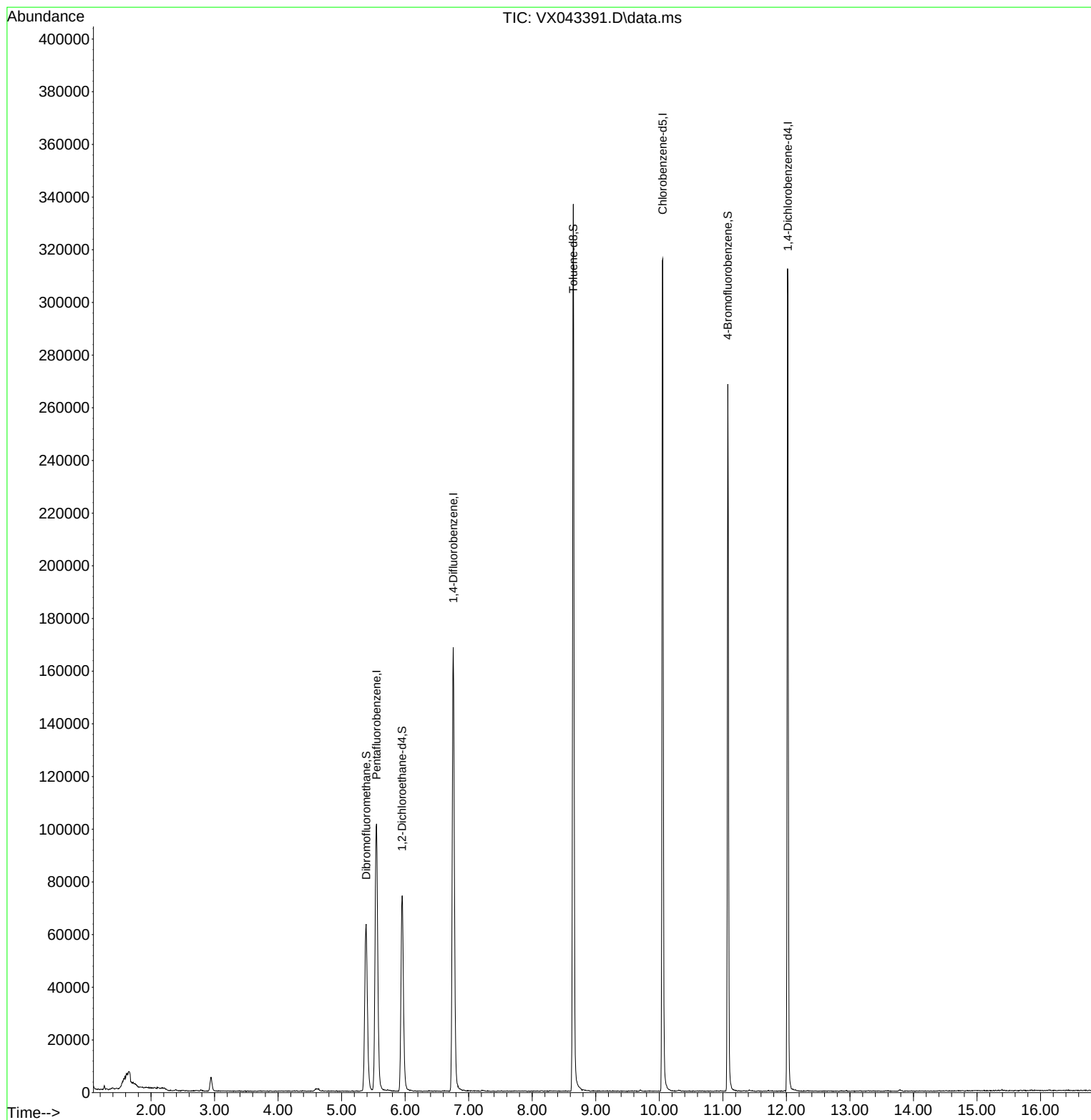
Target Compounds	Qvalue

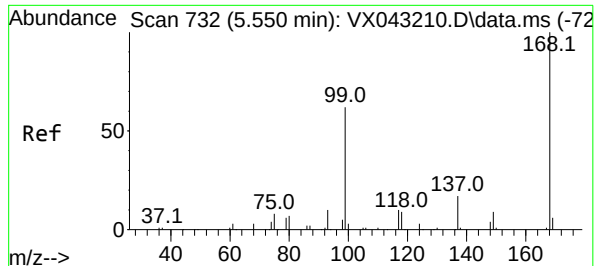
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043391.D
Acq On : 15 Oct 2024 09:31
Operator : JC/MD
Sample : VX1015WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBL01

Quant Time: Oct 16 07:15:03 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 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: VX043391.D

Acq: 15 Oct 2024 09:31

Instrument :

MSVOA_X

ClientSampleId :

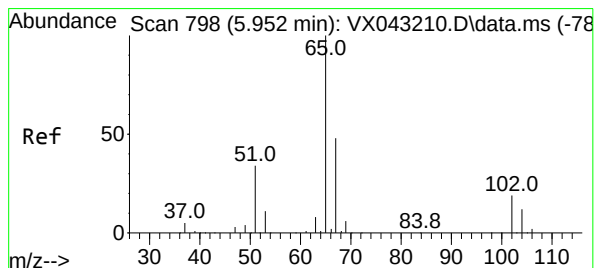
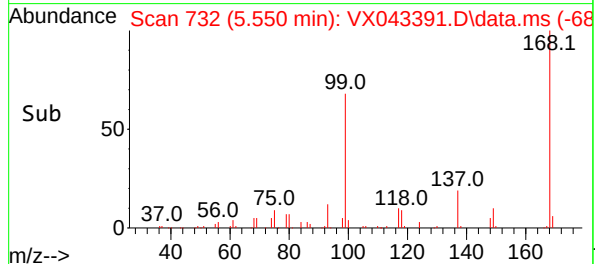
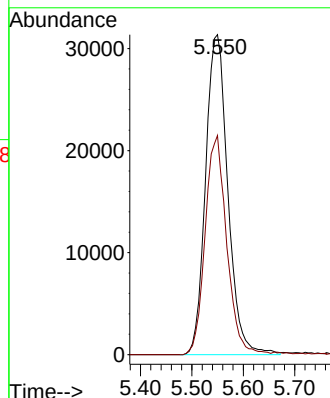
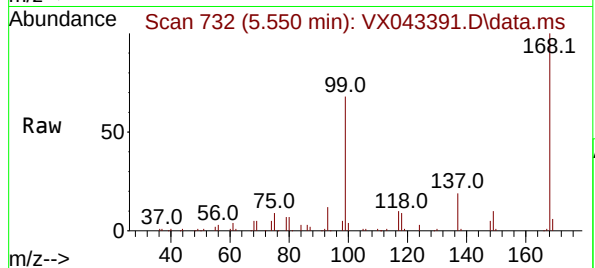
VX1015WBL01

Tgt Ion:168 Resp: 94368

Ion Ratio Lower Upper

168 100

99 68.5 49.7 74.5



#33

1,2-Dichloroethane-d4

Concen: 50.380 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX043391.D

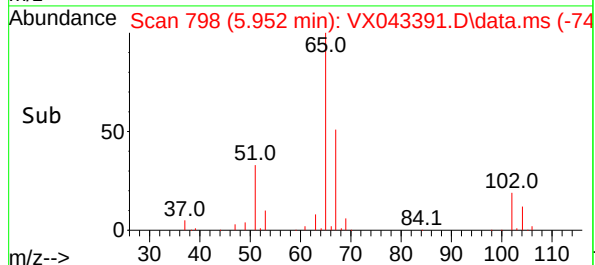
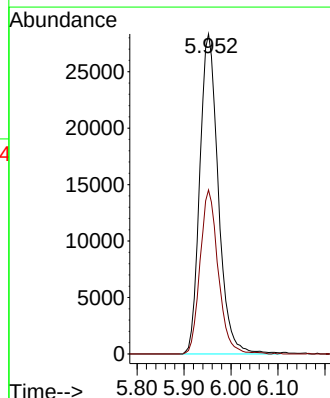
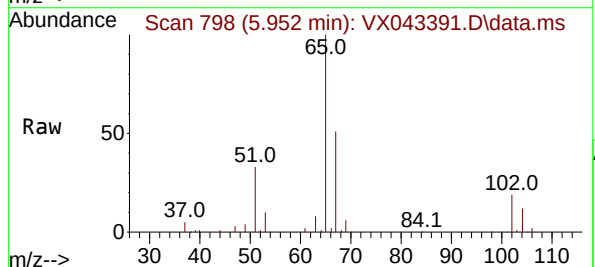
Acq: 15 Oct 2024 09:31

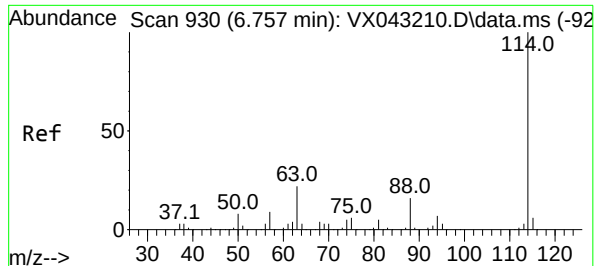
Tgt Ion: 65 Resp: 77644

Ion Ratio Lower Upper

65 100

67 50.2 0.0 99.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX043391.D

Acq: 15 Oct 2024 09:31

Instrument :

MSVOA_X

ClientSampleId :

VX1015WBL01

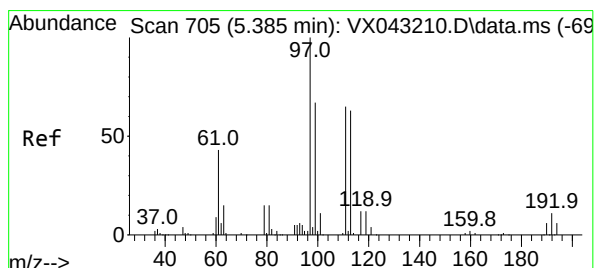
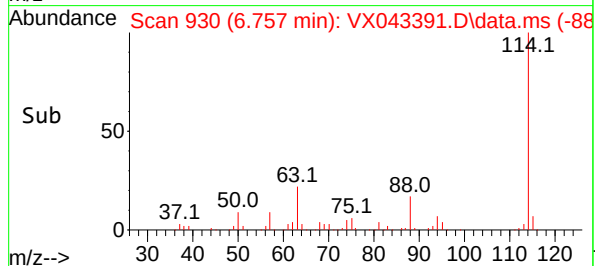
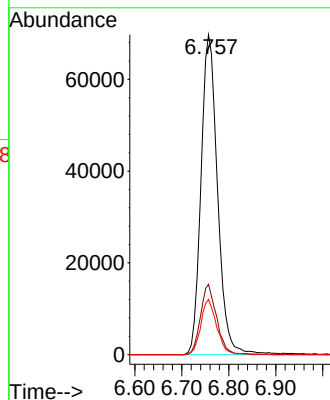
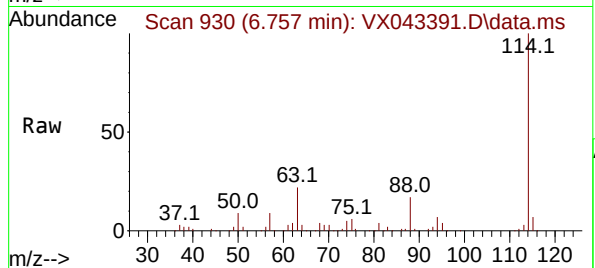
Tgt Ion:114 Resp: 170879

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.0

88 17.2 0.0 33.0



#35

Dibromofluoromethane

Concen: 47.590 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX043391.D

Acq: 15 Oct 2024 09:31

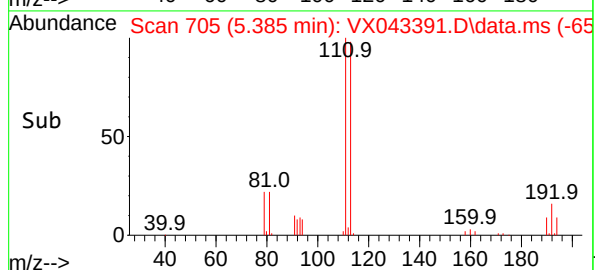
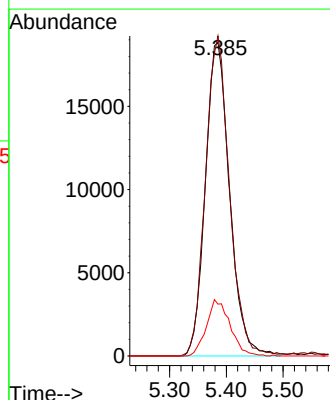
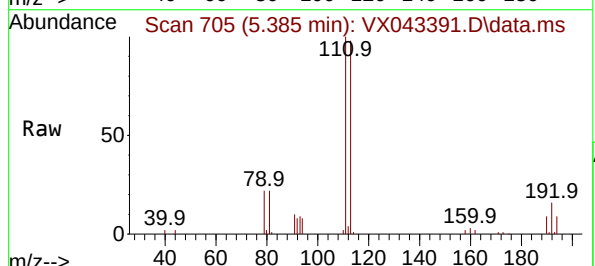
Tgt Ion:113 Resp: 56082

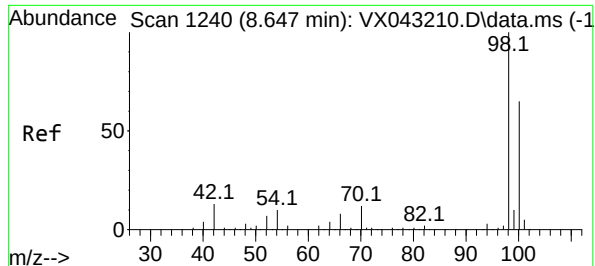
Ion Ratio Lower Upper

113 100

111 101.4 83.4 125.0

192 17.5 14.1 21.1





#50

Toluene-d8

Concen: 49.579 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX043391.D

Acq: 15 Oct 2024 09:31

Instrument :

MSVOA_X

ClientSampleId :

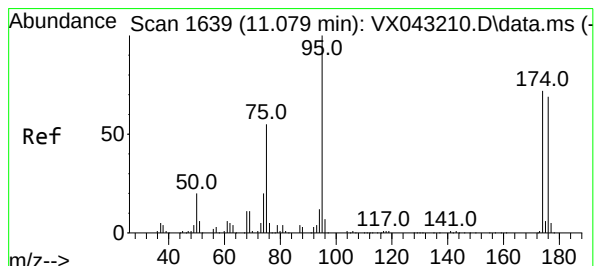
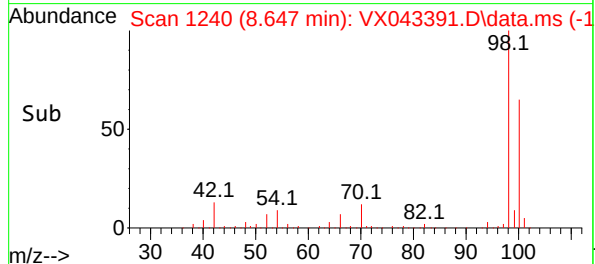
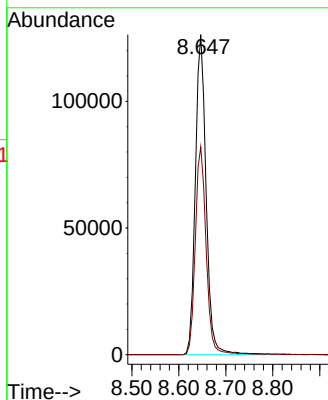
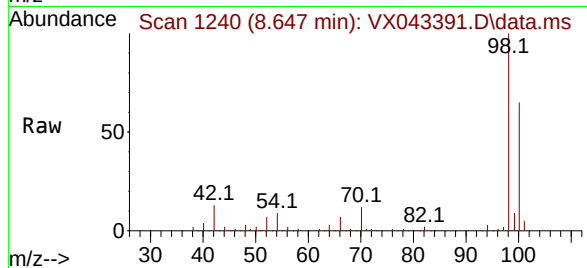
VX1015WBL01

Tgt Ion: 98 Resp: 202475

Ion Ratio Lower Upper

98 100

100 65.4 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 48.626 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX043391.D

Acq: 15 Oct 2024 09:31

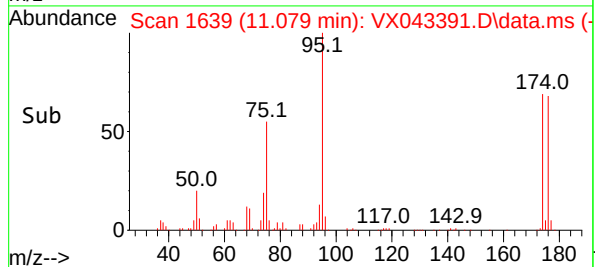
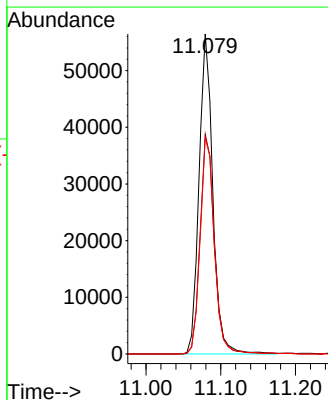
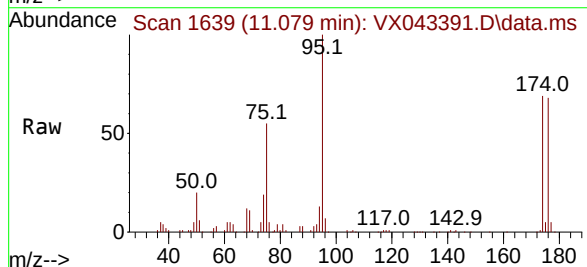
Tgt Ion: 95 Resp: 72144

