

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:	Q3649	OrderDate:	11/14/2025 3:02:13 PM
Client:	HDR, Inc.	Project:	PVWC Linear Construction
Contact:	Andrew Wadden	Location:	D41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3649-02	B5-0.5-1.0-20251114	SOIL	VOC-TCLVOA-10	8260D	11/14/25		11/19/25	11/14/25
Q3649-04	DUPE-0.5-1.0-20251114	SOIL	VOC-TCLVOA-10	8260D	11/14/25		11/19/25	11/14/25
Q3649-05	B4-0.05-1.0-20251114	SOIL	VOC-TCLVOA-10	8260D	11/14/25		11/18/25	11/14/25
Q3649-09	B3-0.5-1.0-20251114	SOIL	VOC-TCLVOA-10	8260D	11/14/25		11/18/25	11/14/25



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

Hit Summary Sheet
SW-846

SDG No.: Q3649
Client: HDR, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	DUPE-0.5-1.0-20251114							
Q3649-04	DUPE-0.5-1.0-2025 SOIL	Acetone		28.8		4.30	22.7	ug/Kg
		Total Voc :		28.8				
		Total Concentration:		28.8				



QC SUMMARY

Surrogate Summary

SDG No.: **Q3649**

Client: **HDR, Inc.**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3649-02	B5-0.5-1.0-20251114	1,2-Dichloroethane-d4	50	62.5	125		70 (63)	130 (155)
		Dibromofluoromethane	50	50.8	102		70 (70)	130 (134)
		Toluene-d8	50	45.9	92		70 (74)	130 (123)
		4-Bromofluorobenzene	50	55.6	111		70 (52)	130 (138)
Q3649-04	DUPE-0.5-1.0-20251114	1,2-Dichloroethane-d4	50	60.1	120		70 (63)	130 (155)
		Dibromofluoromethane	50	48.6	97		70 (70)	130 (134)
		Toluene-d8	50	44.3	89		70 (74)	130 (123)
		4-Bromofluorobenzene	50	51.4	103		70 (52)	130 (138)
Q3649-05	B4-0.05-1.0-20251114	1,2-Dichloroethane-d4	50	59.1	118		70 (63)	130 (155)
		Dibromofluoromethane	50	49.9	100		70 (70)	130 (134)
		Toluene-d8	50	45.8	92		70 (74)	130 (123)
		4-Bromofluorobenzene	50	56.6	113		70 (52)	130 (138)
Q3649-09	B3-0.5-1.0-20251114	1,2-Dichloroethane-d4	50	58.8	117		70 (63)	130 (155)
		Dibromofluoromethane	50	48.0	96		70 (70)	130 (134)
		Toluene-d8	50	43.6	87		70 (74)	130 (123)
		4-Bromofluorobenzene	50	55.0	110		70 (52)	130 (138)
VW1118SBL01	VW1118SBL01	1,2-Dichloroethane-d4	50	64.7	129		70 (63)	130 (155)
		Dibromofluoromethane	50	52.3	105		70 (70)	130 (134)
		Toluene-d8	50	47.4	95		70 (74)	130 (123)
		4-Bromofluorobenzene	50	52.0	104		70 (52)	130 (138)
VW1118SBS01	VW1118SBS01	1,2-Dichloroethane-d4	50	53.7	107		70 (63)	130 (155)
		Dibromofluoromethane	50	52.0	104		70 (70)	130 (134)
		Toluene-d8	50	52.0	104		70 (74)	130 (123)
		4-Bromofluorobenzene	50	51.7	103		70 (52)	130 (138)
VW1118SBSD0	VW1118SBSD01	1,2-Dichloroethane-d4	50	52.1	104		70 (63)	130 (155)
		Dibromofluoromethane	50	50.5	101		70 (70)	130 (134)
		Toluene-d8	50	51.2	102		70 (74)	130 (123)
		4-Bromofluorobenzene	50	49.7	99		70 (52)	130 (138)
VW1119SBL01	VW1119SBL01	1,2-Dichloroethane-d4	50	60.5	121		70 (63)	130 (155)
		Dibromofluoromethane	50	51.6	103		70 (70)	130 (134)
		Toluene-d8	50	45.5	91		70 (74)	130 (123)
		4-Bromofluorobenzene	50	54.5	109		70 (52)	130 (138)
VW1119SBS01	VW1119SBS01	1,2-Dichloroethane-d4	50	52.2	104		70 (63)	130 (155)
		Dibromofluoromethane	50	51.8	104		70 (70)	130 (134)
		Toluene-d8	50	52.1	104		70 (74)	130 (123)
		4-Bromofluorobenzene	50	50.7	101		70 (52)	130 (138)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q3649	Analytical Method:	SW8260D
Client:	HDR, Inc.	Datafile :	VW032470.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW1118SBS01	Dichlorodifluoromethane	20	20.6	ug/Kg	103			40 (64)	160 (136)	
	Chloromethane	20	22.4	ug/Kg	112			40 (73)	160 (129)	
	Vinyl chloride	20	22.2	ug/Kg	111			70 (73)	130 (133)	
	Bromomethane	20	21.5	ug/Kg	108			40 (77)	160 (137)	
	Chloroethane	20	21.2	ug/Kg	106			40 (69)	160 (130)	
	Trichlorofluoromethane	20	18.4	ug/Kg	92			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	21.8	ug/Kg	109			70 (81)	130 (123)	
	1,1-Dichloroethene	20	21.9	ug/Kg	110			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (60)	160 (174)	
	Carbon disulfide	20	21.0	ug/Kg	105			40 (73)	160 (125)	
	Methyl tert-butyl Ether	20	20.8	ug/Kg	104			70 (77)	130 (129)	
	Methyl Acetate	20	20.2	ug/Kg	101			70 (51)	130 (140)	
	Methylene Chloride	20	24.2	ug/Kg	121			70 (54)	130 (158)	
	trans-1,2-Dichloroethene	20	21.8	ug/Kg	109			70 (80)	130 (123)	
	1,1-Dichloroethane	20	22.2	ug/Kg	111			70 (82)	130 (123)	
	Cyclohexane	20	21.9	ug/Kg	110			70 (76)	130 (122)	
	2-Butanone	100	100	ug/Kg	100			40 (69)	160 (131)	
	Carbon Tetrachloride	20	21.6	ug/Kg	108			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	21.1	ug/Kg	106			70 (82)	130 (123)	
	Bromochloromethane	20	22.7	ug/Kg	114			70 (80)	130 (127)	
	Chloroform	20	22.5	ug/Kg	113			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	21.7	ug/Kg	109			70 (80)	130 (126)	
	Methylcyclohexane	20	20.6	ug/Kg	103			70 (77)	130 (123)	
	Benzene	20	21.9	ug/Kg	110			70 (84)	130 (121)	
	1,2-Dichloroethane	20	22.2	ug/Kg	111			70 (81)	130 (126)	
	Trichloroethene	20	21.3	ug/Kg	106			70 (83)	130 (122)	
	1,2-Dichloropropane	20	22.1	ug/Kg	111			70 (83)	130 (122)	
	Bromodichloromethane	20	21.8	ug/Kg	109			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			40 (70)	160 (135)	
	Toluene	20	21.6	ug/Kg	108			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	20.5	ug/Kg	103			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	20.8	ug/Kg	104			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	21.3	ug/Kg	106			70 (82)	130 (125)	
	2-Hexanone	100	100	ug/Kg	100			40 (66)	160 (138)	
	Dibromochloromethane	20	20.9	ug/Kg	104			70 (79)	130 (125)	
	1,2-Dibromoethane	20	21.4	ug/Kg	107			70 (80)	130 (125)	
	Tetrachloroethene	20	21.7	ug/Kg	109			70 (83)	130 (125)	
	Chlorobenzene	20	21.6	ug/Kg	108			70 (84)	130 (122)	
	Ethyl Benzene	20	21.2	ug/Kg	106			70 (82)	130 (124)	
	m/p-Xylenes	40	43.5	ug/Kg	109			70 (83)	130 (124)	
	o-Xylene	20	21.4	ug/Kg	107			70 (83)	130 (123)	
	Styrene	20	21.6	ug/Kg	108			70 (82)	130 (124)	
	Bromoform	20	20.1	ug/Kg	101			70 (75)	130 (127)	
	Isopropylbenzene	20	20.1	ug/Kg	101			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	21.1	ug/Kg	106			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	21.2	ug/Kg	106			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	20.7	ug/Kg	104			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	21.1	ug/Kg	106			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3649</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>HDR, Inc.</u>	Datafile :	<u>VW032470.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW1118SBS01	1,2-Dibromo-3-Chloropropane	20	19.2	ug/Kg	96			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	20.1	ug/Kg	101			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	20.0	ug/Kg	100			70 (70)	130 (137)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q3649	Analytical Method:	SW8260D
Client:	HDR, Inc.	Datafile :	VW032471.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW1118SBSD01	Dichlorodifluoromethane	20	21.9	ug/Kg	110	7		40 (64)	160 (136)	30 (20)
	Chloromethane	20	22.0	ug/Kg	110	2		40 (73)	160 (129)	30 (15)
	Vinyl chloride	20	22.5	ug/Kg	113	2		70 (73)	130 (133)	30 (15)
	Bromomethane	20	22.2	ug/Kg	111	3		40 (77)	160 (137)	30 (15)
	Chloroethane	20	21.7	ug/Kg	109	3		40 (69)	160 (130)	30 (15)
	Trichlorofluoromethane	20	22.1	ug/Kg	111	19		40 (69)	160 (134)	30 (27)
	1,1,2-Trichlorotrifluoroethane	20	22.7	ug/Kg	114	4		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	22.3	ug/Kg	112	2		70 (79)	130 (121)	30 (16)
	Acetone	100	100	ug/Kg	100	10		40 (60)	160 (174)	30 (28)
	Carbon disulfide	20	21.5	ug/Kg	108	3		40 (73)	160 (125)	30 (15)
	Methyl tert-butyl Ether	20	20.7	ug/Kg	104	0		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	20.0	ug/Kg	100	1		70 (51)	130 (140)	30 (30)
	Methylene Chloride	20	23.6	ug/Kg	118	3		70 (54)	130 (158)	30 (20)
	trans-1,2-Dichloroethene	20	22.1	ug/Kg	111	2		70 (80)	130 (123)	30 (15)
	1,1-Dichloroethane	20	22.6	ug/Kg	113	2		70 (82)	130 (123)	30 (15)
	Cyclohexane	20	22.0	ug/Kg	110	0		70 (76)	130 (122)	30 (15)
	2-Butanone	100	100	ug/Kg	100	0		40 (69)	160 (131)	30 (29)
	Carbon Tetrachloride	20	22.5	ug/Kg	113	5		70 (76)	130 (129)	30 (15)
	cis-1,2-Dichloroethene	20	21.6	ug/Kg	108	2		70 (82)	130 (123)	30 (15)
	Bromochloromethane	20	22.8	ug/Kg	114	0		70 (80)	130 (127)	30 (15)
	Chloroform	20	22.7	ug/Kg	114	1		70 (82)	130 (125)	30 (15)
	1,1,1-Trichloroethane	20	22.3	ug/Kg	112	3		70 (80)	130 (126)	30 (15)
	Methylcyclohexane	20	20.8	ug/Kg	104	1		70 (77)	130 (123)	30 (15)
	Benzene	20	21.8	ug/Kg	109	1		70 (84)	130 (121)	30 (15)
	1,2-Dichloroethane	20	21.8	ug/Kg	109	2		70 (81)	130 (126)	30 (15)
	Trichloroethene	20	21.3	ug/Kg	106	0		70 (83)	130 (122)	30 (15)
	1,2-Dichloropropane	20	21.8	ug/Kg	109	2		70 (83)	130 (122)	30 (15)
	Bromodichloromethane	20	21.4	ug/Kg	107	2		70 (82)	130 (123)	30 (15)
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	0		40 (70)	160 (135)	30 (26)
	Toluene	20	21.9	ug/Kg	110	2		70 (83)	130 (122)	30 (15)
	t-1,3-Dichloropropene	20	20.4	ug/Kg	102	1		70 (78)	130 (124)	30 (15)
	cis-1,3-Dichloropropene	20	20.8	ug/Kg	104	0		70 (81)	130 (122)	30 (15)
	1,1,2-Trichloroethane	20	21.2	ug/Kg	106	0		70 (82)	130 (125)	30 (15)
	2-Hexanone	100	100	ug/Kg	100	0		40 (66)	160 (138)	30 (27)
	Dibromochloromethane	20	20.7	ug/Kg	104	0		70 (79)	130 (125)	30 (15)
	1,2-Dibromoethane	20	20.9	ug/Kg	104	3		70 (80)	130 (125)	30 (16)
	Tetrachloroethene	20	21.2	ug/Kg	106	3		70 (83)	130 (125)	30 (15)
	Chlorobenzene	20	21.5	ug/Kg	108	0		70 (84)	130 (122)	30 (15)
	Ethyl Benzene	20	21.9	ug/Kg	110	4		70 (82)	130 (124)	30 (15)
	m/p-Xylenes	40	44.4	ug/Kg	111	2		70 (83)	130 (124)	30 (15)
	o-Xylene	20	21.2	ug/Kg	106	1		70 (83)	130 (123)	30 (15)
	Styrene	20	21.9	ug/Kg	110	2		70 (82)	130 (124)	30 (15)
	Bromoform	20	19.3	ug/Kg	97	4		70 (75)	130 (127)	30 (16)
	Isopropylbenzene	20	21.7	ug/Kg	109	8		70 (82)	130 (124)	30 (15)
	1,1,2,2-Tetrachloroethane	20	22.3	ug/Kg	112	6		70 (77)	130 (127)	30 (21)
	1,3-Dichlorobenzene	20	22.5	ug/Kg	113	6		70 (83)	130 (122)	30 (15)
	1,4-Dichlorobenzene	20	21.6	ug/Kg	108	4		70 (84)	130 (121)	30 (15)
	1,2-Dichlorobenzene	20	21.7	ug/Kg	109	3		70 (83)	130 (124)	30 (15)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3649</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>HDR, Inc.</u>	Datafile :	<u>VW032471.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW1118SBSD01	1,2-Dibromo-3-Chloropropane	20	19.8	ug/Kg	99	3		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	19.9	ug/Kg	100	1		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	20.5	ug/Kg	103	3		70 (70)	130 (137)	30 (16)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3649</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>HDR, Inc.</u>	Datafile :	<u>VW032492.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW1119SBS01	Dichlorodifluoromethane	20	20.0	ug/Kg	100			40 (64)	160 (136)	
	Chloromethane	20	21.9	ug/Kg	110			40 (73)	160 (129)	
	Vinyl chloride	20	21.9	ug/Kg	110			70 (73)	130 (133)	
	Bromomethane	20	21.7	ug/Kg	109			40 (77)	160 (137)	
	Chloroethane	20	20.4	ug/Kg	102			40 (69)	160 (130)	
	Trichlorofluoromethane	20	18.3	ug/Kg	92			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	21.7	ug/Kg	109			70 (81)	130 (123)	
	1,1-Dichloroethene	20	21.0	ug/Kg	105			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (60)	160 (174)	
	Carbon disulfide	20	20.5	ug/Kg	103			40 (73)	160 (125)	
	Methyl tert-butyl Ether	20	19.5	ug/Kg	98			70 (77)	130 (129)	
	Methyl Acetate	20	19.0	ug/Kg	95			70 (51)	130 (140)	
	Methylene Chloride	20	22.6	ug/Kg	113			70 (54)	130 (158)	
	trans-1,2-Dichloroethene	20	21.1	ug/Kg	106			70 (80)	130 (123)	
	1,1-Dichloroethane	20	21.6	ug/Kg	108			70 (82)	130 (123)	
	Cyclohexane	20	20.2	ug/Kg	101			70 (76)	130 (122)	
	2-Butanone	100	96.2	ug/Kg	96			40 (69)	160 (131)	
	Carbon Tetrachloride	20	21.4	ug/Kg	107			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	20.8	ug/Kg	104			70 (82)	130 (123)	
	Bromochloromethane	20	22.0	ug/Kg	110			70 (80)	130 (127)	
	Chloroform	20	21.9	ug/Kg	110			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	21.2	ug/Kg	106			70 (80)	130 (126)	
	Methylcyclohexane	20	19.6	ug/Kg	98			70 (77)	130 (123)	
	Benzene	20	21.4	ug/Kg	107			70 (84)	130 (121)	
	1,2-Dichloroethane	20	21.8	ug/Kg	109			70 (81)	130 (126)	
	Trichloroethene	20	20.7	ug/Kg	104			70 (83)	130 (122)	
	1,2-Dichloropropane	20	21.5	ug/Kg	108			70 (83)	130 (122)	
	Bromodichloromethane	20	20.8	ug/Kg	104			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			40 (70)	160 (135)	
	Toluene	20	21.8	ug/Kg	109			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	20.2	ug/Kg	101			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	20.0	ug/Kg	100			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	21.2	ug/Kg	106			70 (82)	130 (125)	
	2-Hexanone	100	96.5	ug/Kg	97			40 (66)	160 (138)	
	Dibromochloromethane	20	21.1	ug/Kg	106			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.5	ug/Kg	103			70 (80)	130 (125)	
	Tetrachloroethene	20	20.7	ug/Kg	104			70 (83)	130 (125)	
	Chlorobenzene	20	21.1	ug/Kg	106			70 (84)	130 (122)	
	Ethyl Benzene	20	20.7	ug/Kg	104			70 (82)	130 (124)	
	m/p-Xylenes	40	41.8	ug/Kg	104			70 (83)	130 (124)	
	o-Xylene	20	20.3	ug/Kg	102			70 (83)	130 (123)	
	Styrene	20	21.1	ug/Kg	106			70 (82)	130 (124)	
	Bromoform	20	19.6	ug/Kg	98			70 (75)	130 (127)	
	Isopropylbenzene	20	19.2	ug/Kg	96			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	20.4	ug/Kg	102			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	21.1	ug/Kg	106			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	20.4	ug/Kg	102			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	21.4	ug/Kg	107			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3649</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>HDR, Inc.</u>	Datafile :	<u>VW032492.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW1119SBS01	1,2-Dibromo-3-Chloropropane	20	18.9	ug/Kg	95			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	19.1	ug/Kg	96			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	20.2	ug/Kg	101			70 (70)	130 (137)	

VOLATILE METHOD BLANK SUMMARY

Client ID

VW1118SBL01

Lab Name: Alliance

Contract: HDRI08

Lab Code: ACE

SDG NO.: Q3649

Lab File ID: VW032469.D

Lab Sample ID: VW1118SBL01

Date Analyzed: 11/18/2025

Time Analyzed: 10:13

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_W

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VW1118SBS01	VW1118SBS01	VW032470.D	11/18/2025
VW1118SBSD01	VW1118SBSD01	VW032471.D	11/18/2025
B4-0.05-1.0-20251114	Q3649-05	VW032483.D	11/18/2025
B3-0.5-1.0-20251114	Q3649-09	VW032484.D	11/18/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VW1119SBL01

Lab Name: Alliance

Contract: HDRI08

Lab Code: ACE

SDG NO.: Q3649

Lab File ID: VW032491.D

Lab Sample ID: VW1119SBL01

Date Analyzed: 11/19/2025

Time Analyzed: 10:36

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_W

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VW1119SBS01	VW1119SBS01	VW032492.D	11/19/2025
B5-0.5-1.0-20251114	Q3649-02	VW032496.D	11/19/2025
DUPE-0.5-1.0-20251114	Q3649-04	VW032497.D	11/19/2025

COMMENTS: _____



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

**VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)**

Lab Name: Alliance

Contract: HDRI08

Lab Code: ACE

SDG NO.: Q3649

Lab File ID: VW032405.D

BFB Injection Date: 11/10/2025

Instrument ID: MSVOA_W

BFB Injection Time: 14:20

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	18.7
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	67.1
175	5.0 - 9.0% of mass 174	5.1 (7.6) 1
176	95.0 - 101.0% of mass 174	66.1 (98.5) 1
177	5.0 - 9.0% of mass 176	4.1 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VW032406.D	11/10/2025	15:11
VSTDIC010	VSTDIC010	VW032407.D	11/10/2025	15:33
VSTDIC020	VSTDIC020	VW032408.D	11/10/2025	15:55
VSTDIC050	VSTDIC050	VW032409.D	11/10/2025	16:17
VSTDIC100	VSTDIC100	VW032410.D	11/10/2025	16:39
VSTDIC150	VSTDIC150	VW032411.D	11/10/2025	17:00



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

**VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)**

Lab Name: Alliance

Contract: HDRI08

Lab Code: ACE

SDG NO.: Q3649

Lab File ID: VW032467.D

BFB Injection Date: 11/18/2025

Instrument ID: MSVOA_W

BFB Injection Time: 09:15

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	18.3
75	30.0 - 60.0% of mass 95	49.3
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	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	64.4
175	5.0 - 9.0% of mass 174	4.9 (7.7) 1
176	95.0 - 101.0% of mass 174	61.6 (95.7) 1
177	5.0 - 9.0% of mass 176	3.9 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VW032468.D	11/18/2025	09:46
VW1118SBL01	VW1118SBL01	VW032469.D	11/18/2025	10:13
VW1118SBS01	VW1118SBS01	VW032470.D	11/18/2025	10:40
VW1118SBSD01	VW1118SBSD01	VW032471.D	11/18/2025	11:02
B4-0.05-1.0-20251114	Q3649-05	VW032483.D	11/18/2025	15:52
B3-0.5-1.0-20251114	Q3649-09	VW032484.D	11/18/2025	16:14



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

**VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)**

Lab Name: Alliance

Contract: HDRI08

Lab Code: ACE

SDG NO.: Q3649

Lab File ID: VW032489.D

BFB Injection Date: 11/19/2025

Instrument ID: MSVOA_W

BFB Injection Time: 09:32

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	18.9
75	30.0 - 60.0% of mass 95	50.7
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	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	67.8
175	5.0 - 9.0% of mass 174	5.4 (8) 1
176	95.0 - 101.0% of mass 174	66.3 (97.8) 1
177	5.0 - 9.0% of mass 176	4.1 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VW032490.D	11/19/2025	10:01
VW1119SBL01	VW1119SBL01	VW032491.D	11/19/2025	10:36
VW1119SBS01	VW1119SBS01	VW032492.D	11/19/2025	11:11
B5-0.5-1.0-20251114	Q3649-02	VW032496.D	11/19/2025	12:52
DUPE-0.5-1.0-20251114	Q3649-04	VW032497.D	11/19/2025	13:14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: HDRI08
Lab Code: ACE SDG NO.: Q3649
Lab File ID: VW032468.D Date Analyzed: 11/18/2025
Instrument ID: MSVOA_W Time Analyzed: 09:46
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	361815	7.95	661363	8.85	600329	11.63
UPPER LIMIT	723630	8.453	1322730	9.349	1200660	12.129
LOWER LIMIT	180908	7.453	330682	8.349	300165	11.129
EPA SAMPLE NO.						
B4-0.05-1.0-20251114	232615	7.96	543396	8.85	601253	11.63
B3-0.5-1.0-20251114	212864	7.97	490545	8.85	510548	11.63
VW1118SBL01	212726	7.96	511741	8.85	533709	11.63
VW1118SBS01	368383	7.96	685400	8.85	608119	11.63
VW1118SBSD01	367695	7.96	692034	8.85	614192	11.63

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:	<u>Alliance</u>	Contract:	<u>HDRI08</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q3649</u>
Lab File ID:	<u>VW032468.D</u>	Date Analyzed:	<u>11/18/2025</u>
Instrument ID:	<u>MSVOA_W</u>	Time Analyzed:	<u>09:46</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)
		Heated Purge:	(Y/N) <u>Y</u>

	IS4 AREA #	RT #				
12 HOUR STD	279351	13.556				
UPPER LIMIT	558702	14.056				
LOWER LIMIT	139676	13.056				
EPA SAMPLE NO.						
B4-0.05-1.0-20251114	284001	13.56				
B3-0.5-1.0-20251114	271829	13.56				
VW1118SBL01	261053	13.56				
VW1118SBS01	294055	13.56				
VW1118SBSD01	277057	13.56				

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: Alliance Contract: HDRI08
 Lab Code: ACE SDG NO.: Q3649
 Lab File ID: VW032490.D Date Analyzed: 11/19/2025
 Instrument ID: MSVOA_W Time Analyzed: 10:01
 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	346973	7.96	636403	8.85	579827	11.63
UPPER LIMIT	693946	8.459	1272810	9.349	1159650	12.129
LOWER LIMIT	173487	7.459	318202	8.349	289914	11.129
EPA SAMPLE NO.						
B5-0.5-1.0-20251114	198251	7.97	468638	8.85	515247	11.63
DUPE-0.5-1.0-20251114	197627	7.97	485828	8.86	516048	11.63
VW1119SBL01	218109	7.96	508852	8.85	541801	11.63
VW1119SBS01	361405	7.96	660085	8.85	590674	11.63

IS1 = Pentafluorobenzene

IS2 = 1,4-Difluorobenzene

IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: HDRI08
 Lab Code: ACE SDG NO.: Q3649
 Lab File ID: VW032490.D Date Analyzed: 11/19/2025
 Instrument ID: MSVOA_W Time Analyzed: 10:01
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	269243	13.55				
UPPER LIMIT	538486	14.05				
LOWER LIMIT	134622	13.05				
EPA SAMPLE NO.						
B5-0.5-1.0-20251114	242262	13.56				
DUPE-0.5-1.0-20251114	249401	13.56				
VW1119SBL01	260882	13.56				
VW1119SBS01	285477	13.56				

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: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: B5-0.5-1.0-20251114
 Lab Sample ID: Q3649-02
 Analytical Method: 8260D
 Sample Wt/Vol: 7.34 g