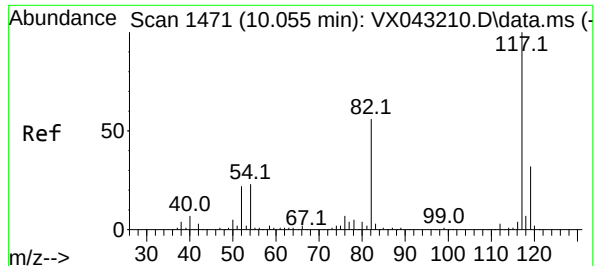
Ion Ratio Lower Upper

95 100

174 71.1 0.0 145.0

176 69.4 0.0 143.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX043391.D

Acq: 15 Oct 2024 09:31

Instrument :

MSVOA_X

ClientSampleId :

VX1015WBL01

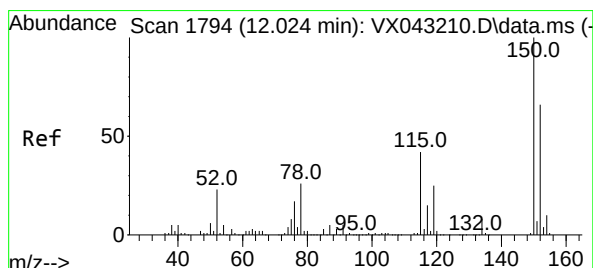
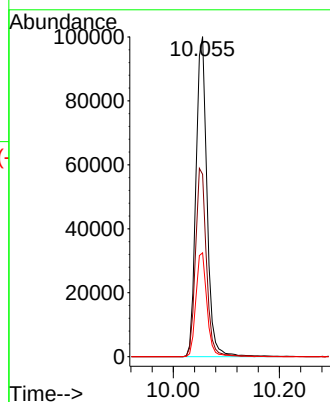
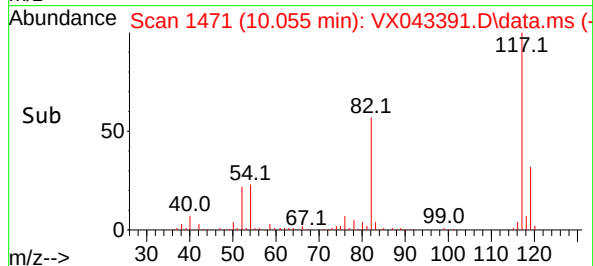
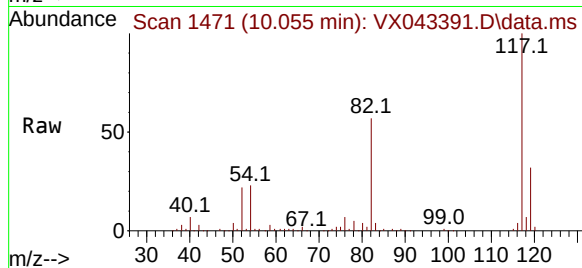
Tgt Ion:117 Resp: 144567

Ion Ratio Lower Upper

117 100

82 57.0 45.0 67.6

119 32.4 25.3 37.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX043391.D

Acq: 15 Oct 2024 09:31

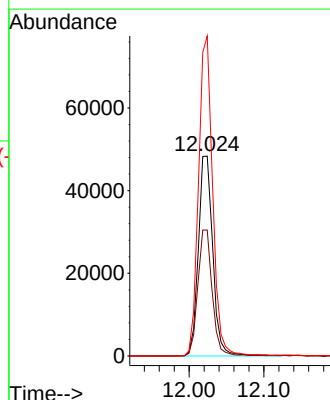
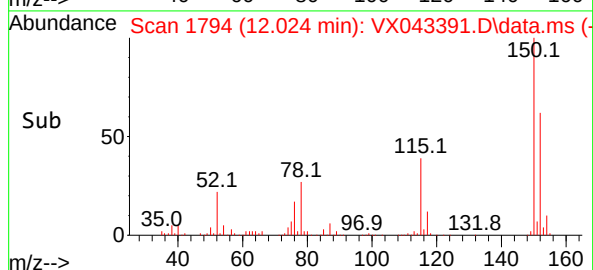
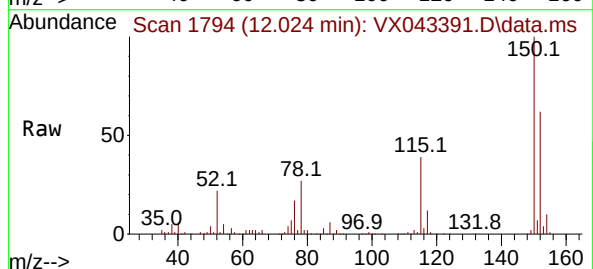
Tgt Ion:152 Resp: 64756

Ion Ratio Lower Upper

152 100

115 62.9 44.1 132.3

150 156.8 0.0 347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043391.D
Acq On : 15 Oct 2024 09:31
Operator : JC/MD
Sample : VX1015WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBL01

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\82X100124W.M
Title : SW846 8260

Signal : TIC: VX043391.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.569	67	79	81	rBV5	3861	10152	1.86%	0.352%
2	2.940	297	304	314	rBV2	5269	12136	2.22%	0.421%
3	5.385	694	705	719	rBV2	63310	185709	34.01%	6.445%
4	5.550	721	732	749	rVB	101046	295188	54.05%	10.244%
5	5.952	788	798	813	rBV	74295	201887	36.97%	7.006%
6	6.757	921	930	946	rBV	168561	406571	74.45%	14.109%
7	8.647	1234	1240	1260	rBV	336670	546095	100.00%	18.951%
8	10.055	1465	1471	1492	rBV	315999	465848	85.31%	16.166%
9	11.079	1634	1639	1652	rBV	268371	346002	63.36%	12.007%
10	12.018	1788	1793	1804	rBV	312389	412065	75.46%	14.300%

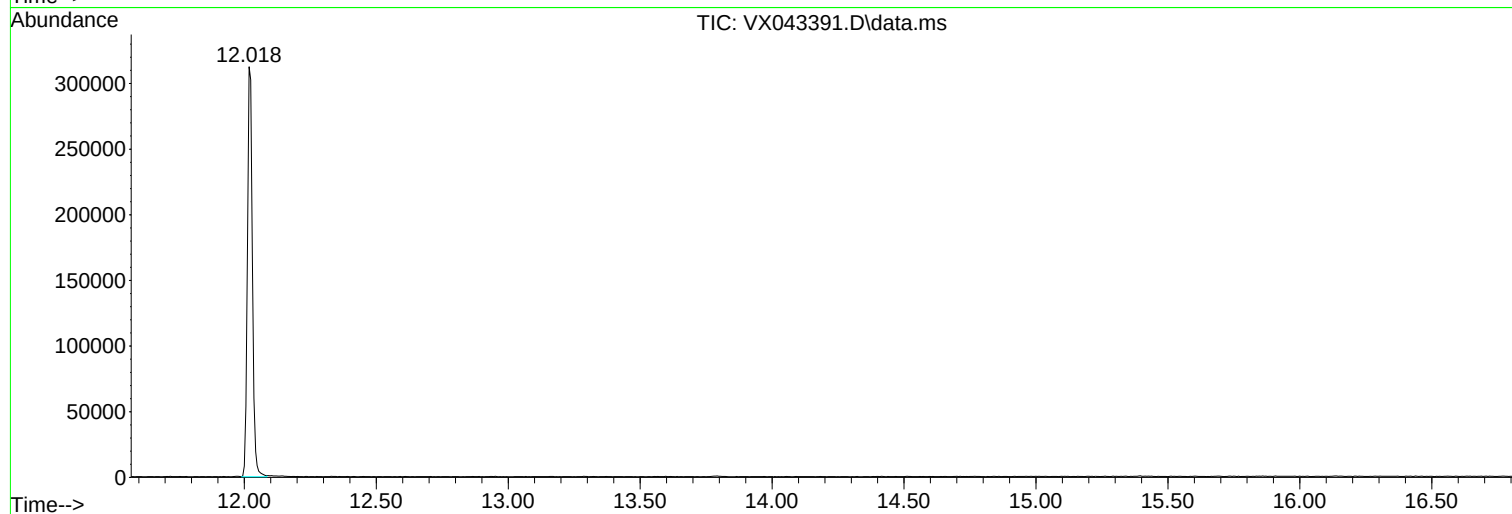
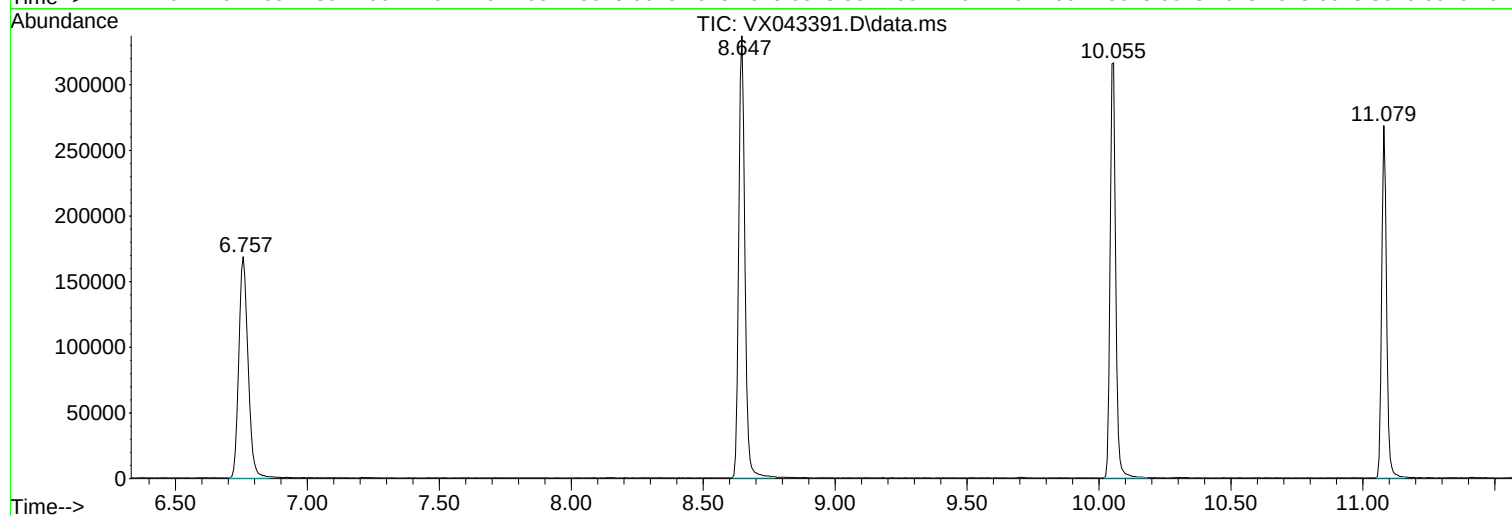
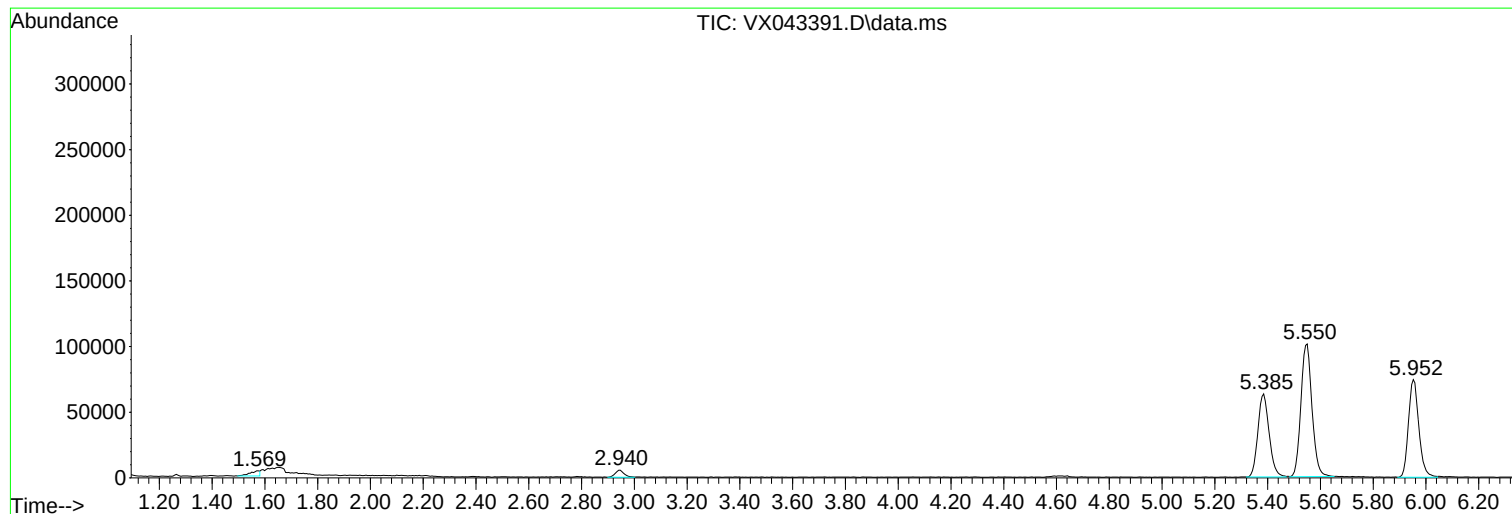
Sum of corrected areas: 2881653

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043391.D
Acq On : 15 Oct 2024 09:31
Operator : JC/MD
Sample : VX1015WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043391.D
Acq On : 15 Oct 2024 09:31
Operator : JC/MD
Sample : VX1015WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.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\VX101524\
Data File : VX043391.D
Acq On : 15 Oct 2024 09:31
Operator : JC/MD
Sample : VX1015WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260

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

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

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1014SBL01	SDG No.:	P4397
Lab Sample ID:	VY1014SBL01	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
VY019883.D	1		10/14/24 10:31	VY101424

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:	VY1014SBL01	SDG No.:	P4397
Lab Sample ID:	VY1014SBL01	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
VY019883.D	1		10/14/24 10:31	VY101424

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	52.0		70 (50) - 130 (163)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	48.9		70 (54) - 130 (147)	98%	SPK: 50
2037-26-5	Toluene-d8	50.2		70 (58) - 130 (134)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.3		70 (29) - 130 (146)	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	272000	7.713			
540-36-3	1,4-Difluorobenzene	541000	8.616			
3114-55-4	Chlorobenzene-d5	470000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	157000	13.346			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VY1014SBL01		SDG No.:	P4397
Lab Sample ID:	VY1014SBL01		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
VY019883.D	1		10/14/24 10:31	VY101424

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

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
 Data File : VY019883.D
 Acq On : 14 Oct 2024 10:31
 Operator : SY/MD
 Sample : VY1014SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1014SBL01

Quant Time: Oct 15 01:33:00 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	7.713	168	272092	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	541333	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	470368	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	156619	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	174249	52.011	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	104.020%
35) Dibromofluoromethane	7.634	113	174734	48.915	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.820%
50) Toluene-d8	10.109	98	661718	50.162	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	100.320%
62) 4-Bromofluorobenzene	12.408	95	192068	40.295	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	80.600%

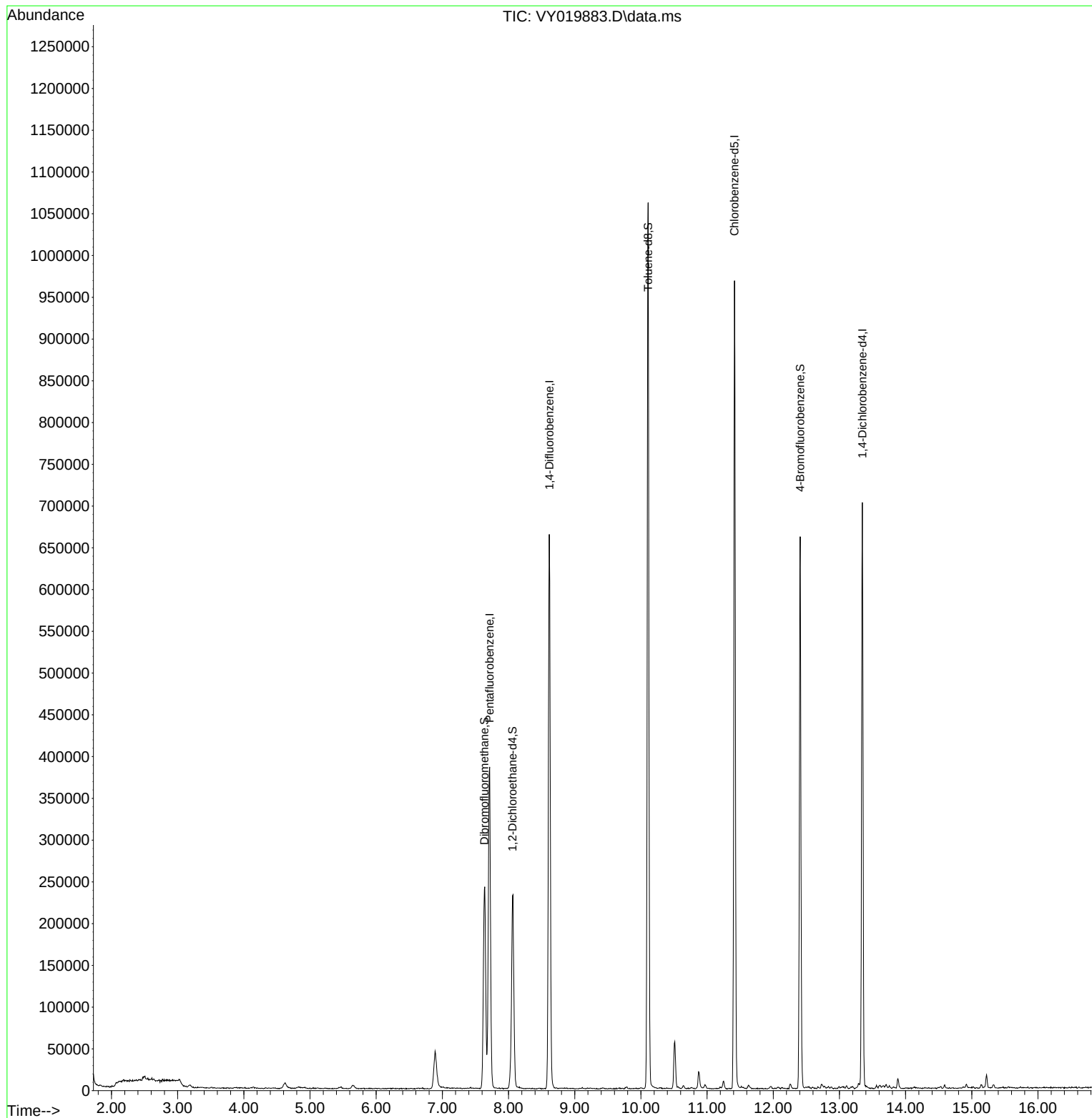
Target Compounds	Qvalue

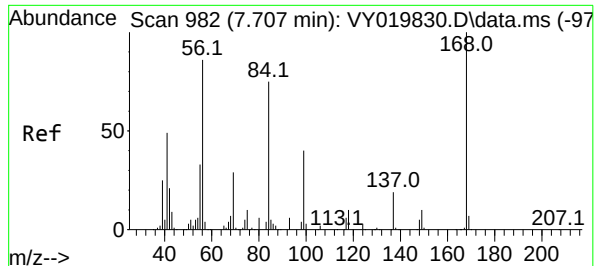
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019883.D
Acq On : 14 Oct 2024 10:31
Operator : SY/MD
Sample : VY1014SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBL01

Quant Time: Oct 15 01:33:00 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

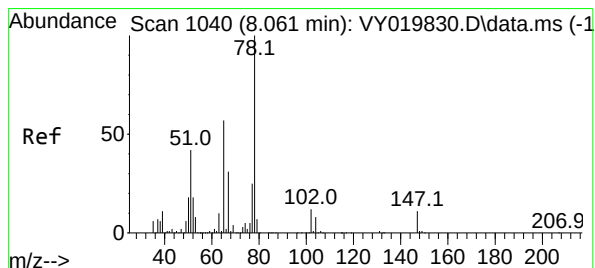
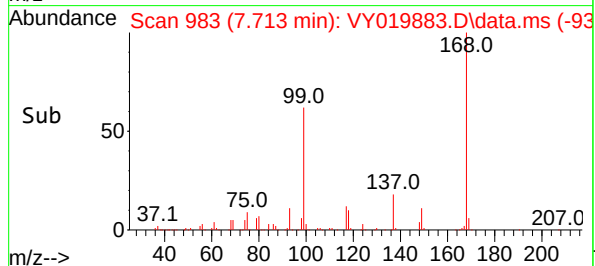
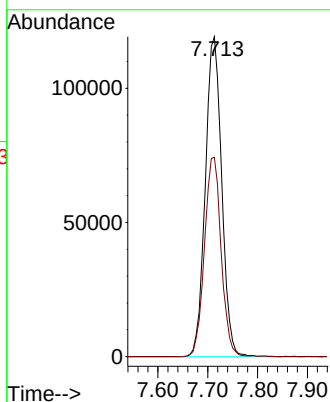
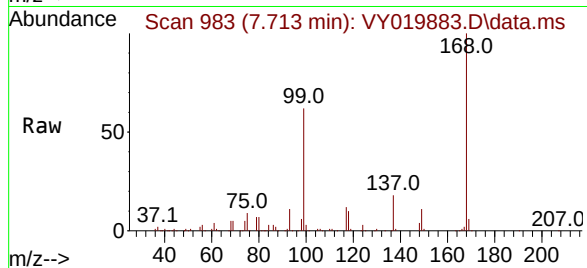




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY019883.D
Acq: 14 Oct 2024 10:31

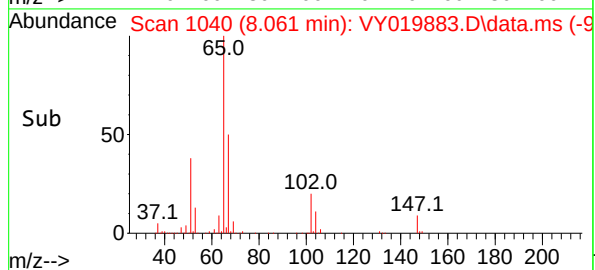
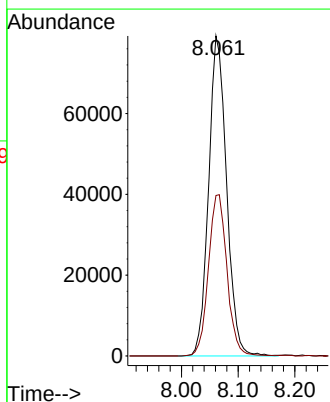
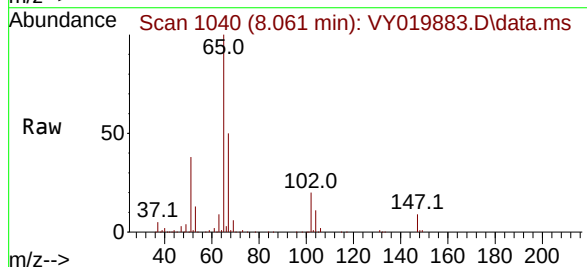
Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBL01

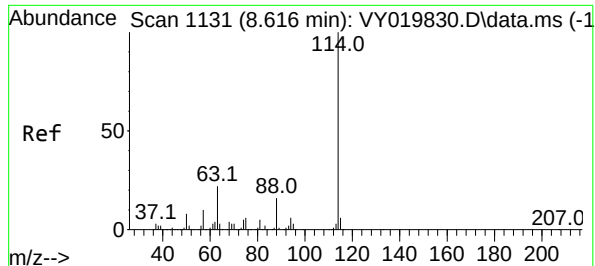
Tgt Ion:168 Resp: 272092
Ion Ratio Lower Upper
168 100
99 62.3 39.1 58.7#



#33
1,2-Dichloroethane-d4
Concen: 52.011 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019883.D
Acq: 14 Oct 2024 10:31

Tgt Ion: 65 Resp: 174249
Ion Ratio Lower Upper
65 100
67 52.1 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: VY019883.D

Acq: 14 Oct 2024 10:31

Instrument :

MSVOA_Y

ClientSampleId :

VY1014SBL01

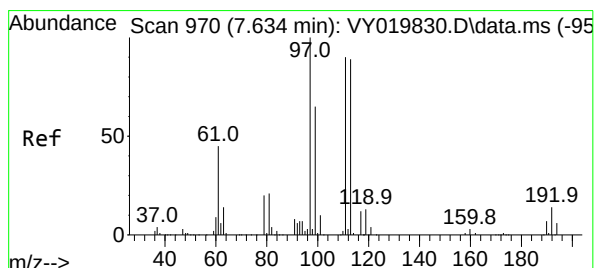
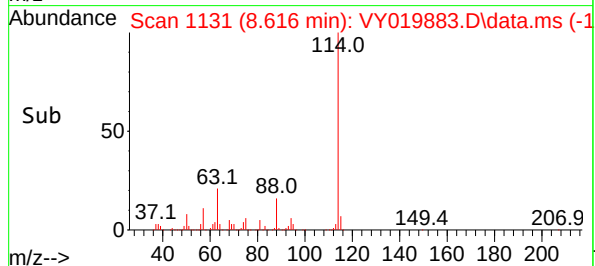
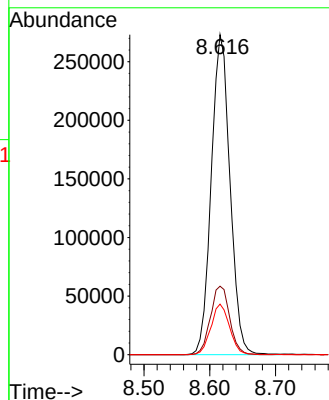
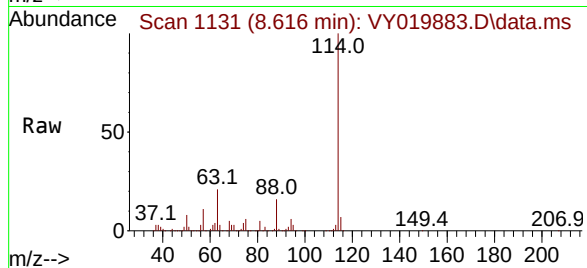
Tgt Ion:114 Resp: 541333

Ion Ratio Lower Upper

114 100

63 21.4 0.0 35.0

88 15.8 0.0 27.2



#35

Dibromofluoromethane

Concen: 48.915 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY019883.D

Acq: 14 Oct 2024 10:31

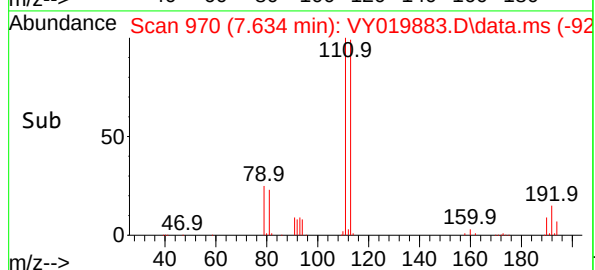
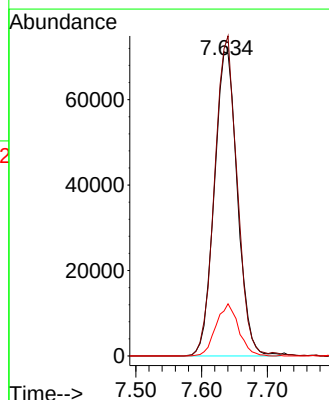
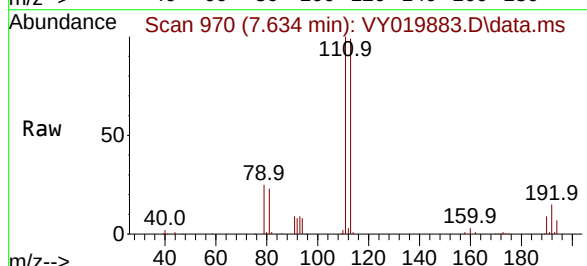
Tgt Ion:113 Resp: 174734

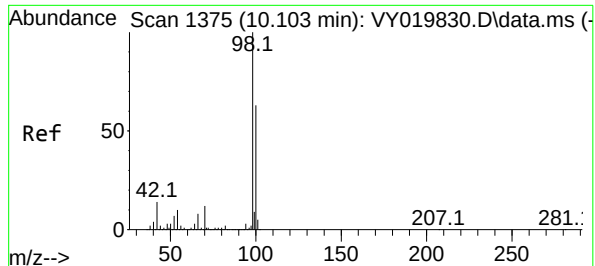
Ion Ratio Lower Upper

113 100

111 101.7 82.2 123.4

192 16.7 15.9 23.9





#50

Toluene-d8

Concen: 50.162 ug/l

RT: 10.109 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY019883.D

Acq: 14 Oct 2024 10:31

Instrument :

MSVOA_Y

ClientSampleId :

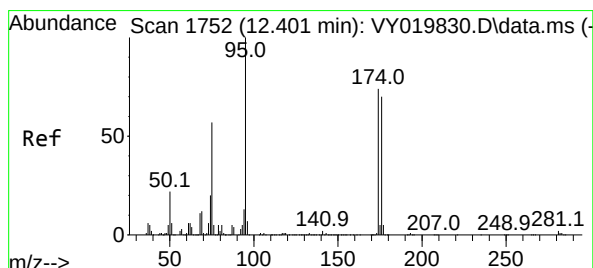
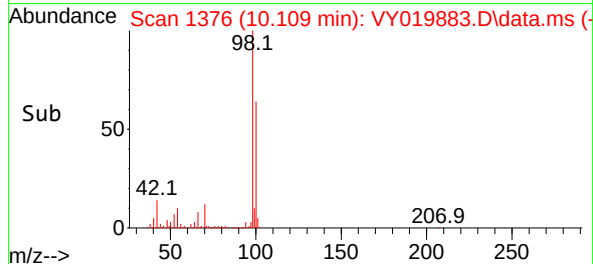
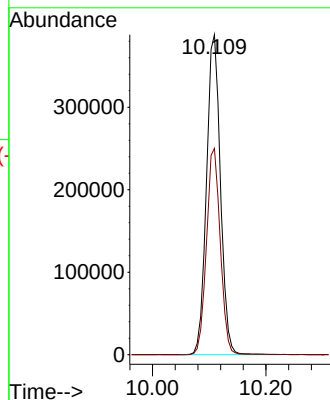
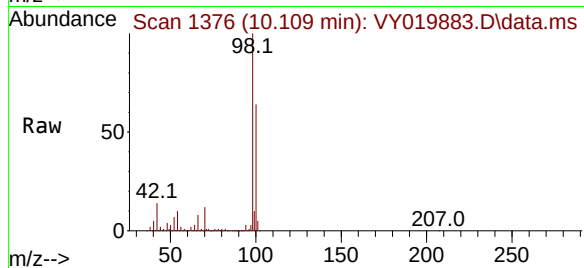
VY1014SBL01

Tgt Ion: 98 Resp: 661718

Ion Ratio Lower Upper

98 100

100 64.0 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 40.295 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.000 min

Lab File: VY019883.D

Acq: 14 Oct 2024 10:31

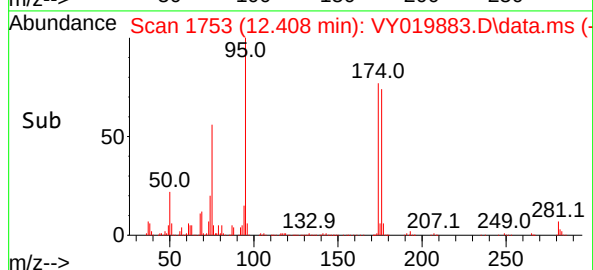
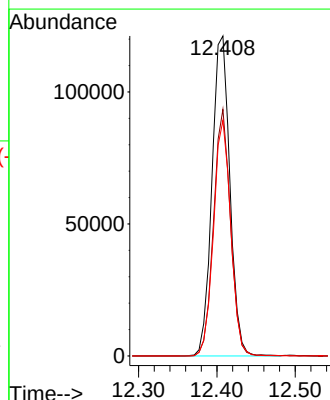
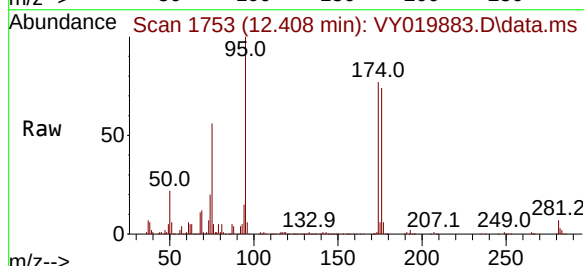
Tgt Ion: 95 Resp: 192068

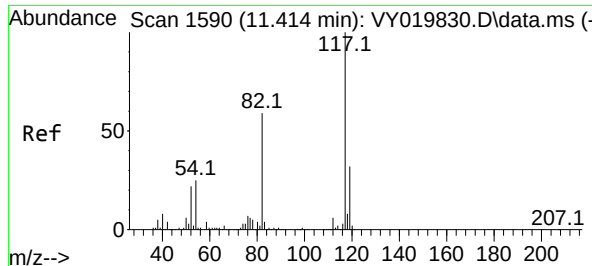
Ion Ratio Lower Upper

95 100

174 73.1 0.0 175.6

176 71.0 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: VY019883.D

Acq: 14 Oct 2024 10:31

Instrument :

MSVOA_Y

ClientSampleId :

VY1014SBL01

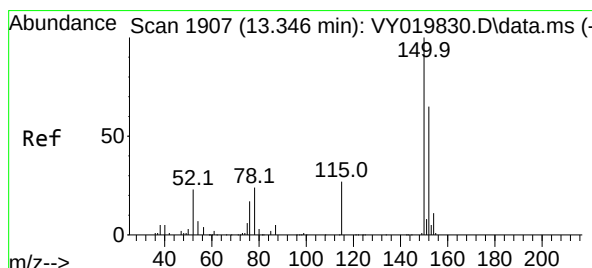
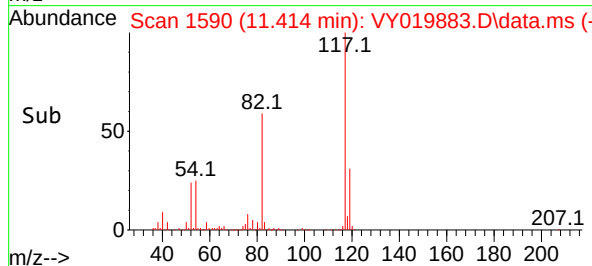
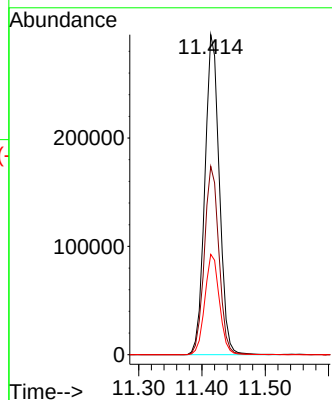
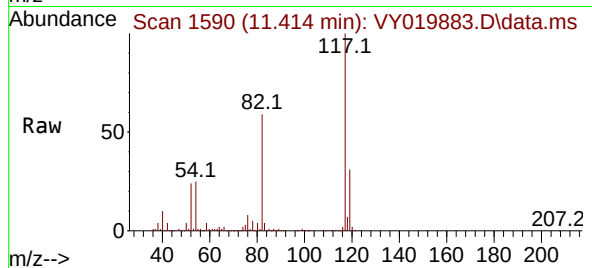
Tgt Ion:117 Resp: 470368