Level: LOW
 Final Vol: 5000 uL

Date Collected: 11/14/25
 Date Received: 11/14/25
 SDG No.: Q3649
 Matrix: SOIL
 % Solid: 90.9
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	0.85	U	1	0.85	3.70	ug/Kg	11/19/25 12:52	VW111925
74-87-3	Chloromethane	0.85	U	1	0.85	3.70	ug/Kg	11/19/25 12:52	VW111925
75-01-4	Vinyl Chloride	0.59	U	1	0.59	3.70	ug/Kg	11/19/25 12:52	VW111925
74-83-9	Bromomethane	0.80	U	1	0.80	3.70	ug/Kg	11/19/25 12:52	VW111925
75-00-3	Chloroethane	0.94	U	1	0.94	3.70	ug/Kg	11/19/25 12:52	VW111925
75-69-4	Trichlorofluoromethane	0.91	U	1	0.91	3.70	ug/Kg	11/19/25 12:52	VW111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.79	U	1	0.79	3.70	ug/Kg	11/19/25 12:52	VW111925
75-35-4	1,1-Dichloroethene	0.75	U	1	0.75	3.70	ug/Kg	11/19/25 12:52	VW111925
67-64-1	Acetone	3.60	U	1	3.60	18.7	ug/Kg	11/19/25 12:52	VW111925
75-15-0	Carbon Disulfide	0.79	U	1	0.79	3.70	ug/Kg	11/19/25 12:52	VW111925
1634-04-4	Methyl tert-butyl Ether	0.55	U	1	0.55	3.70	ug/Kg	11/19/25 12:52	VW111925
79-20-9	Methyl Acetate	1.20	U	1	1.20	3.70	ug/Kg	11/19/25 12:52	VW111925
75-09-2	Methylene Chloride	2.60	U	1	2.60	7.50	ug/Kg	11/19/25 12:52	VW111925
156-60-5	trans-1,2-Dichloroethene	0.64	U	1	0.64	3.70	ug/Kg	11/19/25 12:52	VW111925
75-34-3	1,1-Dichloroethane	0.60	U	1	0.60	3.70	ug/Kg	11/19/25 12:52	VW111925
110-82-7	Cyclohexane	0.59	U	1	0.59	3.70	ug/Kg	11/19/25 12:52	VW111925
78-93-3	2-Butanone	4.90	U	1	4.90	18.7	ug/Kg	11/19/25 12:52	VW111925
56-23-5	Carbon Tetrachloride	0.73	U	1	0.73	3.70	ug/Kg	11/19/25 12:52	VW111925
156-59-2	cis-1,2-Dichloroethene	0.56	U	1	0.56	3.70	ug/Kg	11/19/25 12:52	VW111925
74-97-5	Bromochloromethane	0.86	U	1	0.86	3.70	ug/Kg	11/19/25 12:52	VW111925
67-66-3	Chloroform	0.63	U	1	0.63	3.70	ug/Kg	11/19/25 12:52	VW111925
71-55-6	1,1,1-Trichloroethane	0.70	U	1	0.70	3.70	ug/Kg	11/19/25 12:52	VW111925
108-87-2	Methylcyclohexane	0.68	U	1	0.68	3.70	ug/Kg	11/19/25 12:52	VW111925
71-43-2	Benzene	0.59	U	1	0.59	3.70	ug/Kg	11/19/25 12:52	VW111925
107-06-2	1,2-Dichloroethane	0.59	U	1	0.59	3.70	ug/Kg	11/19/25 12:52	VW111925
79-01-6	Trichloroethene	0.61	U	1	0.61	3.70	ug/Kg	11/19/25 12:52	VW111925
78-87-5	1,2-Dichloropropane	0.68	U	1	0.68	3.70	ug/Kg	11/19/25 12:52	VW111925
75-27-4	Bromodichloromethane	0.58	U	1	0.58	3.70	ug/Kg	11/19/25 12:52	VW111925
108-10-1	4-Methyl-2-Pentanone	2.70	U	1	2.70	18.7	ug/Kg	11/19/25 12:52	VW111925
108-88-3	Toluene	0.58	U	1	0.58	3.70	ug/Kg	11/19/25 12:52	VW111925
10061-02-6	t-1,3-Dichloropropene	0.49	U	1	0.49	3.70	ug/Kg	11/19/25 12:52	VW111925
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1	0.46	3.70	ug/Kg	11/19/25 12:52	VW111925
79-00-5	1,1,2-Trichloroethane	0.69	U	1	0.69	3.70	ug/Kg	11/19/25 12:52	VW111925
591-78-6	2-Hexanone	2.80	U	1	2.80	18.7	ug/Kg	11/19/25 12:52	VW111925
124-48-1	Dibromochloromethane	0.65	U	1	0.65	3.70	ug/Kg	11/19/25 12:52	VW111925
106-93-4	1,2-Dibromoethane	0.66	U	1	0.66	3.70	ug/Kg	11/19/25 12:52	VW111925
127-18-4	Tetrachloroethene	0.79	U	1	0.79	3.70	ug/Kg	11/19/25 12:52	VW111925
108-90-7	Chlorobenzene	0.68	U	1	0.68	3.70	ug/Kg	11/19/25 12:52	VW111925
100-41-4	Ethyl Benzene	0.50	U	1	0.50	3.70	ug/Kg	11/19/25 12:52	VW111925
179601-23-1	m/p-Xylenes	0.93	U	1	0.93	7.50	ug/Kg	11/19/25 12:52	VW111925
95-47-6	o-Xylene	0.61	U	1	0.61	3.70	ug/Kg	11/19/25 12:52	VW111925
100-42-5	Styrene	0.53	U	1	0.53	3.70	ug/Kg	11/19/25 12:52	VW111925
75-25-2	Bromoform	0.64	U	1	0.64	3.70	ug/Kg	11/19/25 12:52	VW111925



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

Report of Analysis

Client:	HDR, Inc.	Date Collected:	11/14/25
Project:	PVWC Linear Construction	Date Received:	11/14/25
Client Sample ID:	B5-0.5-1.0-20251114	SDG No.:	Q3649
Lab Sample ID:	Q3649-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.9
Sample Wt/Vol:	7.34 g	Level:	LOW
		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.58	U	1	0.58	3.70	ug/Kg	11/19/25 12:52	VW111925
79-34-5	1,1,2,2-Tetrachloroethane	0.91	U	1	0.91	3.70	ug/Kg	11/19/25 12:52	VW111925
541-73-1	1,3-Dichlorobenzene	1.30	U	1	1.30	3.70	ug/Kg	11/19/25 12:52	VW111925
106-46-7	1,4-Dichlorobenzene	1.20	U	1	1.20	3.70	ug/Kg	11/19/25 12:52	VW111925
95-50-1	1,2-Dichlorobenzene	1.10	U	1	1.10	3.70	ug/Kg	11/19/25 12:52	VW111925
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1	1.40	3.70	ug/Kg	11/19/25 12:52	VW111925
120-82-1	1,2,4-Trichlorobenzene	2.20	U	1	2.20	3.70	ug/Kg	11/19/25 12:52	VW111925
87-61-6	1,2,3-Trichlorobenzene	2.40	U	1	2.40	3.70	ug/Kg	11/19/25 12:52	VW111925
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	62.6			70 (63) - 130 (155)	125%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.8			70 (70) - 130 (134)	102%	SPK: 50		
2037-26-5	Toluene-d8	45.9			70 (74) - 130 (123)	92%	SPK: 50		
460-00-4	4-Bromofluorobenzene	55.6			70 (52) - 130 (138)	111%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	198000							
540-36-3	1,4-Difluorobenzene	469000							
3114-55-4	Chlorobenzene-d5	515000							
3855-82-1	1,4-Dichlorobenzene-d4	242000							

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_W\Data\VW111925\
 Data File : VW032496.D
 Acq On : 19 Nov 2025 12:52
 Operator : SY/MD
 Sample : Q3649-02
 Misc : 7.34g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 B5-0.5-1.0-20251114

Quant Time: Nov 20 01:17:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	198251	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	468638	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	515247	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	242262	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	159876	62.551	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	125.100%
35) Dibromofluoromethane	7.898	113	142415	50.756	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	101.520%
50) Toluene-d8	10.331	98	494358	45.926	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	91.860%
62) 4-Bromofluorobenzene	12.617	95	226269	55.645	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	111.300%

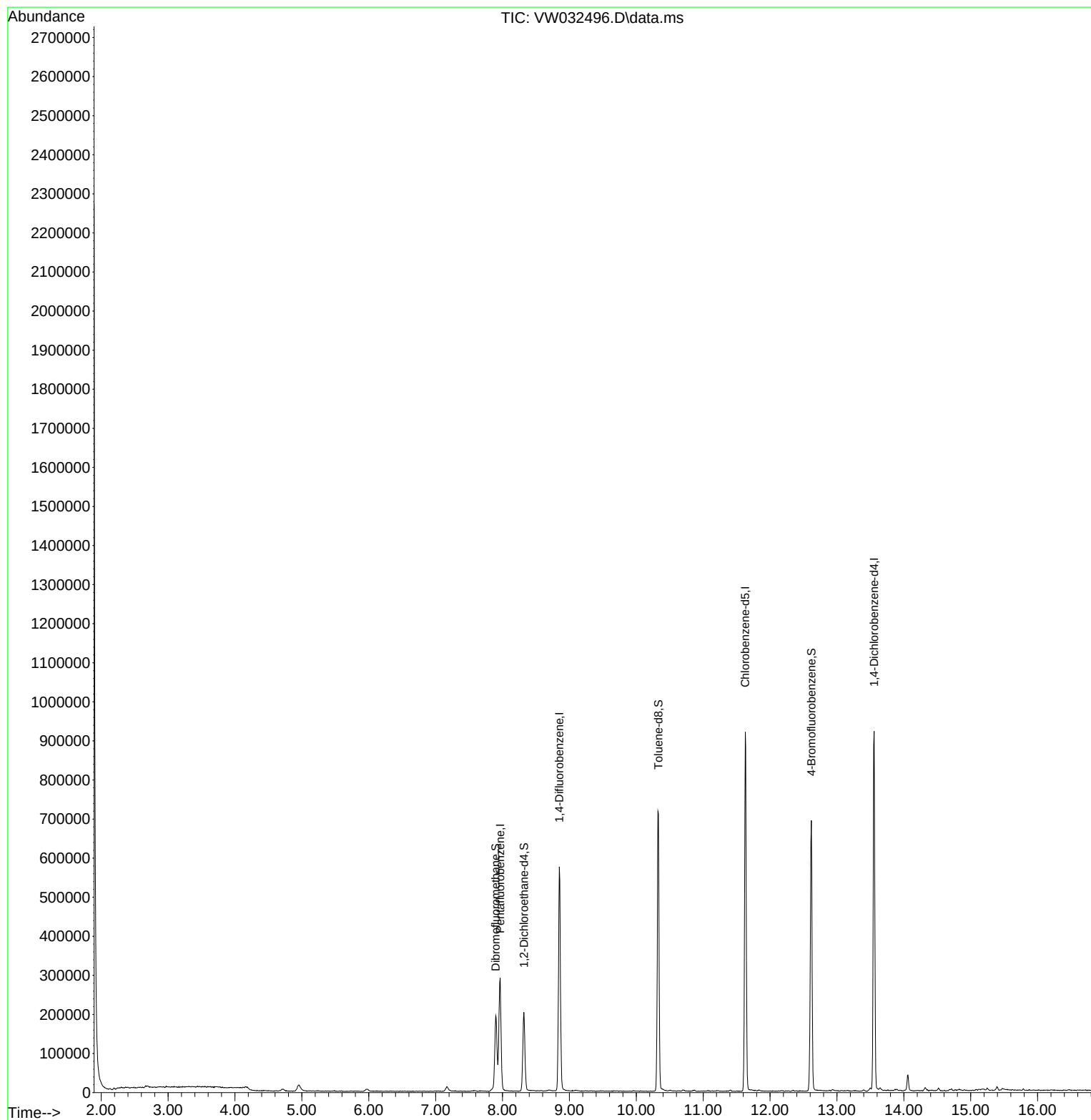
Target Compounds	Qvalue

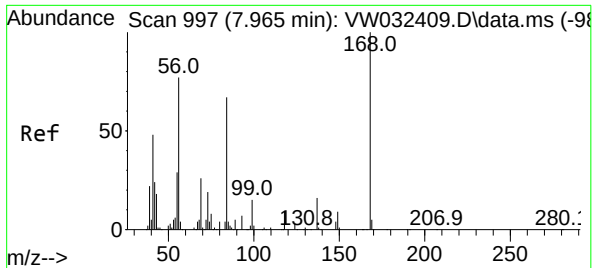
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032496.D
Acq On : 19 Nov 2025 12:52
Operator : SY/MD
Sample : Q3649-02
Misc : 7.34g/5mL/MSVOA_W/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B5-0.5-1.0-20251114

Quant Time: Nov 20 01:17:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

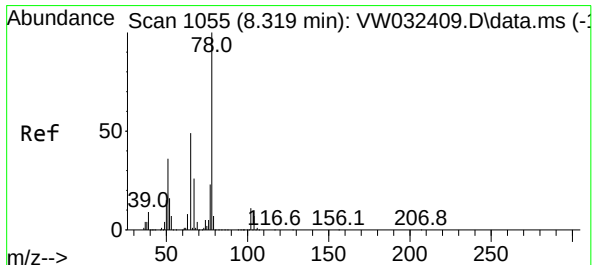
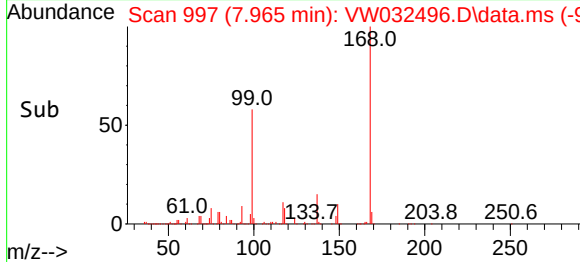
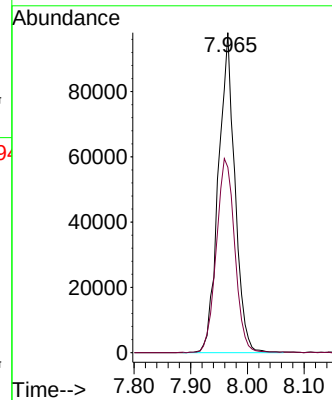
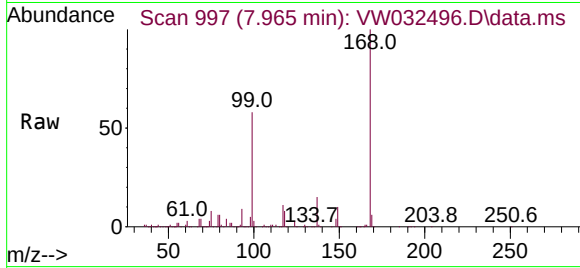




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 99
Delta R.T. 0.000 min
Lab File: VW032496.D
Acq: 19 Nov 2025 12:52

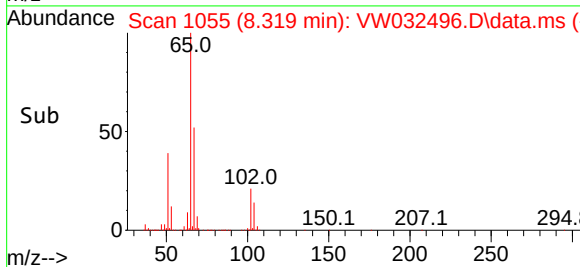
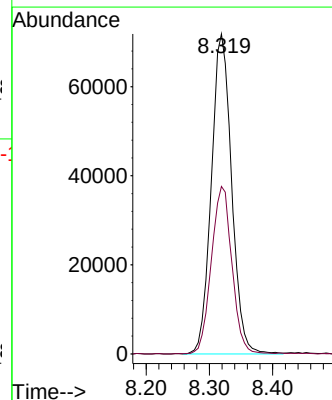
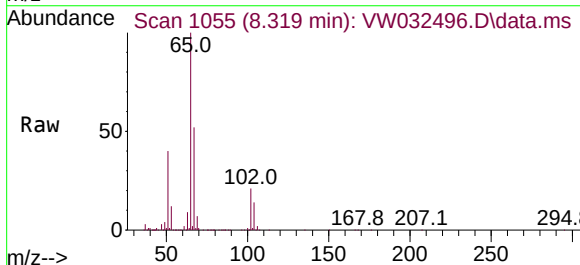
Instrument :
MSVOA_W
ClientSampleId :
B5-0.5-1.0-20251114

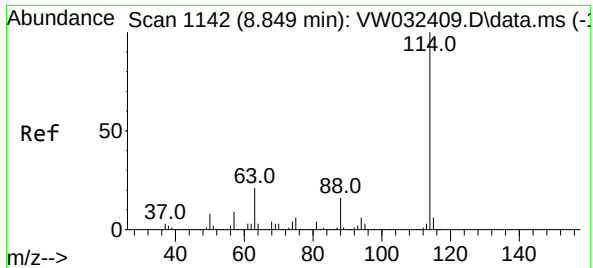
Tgt Ion:168 Resp: 198251
Ion Ratio Lower Upper
168 100
99 57.8 45.4 68.2



#33
1,2-Dichloroethane-d4
Concen: 62.551 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032496.D
Acq: 19 Nov 2025 12:52

Tgt Ion: 65 Resp: 159876
Ion Ratio Lower Upper
65 100
67 53.1 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VW032496.D

Acq: 19 Nov 2025 12:52

Instrument :

MSVOA_W

ClientSampleId :

B5-0.5-1.0-20251114

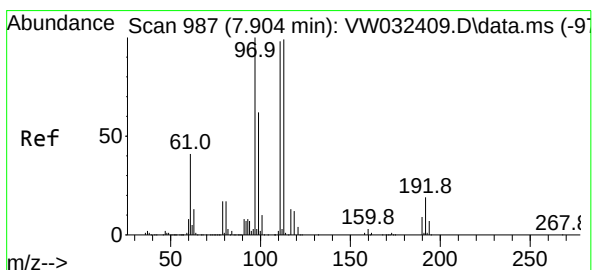
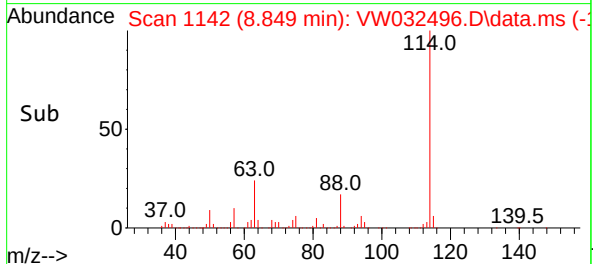
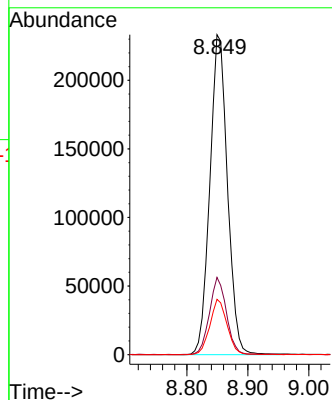
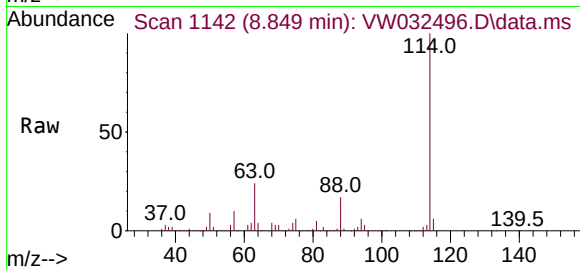
Tgt Ion:114 Resp: 468638

Ion Ratio Lower Upper

114 100

63 24.1 0.0 41.8

88 17.3 0.0 32.6



#35

Dibromofluoromethane

Concen: 50.756 ug/l

RT: 7.898 min Scan# 986

Delta R.T. -0.006 min

Lab File: VW032496.D

Acq: 19 Nov 2025 12:52

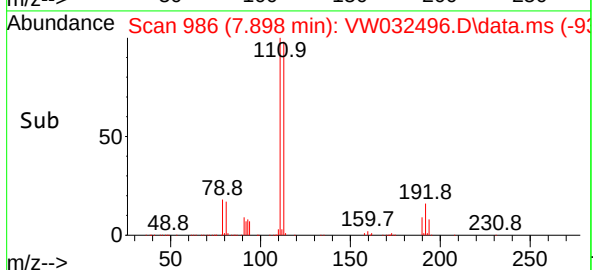
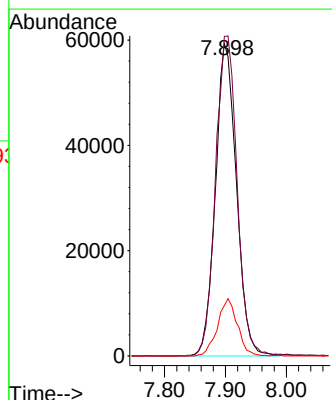
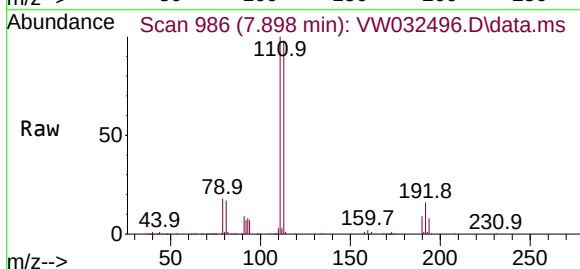
Tgt Ion:113 Resp: 142415

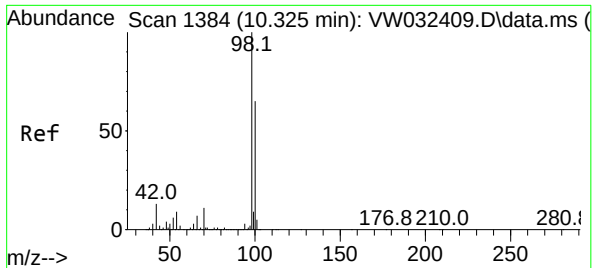
Ion Ratio Lower Upper

113 100

111 104.4 83.1 124.7

192 17.3 13.4 20.2

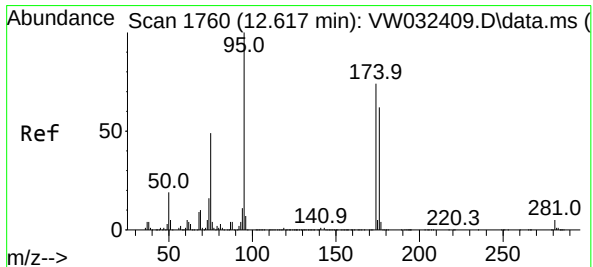
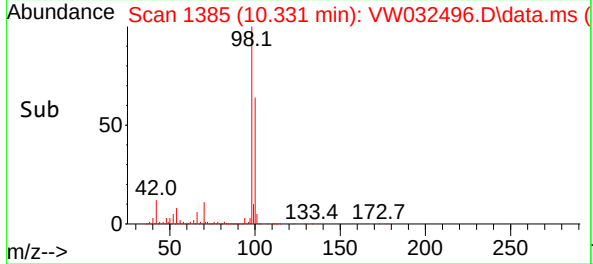
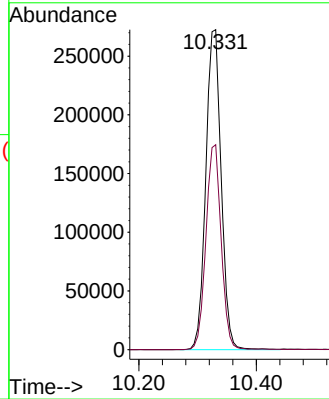
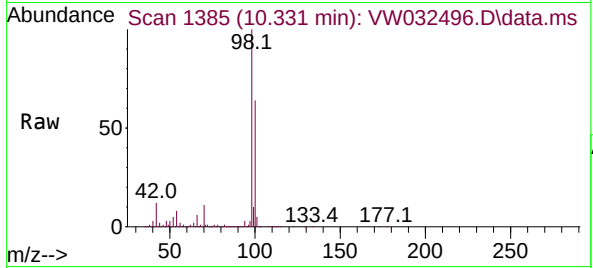




#50
Toluene-d8
Concen: 45.926 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032496.D
Acq: 19 Nov 2025 12:52

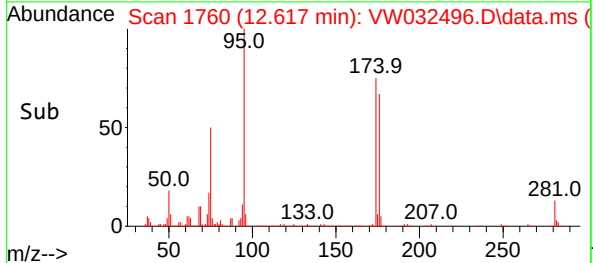
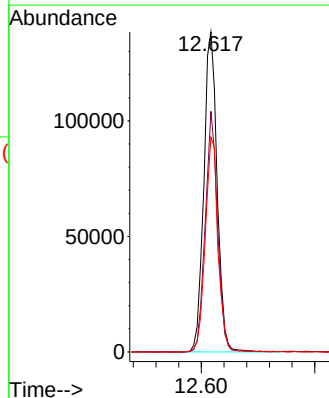
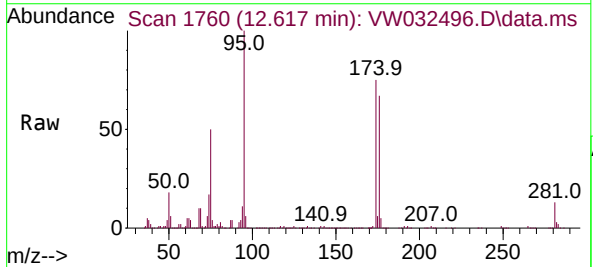
Instrument :
MSVOA_W
ClientSampleId :
B5-0.5-1.0-20251114