Ion Ratio Lower Upper

117 100

82 58.8 42.4 63.6

119 31.3 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: VY019883.D

Acq: 14 Oct 2024 10:31

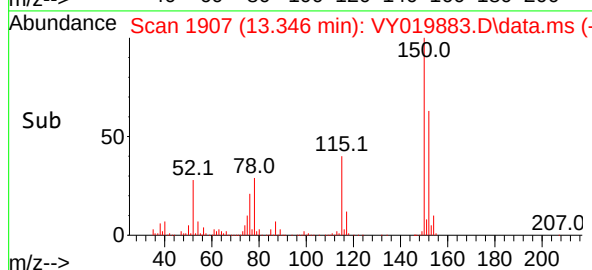
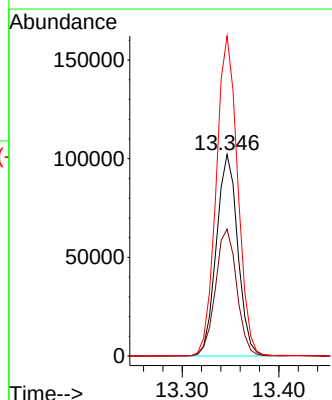
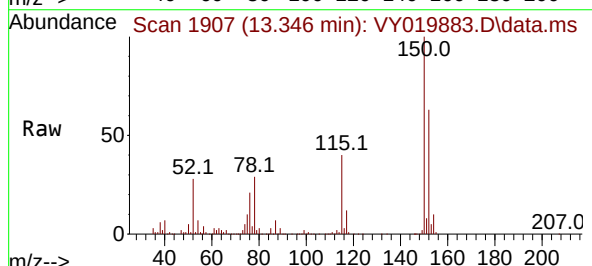
Tgt Ion:152 Resp: 156619

Ion Ratio Lower Upper

152 100

115 63.0 28.2 84.7

150 159.5 0.0 345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
 Data File : VY019883.D
 Acq On : 14 Oct 2024 10:31
 Operator : SY/MD
 Sample : VY1014SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1014SBL01

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: VY019883.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	466	476	484	rBV7	6467	20193	1.11%	0.218%
2	6.890	838	848	863	rBV	44706	140168	7.70%	1.511%
3	7.640	959	971	976	rBV	241828	590868	32.47%	6.368%
4	7.713	976	983	995	rVB	384432	888483	48.83%	9.575%
5	8.067	1027	1041	1055	rBV2	232130	570570	31.36%	6.149%
6	8.616	1121	1131	1143	rBV	664075	1339046	73.60%	14.431%
7	10.109	1365	1376	1389	rBV	1060941	1819479	100.00%	19.608%
8	10.512	1434	1442	1448	rBV2	56430	108517	5.96%	1.169%
9	10.871	1493	1501	1510	rBV3	20426	41726	2.29%	0.450%
10	11.249	1557	1563	1571	rVB2	9320	18305	1.01%	0.197%
11	11.414	1583	1590	1604	rBV	967195	1548142	85.09%	16.684%
12	12.408	1745	1753	1763	rBV2	660811	1079213	59.31%	11.631%
13	13.346	1900	1907	1914	rVB	699218	1070011	58.81%	11.531%
14	13.883	1991	1995	2003	rVB2	11735	20694	1.14%	0.223%
15	15.224	2209	2215	2220	rVB	15323	23676	1.30%	0.255%

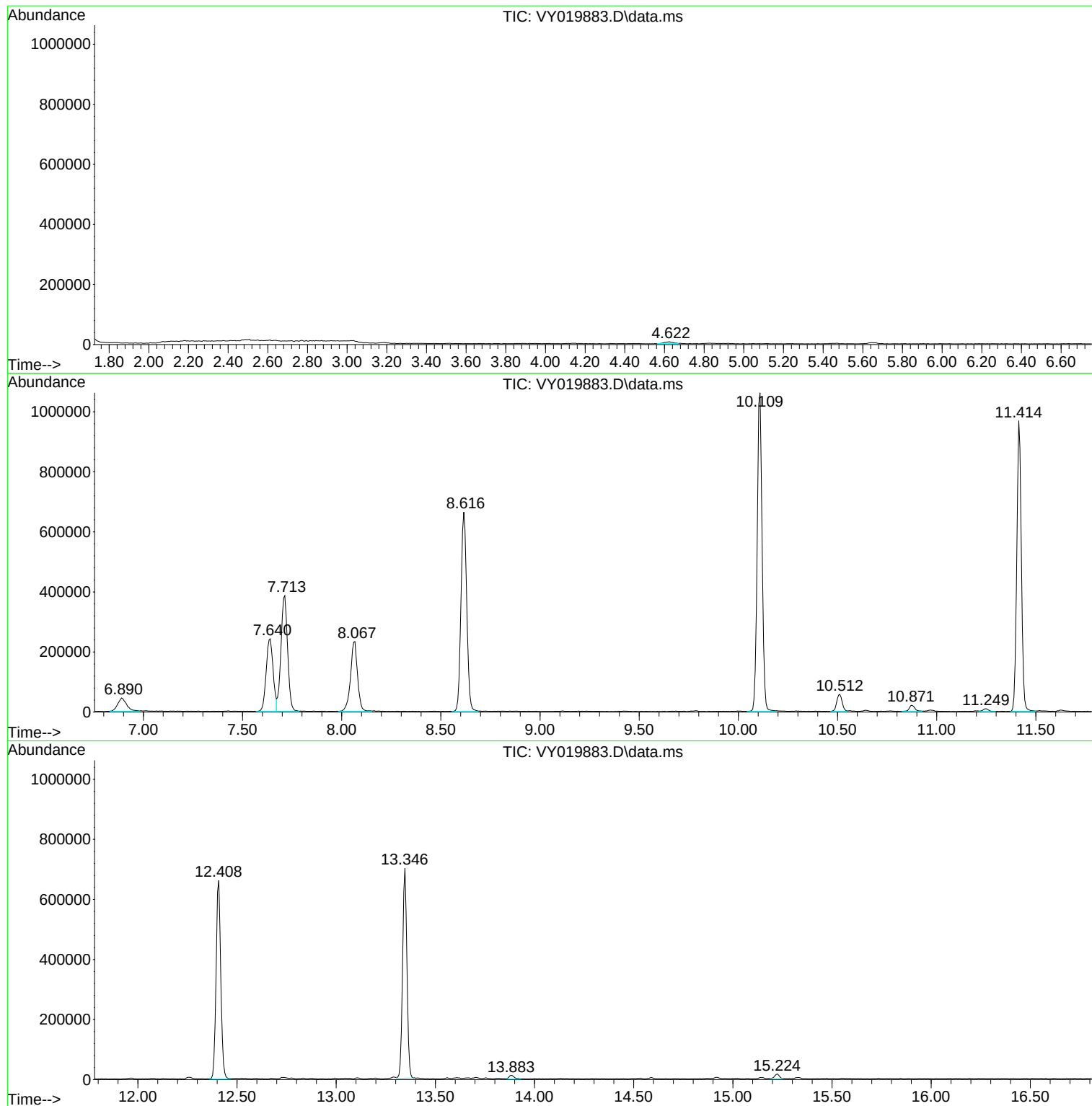
Sum of corrected areas: 9279091

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019883.D
Acq On : 14 Oct 2024 10:31
Operator : SY/MD
Sample : VY1014SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBL01

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\VY101424\
Data File : VY019883.D
Acq On : 14 Oct 2024 10:31
Operator : SY/MD
Sample : VY1014SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBL01

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\VY101424\
Data File : VY019883.D
Acq On : 14 Oct 2024 10:31
Operator : SY/MD
Sample : VY1014SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBL01

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	#	RT	Resp	Conc
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1015WBS01	SDG No.:	P4397
Lab Sample ID:	VX1015WBS01	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
VX043392.D	1		10/15/24 09:54	VX101524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.3		0.21	1.00	ug/L
74-87-3	Chloromethane	20.5		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	21.1		0.34	1.00	ug/L
74-83-9	Bromomethane	21.6		1.40	5.00	ug/L
75-00-3	Chloroethane	24.7		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	22.5		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	20.3		0.26	1.00	ug/L
67-64-1	Acetone	120		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.6		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	20.0		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.3		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.9		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	21.9		0.23	1.00	ug/L
110-82-7	Cyclohexane	21.6		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.7		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	21.3		0.25	1.00	ug/L
74-97-5	Bromochloromethane	19.6		0.18	1.00	ug/L
67-66-3	Chloroform	21.9		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.8		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	20.8		0.19	1.00	ug/L
71-43-2	Benzene	21.1		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.8		0.24	1.00	ug/L
79-01-6	Trichloroethene	20.4		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.5		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.1		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	5.00	ug/L
108-88-3	Toluene	20.8		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:	VX1015WBS01	SDG No.:	P4397
Lab Sample ID:	VX1015WBS01	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
VX043392.D	1		10/15/24 09:54	VX101524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.8		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.7		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.2		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	20.0		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.0		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	21.7		0.25	1.00	ug/L
108-90-7	Chlorobenzene	21.0		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	21.4		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	41.6		0.31	2.00	ug/L
95-47-6	o-Xylene	21.3		0.14	1.00	ug/L
100-42-5	Styrene	21.2		0.16	1.00	ug/L
75-25-2	Bromoform	19.1		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	21.8		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.7		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	21.2		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.7		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	21.2		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.8		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.2		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	21.2		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.2		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	50.0		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.2		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	99000	5.55			
540-36-3	1,4-Difluorobenzene	177000	6.757			
3114-55-4	Chlorobenzene-d5	148000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	66700	12.018			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VX1015WBS01		SDG No.:	P4397
Lab Sample ID:	VX1015WBS01		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
VX043392.D	1		10/15/24 09:54	VX101524

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

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
 Data File : VX043392.D
 Acq On : 15 Oct 2024 09:54
 Operator : JC/MD
 Sample : VX1015WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1015WBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/16/2024
 Supervised By :Mahesh Dadoda 10/16/2024

Quant Time: Oct 16 07:16:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:50:57 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	98951	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	177022	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	148487	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	66651	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	87646	54.236	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.480%			
35) Dibromofluoromethane	5.385	113	63812	52.270	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.540%			
50) Toluene-d8	8.647	98	211521	49.997	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.000%			
62) 4-Bromofluorobenzene	11.079	95	78763	51.245	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.500%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	23323	20.264	ug/l	95
3) Chloromethane	1.294	50	24303	20.502	ug/l	97
4) Vinyl Chloride	1.374	62	25006	21.060	ug/l	99
5) Bromomethane	1.599	94	10482	21.608	ug/l	94
6) Chloroethane	1.666	64	10924	24.706	ug/l	99
7) Trichlorofluoromethane	1.874	101	39936	22.511	ug/l	99
8) Diethyl Ether	2.136	74	14694	21.284	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.325	101	23656	21.367	ug/l	99
10) Methyl Iodide	2.447	142	28258	20.322	ug/l	98
11) Tert butyl alcohol	2.995	59	35128	114.230	ug/l	97
12) 1,1-Dichloroethene	2.313	96	22270	20.257	ug/l	99
13) Acrolein	2.239	56	23974	82.540	ug/l	99
14) Allyl chloride	2.660	41	39226	21.718	ug/l	99
15) Acrylonitrile	3.069	53	67200	107.017	ug/l	97
16) Acetone	2.386	43	79100	117.209	ug/l	99
17) Carbon Disulfide	2.508	76	47165	17.638	ug/l	97
18) Methyl Acetate	2.709	43	33879	20.012	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	86315	21.945	ug/l	99
20) Methylene Chloride	2.788	84	25276	20.313	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	22907	20.936	ug/l	95
22) Diisopropyl ether	3.764	45	80623	22.192	ug/l	96
23) Vinyl Acetate	3.721	43	355067	92.031	ug/l	99
24) 1,1-Dichloroethane	3.605	63	46320	21.886	ug/l	100
25) 2-Butanone	4.562	43	101614	109.814	ug/l	100
26) 2,2-Dichloropropane	4.471	77	44797	22.246	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	29088	21.317	ug/l	98
28) Bromochloromethane	4.898	49	16388	19.627	ug/l	94
29) Tetrahydrofuran	5.007	42	62156	105.443	ug/l	98
30) Chloroform	5.093	83	50989	21.938	ug/l	99
31) Cyclohexane	5.464	56	37680	21.609	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	46562	21.811	ug/l	100
36) 1,1-Dichloropropene	5.690	75	31803	20.621	ug/l	99
37) Ethyl Acetate	4.715	43	38492	20.783	ug/l	99
38) Carbon Tetrachloride	5.672	117	37705	20.651	ug/l	99
39) Methylcyclohexane	7.379	83	40363	20.808	ug/l	99
40) Benzene	6.038	78	98682	21.104	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
 Data File : VX043392.D
 Acq On : 15 Oct 2024 09:54
 Operator : JC/MD
 Sample : VX1015WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1015WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/16/2024
 Supervised By : Mahesh Dadoda 10/16/2024

Quant Time: Oct 16 07:16:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:50:57 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	20170	20.921	ug/l	97
42) 1,2-Dichloroethane	6.086	62	41484	21.771	ug/l	100
43) Isopropyl Acetate	6.342	43	64748	21.165	ug/l	98
44) Trichloroethene	7.123	130	25252	20.360	ug/l	92
45) 1,2-Dichloropropane	7.434	63	24696	21.521	ug/l	97
46) Dibromomethane	7.580	93	19617	21.334	ug/l	98
47) Bromodichloromethane	7.818	83	36409	20.140	ug/l	98
48) Methyl methacrylate	7.690	41	30277	20.171	ug/l	98
49) 1,4-Dioxane	7.671	88	11638	398.868	ug/l	95
51) 4-Methyl-2-Pentanone	8.574	43	191598	103.122	ug/l	99
52) Toluene	8.714	92	61038	20.828	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	37314	20.771	ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	39815	20.664	ug/l	98
55) 1,1,2-Trichloroethane	9.153	97	24683	21.193	ug/l	98
56) Ethyl methacrylate	9.116	69	39487	20.737	ug/l	98
57) 1,3-Dichloropropane	9.305	76	41841	21.093	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	87091	101.469	ug/l	99
59) 2-Hexanone	9.433	43	147855	105.233	ug/l	99
60) Dibromochloromethane	9.519	129	27068	20.033	ug/l	100
61) 1,2-Dibromoethane	9.610	107	26272	20.995	ug/l	97
64) Tetrachloroethene	9.269	164	22377	21.718	ug/l	95
65) Chlorobenzene	10.079	112	66894	20.955	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	23706	21.001	ug/l	97
67) Ethyl Benzene	10.189	91	117854	21.359	ug/l	99
68) m/p-Xylenes	10.299	106	86834	41.642	ug/l	98
69) o-Xylene	10.640	106	44049	21.258	ug/l	98
70) Styrene	10.653	104	71067	21.163	ug/l	99
71) Bromoform	10.799	173	16531	19.117	ug/l #	99
73) Isopropylbenzene	10.957	105	112733	21.755	ug/l	100
74) N-amyl acetate	10.842	43	51665	21.003	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.213	83	36569	21.663	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	31916m	21.588	ug/l	
77) Bromobenzene	11.195	156	26298	20.854	ug/l	97
78) n-propylbenzene	11.305	91	125998	22.149	ug/l	100
79) 2-Chlorotoluene	11.360	91	79382	21.705	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	93304	21.828	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	11576	20.293	ug/l	95
82) 4-Chlorotoluene	11.451	91	90686	21.767	ug/l	99
83) tert-Butylbenzene	11.713	119	95578	21.703	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	94975	22.082	ug/l	100
85) sec-Butylbenzene	11.890	105	112383	21.527	ug/l	100
86) p-Isopropyltoluene	12.006	119	94854	21.778	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	47050	21.180	ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	47505	20.742	ug/l	99
89) n-Butylbenzene	12.329	91	78372	21.493	ug/l	98
90) Hexachloroethane	12.536	117	16249	19.892	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	48073	21.161	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8171	19.825	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	26405	20.161	ug/l	98
94) Hexachlorobutadiene	13.725	225	11102	21.383	ug/l	97
95) Naphthalene	13.774	128	98259	20.408	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	28648	21.200	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043392.D
Acq On : 15 Oct 2024 09:54
Operator : JC/MD
Sample : VX1015WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/16/2024
Supervised By :Mahesh Dadoda 10/16/2024

Quant Time: Oct 16 07:16:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

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

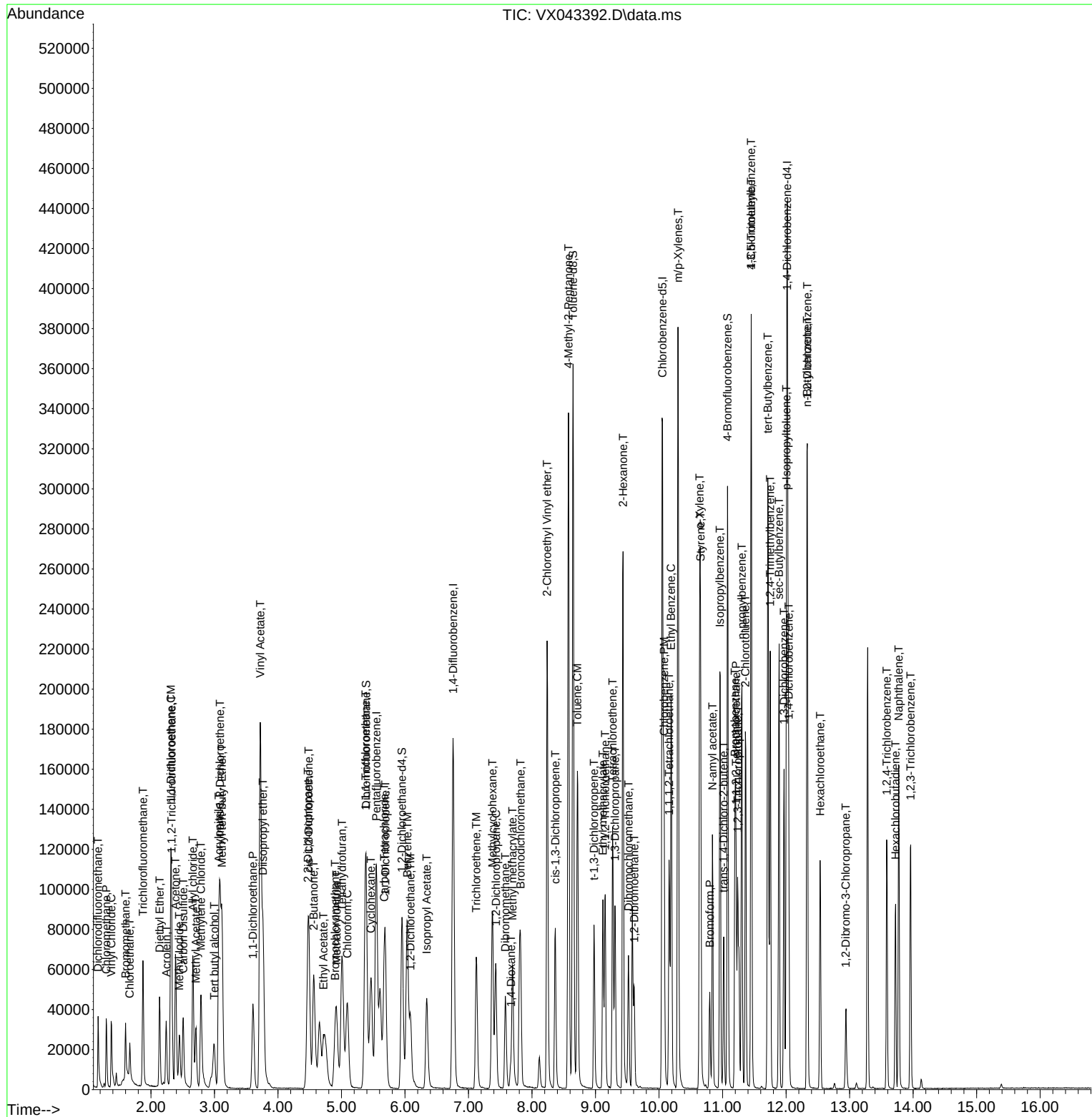
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043392.D
Acq On : 15 Oct 2024 09:54
Operator : JC/MD
Sample : VX1015WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBS01

Manual Integrations
APPROVED

Reviewed By : John Carlone 10/16/2024
Supervised By : Mahesh Dadoda 10/16/2024

Quant Time: Oct 16 07:16:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 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:	VY1014SBS01	SDG No.:	P4397
Lab Sample ID:	VY1014SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY019884.D	1		10/14/24 11:56	VY101424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.0		1.70	5.00	ug/Kg
74-87-3	Chloromethane	19.8		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.1		0.77	5.00	ug/Kg
74-83-9	Bromomethane	19.6		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.1		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	19.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	18.0		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	15.6		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.3		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	22.5		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	21.5		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	18.7		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.7		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.0		0.69	5.00	ug/Kg
78-93-3	2-Butanone	110		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.4		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.6		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	22.5		2.40	5.00	ug/Kg
67-66-3	Chloroform	21.0		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.7		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	17.5		0.87	5.00	ug/Kg
71-43-2	Benzene	19.7		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.8		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.1		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.5		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.6		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	20.0		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:	VY1014SBS01	SDG No.:	P4397
Lab Sample ID:	VY1014SBS01	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
VY019884.D	1		10/14/24 11:56	VY101424

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	19.6		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.4		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.0		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.2		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	17.8		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.6		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.4		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.2		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.4		0.70	5.00	ug/Kg
100-42-5	Styrene	19.9		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.0		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.0		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.3		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.4		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.5		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.9		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.7		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.4		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.1		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.2		70 (50) - 130 (163)	110%	SPK: 50
1868-53-7	Dibromofluoromethane	55.0		70 (54) - 130 (147)	110%	SPK: 50
2037-26-5	Toluene-d8	52.7		70 (58) - 130 (134)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.3		70 (29) - 130 (146)	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	287000	7.713			
540-36-3	1,4-Difluorobenzene	511000	8.616			
3114-55-4	Chlorobenzene-d5	443000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	215000	13.346			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VY1014SBS01		SDG No.:	P4397
Lab Sample ID:	VY1014SBS01		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
VY019884.D	1		10/14/24 11:56	VY101424

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

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
 Data File : VY019884.D
 Acq On : 14 Oct 2024 11:56
 Operator : SY/MD
 Sample : VY1014SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1014SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 10/15/2024
 Supervised By :Semsettin Yesilyurt 10/15/2024

Quant Time: Oct 15 01:33:22 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	7.713	168	286988	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	511012	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	442973	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	215154	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	194886	55.151	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery	=	110.300%	
35) Dibromofluoromethane	7.640	113	185574	55.032	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery	=	110.060%	
50) Toluene-d8	10.109	98	656078	52.685	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery	=	105.380%	
62) 4-Bromofluorobenzene	12.401	95	239750	53.283	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery	=	106.560%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.873	85	48103	18.005	ug/l	100
3) Chloromethane	2.074	50	68784	19.782	ug/l	98
4) Vinyl Chloride	2.208	62	73094	19.103	ug/l	99
5) Bromomethane	2.598	94	47520	19.621	ug/l	97
6) Chloroethane	2.739	64	49103	19.102	ug/l	97
7) Trichlorofluoromethane	3.062	101	107778	18.929	ug/l	94
8) Diethyl Ether	3.458	74	34268	19.803	ug/l	78
9) 1,1,2-Trichlorotrifluo...	3.830	101	65639	19.820	ug/l	91
10) Methyl Iodide	4.013	142	56153	16.765	ug/l	91
11) Tert butyl alcohol	4.854	59	36670	110.770	ug/l #	84
12) 1,1-Dichloroethene	3.799	96	55320	17.968	ug/l	83
13) Acrolein	3.659	56	27313	105.190	ug/l	95
14) Allyl chloride	4.391	41	107527	19.356	ug/l #	91
15) Acrylonitrile	5.061	53	87333	110.341	ug/l	98
16) Acetone	3.873	43	98031	106.570	ug/l #	80
17) Carbon Disulfide	4.110	76	128726	15.599	ug/l	99
18) Methyl Acetate	4.391	43	44678	22.547	ug/l #	88
19) Methyl tert-butyl Ether	5.128	73	179719	20.318	ug/l	99
20) Methylene Chloride	4.628	84	74794	21.547	ug/l #	89
21) trans-1,2-Dichloroethene	5.116	96	62725	18.719	ug/l	86
22) Diisopropyl ether	6.018	45	255869	21.146	ug/l #	87
23) Vinyl Acetate	5.964	43	707408	101.980	ug/l	94
24) 1,1-Dichloroethane	5.921	63	138940	20.657	ug/l	97
25) 2-Butanone	6.896	43	135756	110.256	ug/l #	78
26) 2,2-Dichloropropane	6.884	77	118851	19.841	ug/l	92
27) cis-1,2-Dichloroethene	6.896	96	85421	20.628	ug/l	83
28) Bromochloromethane	7.244	49	66566	22.485	ug/l #	73
29) Tetrahydrofuran	7.262	42	76767	109.194	ug/l #	82
30) Chloroform	7.427	83	143668	20.954	ug/l	98
31) Cyclohexane	7.707	56	106559	18.048	ug/l	95
32) 1,1,1-Trichloroethane	7.622	97	118528	19.726	ug/l	94
36) 1,1-Dichloropropene	7.841	75	91161	18.765	ug/l	95
37) Ethyl Acetate	6.988	43	56961	22.486	ug/l	95
38) Carbon Tetrachloride	7.817	117	101054	19.403	ug/l	98
39) Methylcyclohexane	9.109	83	106867	17.458	ug/l #	87
40) Benzene	8.085	78	289826	19.713	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
 Data File : VY019884.D
 Acq On : 14 Oct 2024 11:56
 Operator : SY/MD
 Sample : VY1014SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1014SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 10/15/2024
 Supervised By :Semsettin Yesilyurt 10/15/2024

Quant Time: Oct 15 01:33:22 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	7.219	41	30533m	22.270	ug/l	
42) 1,2-Dichloroethane	8.158	62	87951	20.822	ug/l	94
43) Isopropyl Acetate	8.201	43	106325	20.581	ug/l #	77
44) Trichloroethene	8.866	130	68132	19.133	ug/l	95
45) 1,2-Dichloropropane	9.140	63	75472	20.509	ug/l	99
46) Dibromomethane	9.231	93	40949	20.367	ug/l	89
47) Bromodichloromethane	9.426	83	109886	20.590	ug/l	99
48) Methyl methacrylate	9.225	41	46743	20.569	ug/l #	82
49) 1,4-Dioxane	9.225	88	9776	434.426	ug/l #	94
51) 4-Methyl-2-Pentanone	9.999	43	277497	105.307	ug/l	88
52) Toluene	10.170	92	183986	20.047	ug/l	96
53) t-1,3-Dichloropropene	10.396	75	94027	19.582	ug/l	97
54) cis-1,3-Dichloropropene	9.859	75	110891	19.572	ug/l #	85
55) 1,1,2-Trichloroethane	10.573	97	53963	20.371	ug/l	91
56) Ethyl methacrylate	10.438	69	78072	20.540	ug/l #	75
57) 1,3-Dichloropropane	10.719	76	97121	20.877	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	180446	101.976	ug/l	92
59) 2-Hexanone	10.762	43	198720	105.585	ug/l	87
60) Dibromochloromethane	10.914	129	68067	20.020	ug/l	99
61) 1,2-Dibromoethane	11.011	107	46017	19.224	ug/l	97
64) Tetrachloroethene	10.646	164	56022	17.780	ug/l #	90
65) Chlorobenzene	11.438	112	199006	19.642	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.517	131	67623	19.727	ug/l	99
67) Ethyl Benzene	11.517	91	357101	19.403	ug/l	100
68) m/p-Xylenes	11.627	106	259364	38.157	ug/l	90
69) o-Xylene	11.956	106	126659	19.394	ug/l	92
70) Styrene	11.969	104	219312	19.904	ug/l	96
71) Bromoform	12.133	173	36626	19.959	ug/l #	99
73) Isopropylbenzene	12.255	105	343770	18.996	ug/l	98
74) N-amyl acetate	12.072	43	93172	19.438	ug/l #	87
75) 1,1,2,2-Tetrachloroethane	12.505	83	68520	21.308	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	48865m	11.594	ug/l	
77) Bromobenzene	12.530	156	73677	19.185	ug/l	83
78) n-propylbenzene	12.597	91	425122	19.441	ug/l	97
79) 2-Chlorotoluene	12.682	91	241101	19.232	ug/l	95
80) 1,3,5-Trimethylbenzene	12.737	105	277967	19.019	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.304	75	18904	18.104	ug/l #	80
82) 4-Chlorotoluene	12.779	91	250672	19.556	ug/l	94
83) tert-Butylbenzene	12.999	119	258079	19.711	ug/l	95
84) 1,2,4-Trimethylbenzene	13.042	105	277671	19.163	ug/l	96
85) sec-Butylbenzene	13.176	105	379087	19.379	ug/l	98
86) p-Isopropyltoluene	13.292	119	300873	18.941	ug/l	96
87) 1,3-Dichlorobenzene	13.285	146	150643	19.424	ug/l	98
88) 1,4-Dichlorobenzene	13.365	146	148325	19.468	ug/l	96
89) n-Butylbenzene	13.615	91	302800	19.522	ug/l	97
90) Hexachloroethane	13.877	117	57159	18.480	ug/l	89
91) 1,2-Dichlorobenzene	13.657	146	135679	19.911	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	10094	19.669	ug/l	73
93) 1,2,4-Trichlorobenzene	14.919	180	70176	18.366	ug/l	98
94) Hexachlorobutadiene	15.023	225	38843	18.285	ug/l	99
95) Naphthalene	15.145	128	129338	17.947	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	58472	18.103	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019884.D
Acq On : 14 Oct 2024 11:56
Operator : SY/MD
Sample : VY1014SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/15/2024
Supervised By :Semsettin Yesilyurt 10/15/2024

Quant Time: Oct 15 01:33:22 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)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

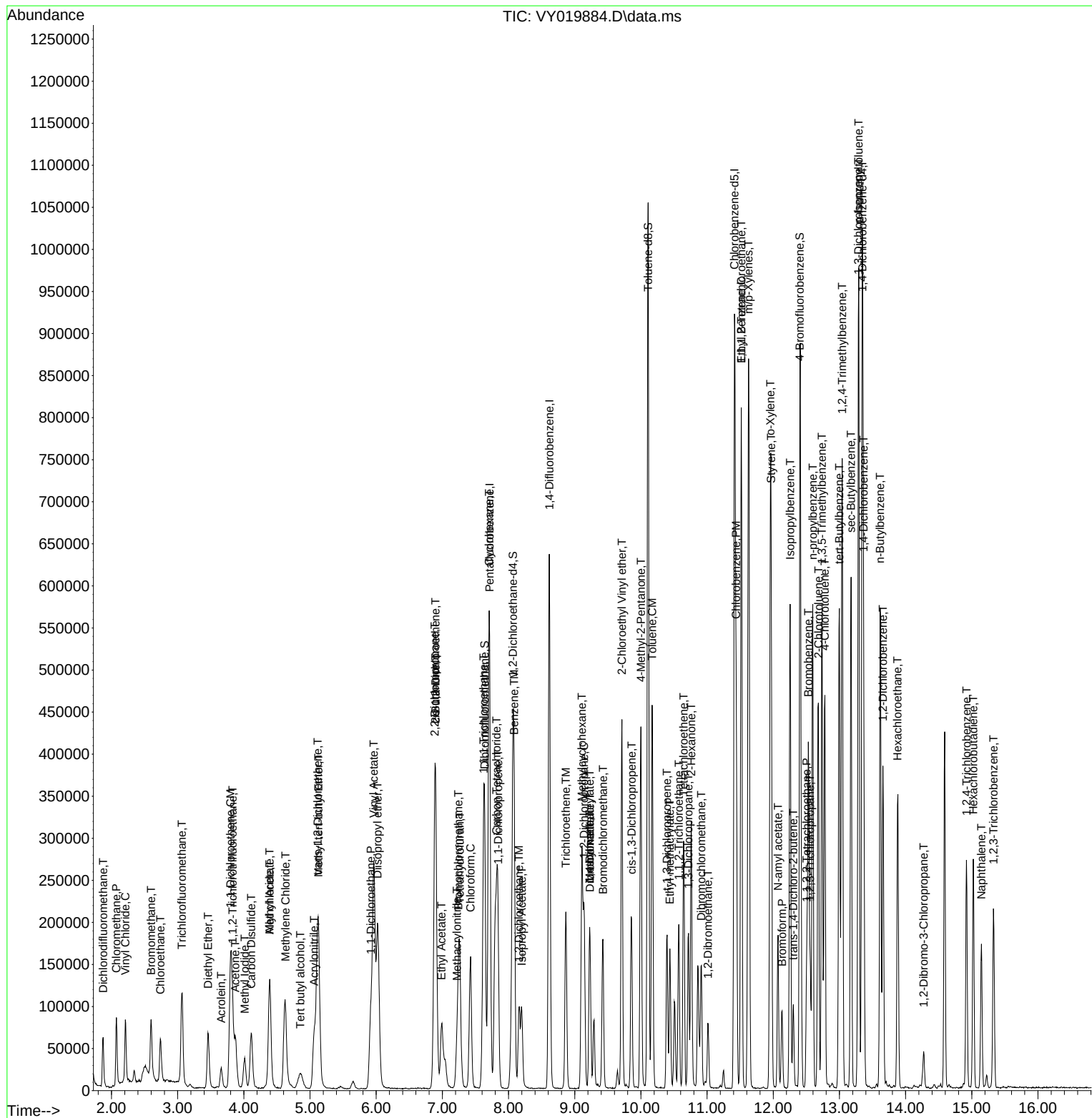
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
 Data File : VY019884.D
 Acq On : 14 Oct 2024 11:56
 Operator : SY/MD
 Sample : VY1014SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1014SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/15/2024
 Supervised By :Semsettin Yesilyurt 10/15/2024

Quant Time: Oct 15 01:33:22 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



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1015WBSD01	SDG No.:	P4397
Lab Sample ID:	VX1015WBSD01	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
VX043393.D	1		10/15/24 10:28	VX101524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.2		0.21	1.00	ug/L
74-87-3	Chloromethane	19.6		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	20.5		0.34	1.00	ug/L
74-83-9	Bromomethane	20.9		1.40	5.00	ug/L
75-00-3	Chloroethane	21.2		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.9		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.3		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.8		0.26	1.00	ug/L
67-64-1	Acetone	110		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.3		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	22.1		0.16	1.00	ug/L
79-20-9	Methyl Acetate	20.4		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	21.0		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	21.6		0.23	1.00	ug/L
110-82-7	Cyclohexane	21.1		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.9		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	21.5		0.25	1.00	ug/L
74-97-5	Bromochloromethane	19.2		0.18	1.00	ug/L
67-66-3	Chloroform	21.6		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.4		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	21.9		0.19	1.00	ug/L
71-43-2	Benzene	21.2		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	22.2		0.24	1.00	ug/L
79-01-6	Trichloroethene	21.1		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.7		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.6		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	5.00	ug/L
108-88-3	Toluene	21.6		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:	VX1015WBSD01			SDG No.:	P4397
Lab Sample ID:	VX1015WBSD01			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
VX043393.D	1		10/15/24 10:28	VX101524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	21.7		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.1		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	22.1		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	20.3		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.4		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	22.4		0.25	1.00	ug/L
108-90-7	Chlorobenzene	21.2		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	21.5		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	42.6		0.31	2.00	ug/L
95-47-6	o-Xylene	21.2		0.14	1.00	ug/L
100-42-5	Styrene	21.2		0.16	1.00	ug/L
75-25-2	Bromoform	19.4		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	21.3		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.9		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	21.3		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.5		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.9		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.9		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	21.2		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	21.1		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.6		70 (74) - 130 (125)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	50.4		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.4		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	94200	5.544			
540-36-3	1,4-Difluorobenzene	163000	6.757			
3114-55-4	Chlorobenzene-d5	139000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	64800	12.024			

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	
Client Sample ID:	VX1015WBSD01		SDG No.:	P4397
Lab Sample ID:	VX1015WBSD01		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
VX043393.D	1		10/15/24 10:28	VX101524

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

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
 Data File : VX043393.D
 Acq On : 15 Oct 2024 10:28
 Operator : JC/MD
 Sample : VX1015WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1015WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/16/2024
 Supervised By : Mahesh Dadoda 10/16/2024