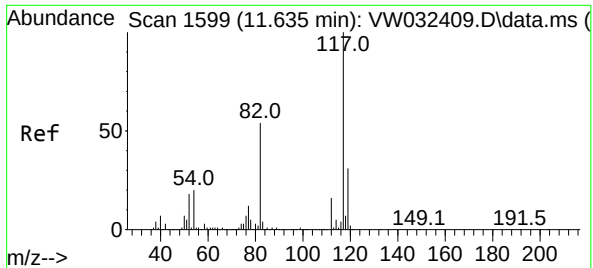
Tgt Ion: 98 Resp: 494358
Ion Ratio Lower Upper
98 100
100 63.6 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 55.645 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032496.D
Acq: 19 Nov 2025 12:52

Tgt Ion: 95 Resp: 226269
Ion Ratio Lower Upper
95 100
174 69.8 0.0 135.4
176 64.1 0.0 131.8

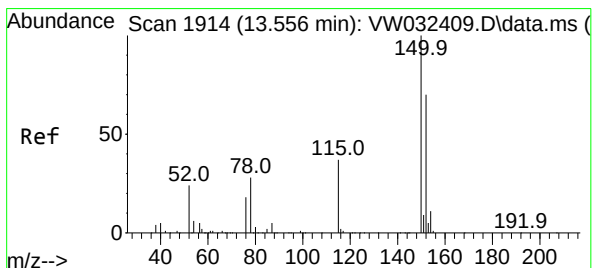
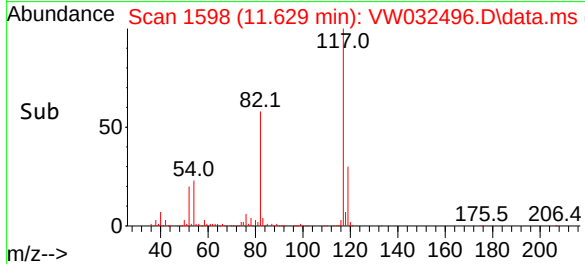
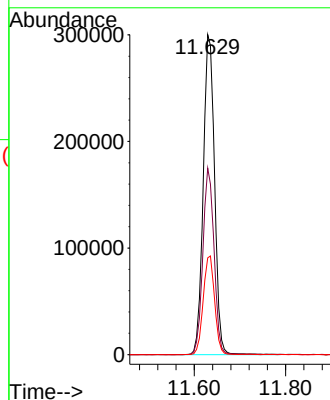
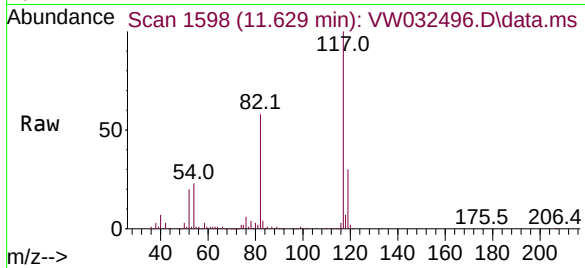




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW032496.D
Acq: 19 Nov 2025 12:52

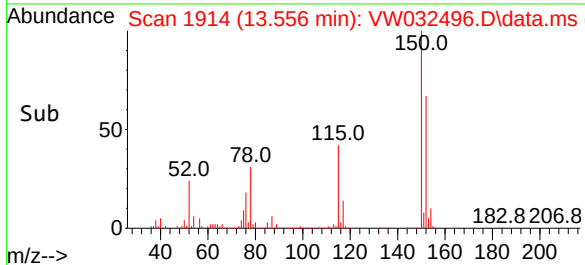
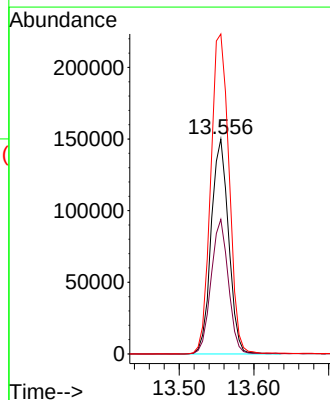
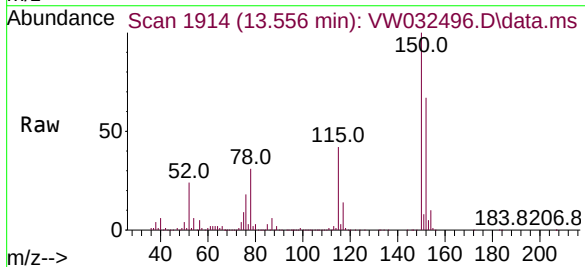
Instrument :
MSVOA_W
ClientSampleId :
B5-0.5-1.0-20251114

Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.3	43.0	64.4
119	30.2	25.0	37.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032496.D
Acq: 19 Nov 2025 12:52

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.0	32.8	98.3
150	156.6	0.0	356.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
 Data File : VW032496.D
 Acq On : 19 Nov 2025 12:52
 Operator : SY/MD
 Sample : Q3649-02
 Misc : 7.34g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 B5-0.5-1.0-20251114

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_W\Method\82W111025S.M
 Title : SW846 8260

Signal : TIC: VW032496.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.954	493	503	519	rBV2	15727	59349	3.73%	0.693%
2	7.167	857	866	878	rBV	11909	36084	2.27%	0.422%
3	7.898	969	986	991	rBV2	194106	481306	30.29%	5.623%
4	7.965	991	997	1010	rVB2	288956	654046	41.16%	7.641%
5	8.319	1046	1055	1066	rBV	201328	444541	27.97%	5.193%
6	8.849	1133	1142	1159	rBV	573578	1146227	72.13%	13.391%
7	10.325	1374	1384	1402	rBV	716300	1319381	83.03%	15.414%
8	11.629	1587	1598	1608	rBV	919503	1589089	100.00%	18.565%
9	12.617	1751	1760	1773	rBV2	691783	1239532	78.00%	14.481%
10	13.556	1907	1914	1925	rVB	916666	1514545	95.31%	17.694%
11	14.062	1985	1997	2006	rBV2	40682	75674	4.76%	0.884%

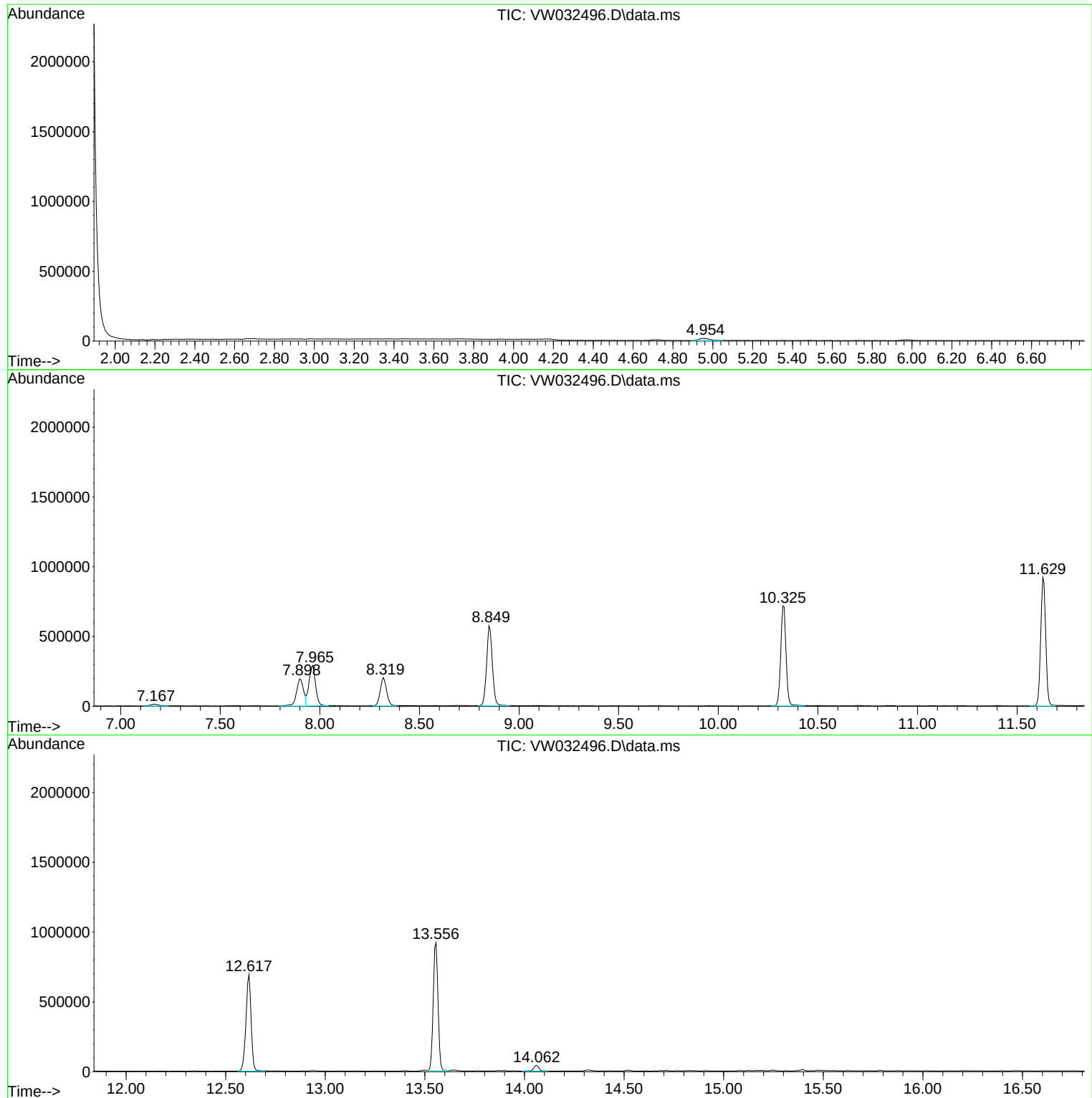
Sum of corrected areas: 8559774

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032496.D
Acq On : 19 Nov 2025 12:52
Operator : SY/MD
Sample : Q3649-02
Misc : 7.34g/5mL/MSVOA_W/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B5-0.5-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032496.D
Acq On : 19 Nov 2025 12:52
Operator : SY/MD
Sample : Q3649-02
Misc : 7.34g/5mL/MSVOA_W/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B5-0.5-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.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_W\Data\VW111925\
Data File : VW032496.D
Acq On : 19 Nov 2025 12:52
Operator : SY/MD
Sample : Q3649-02
Misc : 7.34g/5mL/MSVOA_W/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B5-0.5-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.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
------------------	----	---------	-------	----------	---	----	------	------

Report of Analysis

Client: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: DUPE-0.5-1.0-20251114
 Lab Sample ID: Q3649-04
 Analytical Method: 8260D
 Sample Wt/Vol: 6.21 g

Level: LOW
 Final Vol: 5000 uL

Date Collected: 11/14/25
 Date Received: 11/14/25
 SDG No.: Q3649
 Matrix: SOIL
 % Solid: 88.7
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.00	U	1	1.00	4.50	ug/Kg	11/19/25 13:14	VW111925
74-87-3	Chloromethane	1.00	U	1	1.00	4.50	ug/Kg	11/19/25 13:14	VW111925
75-01-4	Vinyl Chloride	0.72	U	1	0.72	4.50	ug/Kg	11/19/25 13:14	VW111925
74-83-9	Bromomethane	0.97	U	1	0.97	4.50	ug/Kg	11/19/25 13:14	VW111925
75-00-3	Chloroethane	1.10	U	1	1.10	4.50	ug/Kg	11/19/25 13:14	VW111925
75-69-4	Trichlorofluoromethane	1.10	U	1	1.10	4.50	ug/Kg	11/19/25 13:14	VW111925
76-13-1	1,1,2-Trichlorotrifluoroethane	0.96	U	1	0.96	4.50	ug/Kg	11/19/25 13:14	VW111925
75-35-4	1,1-Dichloroethene	0.91	U	1	0.91	4.50	ug/Kg	11/19/25 13:14	VW111925
67-64-1	Acetone	28.8		1	4.30	22.7	ug/Kg	11/19/25 13:14	VW111925
75-15-0	Carbon Disulfide	0.96	U	1	0.96	4.50	ug/Kg	11/19/25 13:14	VW111925
1634-04-4	Methyl tert-butyl Ether	0.66	U	1	0.66	4.50	ug/Kg	11/19/25 13:14	VW111925
79-20-9	Methyl Acetate	1.40	U	1	1.40	4.50	ug/Kg	11/19/25 13:14	VW111925
75-09-2	Methylene Chloride	3.20	U	1	3.20	9.10	ug/Kg	11/19/25 13:14	VW111925
156-60-5	trans-1,2-Dichloroethene	0.78	U	1	0.78	4.50	ug/Kg	11/19/25 13:14	VW111925
75-34-3	1,1-Dichloroethane	0.73	U	1	0.73	4.50	ug/Kg	11/19/25 13:14	VW111925
110-82-7	Cyclohexane	0.72	U	1	0.72	4.50	ug/Kg	11/19/25 13:14	VW111925
78-93-3	2-Butanone	5.90	U	1	5.90	22.7	ug/Kg	11/19/25 13:14	VW111925
56-23-5	Carbon Tetrachloride	0.88	U	1	0.88	4.50	ug/Kg	11/19/25 13:14	VW111925
156-59-2	cis-1,2-Dichloroethene	0.68	U	1	0.68	4.50	ug/Kg	11/19/25 13:14	VW111925
74-97-5	Bromochloromethane	1.00	U	1	1.00	4.50	ug/Kg	11/19/25 13:14	VW111925
67-66-3	Chloroform	0.76	U	1	0.76	4.50	ug/Kg	11/19/25 13:14	VW111925
71-55-6	1,1,1-Trichloroethane	0.84	U	1	0.84	4.50	ug/Kg	11/19/25 13:14	VW111925
108-87-2	Methylcyclohexane	0.83	U	1	0.83	4.50	ug/Kg	11/19/25 13:14	VW111925
71-43-2	Benzene	0.72	U	1	0.72	4.50	ug/Kg	11/19/25 13:14	VW111925
107-06-2	1,2-Dichloroethane	0.72	U	1	0.72	4.50	ug/Kg	11/19/25 13:14	VW111925
79-01-6	Trichloroethene	0.74	U	1	0.74	4.50	ug/Kg	11/19/25 13:14	VW111925
78-87-5	1,2-Dichloropropane	0.83	U	1	0.83	4.50	ug/Kg	11/19/25 13:14	VW111925
75-27-4	Bromodichloromethane	0.71	U	1	0.71	4.50	ug/Kg	11/19/25 13:14	VW111925
108-10-1	4-Methyl-2-Pentanone	3.20	U	1	3.20	22.7	ug/Kg	11/19/25 13:14	VW111925
108-88-3	Toluene	0.71	U	1	0.71	4.50	ug/Kg	11/19/25 13:14	VW111925
10061-02-6	t-1,3-Dichloropropene	0.59	U	1	0.59	4.50	ug/Kg	11/19/25 13:14	VW111925
10061-01-5	cis-1,3-Dichloropropene	0.56	U	1	0.56	4.50	ug/Kg	11/19/25 13:14	VW111925
79-00-5	1,1,2-Trichloroethane	0.84	U	1	0.84	4.50	ug/Kg	11/19/25 13:14	VW111925
591-78-6	2-Hexanone	3.30	U	1	3.30	22.7	ug/Kg	11/19/25 13:14	VW111925
124-48-1	Dibromochloromethane	0.79	U	1	0.79	4.50	ug/Kg	11/19/25 13:14	VW111925
106-93-4	1,2-Dibromoethane	0.80	U	1	0.80	4.50	ug/Kg	11/19/25 13:14	VW111925
127-18-4	Tetrachloroethene	0.95	U	1	0.95	4.50	ug/Kg	11/19/25 13:14	VW111925
108-90-7	Chlorobenzene	0.83	U	1	0.83	4.50	ug/Kg	11/19/25 13:14	VW111925
100-41-4	Ethyl Benzene	0.61	U	1	0.61	4.50	ug/Kg	11/19/25 13:14	VW111925
179601-23-1	m/p-Xylenes	1.10	U	1	1.10	9.10	ug/Kg	11/19/25 13:14	VW111925
95-47-6	o-Xylene	0.74	U	1	0.74	4.50	ug/Kg	11/19/25 13:14	VW111925
100-42-5	Styrene	0.64	U	1	0.64	4.50	ug/Kg	11/19/25 13:14	VW111925
75-25-2	Bromoform	0.78	U	1	0.78	4.50	ug/Kg	11/19/25 13:14	VW111925



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

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: DUPE-0.5-1.0-20251114
Lab Sample ID: Q3649-04
Analytical Method: 8260D
Sample Wt/Vol: 6.21 g

Level: LOW
Final Vol: 5000 uL

Date Collected: 11/14/25
Date Received: 11/14/25
SDG No.: Q3649
Matrix: SOIL
% Solid: 88.7
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.71	U	1	0.71	4.50	ug/Kg	11/19/25 13:14	VW111925
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1	1.10	4.50	ug/Kg	11/19/25 13:14	VW111925
541-73-1	1,3-Dichlorobenzene	1.60	U	1	1.60	4.50	ug/Kg	11/19/25 13:14	VW111925
106-46-7	1,4-Dichlorobenzene	1.40	U	1	1.40	4.50	ug/Kg	11/19/25 13:14	VW111925
95-50-1	1,2-Dichlorobenzene	1.30	U	1	1.30	4.50	ug/Kg	11/19/25 13:14	VW111925
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1	1.70	4.50	ug/Kg	11/19/25 13:14	VW111925
120-82-1	1,2,4-Trichlorobenzene	2.70	U	1	2.70	4.50	ug/Kg	11/19/25 13:14	VW111925
87-61-6	1,2,3-Trichlorobenzene	2.90	U	1	2.90	4.50	ug/Kg	11/19/25 13:14	VW111925
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	60.1			70 (63) - 130 (155)	120%	SPK: 50		
1868-53-7	Dibromofluoromethane	48.6			70 (70) - 130 (134)	97%	SPK: 50		
2037-26-5	Toluene-d8	44.3			70 (74) - 130 (123)	89%	SPK: 50		
460-00-4	4-Bromofluorobenzene	51.4			70 (52) - 130 (138)	103%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	198000							
540-36-3	1,4-Difluorobenzene	486000							
3114-55-4	Chlorobenzene-d5	516000							
3855-82-1	1,4-Dichlorobenzene-d4	249000							

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_W\Data\VW111925\
 Data File : VW032497.D
 Acq On : 19 Nov 2025 13:14
 Operator : SY/MD
 Sample : Q3649-04
 Misc : 6.21g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 DUPE-0.5-1.0-20251114

Quant Time: Nov 20 01:18:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

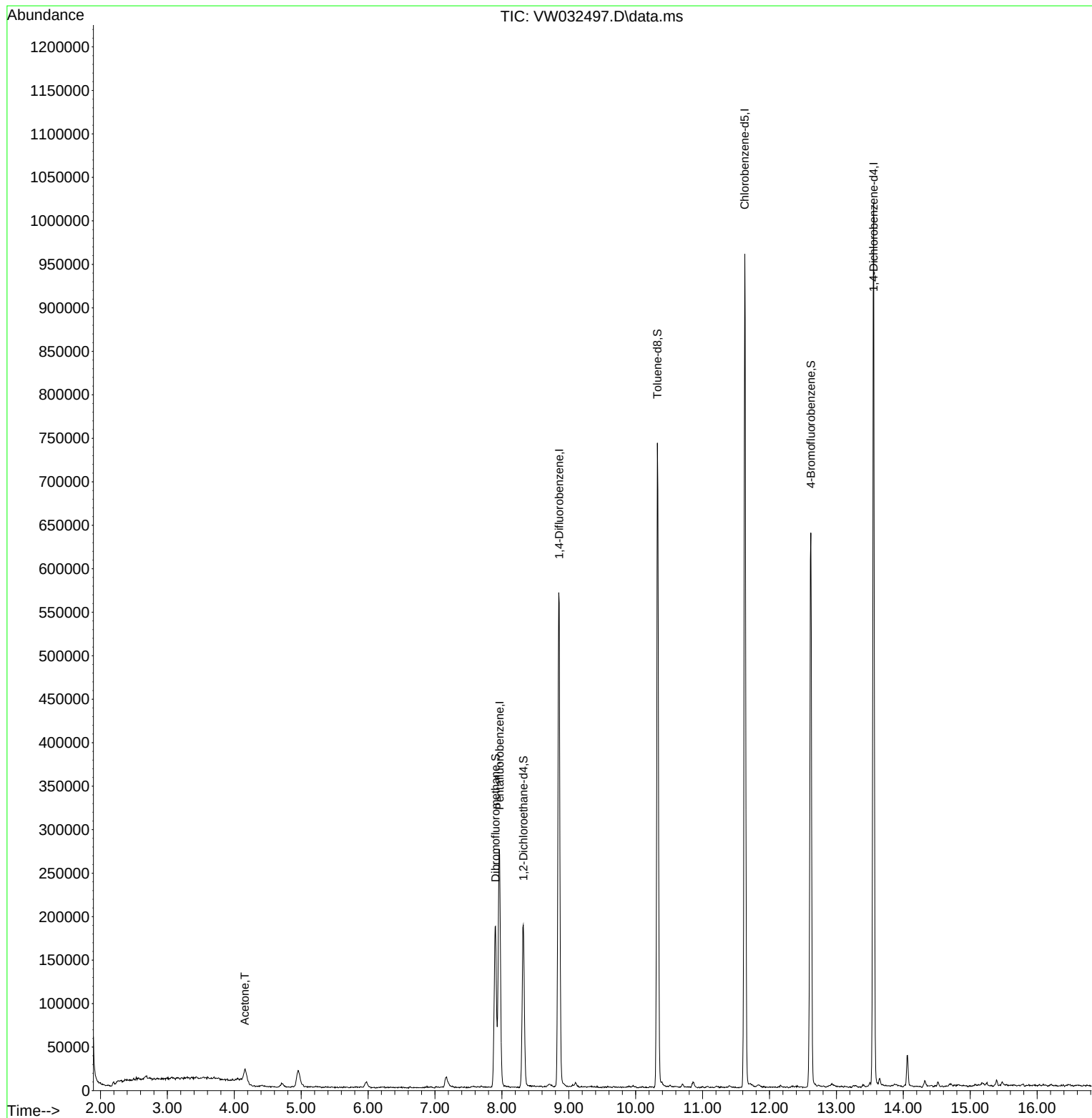
Internal Standards						
1) Pentafluorobenzene	7.965	168	197627	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.856	114	485828	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	516048	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	249401	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	153222	60.137	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	= 120.280%		
35) Dibromofluoromethane	7.904	113	141253	48.561	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	= 97.120%		
50) Toluene-d8	10.325	98	494342	44.300	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	= 88.600%		
62) 4-Bromofluorobenzene	12.617	95	216521	51.364	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	= 102.720%		
Target Compounds						
16) Acetone	4.155	43	24175	31.715	ug/l	Qvalue 99

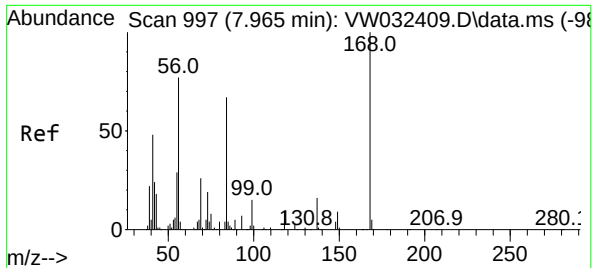
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032497.D
Acq On : 19 Nov 2025 13:14
Operator : SY/MD
Sample : Q3649-04
Misc : 6.21g/5mL/MSVOA_W/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

Quant Time: Nov 20 01:18:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

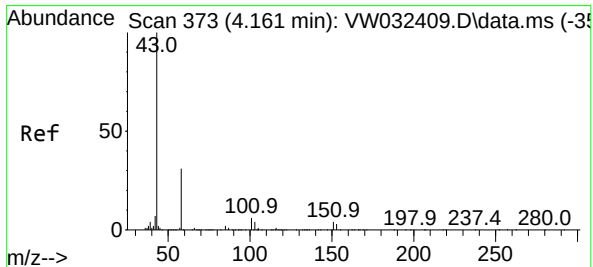
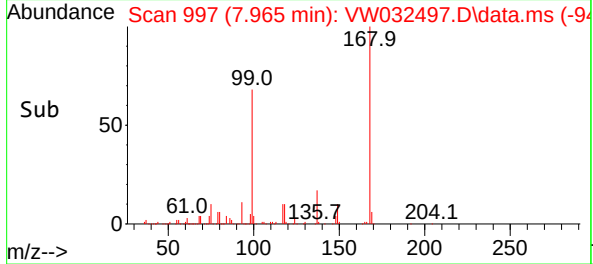
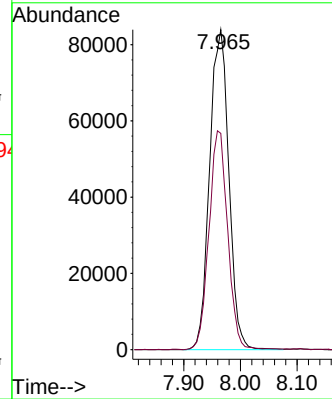
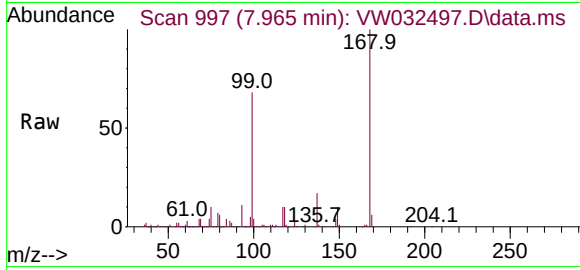




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 99
Delta R.T. 0.000 min
Lab File: VW032497.D
Acq: 19 Nov 2025 13:14

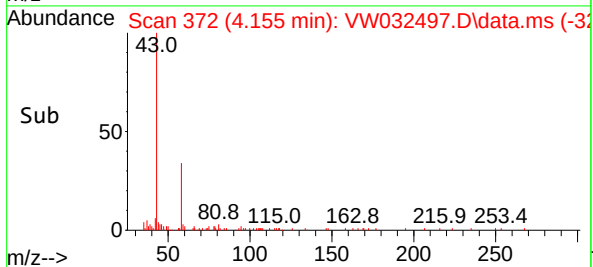
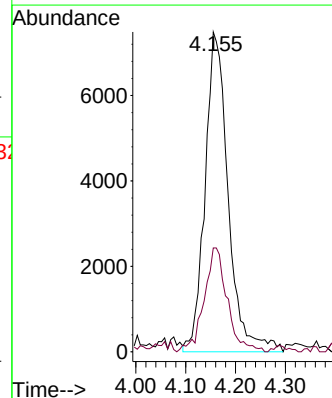
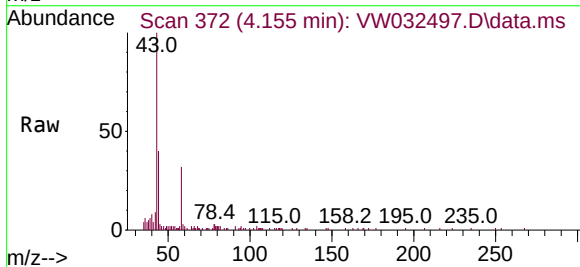
Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

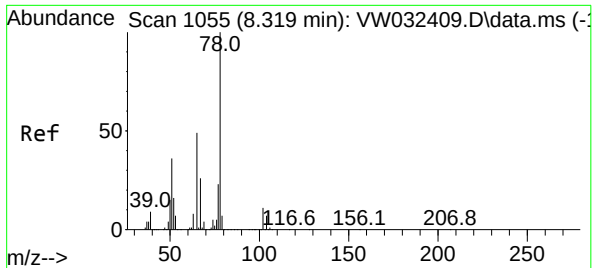
Tgt Ion:168 Resp: 197627
Ion Ratio Lower Upper
168 100
99 67.6 45.4 68.2



#16
Acetone
Concen: 31.715 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032497.D
Acq: 19 Nov 2025 13:14

Tgt Ion: 43 Resp: 24175
Ion Ratio Lower Upper
43 100
58 30.3 24.8 37.2





#33

1,2-Dichloroethane-d4

Concen: 60.137 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VW032497.D

Acq: 19 Nov 2025 13:14

Instrument :

MSVOA_W

ClientSampleId :

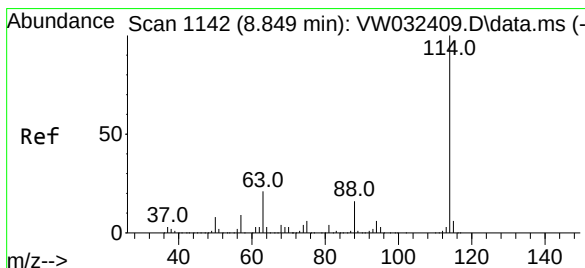
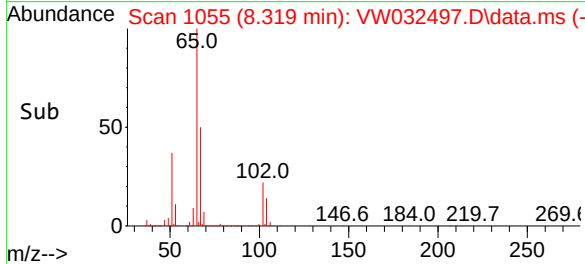
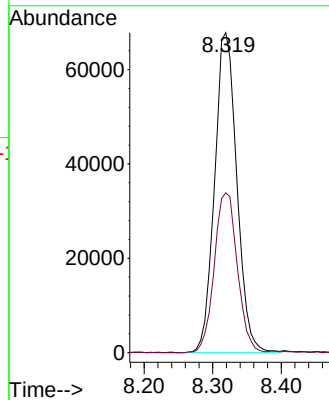
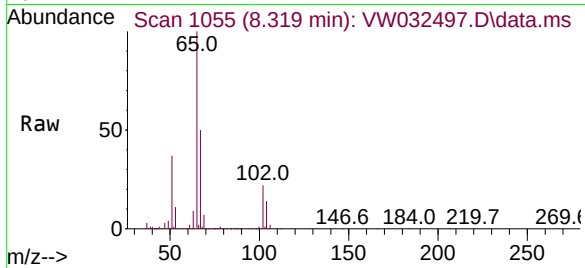
DUPE-0.5-1.0-20251114

Tgt Ion: 65 Resp: 153222

Ion Ratio Lower Upper

65 100

67 51.8 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.856 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VW032497.D

Acq: 19 Nov 2025 13:14

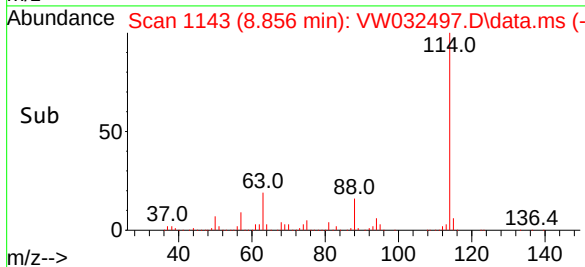
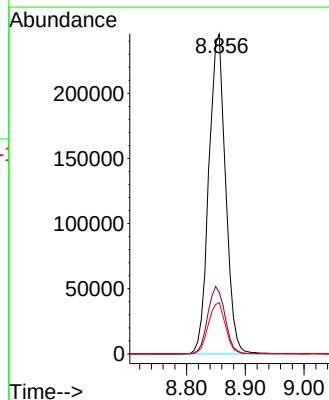
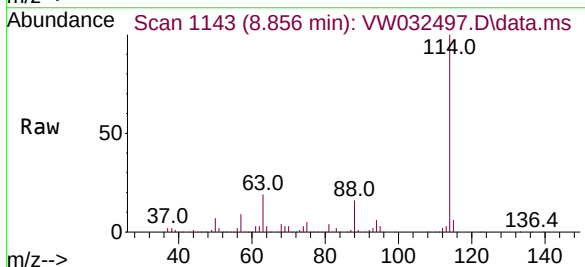
Tgt Ion: 114 Resp: 485828

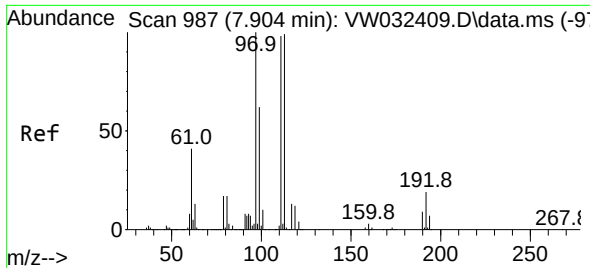
Ion Ratio Lower Upper

114 100

63 19.2 0.0 41.8

88 16.0 0.0 32.6

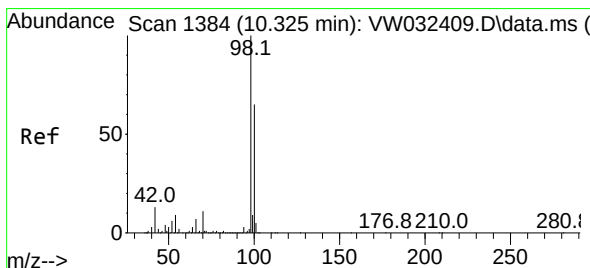
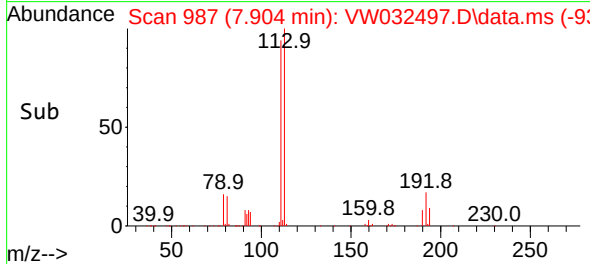
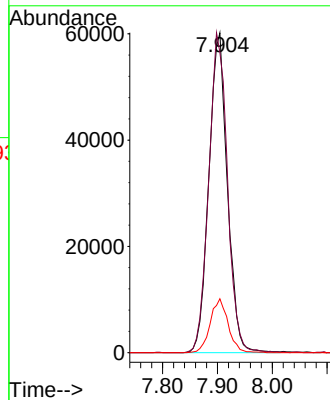
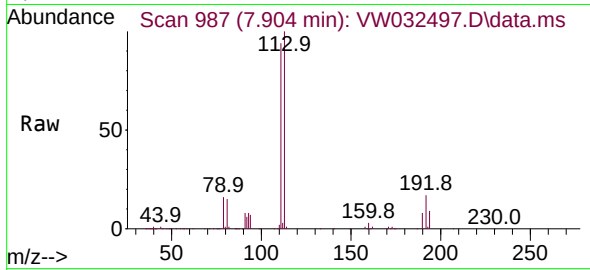




#35
Dibromofluoromethane
Concen: 48.561 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.000 min
Lab File: VW032497.D
Acq: 19 Nov 2025 13:14

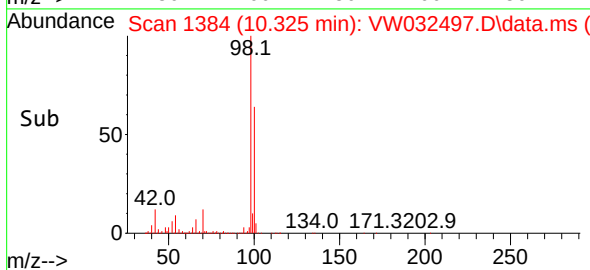
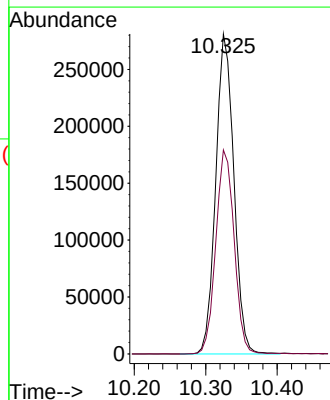
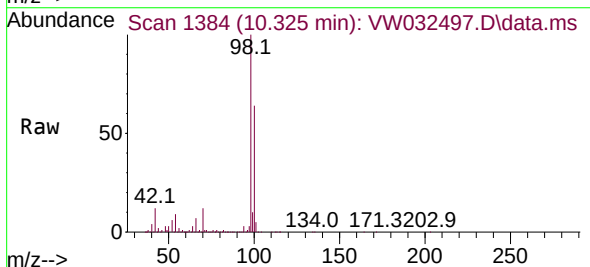
Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

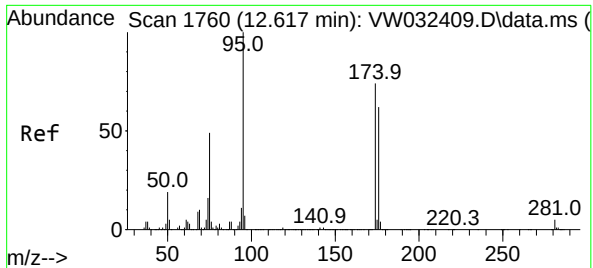
Tgt Ion	113	Resp	141253
Ion	Ratio	Lower	Upper
113	100		
111	101.4	83.1	124.7
192	16.3	13.4	20.2



#50
Toluene-d8
Concen: 44.300 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032497.D
Acq: 19 Nov 2025 13:14

Tgt Ion	98	Resp	494342
Ion	Ratio	Lower	Upper
98	100		
100	64.7	53.3	79.9

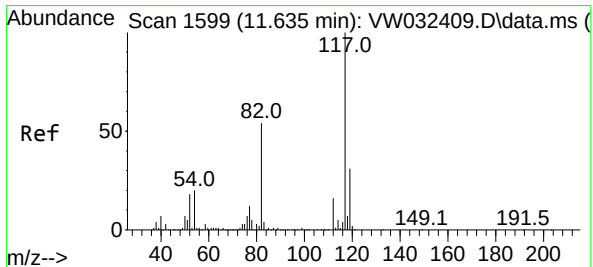
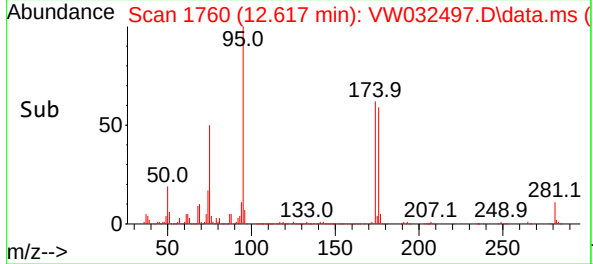
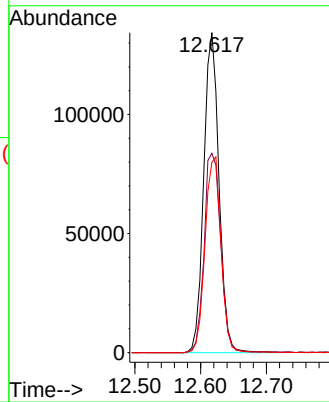
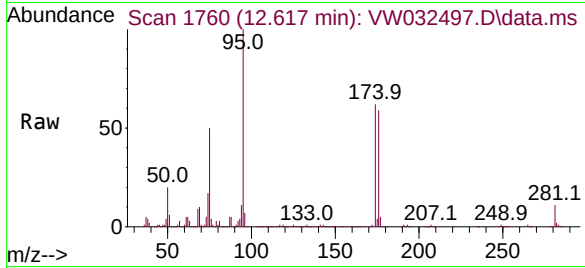




#62
4-Bromofluorobenzene
Concen: 51.364 ug/l
RT: 12.617 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032497.D
Acq: 19 Nov 2025 13:14

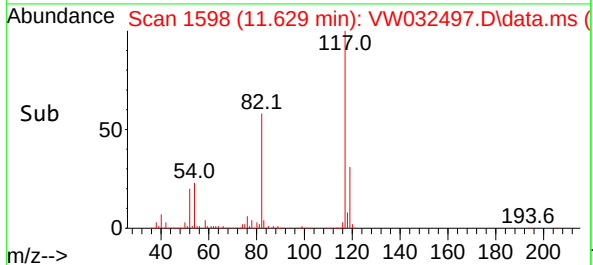
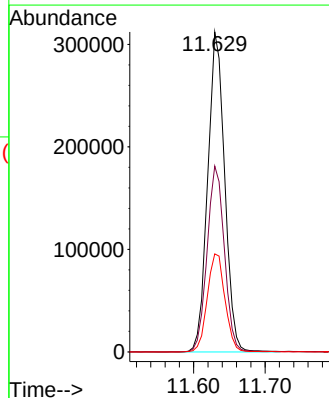
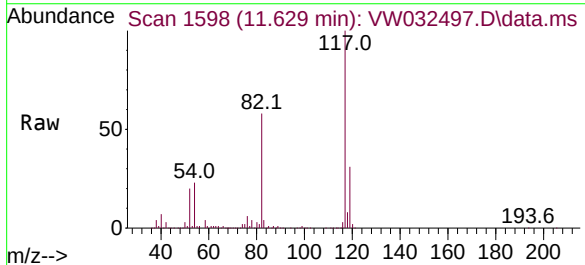
Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

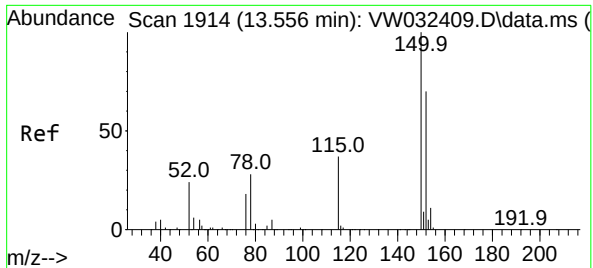
Tgt Ion: 95 Resp: 216521
Ion Ratio Lower Upper
95 100
174 67.9 0.0 135.4
176 64.3 0.0 131.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VW032497.D
Acq: 19 Nov 2025 13:14

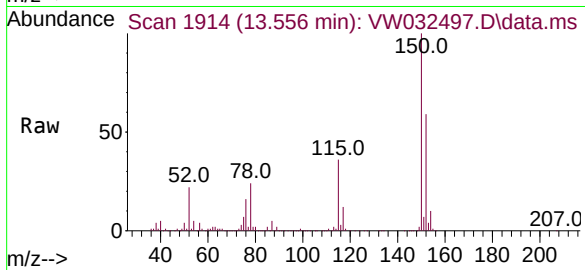
Tgt Ion: 117 Resp: 516048
Ion Ratio Lower Upper
117 100
82 58.1 43.0 64.4
119 30.6 25.0 37.6



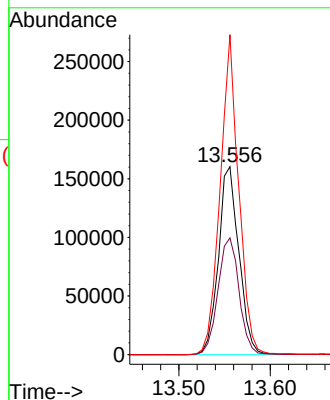
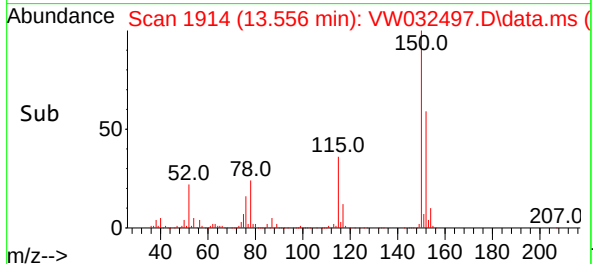


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032497.D
Acq: 19 Nov 2025 13:14

Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114



Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.2	32.8	98.3
150	154.7	0.0	356.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
 Data File : VW032497.D
 Acq On : 19 Nov 2025 13:14
 Operator : SY/MD
 Sample : Q3649-04
 Misc : 6.21g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 DUPE-0.5-1.0-20251114

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_W\Method\82W111025S.M

Title : SW846 8260

Signal : TIC: VW032497.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.161	367	373	385	rVB	18330	61797	3.82%	0.714%
2	4.954	492	503	515	rBV3	19015	71225	4.40%	0.823%
3	5.978	663	671	677	rBV6	6372	17179	1.06%	0.199%
4	7.173	859	867	880	rBV3	11943	39710	2.45%	0.459%
5	7.904	975	987	991	rBV	185178	450802	27.87%	5.212%
6	7.959	991	996	1008	rVB2	272879	646310	39.95%	7.472%
7	8.319	1046	1055	1068	rBV	186913	435366	26.91%	5.033%
8	8.849	1133	1142	1159	rBV	567738	1163686	71.94%	13.454%
9	10.325	1375	1384	1393	rBV	741418	1320266	81.62%	15.264%
10	10.855	1466	1471	1483	rVB9	6843	17358	1.07%	0.201%
11	11.629	1590	1598	1607	rBV	958013	1617659	100.00%	18.702%
12	12.617	1746	1760	1770	rBV3	637654	1163711	71.94%	13.454%
13	13.556	1907	1914	1923	rBV	1013904	1567498	96.90%	18.122%
14	14.062	1992	1997	2006	rVB2	35025	59070	3.65%	0.683%
15	14.318	2033	2039	2045	rBV10	7897	17854	1.10%	0.206%

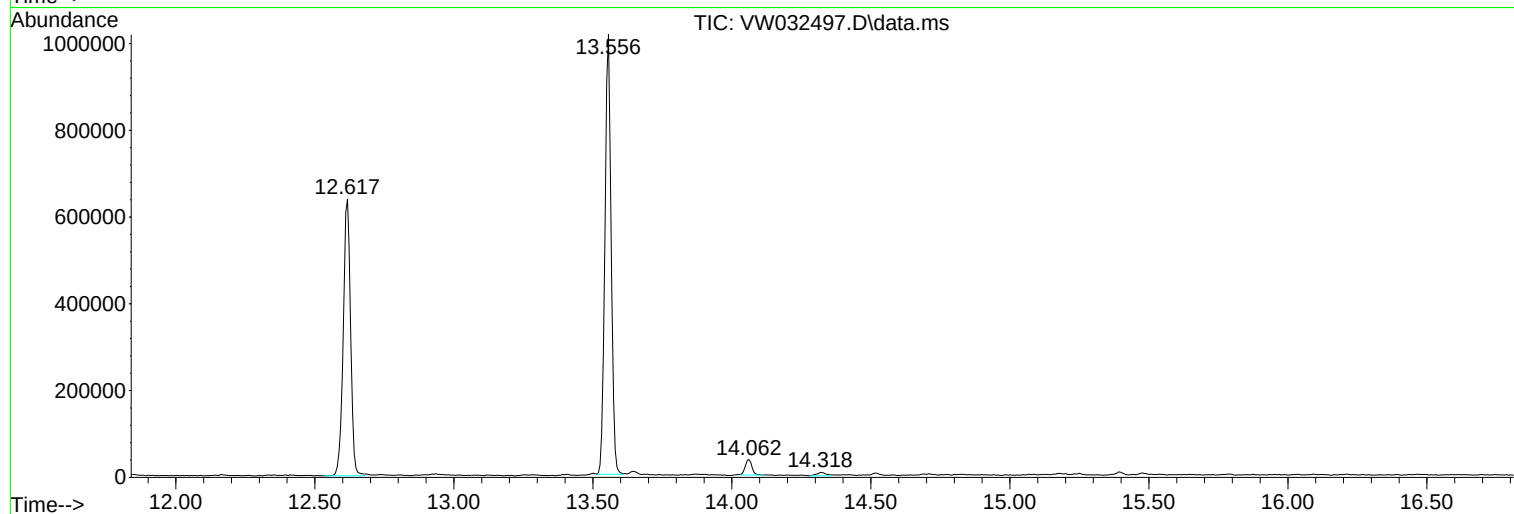
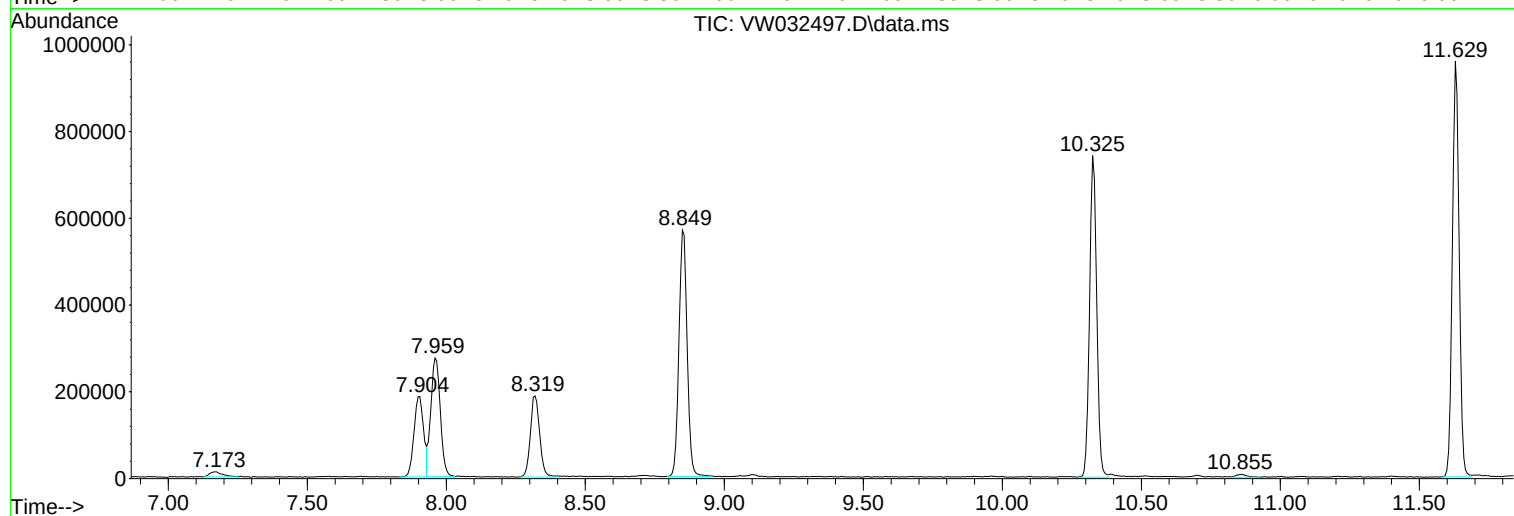
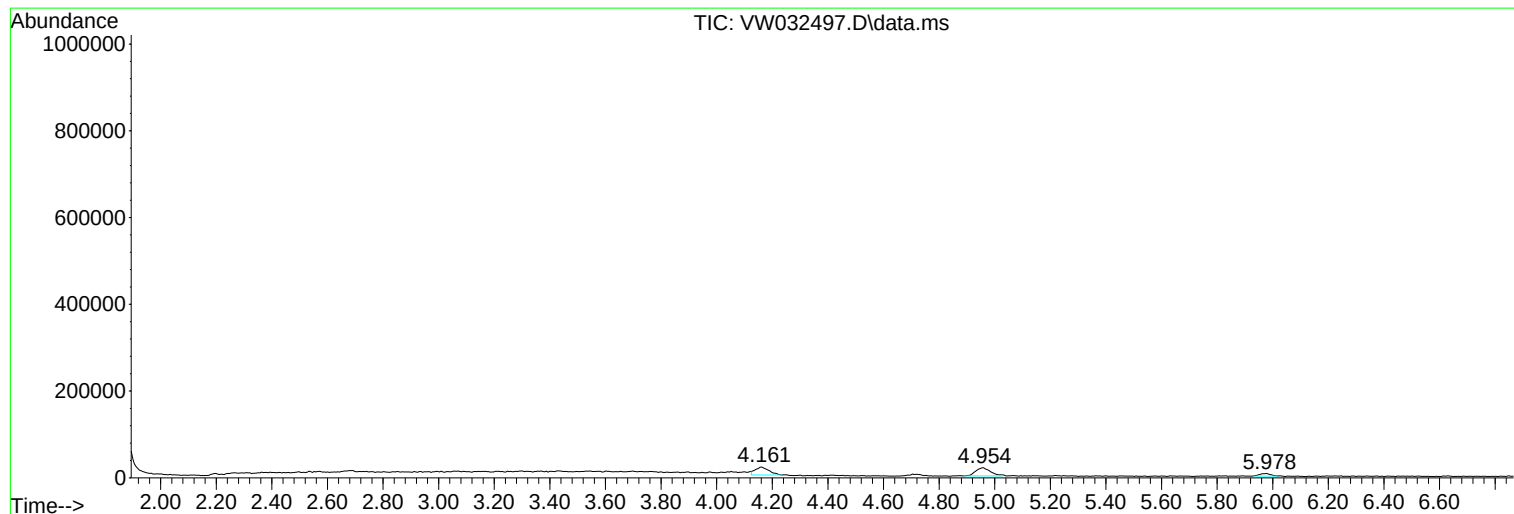
Sum of corrected areas: 8649491