Quant Time: Oct 16 07:18:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:50:57 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	94177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	163248	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	138792	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	64769	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	82375	53.558	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.120%			
35) Dibromofluoromethane	5.379	113	59250	52.628	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.260%			
50) Toluene-d8	8.647	98	196618	50.396	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.800%			
62) 4-Bromofluorobenzene	11.079	95	74341	52.449	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.900%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	22139	20.210	ug/l	99
3) Chloromethane	1.294	50	22068	19.560	ug/l	95
4) Vinyl Chloride	1.374	62	23141	20.477	ug/l	98
5) Bromomethane	1.599	94	9638	20.875	ug/l	98
6) Chloroethane	1.666	64	8918	21.191	ug/l	95
7) Trichlorofluoromethane	1.867	101	35219	20.858	ug/l	100
8) Diethyl Ether	2.136	74	14248	21.684	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	22474	21.329	ug/l	99
10) Methyl Iodide	2.447	142	26795	20.246	ug/l	99
11) Tert butyl alcohol	2.995	59	33618	114.861	ug/l	98
12) 1,1-Dichloroethene	2.312	96	20697	19.780	ug/l	100
13) Acrolein	2.239	56	23885	86.402	ug/l	100
14) Allyl chloride	2.660	41	36146	21.027	ug/l	98
15) Acrylonitrile	3.068	53	63848	106.833	ug/l	98
16) Acetone	2.386	43	71817	111.812	ug/l	97
17) Carbon Disulfide	2.501	76	44038	17.303	ug/l	98
18) Methyl Acetate	2.703	43	32856	20.391	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	82789	22.115	ug/l	99
20) Methylene Chloride	2.788	84	23748	20.053	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	21885	21.016	ug/l	93
22) Diisopropyl ether	3.757	45	76139	22.021	ug/l	96
23) Vinyl Acetate	3.721	43	340312	92.621	ug/l	100
24) 1,1-Dichloroethane	3.605	63	43445	21.568	ug/l	99
25) 2-Butanone	4.562	43	97464	110.668	ug/l	100
26) 2,2-Dichloropropane	4.471	77	41320	21.560	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	27949	21.520	ug/l	99
28) Bromochloromethane	4.897	49	15276	19.223	ug/l	99
29) Tetrahydrofuran	5.001	42	59701	106.412	ug/l	99
30) Chloroform	5.086	83	47716	21.571	ug/l	99
31) Cyclohexane	5.458	56	35068	21.130	ug/l	93
32) 1,1,1-Trichloroethane	5.379	97	43460	21.390	ug/l	99
36) 1,1-Dichloropropene	5.684	75	29982	21.080	ug/l	100
37) Ethyl Acetate	4.714	43	37352	21.869	ug/l	98
38) Carbon Tetrachloride	5.666	117	35190	20.900	ug/l	100
39) Methylcyclohexane	7.373	83	39126	21.873	ug/l	99
40) Benzene	6.031	78	91496	21.218	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
 Data File : VX043393.D
 Acq On : 15 Oct 2024 10:28
 Operator : JC/MD
 Sample : VX1015WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1015WBSD01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/16/2024
 Supervised By :Mahesh Dadoda 10/16/2024

Quant Time: Oct 16 07:18:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 02 16:50:57 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	19944	22.432	ug/l	98
42) 1,2-Dichloroethane	6.080	62	39058	22.227	ug/l	100
43) Isopropyl Acetate	6.336	43	61296	21.728	ug/l	100
44) Trichloroethene	7.123	130	24091	21.063	ug/l	98
45) 1,2-Dichloropropane	7.427	63	22986	21.721	ug/l	93
46) Dibromomethane	7.580	93	18255	21.527	ug/l	99
47) Bromodichloromethane	7.818	83	34391	20.629	ug/l	98
48) Methyl methacrylate	7.696	41	28986	20.941	ug/l	98
49) 1,4-Dioxane	7.665	88	11902	442.334	ug/l	99
51) 4-Methyl-2-Pentanone	8.574	43	183000	106.805	ug/l	98
52) Toluene	8.714	92	58359	21.594	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	35874	21.654	ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	37527	21.120	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	23694	22.060	ug/l	98
56) Ethyl methacrylate	9.116	69	38883	22.143	ug/l	99
57) 1,3-Dichloropropane	9.305	76	40631	22.211	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	83942	106.052	ug/l	99
59) 2-Hexanone	9.427	43	141055	108.864	ug/l	100
60) Dibromochloromethane	9.518	129	25322	20.322	ug/l	100
61) 1,2-Dibromoethane	9.604	107	24747	21.445	ug/l	99
64) Tetrachloroethene	9.269	164	21553	22.380	ug/l	94
65) Chlorobenzene	10.079	112	63151	21.164	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	22901	21.705	ug/l	99
67) Ethyl Benzene	10.189	91	110945	21.511	ug/l	100
68) m/p-Xylenes	10.299	106	83051	42.610	ug/l	100
69) o-Xylene	10.640	106	41106	21.224	ug/l	100
70) Styrene	10.652	104	66633	21.229	ug/l	99
71) Bromoform	10.799	173	15643	19.354	ug/l #	98
73) Isopropylbenzene	10.957	105	107036	21.256	ug/l	100
74) N-amyl acetate	10.841	43	49554	20.730	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.213	83	35958	21.920	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	30047m	20.915	ug/l	
77) Bromobenzene	11.195	156	25289	20.637	ug/l	99
78) n-propylbenzene	11.305	91	118732	21.478	ug/l	100
79) 2-Chlorotoluene	11.360	91	75411	21.219	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	89589	21.568	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	10947	19.748	ug/l	96
82) 4-Chlorotoluene	11.451	91	85935	21.226	ug/l	99
83) tert-Butylbenzene	11.713	119	89828	20.990	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	90744	21.712	ug/l	99
85) sec-Butylbenzene	11.890	105	109367	21.558	ug/l	100
86) p-Isopropyltoluene	12.006	119	92085	21.756	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	45995	21.307	ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	45533	20.459	ug/l	98
89) n-Butylbenzene	12.329	91	77641	21.911	ug/l	98
90) Hexachloroethane	12.536	117	15158	19.096	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	46036	20.853	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	7957	19.867	ug/l	95
93) 1,2,4-Trichlorobenzene	13.591	180	26928	21.158	ug/l	98
94) Hexachlorobutadiene	13.725	225	10965	21.733	ug/l	96
95) Naphthalene	13.774	128	98215	20.992	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	27673	21.074	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043393.D
Acq On : 15 Oct 2024 10:28
Operator : JC/MD
Sample : VX1015WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/16/2024
Supervised By :Mahesh Dadoda 10/16/2024

Quant Time: Oct 16 07:18:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 2024
Response via : Initial Calibration

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

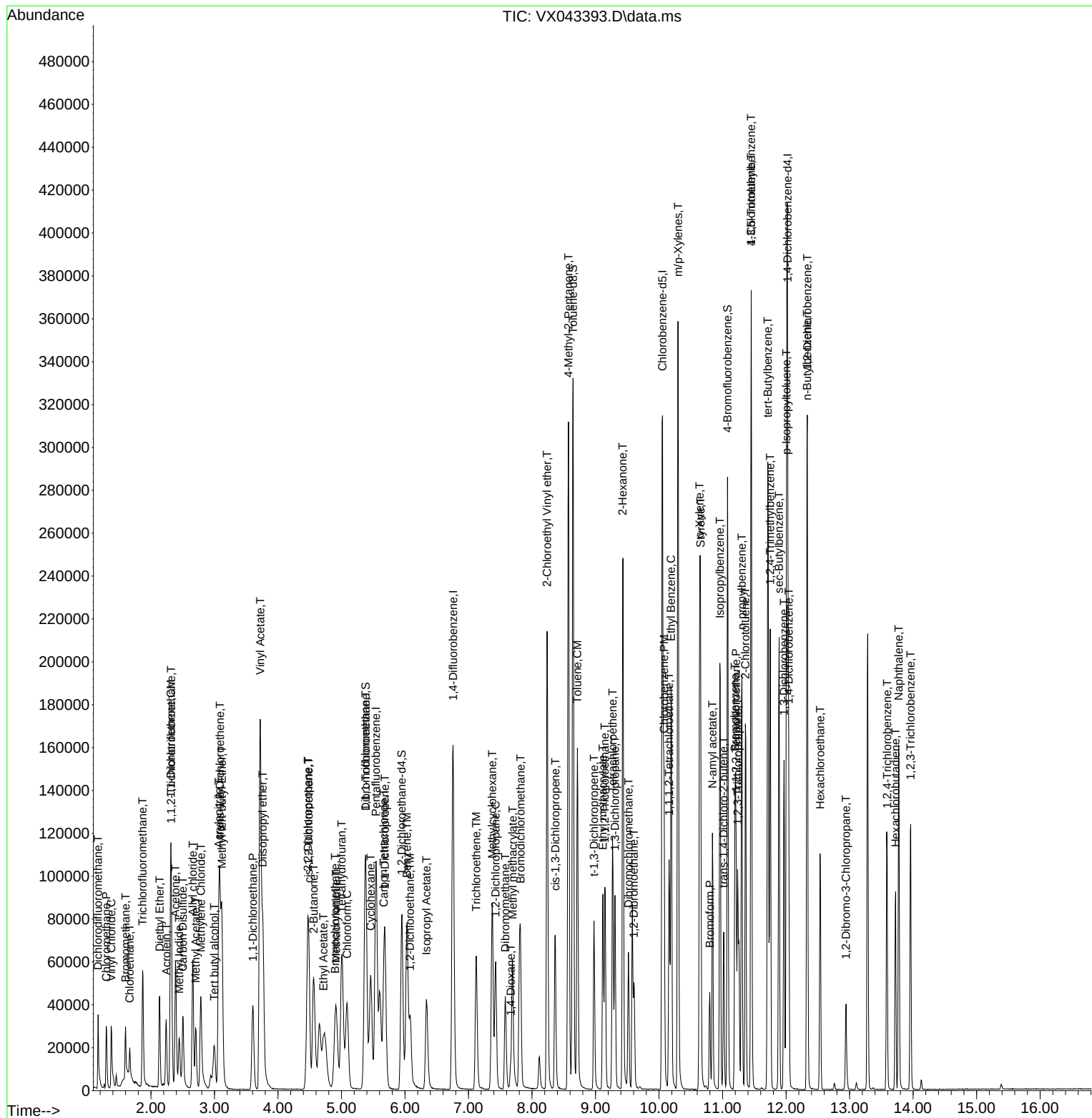
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101524\
Data File : VX043393.D
Acq On : 15 Oct 2024 10:28
Operator : JC/MD
Sample : VX1015WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1015WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/16/2024
Supervised By :Mahesh Dadoda 10/16/2024

Quant Time: Oct 16 07:18:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100124W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 16:50:57 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:	VY1014SBSD01	SDG No.:	P4397
Lab Sample ID:	VY1014SBSD01	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
VY019885.D	1		10/14/24 12:18	VY101424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.5		1.70	5.00	ug/Kg
74-87-3	Chloromethane	19.0		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.4		0.77	5.00	ug/Kg
74-83-9	Bromomethane	19.6		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.2		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	19.0		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	18.3		0.78	5.00	ug/Kg
67-64-1	Acetone	98.7		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	15.5		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.6		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	24.1		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	18.8		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.7		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	17.6		0.69	5.00	ug/Kg
78-93-3	2-Butanone	110		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.3		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.1		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	22.3		2.40	5.00	ug/Kg
67-66-3	Chloroform	20.7		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.8		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	17.0		0.87	5.00	ug/Kg
71-43-2	Benzene	19.8		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.0		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	18.9		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.8		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.7		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	19.6		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:	VY1014SBSD01	SDG No.:	P4397
Lab Sample ID:	VY1014SBSD01	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
VY019885.D	1		10/14/24 12:18	VY101424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.8		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.6		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.6		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	100		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.1		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.5		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.6		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.9		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.3		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.4		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.6		0.70	5.00	ug/Kg
100-42-5	Styrene	20.1		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.1		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.2		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.2		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.4		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.2		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.7		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.5		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.0		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	54.7		70 (50) - 130 (163)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	54.2		70 (54) - 130 (147)	108%	SPK: 50
2037-26-5	Toluene-d8	52.3		70 (58) - 130 (134)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		70 (29) - 130 (146)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	289000	7.707			
540-36-3	1,4-Difluorobenzene	513000	8.615			
3114-55-4	Chlorobenzene-d5	440000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	212000	13.346			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1014SBSD01	SDG No.:	P4397
Lab Sample ID:	VY1014SBSD01	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
VY019885.D	1		10/14/24 12:18	VY101424

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

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
 Data File : VY019885.D
 Acq On : 14 Oct 2024 12:18
 Operator : SY/MD
 Sample : VY1014SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1014SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 10/15/2024
 Supervised By :Semsettin Yesilyurt 10/15/2024

Quant Time: Oct 15 01:34:25 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	289295	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	513238	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	439692	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	211812	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	194881	54.710	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 109.420%	
35) Dibromofluoromethane	7.634	113	183442	54.164	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 108.320%	
50) Toluene-d8	10.103	98	653656	52.263	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 104.520%	
62) 4-Bromofluorobenzene	12.401	95	232768	51.507	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 103.020%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.867	85	49823	18.500	ug/l	97
3) Chloromethane	2.068	50	66467	18.963	ug/l	100
4) Vinyl Chloride	2.202	62	70806	18.357	ug/l	98
5) Bromomethane	2.592	94	47737	19.553	ug/l	96
6) Chloroethane	2.738	64	49763	19.204	ug/l	94
7) Trichlorofluoromethane	3.062	101	108545	18.912	ug/l	98
8) Diethyl Ether	3.458	74	34351	19.693	ug/l	79
9) 1,1,2-Trichlorotrifluo...	3.811	101	63509	19.024	ug/l	92
10) Methyl Iodide	4.007	142	61618	18.249	ug/l	92
11) Tert butyl alcohol	4.866	59	36968	110.779	ug/l #	92
12) 1,1-Dichloroethene	3.787	96	56853	18.319	ug/l #	80
13) Acrolein	3.653	56	26366	100.733	ug/l	92
14) Allyl chloride	4.384	41	108345	19.348	ug/l #	90
15) Acrylonitrile	5.061	53	87355	109.489	ug/l	98
16) Acetone	3.878	43	91504	98.682	ug/l #	81
17) Carbon Disulfide	4.104	76	129094	15.519	ug/l	99
18) Methyl Acetate	4.391	43	48048	24.054	ug/l #	88
19) Methyl tert-butyl Ether	5.116	73	184107	20.648	ug/l	99
20) Methylene Chloride	4.616	84	76106	21.758	ug/l #	82
21) trans-1,2-Dichloroethene	5.122	96	63449	18.784	ug/l	88
22) Diisopropyl ether	6.024	45	259597	21.283	ug/l #	89
23) Vinyl Acetate	5.963	43	710353	101.588	ug/l #	90
24) 1,1-Dichloroethane	5.915	63	140400	20.707	ug/l	95
25) 2-Butanone	6.896	43	130706	105.308	ug/l	89
26) 2,2-Dichloropropane	6.890	77	113064	18.725	ug/l	96
27) cis-1,2-Dichloroethene	6.890	96	83985	20.120	ug/l	84
28) Bromochloromethane	7.244	49	66541	22.297	ug/l #	72
29) Tetrahydrofuran	7.262	42	75025	105.866	ug/l #	83
30) Chloroform	7.421	83	143205	20.719	ug/l	100
31) Cyclohexane	7.701	56	104479	17.554	ug/l	92
32) 1,1,1-Trichloroethane	7.616	97	119909	19.796	ug/l	94
36) 1,1-Dichloropropene	7.835	75	91946	18.844	ug/l	96
37) Ethyl Acetate	6.988	43	52505	20.637	ug/l	99
38) Carbon Tetrachloride	7.817	117	100977	19.304	ug/l	99
39) Methylcyclohexane	9.109	83	104547	17.005	ug/l #	87
40) Benzene	8.079	78	292689	19.821	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
 Data File : VY019885.D
 Acq On : 14 Oct 2024 12:18
 Operator : SY/MD
 Sample : VY1014SBSD01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY1014SBSD01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 10/15/2024
 Supervised By :Semsettin Yesilyurt 10/15/2024

Quant Time: Oct 15 01:34:25 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	7.219	41	31638	22.976	ug/l #	86
42) 1,2-Dichloroethane	8.158	62	88951	20.967	ug/l	94
43) Isopropyl Acetate	8.201	43	110725	21.339	ug/l #	86
44) Trichloroethene	8.865	130	67677	18.923	ug/l	92
45) 1,2-Dichloropropane	9.140	63	76949	20.819	ug/l	92
46) Dibromomethane	9.231	93	41471	20.537	ug/l	88
47) Bromodichloromethane	9.426	83	111020	20.713	ug/l	98
48) Methyl methacrylate	9.219	41	47418	20.775	ug/l #	80
49) 1,4-Dioxane	9.237	88	9056	400.686	ug/l #	74
51) 4-Methyl-2-Pentanone	9.999	43	283124	106.977	ug/l	89
52) Toluene	10.170	92	181019	19.639	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	95397	19.781	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	111589	19.609	ug/l #	84
55) 1,1,2-Trichloroethane	10.566	97	54930	20.646	ug/l	98
56) Ethyl methacrylate	10.438	69	79184	20.742	ug/l #	77
57) 1,3-Dichloropropane	10.713	76	96400	20.633	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	185419	104.332	ug/l	93
59) 2-Hexanone	10.755	43	197266	104.358	ug/l	86
60) Dibromochloromethane	10.908	129	68773	20.139	ug/l	100
61) 1,2-Dibromoethane	11.011	107	49222	20.474	ug/l	98
64) Tetrachloroethene	10.646	164	58233	18.620	ug/l	90
65) Chlorobenzene	11.438	112	200308	19.918	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.511	131	68216	20.048	ug/l	99
67) Ethyl Benzene	11.517	91	353039	19.325	ug/l	100
68) m/p-Xylenes	11.627	106	259242	38.423	ug/l	90
69) o-Xylene	11.950	106	127310	19.639	ug/l	90
70) Styrene	11.968	104	219566	20.076	ug/l	96
71) Bromoform	12.127	173	36675	20.134	ug/l #	98
73) Isopropylbenzene	12.255	105	341906	19.191	ug/l	98
74) N-amyl acetate	12.066	43	94364	19.998	ug/l #	87
75) 1,1,2,2-Tetrachloroethane	12.505	83	67014	21.169	ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	55075m	13.273	ug/l	
77) Bromobenzene	12.529	156	74402	19.680	ug/l	85
78) n-propylbenzene	12.590	91	413060	19.187	ug/l	97
79) 2-Chlorotoluene	12.676	91	242459	19.645	ug/l	93
80) 1,3,5-Trimethylbenzene	12.737	105	275790	19.168	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.298	75	18993	18.476	ug/l #	80
82) 4-Chlorotoluene	12.773	91	246916	19.566	ug/l	96
83) tert-Butylbenzene	12.993	119	246514	19.125	ug/l	94
84) 1,2,4-Trimethylbenzene	13.041	105	276511	19.384	ug/l	98
85) sec-Butylbenzene	13.169	105	364873	18.946	ug/l	98
86) p-Isopropyltoluene	13.291	119	296612	18.967	ug/l	96
87) 1,3-Dichlorobenzene	13.285	146	147987	19.383	ug/l	96
88) 1,4-Dichlorobenzene	13.365	146	144140	19.217	ug/l	96
89) n-Butylbenzene	13.615	91	289195	18.939	ug/l	98
90) Hexachloroethane	13.877	117	57936	19.026	ug/l	88
91) 1,2-Dichlorobenzene	13.657	146	132055	19.685	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.273	75	10343	20.472	ug/l	73
93) 1,2,4-Trichlorobenzene	14.919	180	71420	18.986	ug/l	96
94) Hexachlorobutadiene	15.023	225	38448	18.384	ug/l	97
95) Naphthalene	15.145	128	139475	19.659	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	60307	18.965	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019885.D
Acq On : 14 Oct 2024 12:18
Operator : SY/MD
Sample : VY1014SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/15/2024
Supervised By :Semsettin Yesilyurt 10/15/2024