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032497.D
Acq On : 19 Nov 2025 13:14
Operator : SY/MD
Sample : Q3649-04
Misc : 6.21g/5mL/MSVOA_W/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032497.D
Acq On : 19 Nov 2025 13:14
Operator : SY/MD
Sample : Q3649-04
Misc : 6.21g/5mL/MSVOA_W/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.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_W\Data\VW111925\
Data File : VW032497.D
Acq On : 19 Nov 2025 13:14
Operator : SY/MD
Sample : Q3649-04
Misc : 6.21g/5mL/MSVOA_W/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: B4-0.05-1.0-20251114
 Lab Sample ID: Q3649-05
 Analytical Method: 8260D
 Sample Wt/Vol: 5.39 g

Level: LOW
 Final Vol: 5000 uL

Date Collected: 11/14/25
 Date Received: 11/14/25
 SDG No.: Q3649
 Matrix: SOIL
 % Solid: 90
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.20	U	1	1.20	5.20	ug/Kg	11/18/25 15:52	VW111825
74-87-3	Chloromethane	1.20	U	1	1.20	5.20	ug/Kg	11/18/25 15:52	VW111825
75-01-4	Vinyl Chloride	0.81	U	1	0.81	5.20	ug/Kg	11/18/25 15:52	VW111825
74-83-9	Bromomethane	1.10	U	1	1.10	5.20	ug/Kg	11/18/25 15:52	VW111825
75-00-3	Chloroethane	1.30	U	1	1.30	5.20	ug/Kg	11/18/25 15:52	VW111825
75-69-4	Trichlorofluoromethane	1.20	U	1	1.20	5.20	ug/Kg	11/18/25 15:52	VW111825
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1	1.10	5.20	ug/Kg	11/18/25 15:52	VW111825
75-35-4	1,1-Dichloroethene	1.00	U	1	1.00	5.20	ug/Kg	11/18/25 15:52	VW111825
67-64-1	Acetone	4.90	U	1	4.90	25.8	ug/Kg	11/18/25 15:52	VW111825
75-15-0	Carbon Disulfide	1.10	U	1	1.10	5.20	ug/Kg	11/18/25 15:52	VW111825
1634-04-4	Methyl tert-butyl Ether	0.75	U	1	0.75	5.20	ug/Kg	11/18/25 15:52	VW111825
79-20-9	Methyl Acetate	1.60	U	1	1.60	5.20	ug/Kg	11/18/25 15:52	VW111825
75-09-2	Methylene Chloride	3.60	U	1	3.60	10.3	ug/Kg	11/18/25 15:52	VW111825
156-60-5	trans-1,2-Dichloroethene	0.89	U	1	0.89	5.20	ug/Kg	11/18/25 15:52	VW111825
75-34-3	1,1-Dichloroethane	0.82	U	1	0.82	5.20	ug/Kg	11/18/25 15:52	VW111825
110-82-7	Cyclohexane	0.81	U	1	0.81	5.20	ug/Kg	11/18/25 15:52	VW111825
78-93-3	2-Butanone	6.70	U	1	6.70	25.8	ug/Kg	11/18/25 15:52	VW111825
56-23-5	Carbon Tetrachloride	1.00	U	1	1.00	5.20	ug/Kg	11/18/25 15:52	VW111825
156-59-2	cis-1,2-Dichloroethene	0.77	U	1	0.77	5.20	ug/Kg	11/18/25 15:52	VW111825
74-97-5	Bromochloromethane	1.20	U	1	1.20	5.20	ug/Kg	11/18/25 15:52	VW111825
67-66-3	Chloroform	0.87	U	1	0.87	5.20	ug/Kg	11/18/25 15:52	VW111825
71-55-6	1,1,1-Trichloroethane	0.96	U	1	0.96	5.20	ug/Kg	11/18/25 15:52	VW111825
108-87-2	Methylcyclohexane	0.94	U	1	0.94	5.20	ug/Kg	11/18/25 15:52	VW111825
71-43-2	Benzene	0.81	U	1	0.81	5.20	ug/Kg	11/18/25 15:52	VW111825
107-06-2	1,2-Dichloroethane	0.81	U	1	0.81	5.20	ug/Kg	11/18/25 15:52	VW111825
79-01-6	Trichloroethene	0.83	U	1	0.83	5.20	ug/Kg	11/18/25 15:52	VW111825
78-87-5	1,2-Dichloropropane	0.94	U	1	0.94	5.20	ug/Kg	11/18/25 15:52	VW111825
75-27-4	Bromodichloromethane	0.80	U	1	0.80	5.20	ug/Kg	11/18/25 15:52	VW111825
108-10-1	4-Methyl-2-Pentanone	3.70	U	1	3.70	25.8	ug/Kg	11/18/25 15:52	VW111825
108-88-3	Toluene	0.80	U	1	0.80	5.20	ug/Kg	11/18/25 15:52	VW111825
10061-02-6	t-1,3-Dichloropropene	0.67	U	1	0.67	5.20	ug/Kg	11/18/25 15:52	VW111825
10061-01-5	cis-1,3-Dichloropropene	0.64	U	1	0.64	5.20	ug/Kg	11/18/25 15:52	VW111825
79-00-5	1,1,2-Trichloroethane	0.95	U	1	0.95	5.20	ug/Kg	11/18/25 15:52	VW111825
591-78-6	2-Hexanone	3.80	U	1	3.80	25.8	ug/Kg	11/18/25 15:52	VW111825
124-48-1	Dibromochloromethane	0.90	U	1	0.90	5.20	ug/Kg	11/18/25 15:52	VW111825
106-93-4	1,2-Dibromoethane	0.91	U	1	0.91	5.20	ug/Kg	11/18/25 15:52	VW111825
127-18-4	Tetrachloroethene	1.10	U	1	1.10	5.20	ug/Kg	11/18/25 15:52	VW111825
108-90-7	Chlorobenzene	0.94	U	1	0.94	5.20	ug/Kg	11/18/25 15:52	VW111825
100-41-4	Ethyl Benzene	0.69	U	1	0.69	5.20	ug/Kg	11/18/25 15:52	VW111825
179601-23-1	m/p-Xylenes	1.30	U	1	1.30	10.3	ug/Kg	11/18/25 15:52	VW111825
95-47-6	o-Xylene	0.85	U	1	0.85	5.20	ug/Kg	11/18/25 15:52	VW111825
100-42-5	Styrene	0.73	U	1	0.73	5.20	ug/Kg	11/18/25 15:52	VW111825
75-25-2	Bromoform	0.89	U	1	0.89	5.20	ug/Kg	11/18/25 15:52	VW111825



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

Report of Analysis

Client:	HDR, Inc.	Date Collected:	11/14/25
Project:	PVWC Linear Construction	Date Received:	11/14/25
Client Sample ID:	B4-0.05-1.0-20251114	SDG No.:	Q3649
Lab Sample ID:	Q3649-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90
Sample Wt/Vol:	5.39 g	Test:	VOC-TCLVOA-10
	Level: LOW		
	Final Vol: 5000 uL		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.80	U	1	0.80	5.20	ug/Kg	11/18/25 15:52	VW111825
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1	1.20	5.20	ug/Kg	11/18/25 15:52	VW111825
541-73-1	1,3-Dichlorobenzene	1.80	U	1	1.80	5.20	ug/Kg	11/18/25 15:52	VW111825
106-46-7	1,4-Dichlorobenzene	1.60	U	1	1.60	5.20	ug/Kg	11/18/25 15:52	VW111825
95-50-1	1,2-Dichlorobenzene	1.50	U	1	1.50	5.20	ug/Kg	11/18/25 15:52	VW111825
96-12-8	1,2-Dibromo-3-Chloropropane	1.90	U	1	1.90	5.20	ug/Kg	11/18/25 15:52	VW111825
120-82-1	1,2,4-Trichlorobenzene	3.10	U	1	3.10	5.20	ug/Kg	11/18/25 15:52	VW111825
87-61-6	1,2,3-Trichlorobenzene	3.30	U	1	3.30	5.20	ug/Kg	11/18/25 15:52	VW111825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	59.1			70 (63) - 130 (155)	118%	SPK: 50		
1868-53-7	Dibromofluoromethane	49.9			70 (70) - 130 (134)	100%	SPK: 50		
2037-26-5	Toluene-d8	45.8			70 (74) - 130 (123)	92%	SPK: 50		
460-00-4	4-Bromofluorobenzene	56.6			70 (52) - 130 (138)	113%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	233000							
540-36-3	1,4-Difluorobenzene	543000							
3114-55-4	Chlorobenzene-d5	601000							
3855-82-1	1,4-Dichlorobenzene-d4	284000							

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_W\Data\VW111825\
 Data File : VW032483.D
 Acq On : 18 Nov 2025 15:52
 Operator : SY/MD
 Sample : Q3649-05
 Misc : 5.39g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 B4-0.05-1.0-20251114

Quant Time: Nov 19 00:29:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	232615	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	543396	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	601253	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	284001	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.319	65	177301	59.121	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	118.240%
35) Dibromofluoromethane	7.904	113	162454	49.933	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	99.860%
50) Toluene-d8	10.325	98	571784	45.811	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	91.620%
62) 4-Bromofluorobenzene	12.617	95	266833	56.593	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	113.180%

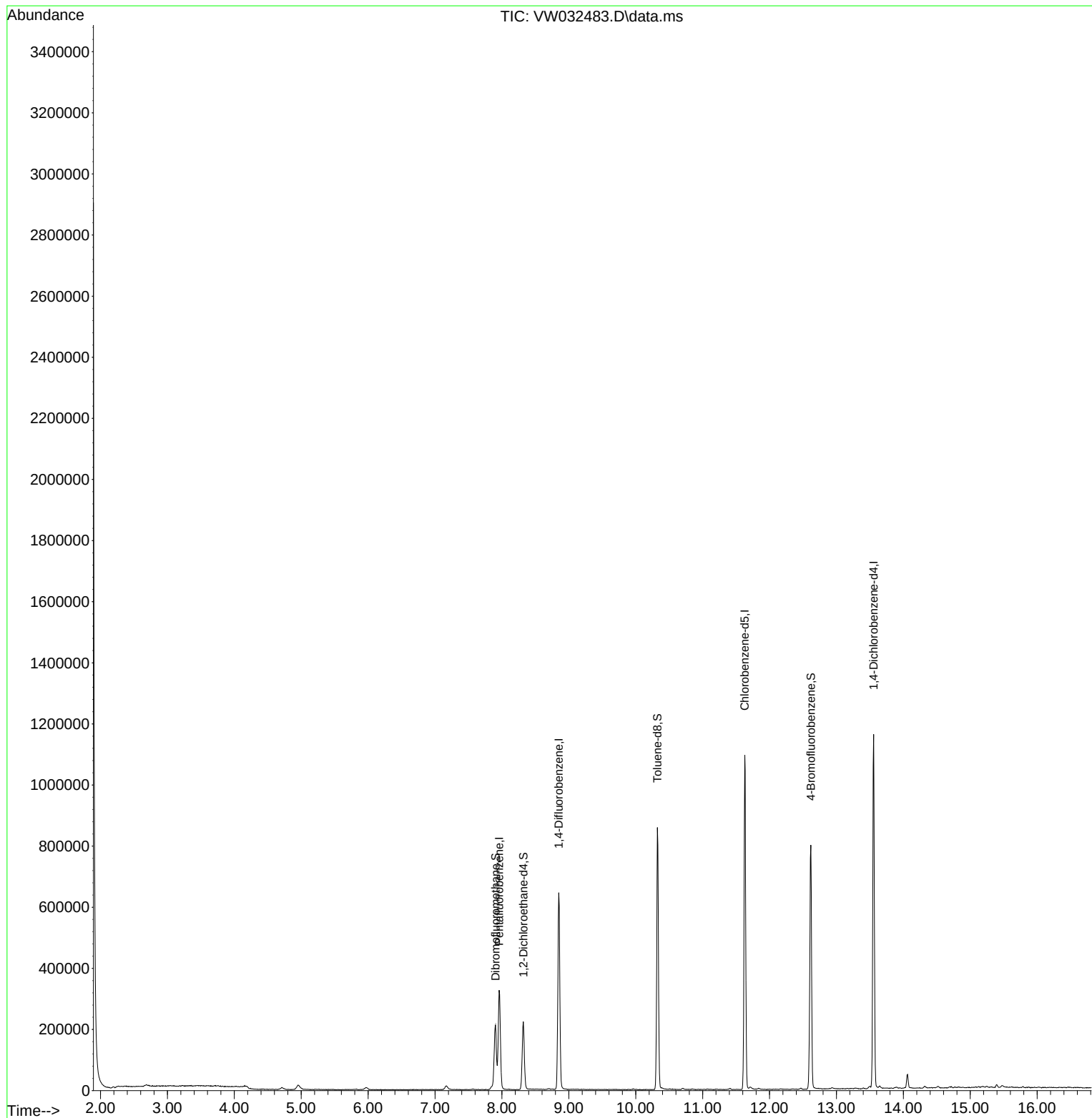
Target Compounds Qvalue

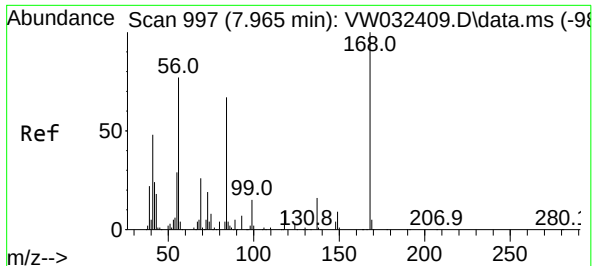
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032483.D
Acq On : 18 Nov 2025 15:52
Operator : SY/MD
Sample : Q3649-05
Misc : 5.39g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B4-0.05-1.0-20251114

Quant Time: Nov 19 00:29:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

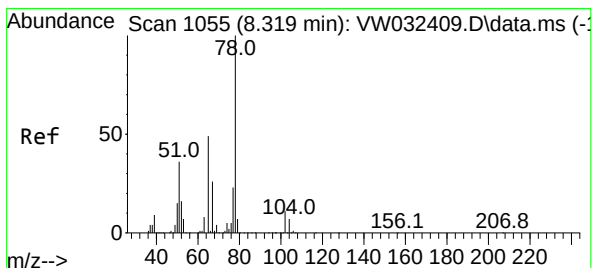
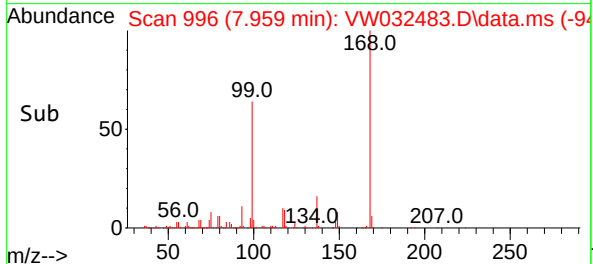
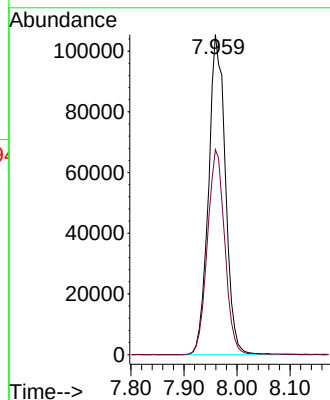
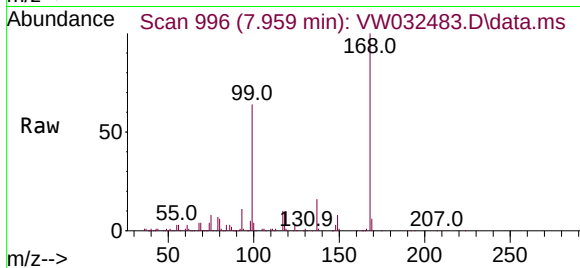




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 99
Delta R.T. -0.006 min
Lab File: VW032483.D
Acq: 18 Nov 2025 15:52

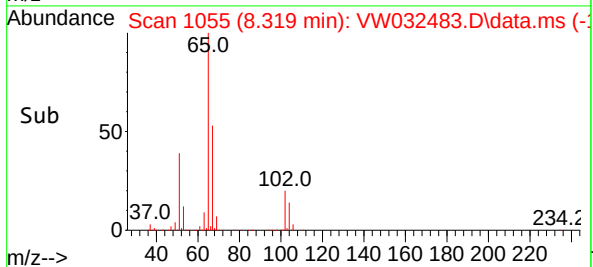
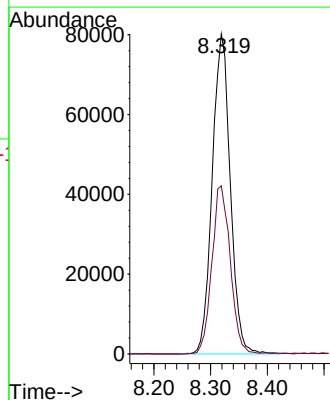
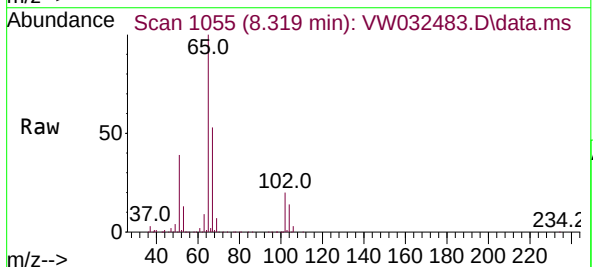
Instrument :
MSVOA_W
ClientSampleId :
B4-0.05-1.0-20251114

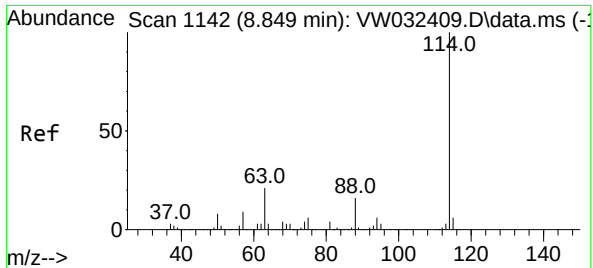
Tgt Ion:168 Resp: 232615
Ion Ratio Lower Upper
168 100
99 64.1 45.4 68.2



#33
1,2-Dichloroethane-d4
Concen: 59.121 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032483.D
Acq: 18 Nov 2025 15:52

Tgt Ion: 65 Resp: 177301
Ion Ratio Lower Upper
65 100
67 53.6 0.0 106.8

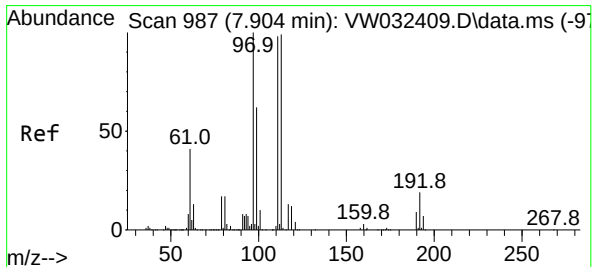
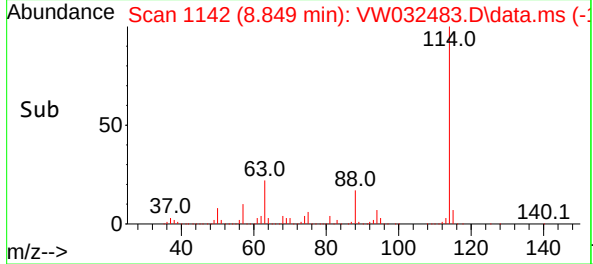
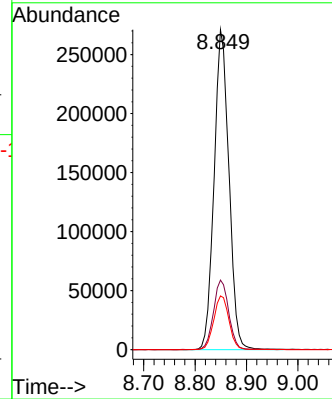
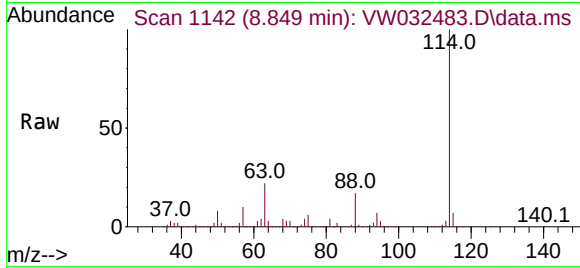




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032483.D
Acq: 18 Nov 2025 15:52

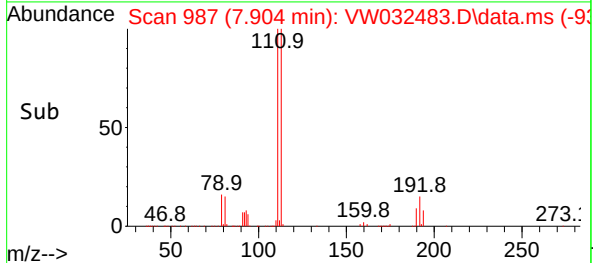
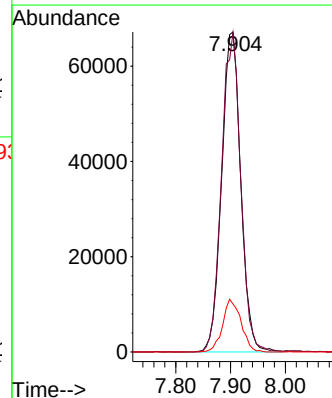
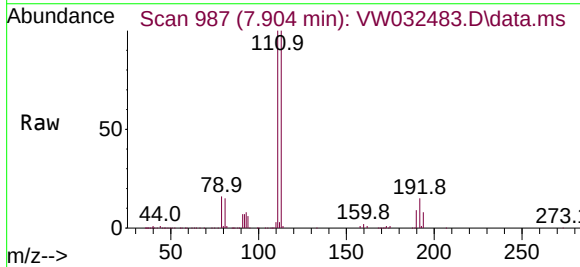
Instrument :
MSVOA_W
ClientSampleId :
B4-0.05-1.0-20251114

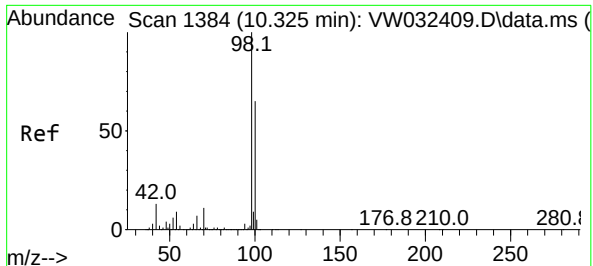
Tgt Ion:	114	Resp:	543396
Ion Ratio	Lower	Upper	
114	100		
63	21.6	0.0	41.8
88	16.8	0.0	32.6



#35
Dibromofluoromethane
Concen: 49.933 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.000 min
Lab File: VW032483.D
Acq: 18 Nov 2025 15:52

Tgt Ion:	113	Resp:	162454
Ion Ratio	Lower	Upper	
113	100		
111	100.4	83.1	124.7
192	15.8	13.4	20.2