Quant Time: Oct 15 01:34:25 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)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

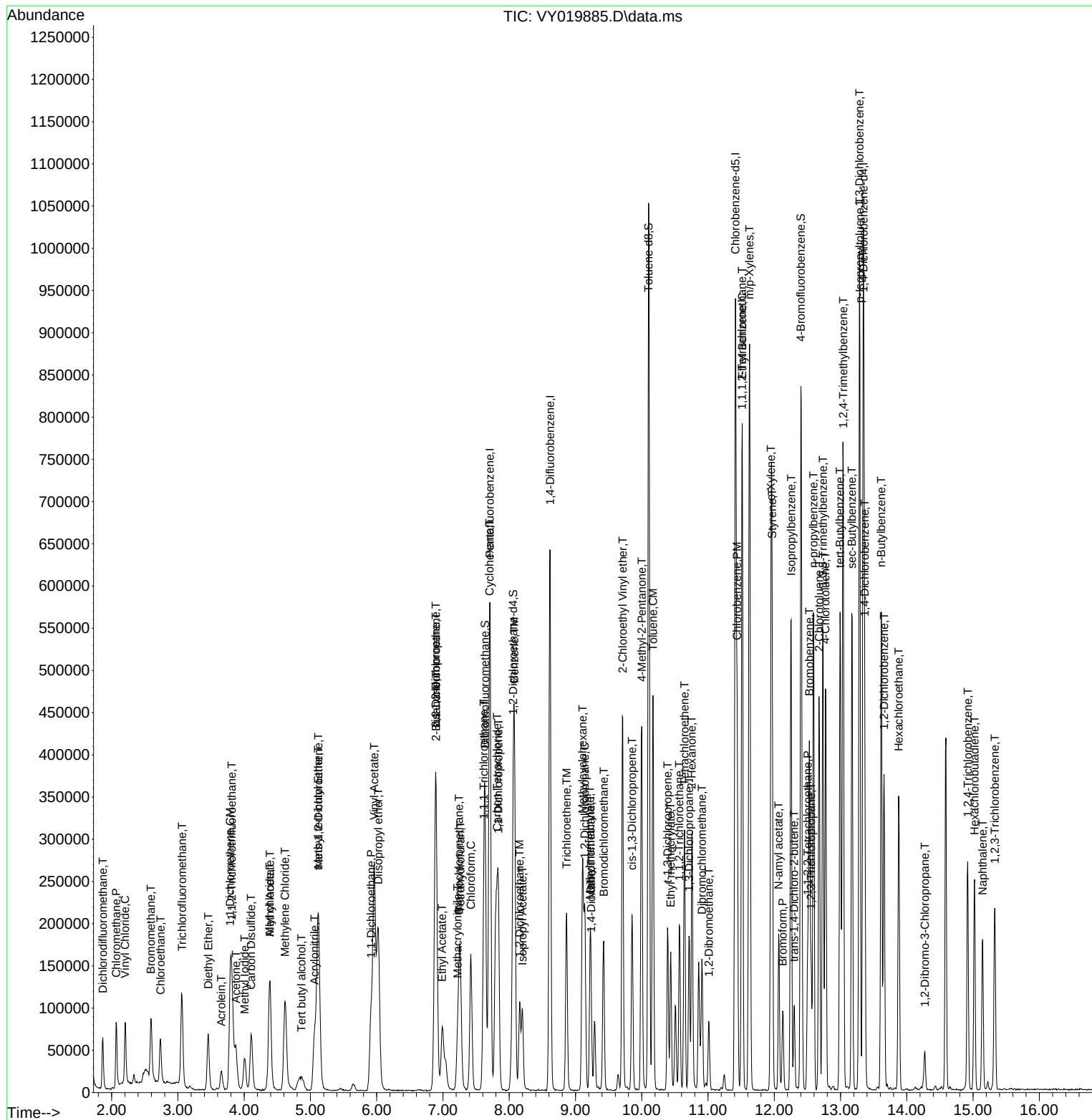
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101424\
Data File : VY019885.D
Acq On : 14 Oct 2024 12:18
Operator : SY/MD
Sample : VY1014SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1014SBSD01

Manual Integrations

Reviewed By :Mahesh Dadoda 10/15/2024
Supervised By :Semsettin Yesilyurt 10/15/2024

Quant Time: Oct 15 01:34:25 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



Manual Integration Report

Sequence:	vx100124	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX043207.D	1,2,3-Trichloropropane	JOHN	10/2/2024 9:34:38 AM	MMDadoda	10/3/2024 4:57:46 PM	Peak Integrated by Software
VSTDICC001	VX043207.D	1,4-Dichlorobenzene	JOHN	10/2/2024 9:34:38 AM	MMDadoda	10/3/2024 4:57:46 PM	Peak Integrated by Software
VSTDICC001	VX043207.D	Ethyl Acetate	JOHN	10/2/2024 9:34:38 AM	MMDadoda	10/3/2024 4:57:46 PM	Peak Integrated by Software
VSTDICC001	VX043207.D	Methacrylonitrile	JOHN	10/2/2024 9:34:38 AM	MMDadoda	10/3/2024 4:57:46 PM	Peak Integrated by Software
VSTDICC001	VX043207.D	Methyl methacrylate	JOHN	10/2/2024 9:34:38 AM	MMDadoda	10/3/2024 4:57:46 PM	Peak Integrated by Software
VSTDICC005	VX043208.D	1,2,3-Trichloropropane	JOHN	10/2/2024 9:34:43 AM	MMDadoda	10/3/2024 4:57:48 PM	Peak Integrated by Software
VSTDICC020	VX043209.D	1,2,3-Trichloropropane	JOHN	10/2/2024 9:34:47 AM	SAM	10/2/2024 2:07:53 PM	Peak Integrated by Software
VSTDICC020	VX043209.D	Tert butyl alcohol	JOHN	10/2/2024 9:34:47 AM	SAM	10/2/2024 2:07:53 PM	Peak Integrated by Software
VSTDICCC050	VX043210.D	1,2,3-Trichloropropane	JOHN	10/2/2024 9:34:52 AM	SAM	10/2/2024 2:08:05 PM	Peak Integrated by Software
VSTDICCC050	VX043210.D	Tert butyl alcohol	JOHN	10/2/2024 9:34:52 AM	SAM	10/2/2024 2:08:05 PM	Peak Integrated by Software
VSTDICC100	VX043211.D	1,2,3-Trichloropropane	JOHN	10/2/2024 9:34:56 AM	SAM	10/2/2024 2:08:06 PM	Peak Integrated by Software
VSTDICC100	VX043211.D	Tert butyl alcohol	JOHN	10/2/2024 9:34:56 AM	SAM	10/2/2024 2:08:06 PM	Peak Integrated by Software
VSTDICC150	VX043212.D	1,2,3-Trichloropropane	JOHN	10/2/2024 9:35:01 AM	SAM	10/2/2024 2:08:07 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vx100124

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC150	VX043212.D	Tert butyl alcohol	JOHN	10/2/2024 9:35:01 AM	SAM	10/2/2024 2:08:07 PM	Peak Integrated by Software
VSTDICV050	VX043214.D	1,2,3-Trichloropropane	JOHN	10/2/2024 9:35:07 AM	SAM	10/2/2024 2:08:09 PM	Peak Integrated by Software
VSTDICV050	VX043214.D	Tert butyl alcohol	JOHN	10/2/2024 9:35:07 AM	SAM	10/2/2024 2:08:09 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VX101524

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX043389.D	1,2,3-Trichloropropane	JOHN	10/16/2024 9:51:16 AM	MMDadoda	10/16/2024 12:15:03 PM	Peak Integrated by Software
VX1015WBS01	VX043392.D	1,2,3-Trichloropropane	JOHN	10/16/2024 9:51:21 AM	MMDadoda	10/16/2024 12:15:05 PM	Peak Integrated by Software
VX1015WBSD0 1	VX043393.D	1,2,3-Trichloropropane	JOHN	10/16/2024 9:51:25 AM	MMDadoda	10/16/2024 12:15:07 PM	Peak Integrated by Software
VSTDCCC050	VX043412.D	1,2,3-Trichloropropane	JOHN	10/16/2024 9:52:03 AM	MMDadoda	10/16/2024 12:15:15 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VY100924	Instrument	MSVOA_y
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC005	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
VSTDIC010	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
VSTDIC020	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
VSTDIC100	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
VSTDIC150	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:

VY101424

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY019882.D	1,2,3-Trichloropropane	MMDadoda	10/15/2024 1:19:33 PM	SAM	10/15/2024 1:22:38 PM	Peak Integrated by Software
VY1014SBS01	VY019884.D	1,2,3-Trichloropropane	MMDadoda	10/15/2024 1:19:35 PM	SAM	10/15/2024 1:22:39 PM	Peak Integrated by Software
VY1014SBS01	VY019884.D	Methacrylonitrile	MMDadoda	10/15/2024 1:19:35 PM	SAM	10/15/2024 1:22:39 PM	Peak Integrated by Software
VY1014SBSD0 1	VY019885.D	1,2,3-Trichloropropane	MMDadoda	10/15/2024 1:19:36 PM	SAM	10/15/2024 1:22:41 PM	Peak Integrated by Software
VSTDCCC050	VY019894.D	1,2,3-Trichloropropane	MMDadoda	10/15/2024 1:19:38 PM	SAM	10/15/2024 1:22:42 PM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX100124

Review By	John Carlone	Review On	10/2/2024 9:35:24 AM
Supervise By	Semsettin Yesilyurt	Supervise On	10/2/2024 2:08:19 PM
SubDirectory	VX100124	HP Acquire Method	HP Processing Method 82X100124W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP130591		
Initial Calibration Stds	VP130593,VP130594,VP130595,VP130596,VP130597,VP130598		
CCC	VP130592		
Internal Standard/PEM			
ICV/I.BLK	VP130599		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX043204.D	01 Oct 2024 08:42	JC/MD	Ok
2	VSTDCCC050	VX043205.D	01 Oct 2024 10:24	JC/MD	Not Ok
3	IBLK	VX043206.D	01 Oct 2024 10:50	JC/MD	Ok
4	VSTDICC001	VX043207.D	01 Oct 2024 11:36	JC/MD	Ok,M
5	VSTDICC005	VX043208.D	01 Oct 2024 11:59	JC/MD	Ok,M
6	VSTDICC020	VX043209.D	01 Oct 2024 12:22	JC/MD	Ok,M
7	VSTDICCC050	VX043210.D	01 Oct 2024 12:45	JC/MD	Ok,M
8	VSTDICC100	VX043211.D	01 Oct 2024 13:08	JC/MD	Ok,M
9	VSTDICC150	VX043212.D	01 Oct 2024 13:31	JC/MD	Ok,M
10	IBLK	VX043213.D	01 Oct 2024 13:55	JC/MD	Ok
11	VSTDICV050	VX043214.D	01 Oct 2024 14:38	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX101524

Review By	John Carlone	Review On	10/16/2024 9:57:57 AM
Supervise By	Maresh Dadoda	Supervise On	10/16/2024 12:15:31 PM
SubDirectory	VX101524	HP Acquire Method	HP Processing Method 82X100124W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP130883		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP130884,VP130885		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX043388.D	15 Oct 2024 07:57	JC/MD	Ok
2	VSTDCCC050	VX043389.D	15 Oct 2024 08:26	JC/MD	Ok,M
3	VX1015MBL01	VX043390.D	15 Oct 2024 09:08	JC/MD	Ok
4	VX1015WBL01	VX043391.D	15 Oct 2024 09:31	JC/MD	Ok
5	VX1015WBS01	VX043392.D	15 Oct 2024 09:54	JC/MD	Ok,M
6	VX1015WBSD01	VX043393.D	15 Oct 2024 10:28	JC/MD	Ok,M
7	PB164097TB	VX043394.D	15 Oct 2024 10:51	JC/MD	Ok
8	PB164097ZHE#01	VX043395.D	15 Oct 2024 11:14	JC/MD	Ok
9	PB164097ZHE#02	VX043396.D	15 Oct 2024 11:37	JC/MD	Ok
10	PB164097ZHE#03	VX043397.D	15 Oct 2024 12:00	JC/MD	Ok
11	IBLK	VX043398.D	15 Oct 2024 12:23	JC/MD	Ok
12	P4397-05	VX043399.D	15 Oct 2024 12:46	JC/MD	Ok
13	P4397-04	VX043400.D	15 Oct 2024 13:09	JC/MD	Ok
14	P4403-02	VX043401.D	15 Oct 2024 13:32	JC/MD	Ok
15	P4395-02	VX043402.D	15 Oct 2024 13:56	JC/MD	Ok
16	P3932-03	VX043403.D	15 Oct 2024 14:19	JC/MD	Ok
17	VX1015WBS02	VX043404.D	15 Oct 2024 14:42	JC/MD	Ok,M
18	VX1015WBS03	VX043405.D	15 Oct 2024 15:05	JC/MD	Ok,M
19	VX1015WBS04	VX043406.D	15 Oct 2024 15:28	JC/MD	Ok,M
20	VX1015WBS05	VX043407.D	15 Oct 2024 15:51	JC/MD	Ok
21	VX1015MBS01	VX043408.D	15 Oct 2024 16:15	JC/MD	Ok,M

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX101524

Review By	John Carlone	Review On	10/16/2024 9:57:57 AM
Supervise By	Mahesh Dadoda	Supervise On	10/16/2024 12:15:31 PM
SubDirectory	VX101524	HP Acquire Method	HP Processing Method 82X100124W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP130883		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP130884,VP130885		

22	P4395-01	VX043409.D	15 Oct 2024 16:38	JC/MD	Ok
23	P4407-01	VX043410.D	15 Oct 2024 17:01	JC/MD	Ok
24	IBLK	VX043411.D	15 Oct 2024 17:24	JC/MD	Ok
25	VSTDCCC050	VX043412.D	15 Oct 2024 17:47	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 # VY101424

Review By	Mahesh Dadoda	Review On	10/15/2024 1:20:02 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/15/2024 1:22:47 PM		
SubDirectory	VY101424	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100924s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP130858			
CCC		VP130860,VP130861			
Internal Standard/PEM		VP128297			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY019881.D	14 Oct 2024 09:19	SY/MD	Ok
2	VSTDCCC050	VY019882.D	14 Oct 2024 09:52	SY/MD	Ok,M
3	VY1014SBL01	VY019883.D	14 Oct 2024 10:31	SY/MD	Ok
4	VY1014SBS01	VY019884.D	14 Oct 2024 11:56	SY/MD	Ok,M
5	VY1014SBSD01	VY019885.D	14 Oct 2024 12:18	SY/MD	Ok,M
6	P4377-01	VY019886.D	14 Oct 2024 12:58	SY/MD	Not Ok
7	P4385-11	VY019887.D	14 Oct 2024 13:21	SY/MD	Ok
8	P4385-13	VY019888.D	14 Oct 2024 13:45	SY/MD	Ok
9	P4397-02	VY019889.D	14 Oct 2024 14:08	SY/MD	Ok
10	P4397-01	VY019890.D	14 Oct 2024 14:31	SY/MD	Ok
11	P4376-01RE	VY019891.D	14 Oct 2024 14:55	SY/MD	Confirms
12	P4403-01	VY019892.D	14 Oct 2024 15:22	SY/MD	Ok
13	P4395-01	VY019893.D	14 Oct 2024 16:27	SY/MD	Not Ok
14	VSTDCCC050	VY019894.D	14 Oct 2024 16:50	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX100124