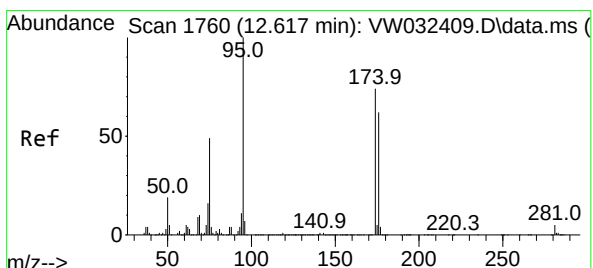
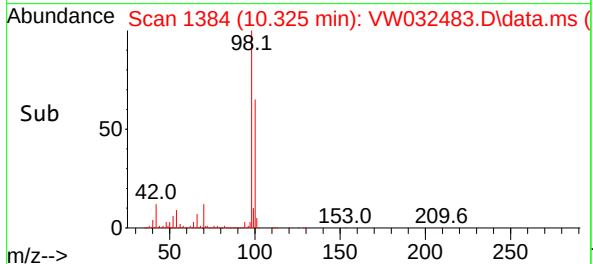
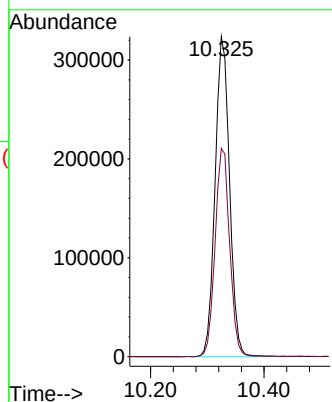
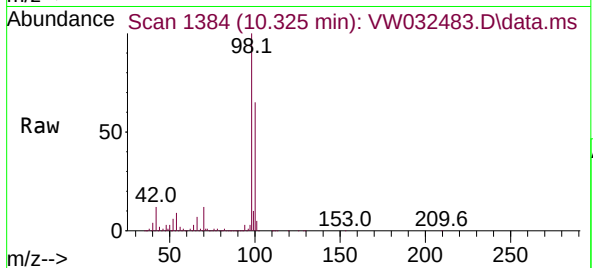




#50
Toluene-d8
Concen: 45.811 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032483.D
Acq: 18 Nov 2025 15:52

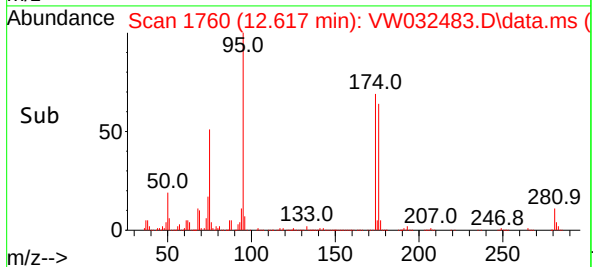
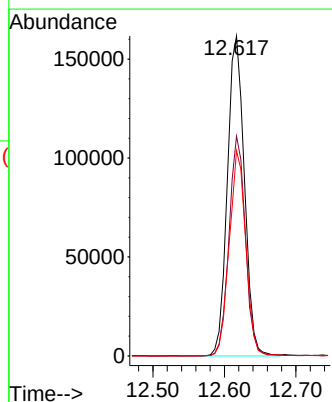
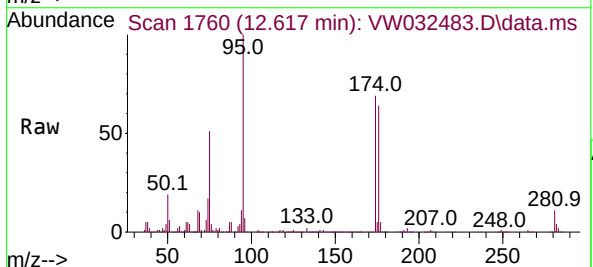
Instrument :
MSVOA_W
ClientSampleId :
B4-0.05-1.0-20251114

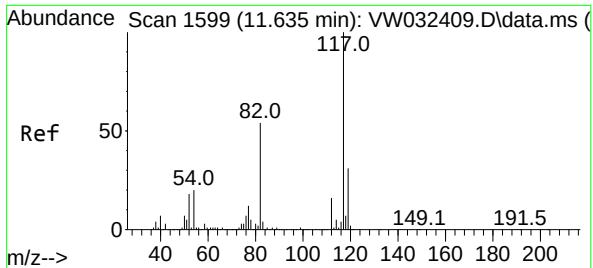
Tgt Ion: 98 Resp: 571784
Ion Ratio Lower Upper
98 100
100 65.6 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 56.593 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032483.D
Acq: 18 Nov 2025 15:52

Tgt Ion: 95 Resp: 266833
Ion Ratio Lower Upper
95 100
174 66.3 0.0 135.4
176 62.4 0.0 131.8

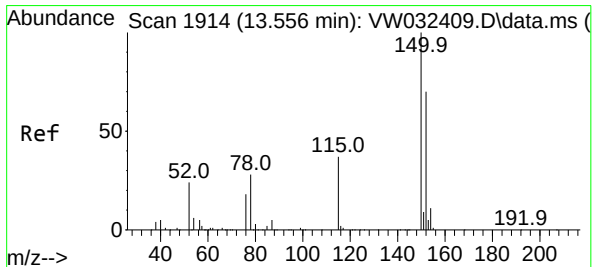
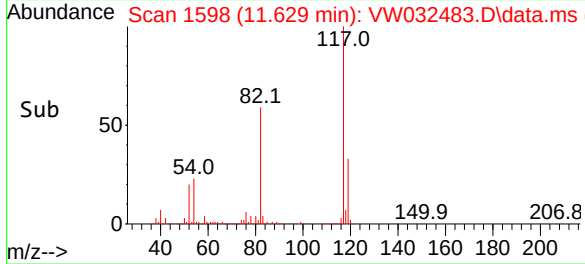
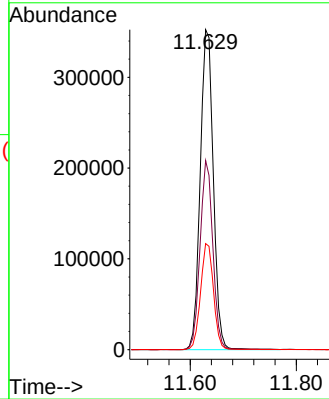
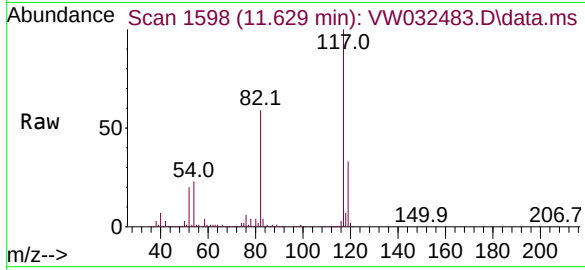




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW032483.D
Acq: 18 Nov 2025 15:52

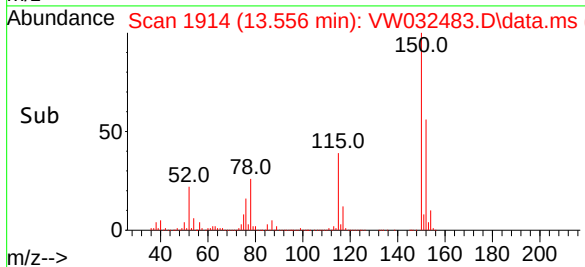
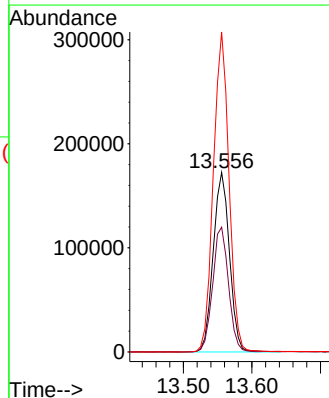
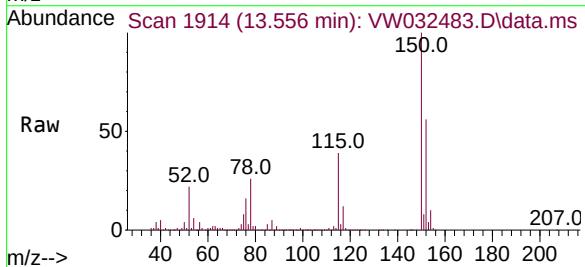
Instrument :
MSVOA_W
ClientSampleId :
B4-0.05-1.0-20251114

Tgt Ion	Ratio	Lower	Upper
117	100		
82	59.1	43.0	64.4
119	33.1	25.0	37.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032483.D
Acq: 18 Nov 2025 15:52

Tgt Ion	Ratio	Lower	Upper
152	100		
115	67.9	32.8	98.3
150	171.5	0.0	356.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032483.D
Acq On : 18 Nov 2025 15:52
Operator : SY/MD
Sample : Q3649-05
Misc : 5.39g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B4-0.05-1.0-20251114

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_W\Method\82W111025S.M

Title : SW846 8260

Signal : TIC: VW032483.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.954	491	503	517	rBV3	14512	55333	2.96%	0.555%
2	7.173	854	867	874	rBV2	12163	39246	2.10%	0.394%
3	7.904	968	987	991	rBV	210836	539814	28.86%	5.419%
4	7.959	991	996	1008	rVB	324125	736360	39.36%	7.392%
5	8.319	1043	1055	1067	rBV	222737	502710	26.87%	5.046%
6	8.849	1133	1142	1156	rBV	643543	1307503	69.89%	13.125%
7	10.325	1376	1384	1393	rBV	857749	1519635	81.23%	15.255%
8	11.629	1590	1598	1608	rBV	1094628	1857881	99.31%	18.650%
9	12.617	1749	1760	1775	rBV2	799001	1460945	78.09%	14.665%
10	13.556	1907	1914	1924	rVB	1155355	1870761	100.00%	18.779%
11	14.062	1991	1997	2003	rBV	43367	71648	3.83%	0.719%

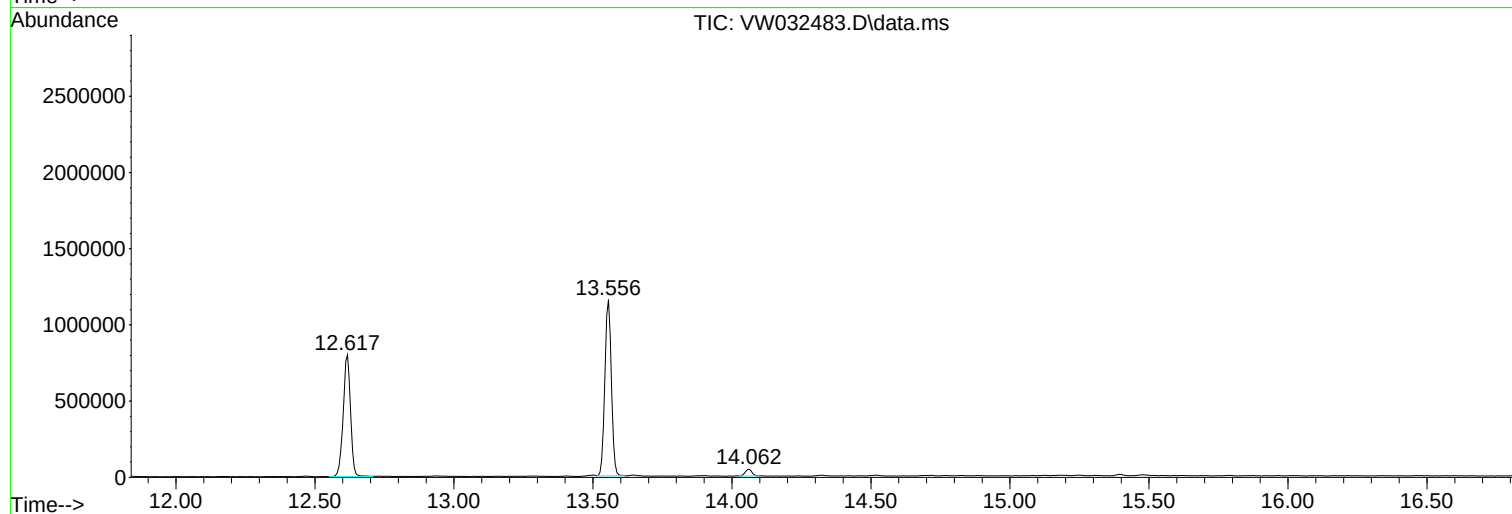
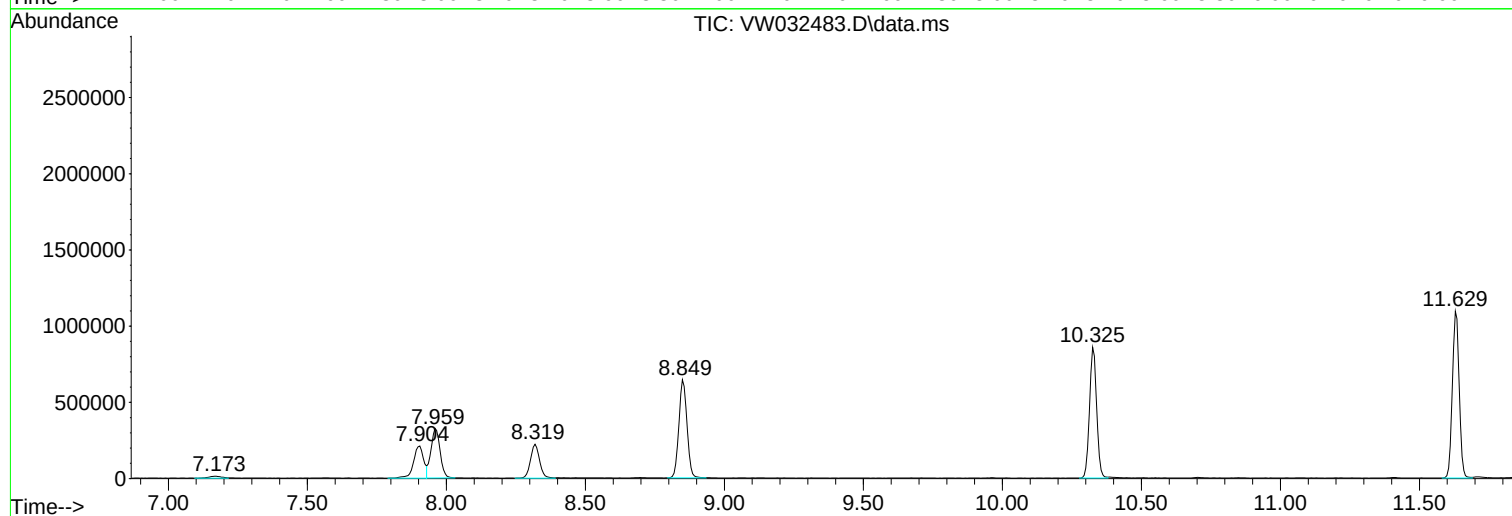
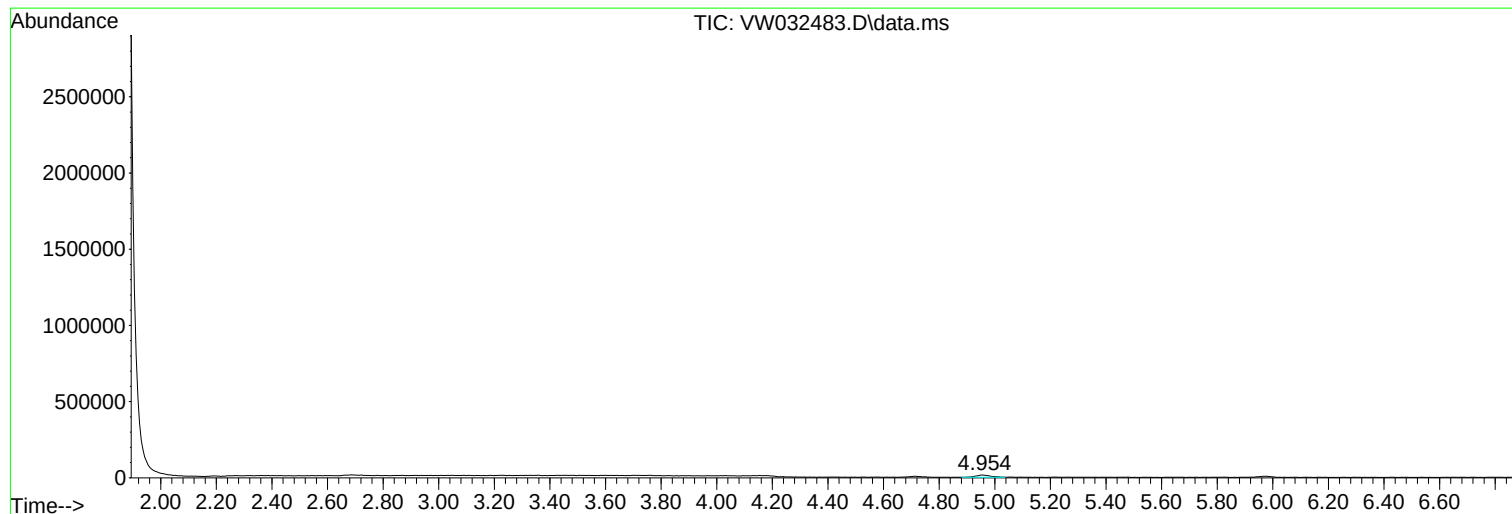
Sum of corrected areas: 9961836

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032483.D
Acq On : 18 Nov 2025 15:52
Operator : SY/MD
Sample : Q3649-05
Misc : 5.39g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B4-0.05-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032483.D
Acq On : 18 Nov 2025 15:52
Operator : SY/MD
Sample : Q3649-05
Misc : 5.39g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B4-0.05-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.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_W\Data\VW111825\
Data File : VW032483.D
Acq On : 18 Nov 2025 15:52
Operator : SY/MD
Sample : Q3649-05
Misc : 5.39g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B4-0.05-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: B3-0.5-1.0-20251114
 Lab Sample ID: Q3649-09
 Analytical Method: 8260D
 Sample Wt/Vol: 4.79 g

Level: LOW
 Final Vol: 5000 uL

Date Collected: 11/14/25
 Date Received: 11/14/25
 SDG No.: Q3649
 Matrix: SOIL
 % Solid: 89.2
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.30	U	1	1.30	5.90	ug/Kg	11/18/25 16:14	VW111825
74-87-3	Chloromethane	1.30	U	1	1.30	5.90	ug/Kg	11/18/25 16:14	VW111825
75-01-4	Vinyl Chloride	0.92	U	1	0.92	5.90	ug/Kg	11/18/25 16:14	VW111825
74-83-9	Bromomethane	1.30	U	1	1.30	5.90	ug/Kg	11/18/25 16:14	VW111825
75-00-3	Chloroethane	1.50	U	1	1.50	5.90	ug/Kg	11/18/25 16:14	VW111825
75-69-4	Trichlorofluoromethane	1.40	U	1	1.40	5.90	ug/Kg	11/18/25 16:14	VW111825
76-13-1	1,1,2-Trichlorotrifluoroethane	1.20	U	1	1.20	5.90	ug/Kg	11/18/25 16:14	VW111825
75-35-4	1,1-Dichloroethene	1.20	U	1	1.20	5.90	ug/Kg	11/18/25 16:14	VW111825
67-64-1	Acetone	5.50	U	1	5.50	29.3	ug/Kg	11/18/25 16:14	VW111825
75-15-0	Carbon Disulfide	1.20	U	1	1.20	5.90	ug/Kg	11/18/25 16:14	VW111825
1634-04-4	Methyl tert-butyl Ether	0.85	U	1	0.85	5.90	ug/Kg	11/18/25 16:14	VW111825
79-20-9	Methyl Acetate	1.80	U	1	1.80	5.90	ug/Kg	11/18/25 16:14	VW111825
75-09-2	Methylene Chloride	4.10	U	1	4.10	11.7	ug/Kg	11/18/25 16:14	VW111825
156-60-5	trans-1,2-Dichloroethene	1.00	U	1	1.00	5.90	ug/Kg	11/18/25 16:14	VW111825
75-34-3	1,1-Dichloroethane	0.94	U	1	0.94	5.90	ug/Kg	11/18/25 16:14	VW111825
110-82-7	Cyclohexane	0.92	U	1	0.92	5.90	ug/Kg	11/18/25 16:14	VW111825
78-93-3	2-Butanone	7.70	U	1	7.70	29.3	ug/Kg	11/18/25 16:14	VW111825
56-23-5	Carbon Tetrachloride	1.10	U	1	1.10	5.90	ug/Kg	11/18/25 16:14	VW111825
156-59-2	cis-1,2-Dichloroethene	0.88	U	1	0.88	5.90	ug/Kg	11/18/25 16:14	VW111825
74-97-5	Bromochloromethane	1.30	U	1	1.30	5.90	ug/Kg	11/18/25 16:14	VW111825
67-66-3	Chloroform	0.98	U	1	0.98	5.90	ug/Kg	11/18/25 16:14	VW111825
71-55-6	1,1,1-Trichloroethane	1.10	U	1	1.10	5.90	ug/Kg	11/18/25 16:14	VW111825
108-87-2	Methylcyclohexane	1.10	U	1	1.10	5.90	ug/Kg	11/18/25 16:14	VW111825
71-43-2	Benzene	0.92	U	1	0.92	5.90	ug/Kg	11/18/25 16:14	VW111825
107-06-2	1,2-Dichloroethane	0.92	U	1	0.92	5.90	ug/Kg	11/18/25 16:14	VW111825
79-01-6	Trichloroethene	0.95	U	1	0.95	5.90	ug/Kg	11/18/25 16:14	VW111825
78-87-5	1,2-Dichloropropane	1.10	U	1	1.10	5.90	ug/Kg	11/18/25 16:14	VW111825
75-27-4	Bromodichloromethane	0.91	U	1	0.91	5.90	ug/Kg	11/18/25 16:14	VW111825
108-10-1	4-Methyl-2-Pentanone	4.20	U	1	4.20	29.3	ug/Kg	11/18/25 16:14	VW111825
108-88-3	Toluene	0.91	U	1	0.91	5.90	ug/Kg	11/18/25 16:14	VW111825
10061-02-6	t-1,3-Dichloropropene	0.76	U	1	0.76	5.90	ug/Kg	11/18/25 16:14	VW111825
10061-01-5	cis-1,3-Dichloropropene	0.73	U	1	0.73	5.90	ug/Kg	11/18/25 16:14	VW111825
79-00-5	1,1,2-Trichloroethane	1.10	U	1	1.10	5.90	ug/Kg	11/18/25 16:14	VW111825
591-78-6	2-Hexanone	4.30	U	1	4.30	29.3	ug/Kg	11/18/25 16:14	VW111825
124-48-1	Dibromochloromethane	1.00	U	1	1.00	5.90	ug/Kg	11/18/25 16:14	VW111825
106-93-4	1,2-Dibromoethane	1.00	U	1	1.00	5.90	ug/Kg	11/18/25 16:14	VW111825
127-18-4	Tetrachloroethene	1.20	U	1	1.20	5.90	ug/Kg	11/18/25 16:14	VW111825
108-90-7	Chlorobenzene	1.10	U	1	1.10	5.90	ug/Kg	11/18/25 16:14	VW111825
100-41-4	Ethyl Benzene	0.78	U	1	0.78	5.90	ug/Kg	11/18/25 16:14	VW111825
179601-23-1	m/p-Xylenes	1.50	U	1	1.50	11.7	ug/Kg	11/18/25 16:14	VW111825
95-47-6	o-Xylene	0.96	U	1	0.96	5.90	ug/Kg	11/18/25 16:14	VW111825
100-42-5	Styrene	0.83	U	1	0.83	5.90	ug/Kg	11/18/25 16:14	VW111825
75-25-2	Bromoform	1.00	U	1	1.00	5.90	ug/Kg	11/18/25 16:14	VW111825

Report of Analysis

Client: HDR, Inc.		Date Collected: 11/14/25
Project: PVWC Linear Construction		Date Received: 11/14/25
Client Sample ID: B3-0.5-1.0-20251114		SDG No.: Q3649
Lab Sample ID: Q3649-09		Matrix: SOIL
Analytical Method: 8260D	Level: LOW	% Solid: 89.2
Sample Wt/Vol: 4.79 g	Final Vol: 5000 uL	Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.91	U	1	0.91	5.90	ug/Kg	11/18/25 16:14	VW111825
79-34-5	1,1,2,2-Tetrachloroethane	1.40	U	1	1.40	5.90	ug/Kg	11/18/25 16:14	VW111825
541-73-1	1,3-Dichlorobenzene	2.00	U	1	2.00	5.90	ug/Kg	11/18/25 16:14	VW111825
106-46-7	1,4-Dichlorobenzene	1.80	U	1	1.80	5.90	ug/Kg	11/18/25 16:14	VW111825
95-50-1	1,2-Dichlorobenzene	1.70	U	1	1.70	5.90	ug/Kg	11/18/25 16:14	VW111825
96-12-8	1,2-Dibromo-3-Chloropropane	2.20	U	1	2.20	5.90	ug/Kg	11/18/25 16:14	VW111825
120-82-1	1,2,4-Trichlorobenzene	3.50	U	1	3.50	5.90	ug/Kg	11/18/25 16:14	VW111825
87-61-6	1,2,3-Trichlorobenzene	3.70	U	1	3.70	5.90	ug/Kg	11/18/25 16:14	VW111825

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	58.7			70 (63) - 130 (155)	117%	SPK: 50
1868-53-7	Dibromofluoromethane	48.0			70 (70) - 130 (134)	96%	SPK: 50
2037-26-5	Toluene-d8	43.6			70 (74) - 130 (123)	87%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.0			70 (52) - 130 (138)	110%	SPK: 50

INTERNAL STANDARDS

INTERNAL STANDARDS		Area Count
363-72-4	Pentafluorobenzene	213000
540-36-3	1,4-Difluorobenzene	491000
3114-55-4	Chlorobenzene-d5	511000
3855-82-1	1,4-Dichlorobenzene-d4	272000

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_W\Data\VW111825\
 Data File : VW032484.D
 Acq On : 18 Nov 2025 16:14
 Operator : SY/MD
 Sample : Q3649-09
 Misc : 4.79g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 B3-0.5-1.0-20251114

Quant Time: Nov 19 00:29:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	212864	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	490545	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	510548	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	271829	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	161220	58.747	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	117.500%
35) Dibromofluoromethane	7.898	113	140948	47.990	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	95.980%
50) Toluene-d8	10.325	98	491285	43.603	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	87.200%
62) 4-Bromofluorobenzene	12.617	95	234272	55.040	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	110.080%