Review By	John Carlone	Review On	10/2/2024 9:35:24 AM
Supervise By	Semsettin Yesilyurt	Supervise On	10/2/2024 2:08:19 PM
SubDirectory	VX100124	HP Acquire Method	HP Processing Method 82X100124W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130591
Initial Calibration Stds	VP130593,VP130594,VP130595,VP130596,VP130597,VP130598
CCC	VP130592
Internal Standard/PEM	
ICV/I.BLK	VP130599
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX043204.D	01 Oct 2024 08:42		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX043205.D	01 Oct 2024 10:24	Need ICAL	JC/MD	Not Ok
3	IBLK	IBLK	VX043206.D	01 Oct 2024 10:50		JC/MD	Ok
4	VSTDICC001	VSTDICC001	VX043207.D	01 Oct 2024 11:36	%D failed for com.#23	JC/MD	Ok,M
5	VSTDICC005	VSTDICC005	VX043208.D	01 Oct 2024 11:59	QR- comp #23	JC/MD	Ok,M
6	VSTDICC020	VSTDICC020	VX043209.D	01 Oct 2024 12:22		JC/MD	Ok,M
7	VSTDICCC050	VSTDICCC050	VX043210.D	01 Oct 2024 12:45		JC/MD	Ok,M
8	VSTDICC100	VSTDICC100	VX043211.D	01 Oct 2024 13:08		JC/MD	Ok,M
9	VSTDICC150	VSTDICC150	VX043212.D	01 Oct 2024 13:31		JC/MD	Ok,M
10	IBLK	IBLK	VX043213.D	01 Oct 2024 13:55		JC/MD	Ok
11	VSTDICV050	ICVVX100124	VX043214.D	01 Oct 2024 14:38		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX101524

Review By	John Carlone	Review On	10/16/2024 9:57:57 AM
Supervise By	Maresh Dadoda	Supervise On	10/16/2024 12:15:31 PM
SubDirectory	VX101524	HP Acquire Method	HP Processing Method 82X100124W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP130883
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP130884,VP130885

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX043388.D	15 Oct 2024 07:57		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX043389.D	15 Oct 2024 08:26	V13516	JC/MD	Ok,M
3	VX1015MBL01	VX1015MBL01	VX043390.D	15 Oct 2024 09:08		JC/MD	Ok
4	VX1015WBL01	VX1015WBL01	VX043391.D	15 Oct 2024 09:31		JC/MD	Ok
5	VX1015WBS01	VX1015WBS01	VX043392.D	15 Oct 2024 09:54		JC/MD	Ok,M
6	VX1015WBSD01	VX1015WBSD01	VX043393.D	15 Oct 2024 10:28		JC/MD	Ok,M
7	PB164097TB	PB164097TB	VX043394.D	15 Oct 2024 10:51		JC/MD	Ok
8	PB164097ZHE#01	PB164097ZHE#01	VX043395.D	15 Oct 2024 11:14		JC/MD	Ok
9	PB164097ZHE#02	PB164097ZHE#02	VX043396.D	15 Oct 2024 11:37		JC/MD	Ok
10	PB164097ZHE#03	PB164097ZHE#03	VX043397.D	15 Oct 2024 12:00		JC/MD	Ok
11	IBLK	IBLK	VX043398.D	15 Oct 2024 12:23		JC/MD	Ok
12	P4397-05	TB-10102024	VX043399.D	15 Oct 2024 12:46	vial A pH<2 TB	JC/MD	Ok
13	P4397-04	WB-301-SW	VX043400.D	15 Oct 2024 13:09	vial A pH<2	JC/MD	Ok
14	P4403-02	Hawthorne TP Soil	VX043401.D	15 Oct 2024 13:32	vial A pH#5.0	JC/MD	Ok
15	P4395-02	F05308-SOLID	VX043402.D	15 Oct 2024 13:56	vial A pH#5.0	JC/MD	Ok
16	P3932-03	FM1	VX043403.D	15 Oct 2024 14:19	vial A pH#5.0	JC/MD	Ok
17	VX1015WBS02	VX1015WBS02	VX043404.D	15 Oct 2024 14:42	For IDOC	JC/MD	Ok,M
18	VX1015WBS03	VX1015WBS03	VX043405.D	15 Oct 2024 15:05	For IDOC	JC/MD	Ok,M

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX101524

Review By	John Carlone	Review On	10/16/2024 9:57:57 AM
Supervise By	Maresh Dadoda	Supervise On	10/16/2024 12:15:31 PM
SubDirectory	VX101524	HP Acquire Method	HP Processing Method 82X100124W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP130883		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP130884,VP130885		

19	VX1015WBS04	VX1015WBS04	VX043406.D	15 Oct 2024 15:28	For IDOC	JC/MD	Ok,M
20	VX1015WBS05	VX1015WBS05	VX043407.D	15 Oct 2024 15:51	For IDOC	JC/MD	Ok
21	VX1015MBS01	VX1015MBS01	VX043408.D	15 Oct 2024 16:15		JC/MD	Ok,M
22	P4395-01	F05308-SOLID	VX043409.D	15 Oct 2024 16:38		JC/MD	Ok
23	P4407-01	MR-CAM-06	VX043410.D	15 Oct 2024 17:01	vial A pH<2	JC/MD	Ok
24	IBLK	IBLK	VX043411.D	15 Oct 2024 17:24		JC/MD	Ok
25	VSTDCCC050	VSTDCCC050EC	VX043412.D	15 Oct 2024 17:47		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	VSTDIC050	VSTDIC050	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	VY1009SBS01	VY1009SBS01	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	VSTDIC050	VSTDIC050EC	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 # VY101424

Review By	Maresh Dadoda	Review On	10/15/2024 1:20:02 PM
Supervise By	Semsettin Yesilyurt	Supervise On	10/15/2024 1:22:47 PM
SubDirectory	VY101424	HP Acquire Method	MSVOA_Y HP Processing Method 82y100924s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP130858		
CCC	VP130860,VP130861		
Internal Standard/PEM	VP128297		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY019881.D	14 Oct 2024 09:19		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY019882.D	14 Oct 2024 09:52		SY/MD	Ok,M
3	VY1014SBL01	VY1014SBL01	VY019883.D	14 Oct 2024 10:31		SY/MD	Ok
4	VY1014SBS01	VY1014SBS01	VY019884.D	14 Oct 2024 11:56		SY/MD	Ok,M
5	VY1014SBSD01	VY1014SBSD01	VY019885.D	14 Oct 2024 12:18		SY/MD	Ok,M
6	P4377-01	HD-01-100924	VY019886.D	14 Oct 2024 12:58	vial-B Not purged	SY/MD	Not Ok
7	P4385-11	SP-6	VY019887.D	14 Oct 2024 13:21	vial-B	SY/MD	Ok
8	P4385-13	SP-7	VY019888.D	14 Oct 2024 13:45	vial-B	SY/MD	Ok
9	P4397-02	WB-301-BOT	VY019889.D	14 Oct 2024 14:08	vial-A	SY/MD	Ok
10	P4397-01	WB-301-TOP	VY019890.D	14 Oct 2024 14:31	vial-A	SY/MD	Ok
11	P4376-01RE	OR-02-100924RE	VY019891.D	14 Oct 2024 14:55	vial-B Internal standard fail	SY/MD	Confirms
12	P4403-01	Hawthorne TP Soil	VY019892.D	14 Oct 2024 15:22	vial-A	SY/MD	Ok
13	P4395-01	F05308-SOLID	VY019893.D	14 Oct 2024 16:27	vial-A Not purged	SY/MD	Not Ok
14	VSTDCCC050	VSTDCCC050EC	VY019894.D	14 Oct 2024 16:50		SY/MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/15/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:30
In Date: 10/14/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

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

QC:LB132917

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
P4391-01	Q119-1A	1	1.15	8.63	9.78	8.17	81.3	
P4391-04	Q119-2A	2	1.15	8.62	9.77	7.58	74.6	
P4391-07	Q119-3A	3	1.13	8.80	9.93	8.36	82.2	
P4391-10	Q119-4A	4	1.15	8.75	9.9	7.98	78.1	
P4391-13	Q119-5A	5	1.16	8.73	9.89	7.3	70.3	
P4391-16	Q119-6A	6	1.18	8.44	9.62	8.31	84.5	
P4391-17	Q119-6B	7	1.15	8.81	9.96	8.06	78.4	
P4391-19	Q119-7B	8	1.17	8.60	9.77	8.61	86.5	
P4391-21	Q119-8B	9	1.16	8.65	9.81	8.26	82.1	
P4391-23	Q119-9A	10	1.16	8.71	9.87	8.81	87.8	
P4391-24	Q119-9B	11	1.19	8.50	9.69	8.48	85.8	
P4391-26	Q119-10A	12	1.17	8.60	9.77	9.00	91.0	
P4391-27	Q119-10B	13	1.15	8.83	9.98	7.53	72.3	
P4391-29	Q119-11A	14	1.17	8.57	9.74	9.36	95.6	
P4391-30	Q119-11B	15	1.18	8.51	9.69	9.16	93.8	
P4391-32	Q119-12A	16	1.15	8.44	9.59	9.28	96.3	
P4391-33	Q119-12B	17	1.15	8.76	9.91	9.13	91.1	
P4392-01	Q119-12C	18	1.18	8.58	9.76	8.71	87.8	
P4392-02	Q119-13B	19	1.18	8.43	9.61	9.11	94.1	
P4392-03	Q119-13C	20	1.11	8.78	9.89	8.92	89.0	
P4392-04	Q119-14B	21	1.13	8.75	9.88	8.98	89.7	
P4392-05	Q119-14C	22	1.15	8.82	9.97	8.66	85.1	
P4392-06	Q119-15A	23	1.15	8.82	9.97	9.13	90.5	
P4392-07	Q119-15B	24	1.18	8.53	9.71	8.34	83.9	
P4392-08	Q119-15C	25	1.15	8.68	9.83	8.41	83.6	
P4392-09	Q119-16A	26	1.13	8.80	9.93	9.12	90.8	
P4392-10	Q119-16B	27	1.15	8.50	9.65	8.89	91.1	
P4392-11	Q119-16C	28	1.18	8.40	9.58	8.75	90.1	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/15/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:30
In Date: 10/14/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

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

QC:LB132917

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
P4392-12	Q119-17A	29	1.17	8.60	9.77	9.2	93.4	
P4392-13	Q119-17B	30	1.15	8.53	9.68	8.86	90.4	
P4392-14	Q119-17C	31	1.17	8.46	9.63	8.77	89.8	
P4392-15	Q119-18A	32	1.18	8.66	9.84	9.25	93.2	
P4392-16	Q119-18B	33	1.15	8.38	9.53	8.74	90.6	
P4392-17	Q119-18C	34	1.13	8.73	9.86	9.00	90.1	
P4392-18	Q119-19A	35	1.18	8.50	9.68	8.89	90.7	
P4392-19	Q119-19B	36	1.18	8.63	9.81	9.06	91.3	
P4392-20	Q119-20A	37	1.15	8.80	9.95	9.28	92.4	
P4392-21	Q119-20B	38	1.16	8.40	9.56	8.99	93.2	
P4392-22	Q119-21A	39	1.18	8.71	9.89	9.39	94.3	
P4392-23	Q119-21B	40	1.18	8.42	9.6	9.04	93.3	
P4392-24	Q119-22A	41	1.17	8.55	9.72	9.39	96.1	
P4392-25	Q119-22B	42	1.15	8.82	9.97	9.24	91.7	
P4392-26	Q119-23A	43	1.15	8.50	9.65	9.03	92.7	
P4392-27	Q119-23B	44	1.19	8.67	9.86	9.25	93.0	
P4392-28	Q119-24A	45	1.18	8.50	9.68	8.78	89.4	
P4392-29	Q119-24B	46	1.17	8.75	9.92	8.81	87.3	
P4392-30	Q119-DUP1	47	1.18	8.50	9.68	8.51	86.2	
P4392-31	Q119-DUP2	48	1.18	8.54	9.72	9.35	95.7	
P4392-32	Q119-DUP3	49	1.16	8.80	9.96	9.41	93.7	
P4392-33	Q119-DUP4	50	1.17	8.61	9.78	8.46	84.7	
P4392-34	Q119-DUP5	51	1.18	8.51	9.69	8.92	91.0	
P4392-35	Q119-DUP6	52	1.19	8.52	9.71	7.38	72.7	
P4392-36	Q119-DUP7	53	1.16	8.40	9.56	8.71	89.9	
P4397-01	WB-301-TOP	54	1.15	8.80	9.95	6.72	63.3	
P4397-02	WB-301-BOT	55	1.16	8.63	9.79	7.72	76.0	
P4399-01	1009-A	60	1.00	1.00	2.00	2.00	100.0	debris



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/15/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:30
In Date: 10/14/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

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

QC:LB132917

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
P4400-01	NB-08-101424	61	1.19	8.78	9.97	9.25	91.8	
P4400-02	NB-08-101424-E2	62	1.17	8.57	9.74	9.06	92.1	
P4401-01	SU-03-101424	56	1.15	8.46	9.61	9.35	96.9	
P4401-02	SU-03-101424E2	57	1.18	8.70	9.88	9.52	95.9	
P4403-01	Hawthorne TP Soil	58	1.18	8.58	9.76	8.99	91.0	
P4403-03	Hawthorne TP Soil	59	1.15	8.84	9.99	9.36	92.9	

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

WORKLIST(Hardcopy Internal Chain)

VB 132917

WorkList Name : %1-101424

WorkList ID : 184382

Department : Wet-Chemistry

Date : 10-14-2024 07:40:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4391-01	Q119-1A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-04	Q119-2A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-07	Q119-3A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-10	Q119-4A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-13	Q119-5A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-16	Q119-6A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-17	Q119-6B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-19	Q119-7B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-21	Q119-8B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-23	Q119-9A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-24	Q119-9B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-26	Q119-10A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-27	Q119-10B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-29	Q119-11A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-30	Q119-11B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-32	Q119-12A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4391-33	Q119-12B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-01	Q119-12C	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-02	Q119-13B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-03	Q119-13C	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-04	Q119-14B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO

Date/Time 10-14-24 15:00

Raw Sample Received by: JH WOC

Raw Sample Relinquished by: JH WOC

Date/Time 10-14-24

Raw Sample Received by: JH WOC

Raw Sample Relinquished by: JH WOC

WORKLIST(Hardcopy Internal Chain)

W3132917

WorkList Name : %1-101424 WorkList ID : 184382 Department : Wet-Chemistry Date : 10-14-2024 07:40:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4392-05	Q119-14C	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-06	Q119-15A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-07	Q119-15B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-08	Q119-15C	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-09	Q119-16A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-10	Q119-16B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-11	Q119-16C	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-12	Q119-17A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-13	Q119-17B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-14	Q119-17C	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-15	Q119-18A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-16	Q119-18B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-17	Q119-18C	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-18	Q119-19A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-19	Q119-19B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-20	Q119-20A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-21	Q119-20B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-22	Q119-21A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-23	Q119-21B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-24	Q119-22A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-25	Q119-22B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO

Date/Time 10-14-24 15:00 Date/Time 10-14-24 17:06

Raw Sample Received by: 30 woc Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature] Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

VB 132917

WorkList Name : %1-101424

WorkList ID : 184382

Department : Wet-Chemistry

Date : 10-14-2024 07:40:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4392-26	Q119-23A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-27	Q119-23B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-28	Q119-24A	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-29	Q119-24B	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-30	Q119-DUP1	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-31	Q119-DUP2	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-32	Q119-DUP3	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-33	Q119-DUP4	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-34	Q119-DUP5	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-35	Q119-DUP6	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4392-36	Q119-DUP7	Solid	Percent Solids	Cool 4 deg C	ATCE02	K31	10/10/2024	Chemtech -SO
P4397-01	WB-301-TOP	Solid	Percent Solids	Cool 4 deg C	PORT06	K32	10/10/2024	Chemtech -SO
P4397-02	WB-301-BOT	Solid	Percent Solids	Cool 4 deg C	PORT06	K32	10/10/2024	Chemtech -SO
P4399-01	1009-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/14/2024	Chemtech -SO
P4400-01	NB-08-101424	Solid	Percent Solids	Cool 4 deg C	PSEG05	K32	10/14/2024	Chemtech -SO
P4400-02	NB-08-101424-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	K32	10/14/2024	Chemtech -SO
P4401-01	SU-03-101424	Solid	Percent Solids	Cool 4 deg C	PSEG05	K33	10/14/2024	Chemtech -SO
P4401-02	SU-03-101424E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	K33	10/14/2024	Chemtech -SO
P4403-01	Hawthorne TP Soil	Solid	Percent Solids	Cool 4 deg C	PSEG03	K11	10/14/2024	Chemtech -SO
P4403-03	Hawthorne TP Soil	Solid	Percent Solids	Cool 4 deg C	PSEG03	K11	10/14/2024	Chemtech -SO

Date/Time 10-14-24 15:00
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 10-14-24 17:00
 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. **P4397**
QUOTE NO.
COC Number **2042048**

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: **Gannet Fleming**
ADDRESS: **1010 Adam Avenue**
CITY **Audobon** STATE: **PA** ZIP: **19423**
ATTENTION: **Joe Krupansky**
PHONE: **610-301-8362** FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **Amtrak's replacement of SB**
PROJECT NO.: **950000818** LOCATION: **Kearny, NJ**
PROJECT MANAGER: **Joe Krupansky**
e-mail: **Q7AQC@bomsystems.com**
PHONE: **610-301-8362** FAX:

CLIENT BILLING INFORMATION

BILL TO: **Chemtech** PO#: **284 Sheffield St.**
ADDRESS: **284 Sheffield St.**
CITY **Mountainside** STATE: **NJ** ZIP: **07092**
ATTENTION: **Samantha** PHONE: **908-788-3198**

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 **BEM EDD**

**100 VOC + 10
TCL PAH
PCB
TAX Metals
CADD, CALD
EPH**

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		A	B	C	D	E	F	G	H	I	
1.	NB-301-70P	S	X		10/10	10:00	10	X	X	X	X	X	X				
2.	NB-301-BOT	S	X		10/10	12:15	10	X	X	X	X	X	X				
3.	NB-301-SW	GW	X		10/10	11:00	7	X	X	X	X	X					
4.	7B-10102024	W			10/10	LAB	2	X									
5.	Temp. Blank																
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER: 1. Kita Mursula	DATE/TIME: 3:05 PM 10/11/24	RECEIVED BY: 1. [Signature]	DATE/TIME: 10-11-24	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.5 °C
RELINQUISHED BY SAMPLER: 2. [Signature]	DATE/TIME:	RECEIVED BY: 2. [Signature]	DATE/TIME:	Comments:
RELINQUISHED BY SAMPLER: 3. [Signature]	DATE/TIME: 10/11/24	RECEIVED BY: 3. [Signature]	DATE/TIME:	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 (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488