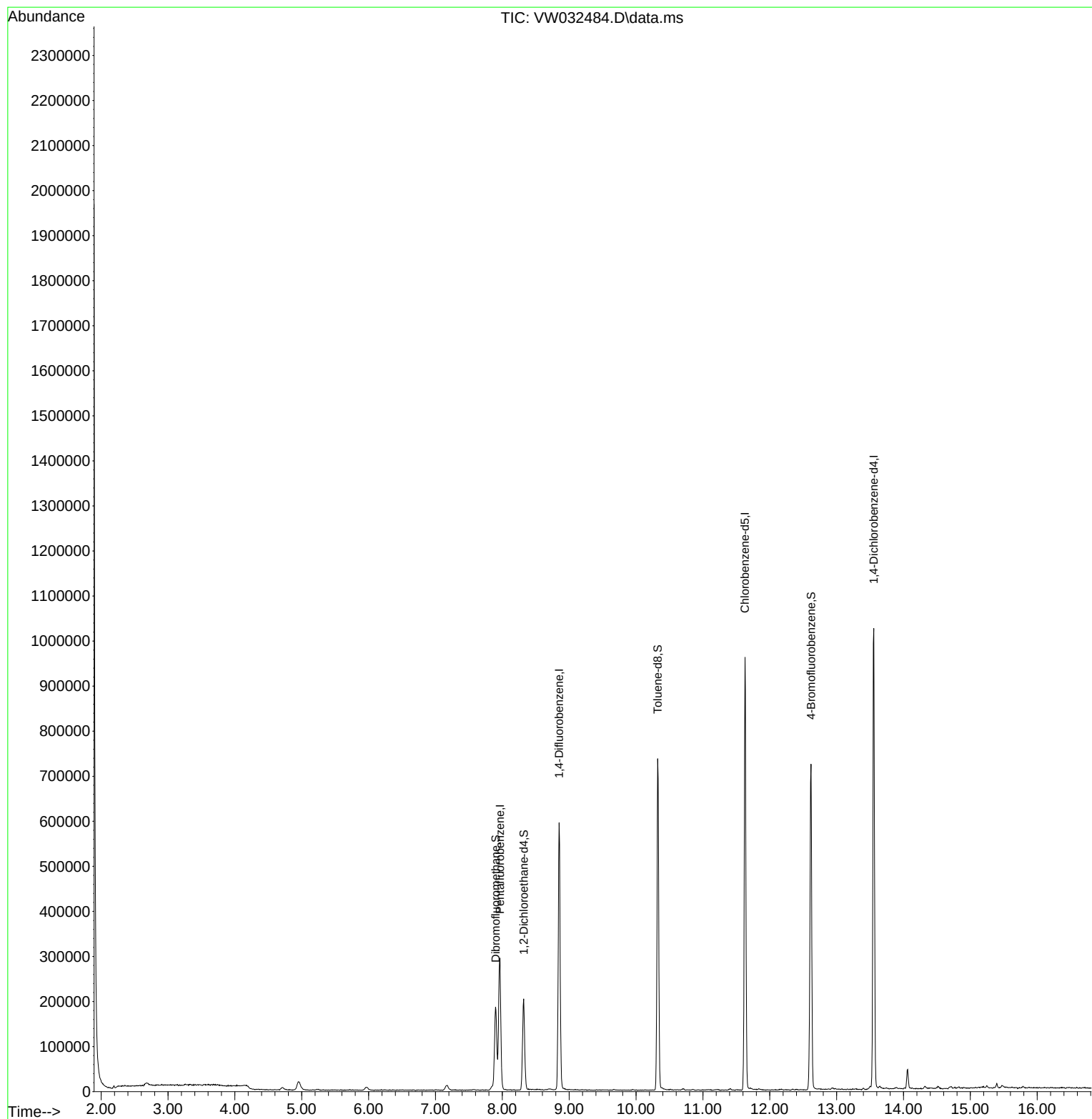
Target Compounds	Qvalue

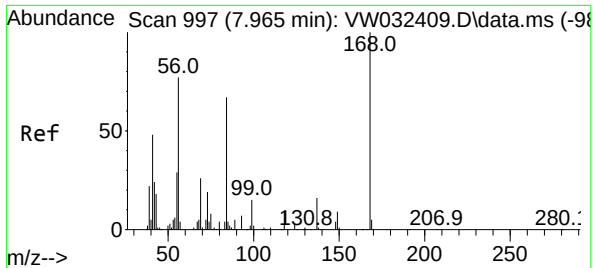
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032484.D
Acq On : 18 Nov 2025 16:14
Operator : SY/MD
Sample : Q3649-09
Misc : 4.79g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251114

Quant Time: Nov 19 00:29:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

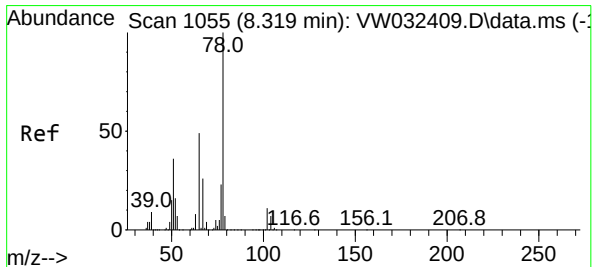
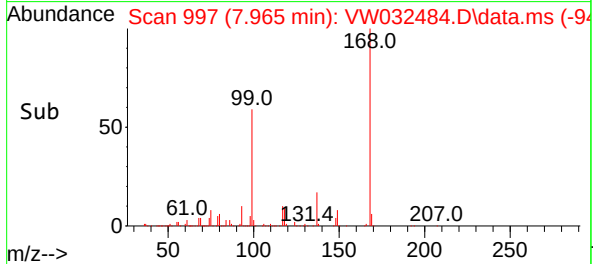
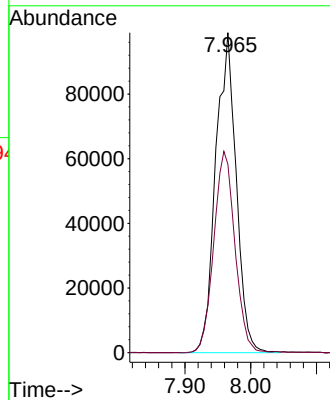
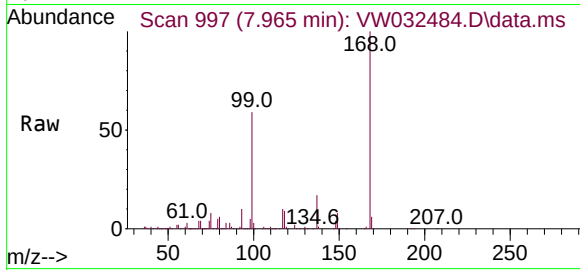




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW032484.D
Acq: 18 Nov 2025 16:14

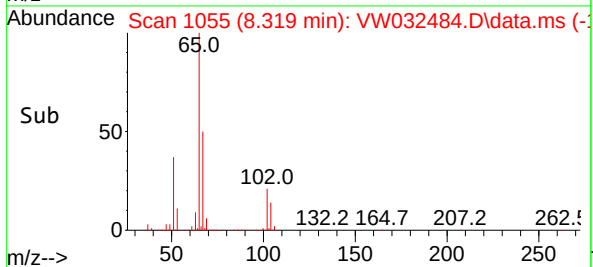
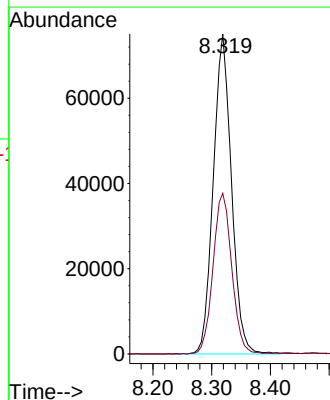
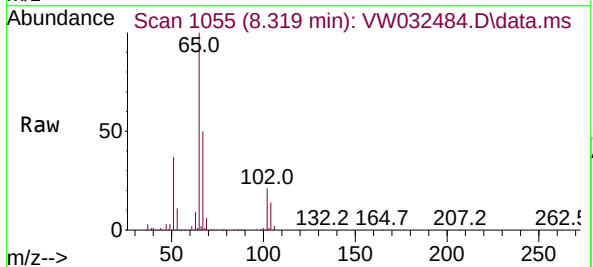
Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251114

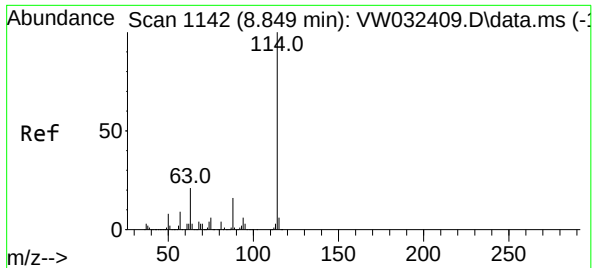
Tgt Ion:168 Resp: 212864
Ion Ratio Lower Upper
168 100
99 58.9 45.4 68.2



#33
1,2-Dichloroethane-d4
Concen: 58.747 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032484.D
Acq: 18 Nov 2025 16:14

Tgt Ion: 65 Resp: 161220
Ion Ratio Lower Upper
65 100
67 52.0 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VW032484.D

Acq: 18 Nov 2025 16:14

Instrument :

MSVOA_W

ClientSampleId :

B3-0.5-1.0-20251114

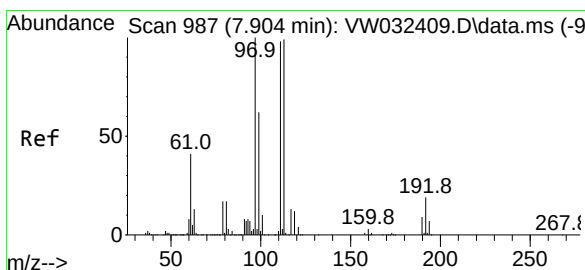
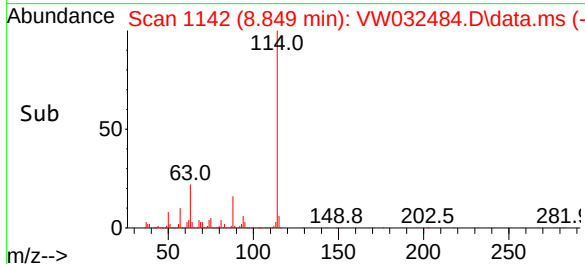
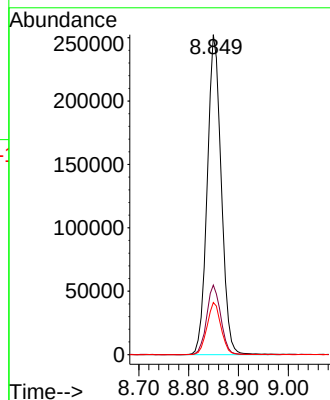
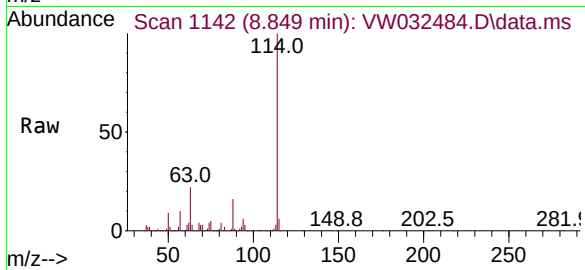
Tgt Ion:114 Resp: 490545

Ion Ratio Lower Upper

114 100

63 21.7 0.0 41.8

88 16.3 0.0 32.6



#35

Dibromofluoromethane

Concen: 47.990 ug/l

RT: 7.898 min Scan# 986

Delta R.T. -0.006 min

Lab File: VW032484.D

Acq: 18 Nov 2025 16:14

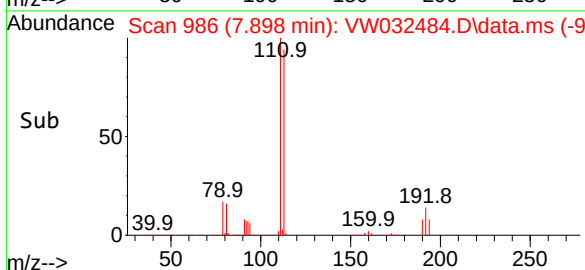
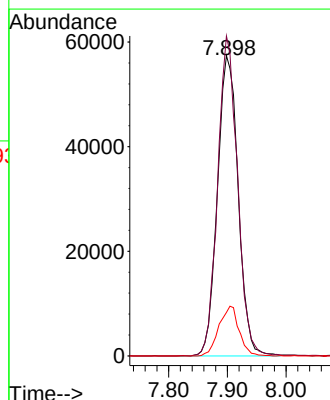
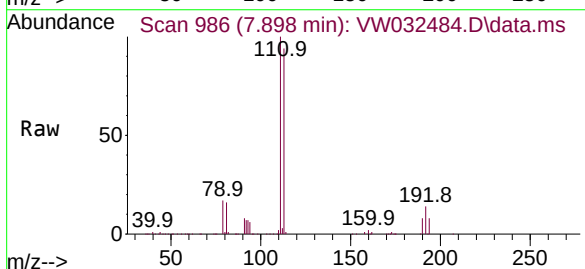
Tgt Ion:113 Resp: 140948

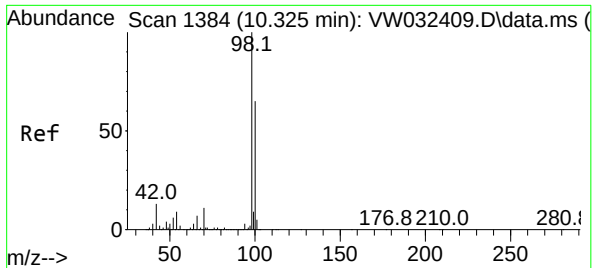
Ion Ratio Lower Upper

113 100

111 102.2 83.1 124.7

192 16.1 13.4 20.2

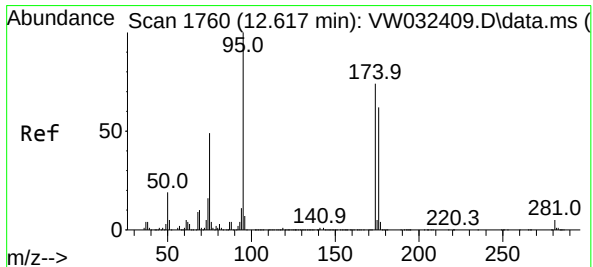
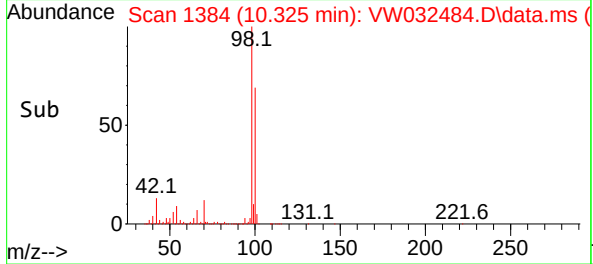
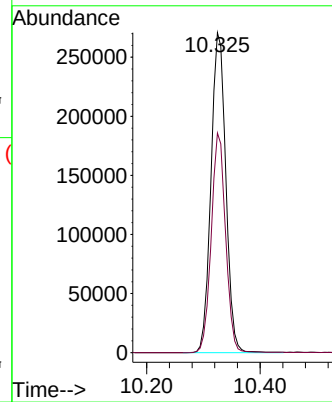
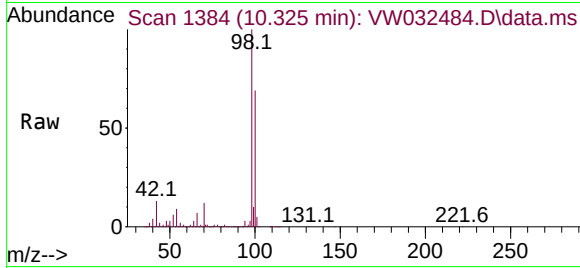




#50
Toluene-d8
Concen: 43.603 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032484.D
Acq: 18 Nov 2025 16:14

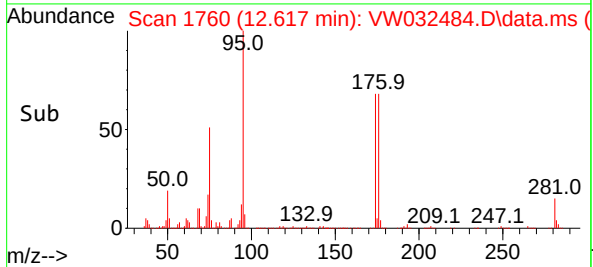
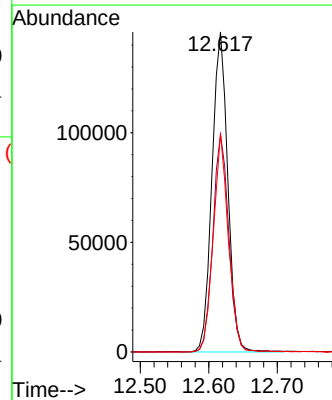
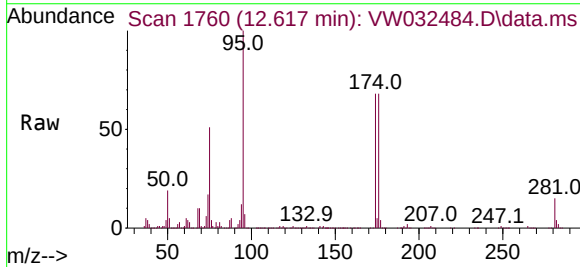
Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251114

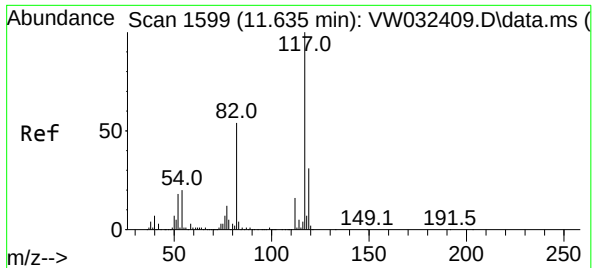
Tgt Ion: 98 Resp: 491285
Ion Ratio Lower Upper
98 100
100 66.4 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 55.040 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032484.D
Acq: 18 Nov 2025 16:14

Tgt Ion: 95 Resp: 234272
Ion Ratio Lower Upper
95 100
174 68.0 0.0 135.4
176 65.3 0.0 131.8

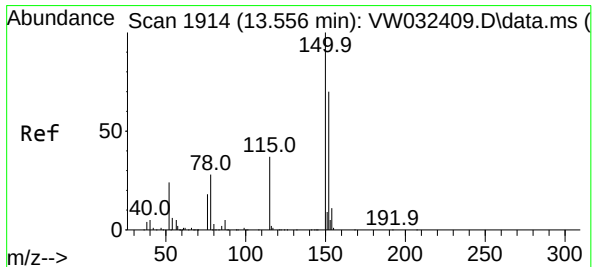
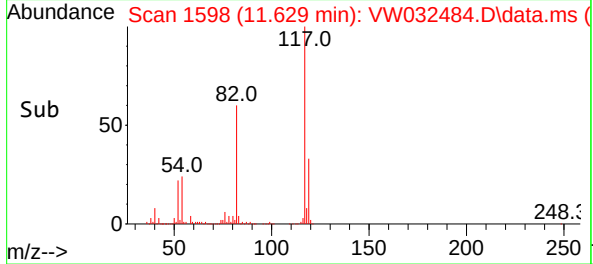
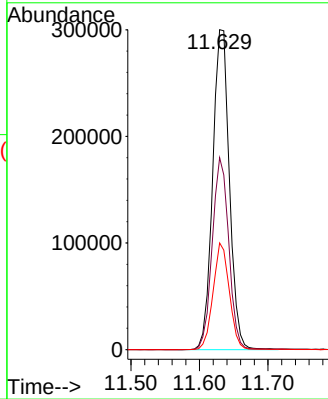
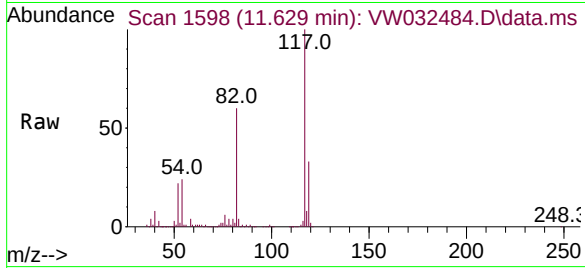




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1159
Delta R.T. -0.006 min
Lab File: VW032484.D
Acq: 18 Nov 2025 16:14

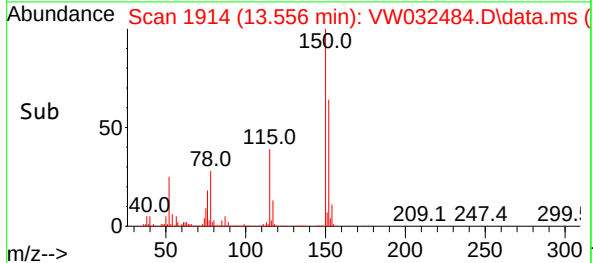
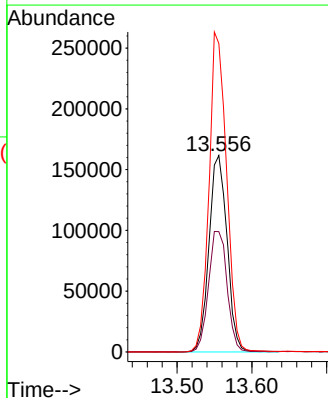
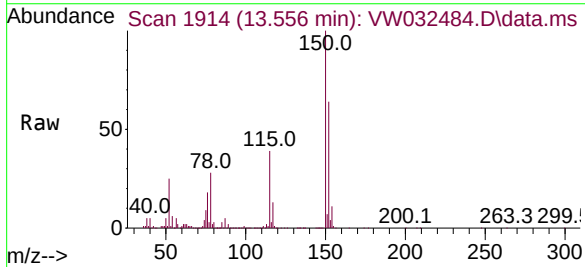
Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251114

Tgt Ion	Ratio	Lower	Upper
117	100		
82	60.0	43.0	64.4
119	33.3	25.0	37.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032484.D
Acq: 18 Nov 2025 16:14

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.2	32.8	98.3
150	158.0	0.0	356.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032484.D
Acq On : 18 Nov 2025 16:14
Operator : SY/MD
Sample : Q3649-09
Misc : 4.79g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251114

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_W\Method\82W111025S.M

Title : SW846 8260

Signal : TIC: VW032484.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.954	493	503	515	rBV4	17587	64055	3.79%	0.721%
2	5.960	659	668	676	rBV6	6641	23269	1.38%	0.262%
3	7.173	857	867	877	rBV	11143	38946	2.30%	0.438%
4	7.898	970	986	991	rBV2	184422	468704	27.72%	5.276%
5	7.965	991	997	1008	rVB2	291982	669504	39.59%	7.536%
6	8.319	1046	1055	1066	rBV	202399	446388	26.40%	5.025%
7	8.849	1132	1142	1152	rBV	592591	1163089	68.78%	13.092%
8	10.325	1376	1384	1393	rBV	735668	1316316	77.84%	14.817%
9	11.629	1589	1598	1608	rBV	961285	1610457	95.23%	18.128%
10	12.617	1747	1760	1770	rBV2	723493	1322741	78.22%	14.889%
11	13.556	1907	1914	1925	rVB	1019720	1691073	100.00%	19.035%
12	14.062	1991	1997	2002	rBV2	41948	69410	4.10%	0.781%

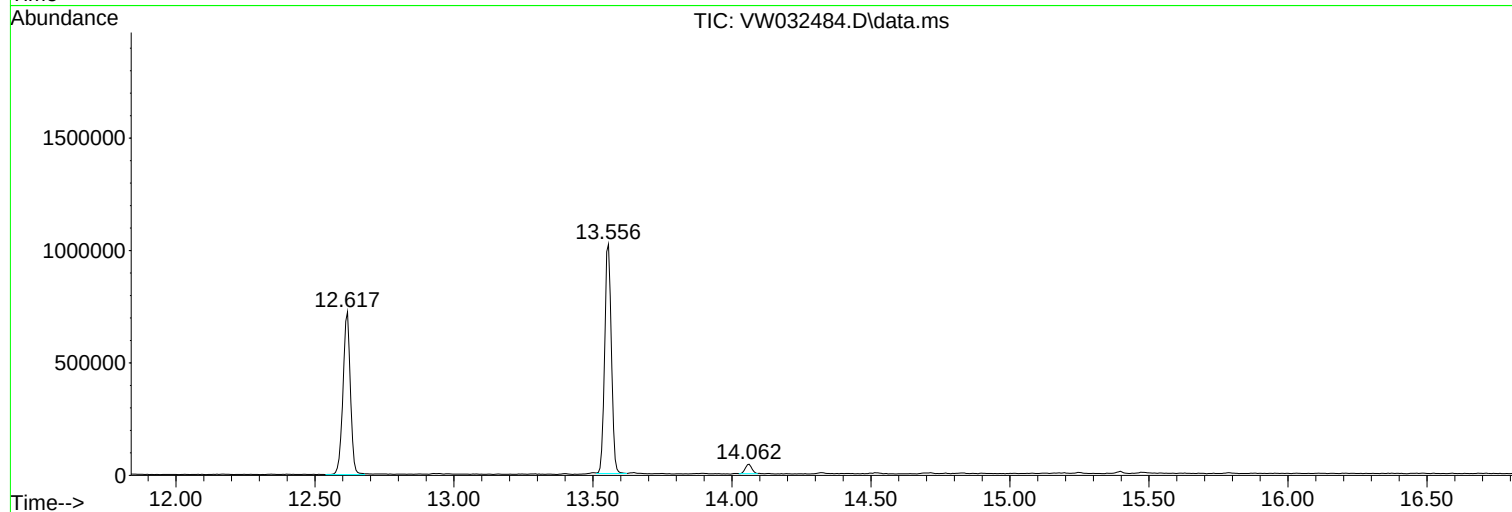
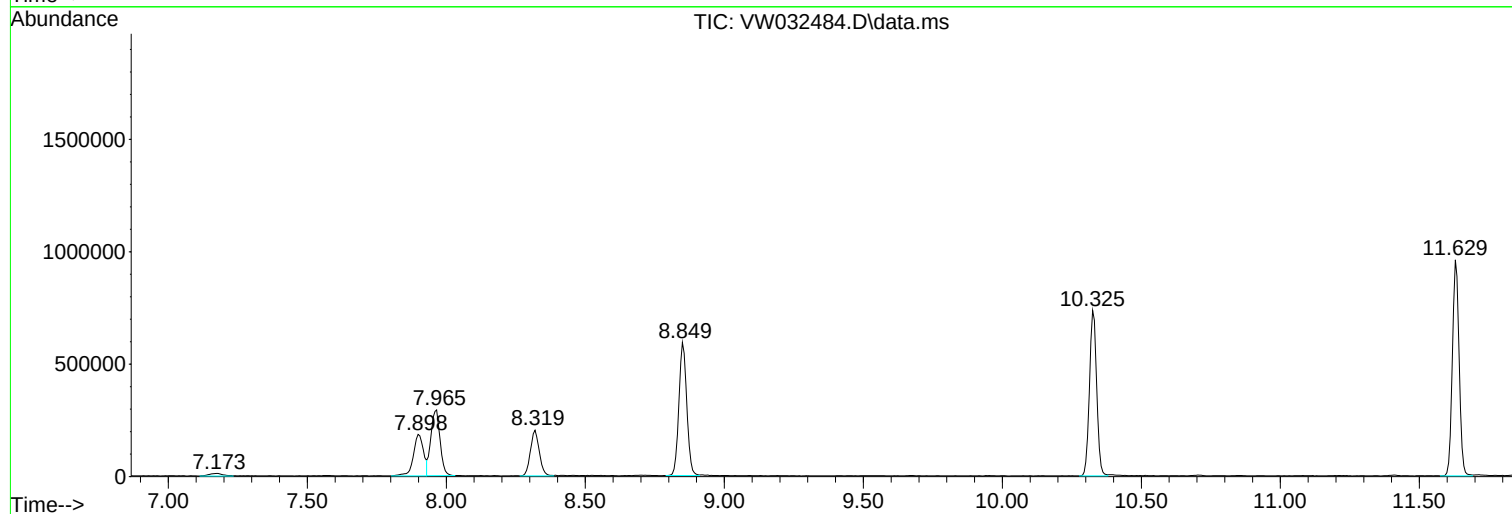
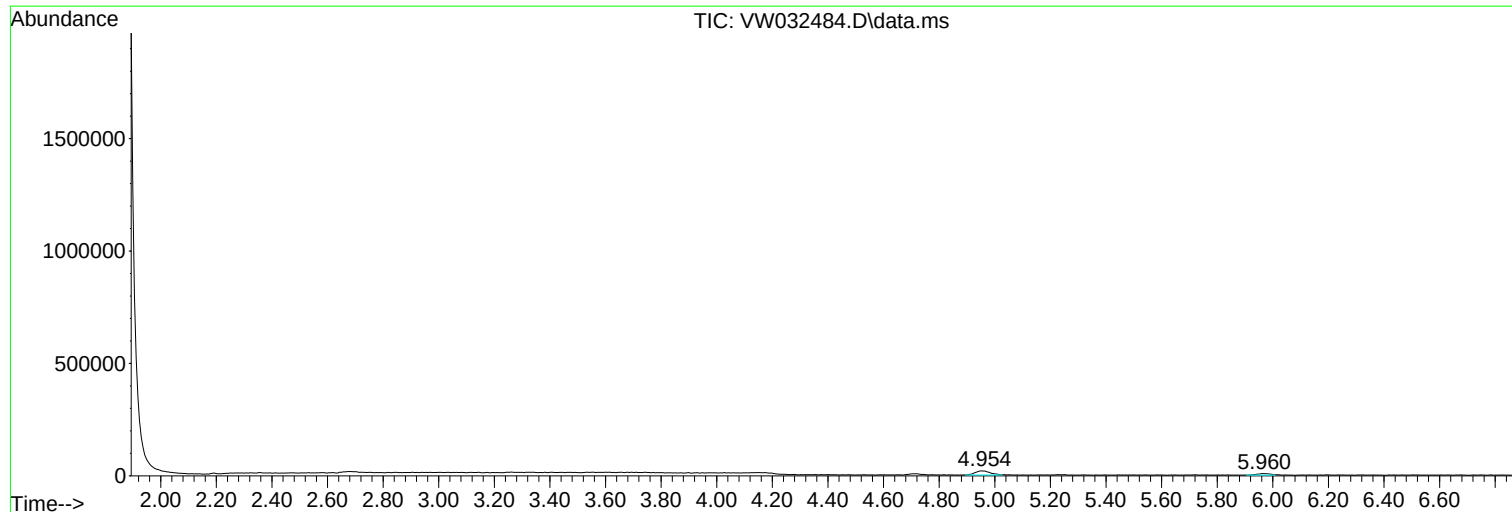
Sum of corrected areas: 8883952

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032484.D
Acq On : 18 Nov 2025 16:14
Operator : SY/MD
Sample : Q3649-09
Misc : 4.79g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032484.D
Acq On : 18 Nov 2025 16:14
Operator : SY/MD
Sample : Q3649-09
Misc : 4.79g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.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_W\Data\VW111825\
Data File : VW032484.D
Acq On : 18 Nov 2025 16:14
Operator : SY/MD
Sample : Q3649-09
Misc : 4.79g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
B3-0.5-1.0-20251114

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.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
------------------	----	---------	-------	----------	---	----	------	------



CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: HDRI08
 Lab Code: ACE SDG No.: Q3649
 Instrument ID: MSVOA_W Calibration Date(s): 11/10/2025 11/10/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 15:11 17:00
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF005 = VW032406.D			RRF010 = VW032407.D		RRF020 = VW032408.D		RRF050 = VW032409.D		RRF100 = VW032410.D		RRF150 = VW032411.D	
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD					
Dichlorodifluoromethane	0.288	0.282	0.231	0.248	0.243	0.230	0.254	10					
Chloromethane	0.476	0.439	0.408	0.408	0.438	0.440	0.435	5.8					
Vinyl Chloride	0.591	0.567	0.525	0.538	0.543	0.528	0.549	4.6					
Bromomethane	0.402	0.371	0.350	0.358	0.364	0.358	0.367	5.1					
Chloroethane	0.382	0.361	0.340	0.355	0.362	0.354	0.359	3.9					
Trichlorofluoromethane	0.420	0.416	0.392	0.459	0.442	0.452	0.430	5.9					
1,1,2-Trichlorotrifluoroethane	0.506	0.495	0.438	0.467	0.458	0.449	0.469	5.6					
1,1-Dichloroethene	0.576	0.541	0.506	0.540	0.539	0.523	0.537	4.3					
Acetone	0.216	0.194	0.183	0.186	0.190	0.188	0.193	6.3					
Carbon Disulfide	1.604	1.574	1.497	1.608	1.644	1.603	1.588	3.1					
Methyl tert-butyl Ether	1.186	1.163	1.107	1.139	1.126	1.076	1.133	3.5					
Methyl Acetate	0.486	0.494	0.459	0.463	0.476	0.487	0.478	2.9					
Methylene Chloride	0.789	0.741	0.682	0.640	0.658	0.629	0.690	9.1					
trans-1,2-Dichloroethene	0.646	0.619	0.596	0.603	0.624	0.598	0.615	3.1					
1,1-Dichloroethane	1.217	1.156	1.091	1.148	1.168	1.138	1.153	3.5					
Cyclohexane	1.236	1.141	1.016	1.027	1.003	0.976	1.066	9.5					
2-Butanone	0.292	0.288	0.282	0.280	0.284	0.278	0.284	1.9					
Carbon Tetrachloride	0.392	0.398	0.386	0.399	0.386	0.391	0.392	1.4					
cis-1,2-Dichloroethene	0.764	0.727	0.713	0.729	0.748	0.723	0.734	2.5					
Bromochloromethane	0.606	0.563	0.533	0.502	0.538	0.527	0.545	6.6					
Chloroform	1.164	1.165	1.089	1.109	1.141	1.103	1.129	2.9					
1,1,1-Trichloroethane	0.831	0.820	0.776	0.817	0.817	0.777	0.806	2.9					
Methylcyclohexane	0.560	0.575	0.562	0.598	0.562	0.572	0.571	2.5					
Benzene	1.410	1.473	1.410	1.437	1.413	1.380	1.420	2.2					
1,2-Dichloroethane	0.425	0.423	0.416	0.421	0.409	0.409	0.417	1.7					
Trichloroethene	0.336	0.340	0.327	0.335	0.323	0.323	0.331	2.2					
1,2-Dichloropropane	0.356	0.360	0.354	0.356	0.350	0.346	0.354	1.4					
Bromodichloromethane	0.460	0.469	0.456	0.482	0.481	0.482	0.471	2.5					
4-Methyl-2-Pentanone	0.304	0.329	0.330	0.336	0.317	0.311	0.321	3.9					
Toluene	0.875	0.896	0.870	0.894	0.870	0.859	0.877	1.7					

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: HDRI08
 Lab Code: ACE SDG No.: Q3649
 Instrument ID: MSVOA_W Calibration Date(s): 11/10/2025 11/10/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 15:11 17:00
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VW032406.D		RRF010 = VW032407.D		RRF020 = VW032408.D			
		RRF050 = VW032409.D		RRF100 = VW032410.D		RRF150 = VW032411.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.445	0.481	0.469	0.504	0.508	0.507	0.486	5.2	
cis-1,3-Dichloropropene	0.531	0.553	0.556	0.579	0.576	0.574	0.562	3.2	
1,1,2-Trichloroethane	0.288	0.283	0.282	0.293	0.278	0.277	0.284	2.1	
2-Hexanone	0.223	0.245	0.241	0.244	0.231	0.226	0.235	4	
Dibromochloromethane	0.306	0.317	0.314	0.320	0.320	0.322	0.317	1.9	
1,2-Dibromoethane	0.261	0.292	0.279	0.281	0.272	0.272	0.276	3.8	
Tetrachloroethene	0.298	0.304	0.285	0.300	0.303	0.287	0.296	2.8	
Chlorobenzene	1.087	1.088	1.042	1.133	1.093	1.023	1.078	3.7	
Ethyl Benzene	1.875	1.853	1.822	1.944	1.915	1.779	1.865	3.2	
m/p-Xylenes	0.692	0.713	0.679	0.732	0.708	0.677	0.700	3	
o-Xylene	0.668	0.659	0.662	0.682	0.699	0.653	0.670	2.5	
Styrene	1.104	1.146	1.132	1.208	1.212	1.118	1.153	4	
Bromoform	0.187	0.201	0.193	0.203	0.205	0.196	0.198	3.5	
Isopropylbenzene	3.523	3.562	3.511	3.968	3.781	3.689	3.672	4.9	
1,1,2,2-Tetrachloroethane	0.886	0.869	0.845	0.927	0.871	0.831	0.871	3.8	
1,3-Dichlorobenzene	1.665	1.630	1.620	1.721	1.659	1.596	1.648	2.7	
1,4-Dichlorobenzene	1.776	1.680	1.644	1.774	1.658	1.602	1.689	4.2	
1,2-Dichlorobenzene	1.547	1.528	1.464	1.545	1.509	1.488	1.513	2.2	
1,2-Dibromo-3-Chloropropane	0.145	0.146	0.145	0.159	0.152	0.154	0.150	3.8	
1,2,4-Trichlorobenzene	0.943	0.917	0.923	1.032	0.972	0.992	0.963	4.6	
1,2,3-Trichlorobenzene	0.892	0.831	0.836	0.901	0.880	0.906	0.874	3.8	
1,2-Dichloroethane-d4	0.691	0.654	0.647	0.605	0.640	0.630	0.645	4.4	
Dibromofluoromethane	0.314	0.302	0.305	0.287	0.297	0.291	0.299	3.3	
Toluene-d8	1.171	1.176	1.152	1.130	1.136	1.125	1.148	1.9	
4-Bromofluorobenzene	0.444	0.444	0.454	0.415	0.426	0.421	0.434	3.6	

* 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_W\Method\
 Method File : 82W111025S.M
 Title : SW846 8260
 Last Update : Tue Nov 11 03:48:21 2025
 Response Via : Initial Calibration

Calibration Files

5 =VW032406.D 10 =VW032407.D 20 =VW032408.D 50 =VW032409.D 100 =VW032410.D 150 =VW032411.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.288	0.282	0.231	0.248	0.243	0.230	0.254	9.97
3) P	Chloromethane	0.476	0.439	0.408	0.408	0.438	0.440	0.435	5.84
4) C	Vinyl Chloride	0.591	0.567	0.525	0.538	0.543	0.528	0.549	4.64#
5) T	Bromomethane	0.402	0.371	0.350	0.358	0.364	0.358	0.367	5.06
6) T	Chloroethane	0.382	0.361	0.340	0.355	0.362	0.354	0.359	3.85
7) T	Trichlorofluor...	0.420	0.416	0.392	0.459	0.442	0.452	0.430	5.87
8) T	Diethyl Ether	0.376	0.359	0.337	0.340	0.351	0.348	0.352	4.00
9) T	1,1,2-Trichlor...	0.506	0.495	0.438	0.467	0.458	0.449	0.469	5.65
10) T	Methyl Iodide	0.771	0.762	0.725	0.744	0.781	0.747	0.755	2.68
11) T	Tert butyl alc...	0.055	0.063	0.057	0.054	0.054	0.052	0.056	6.52
12) CM	1,1-Dichloroet...	0.576	0.541	0.506	0.540	0.539	0.523	0.537	4.33#
13) T	Acrolein	0.095	0.095	0.096	0.090	0.094	0.092	0.094	2.32
14) T	Allyl chloride	1.051	1.034	0.979	1.041	1.065	1.031	1.034	2.84
15) T	Acrylonitrile	0.208	0.208	0.197	0.203	0.204	0.200	0.203	2.19
16) T	Acetone	0.216	0.194	0.183	0.186	0.190	0.188	0.193	6.27
17) T	Carbon Disulfide	1.604	1.574	1.497	1.608	1.644	1.603	1.588	3.14
18) T	Methyl Acetate	0.486	0.494	0.459	0.463	0.476	0.487	0.478	2.92
19) T	Methyl tert-bu...	1.186	1.163	1.107	1.139	1.126	1.076	1.133	3.47
20) T	Methylene Chlo...	0.789	0.741	0.682	0.640	0.658	0.629	0.690	9.09
21) T	trans-1,2-Dich...	0.646	0.619	0.596	0.603	0.624	0.598	0.615	3.07
22) T	Diisopropyl ether	2.154	2.132	2.078	2.085	2.134	2.043	2.104	2.01
23) T	Vinyl Acetate	1.416	1.434	1.406	1.460	1.493	1.440	1.442	2.19
24) P	1,1-Dichloroet...	1.217	1.156	1.091	1.148	1.168	1.138	1.153	3.55
25) T	2-Butanone	0.292	0.288	0.282	0.280	0.284	0.278	0.284	1.87
26) T	2,2-Dichloropr...	0.719	0.681	0.616	0.619	0.629	0.592	0.643	7.38
27) T	cis-1,2-Dichlo...	0.764	0.727	0.713	0.729	0.748	0.723	0.734	2.53
28) T	Bromochloromet...	0.606	0.563	0.533	0.502	0.538	0.527	0.545	6.59
29) T	Tetrahydrofuran	0.184	0.182	0.178	0.181	0.182	0.175	0.180	1.71
30) C	Chloroform	1.164	1.165	1.089	1.109	1.141	1.103	1.129	2.89#
31) T	Cyclohexane	1.236	1.141	1.016	1.027	1.003	0.976	1.066	9.46
32) T	1,1,1-Trichlor...	0.831	0.820	0.776	0.817	0.817	0.777	0.806	2.94
33) S	1,2-Dichloroet...	0.691	0.654	0.647	0.605	0.640	0.630	0.645	4.39
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.314	0.302	0.305	0.287	0.297	0.291	0.299	3.29
36) T	1,1-Dichloropr...	0.435	0.447	0.436	0.455	0.436	0.437	0.441	1.89
37) T	Ethyl Acetate	0.315	0.347	0.333	0.337	0.320	0.317	0.328	3.95
38) T	Carbon Tetrach...	0.392	0.398	0.386	0.399	0.386	0.391	0.392	1.41
39) T	Methylcyclohexane	0.560	0.575	0.562	0.598	0.562	0.572	0.571	2.55
40) TM	Benzene	1.410	1.473	1.410	1.437	1.413	1.380	1.420	2.22
41) T	Methacrylonitrile	0.161	0.174	0.193	0.187	0.182	0.184	0.180	6.34
42) TM	1,2-Dichloroet...	0.425	0.423	0.416	0.421	0.409	0.409	0.417	1.70
43) T	Isopropyl Acetate	0.556	0.583	0.575	0.604	0.581	0.586	0.581	2.68
44) TM	Trichloroethene	0.336	0.340	0.327	0.335	0.323	0.323	0.331	2.20
45) C	1,2-Dichloropr...	0.356	0.360	0.354	0.356	0.350	0.346	0.354	1.37#
46) T	Dibromomethane	0.207	0.210	0.210	0.211	0.202	0.200	0.207	2.36
47) T	Bromodichlorom...	0.460	0.469	0.456	0.482	0.481	0.482	0.471	2.46
48) T	Methyl methacr...	0.261	0.261	0.261	0.303	0.275	0.295	0.276	6.80
49) T	1,4-Dioxane	0.003	0.003	0.003	0.003	0.003	0.003	0.003	3.45
50) S	Toluene-d8	1.171	1.176	1.152	1.130	1.136	1.125	1.148	1.87
51) T	4-Methyl-2-Pen...	0.304	0.329	0.330	0.336	0.317	0.311	0.321	3.90
52) CM	Toluene	0.875	0.896	0.870	0.894	0.870	0.859	0.877	1.69#
53) T	t-1,3-Dichloro...	0.445	0.481	0.469	0.504	0.508	0.507	0.486	5.23
54) T	cis-1,3-Dichlo...	0.531	0.553	0.556	0.579	0.576	0.574	0.562	3.24
55) T	1,1,2-Trichlor...	0.288	0.283	0.282	0.293	0.278	0.277	0.284	2.14
56) T	Ethyl methacry...	0.389	0.428	0.436	0.458	0.449	0.450	0.435	5.71

Method Path : Z:\voasrv\HPCHEM1\MSVOA_W\Method\
 Method File : 82W111025S.M

57)	T	1,3-Dichloropr...	0.495	0.517	0.512	0.523	0.497	0.495	0.506	2.43
58)	T	2-Chloroethyl ...	0.218	0.236	0.237	0.226	0.238	0.235	0.232	3.45
59)	T	2-Hexanone	0.223	0.245	0.241	0.244	0.231	0.226	0.235	4.02
60)	T	Dibromochlorom...	0.306	0.317	0.314	0.320	0.320	0.322	0.317	1.86
61)	T	1,2-Dibromoethane	0.261	0.292	0.279	0.281	0.272	0.272	0.276	3.84
62)	S	4-Bromofluorob...	0.444	0.444	0.454	0.415	0.426	0.421	0.434	3.56
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.298	0.304	0.285	0.300	0.303	0.287	0.296	2.79
65)	PM	Chlorobenzene	1.087	1.088	1.042	1.133	1.093	1.023	1.078	3.68
66)	T	1,1,1,2-Tetrac...	0.338	0.328	0.324	0.339	0.346	0.327	0.334	2.52
67)	C	Ethyl Benzene	1.875	1.853	1.822	1.943	1.915	1.779	1.865	3.23#
68)	T	m/p-Xylenes	0.692	0.713	0.679	0.732	0.708	0.677	0.700	3.02
69)	T	o-Xylene	0.668	0.659	0.662	0.682	0.699	0.653	0.670	2.54
70)	T	Styrene	1.104	1.146	1.132	1.208	1.212	1.118	1.153	4.01
71)	P	Bromoform	0.187	0.201	0.193	0.203	0.205	0.196	0.198	3.53
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.523	3.562	3.511	3.968	3.781	3.689	3.672	4.87
74)	T	N-amyl acetate	1.175	1.202	1.245	1.403	1.334	1.298	1.276	6.70
75)	P	1,1,2,2-Tetrac...	0.886	0.869	0.845	0.927	0.871	0.831	0.871	3.84
76)	T	1,2,3-Trichlor...	0.735	0.749	0.730	0.671	0.621	0.606	0.686	9.02
77)	T	Bromobenzene	0.877	0.865	0.811	0.942	0.863	0.860	0.869	4.86
78)	T	n-propylbenzene	4.287	4.362	4.312	4.819	4.565	4.488	4.472	4.48
79)	T	2-Chlorotoluene	2.669	2.699	2.630	2.874	2.789	2.719	2.730	3.23
80)	T	1,3,5-Trimethy...	2.919	2.983	2.969	3.242	3.086	2.978	3.030	3.87
81)	T	trans-1,4-Dich...	0.263	0.281	0.277	0.328	0.323	0.325	0.299	9.73
82)	T	4-Chlorotoluene	2.804	2.776	2.752	3.008	2.858	2.837	2.839	3.22
83)	T	tert-Butylbenzene	2.567	2.531	2.515	2.880	2.687	2.632	2.635	5.17
84)	T	1,2,4-Trimethy...	3.047	3.050	2.963	3.291	3.071	3.067	3.081	3.56
85)	T	sec-Butylbenzene	3.938	3.846	3.784	4.197	3.902	3.883	3.925	3.65
86)	T	p-Isopropyltol...	3.148	3.210	3.114	3.434	3.289	3.249	3.241	3.53
87)	T	1,3-Dichlorobe...	1.665	1.630	1.620	1.721	1.659	1.596	1.648	2.66
88)	T	1,4-Dichlorobe...	1.776	1.680	1.644	1.774	1.658	1.602	1.689	4.24
89)	T	n-Butylbenzene	3.059	3.073	3.087	3.388	3.184	3.206	3.166	3.94
90)	T	Hexachloroethane	0.563	0.564	0.540	0.624	0.598	0.617	0.584	5.77
91)	T	1,2-Dichlorobe...	1.547	1.528	1.464	1.545	1.509	1.488	1.513	2.19
92)	T	1,2-Dibromo-3-...	0.145	0.146	0.145	0.159	0.152	0.154	0.150	3.85
93)	T	1,2,4-Trichlor...	0.943	0.917	0.923	1.032	0.972	0.992	0.963	4.62
94)	T	Hexachlorobuta...	0.408	0.386	0.366	0.422	0.404	0.414	0.400	5.17
95)	T	Naphthalene	2.182	2.294	2.276	2.598	2.586	2.472	2.401	7.29
96)	T	1,2,3-Trichlor...	0.892	0.831	0.836	0.901	0.880	0.906	0.874	3.76

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032406.D
 Acq On : 10 Nov 2025 15:11
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:33:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	446044	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	861919	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	746442	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	357631	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	30808	5.357	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	10.720%#		
35) Dibromofluoromethane	7.904	113	27089	5.249	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	10.500%#		
50) Toluene-d8	10.325	98	100946	5.099	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	10.200%#		
62) 4-Bromofluorobenzene	12.617	95	38253	5.115	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	10.220%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.046	85	12853m	5.626	ug/l	
3) Chloromethane	2.253	50	21252	5.479	ug/l	96
4) Vinyl Chloride	2.405	62	26343	5.381	ug/l	97
5) Bromomethane	2.826	94	17936	5.477	ug/l	86
6) Chloroethane	2.978	64	17036	5.319	ug/l	99
7) Trichlorofluoromethane	3.308	101	18735	4.881	ug/l	94
8) Diethyl Ether	3.716	74	16754	5.339	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.100	101	22551	5.394	ug/l	98
10) Methyl Iodide	4.307	142	34394	5.107	ug/l	99
11) Tert butyl alcohol	5.216	59	12284	24.704	ug/l #	94
12) 1,1-Dichloroethene	4.076	96	25678	5.356	ug/l	98
13) Acrolein	3.929	56	21243	25.462	ug/l	97
14) Allyl chloride	4.710	41	46866	5.083	ug/l	98
15) Acrylonitrile	5.405	53	46350	25.546	ug/l	99
16) Acetone	4.161	43	48252	28.046	ug/l	93
17) Carbon Disulfide	4.417	76	71547	5.049	ug/l	98
18) Methyl Acetate	4.716	43	21679	5.089	ug/l	99
19) Methyl tert-butyl Ether	5.466	73	52903	5.235	ug/l	96
20) Methylene Chloride	4.954	84	35179	5.718	ug/l	96
21) trans-1,2-Dichloroethene	5.460	96	28795	5.253	ug/l	96
22) Diisopropyl ether	6.338	45	96076	5.118	ug/l	94
23) Vinyl Acetate	6.289	43	315880	24.561	ug/l	99
24) 1,1-Dichloroethane	6.246	63	54281	5.278	ug/l	99
25) 2-Butanone	7.197	43	65204	25.725	ug/l	95
26) 2,2-Dichloropropane	7.191	77	32052	5.592	ug/l	96
27) cis-1,2-Dichloroethene	7.191	96	34097	5.205	ug/l	96
28) Bromochloromethane	7.532	49	27041	5.563	ug/l	98
29) Tetrahydrofuran	7.557	42	41010	25.492	ug/l	98
30) Chloroform	7.691	83	51922	5.157	ug/l	98
31) Cyclohexane	7.965	56	55149	5.797	ug/l #	75
32) 1,1,1-Trichloroethane	7.886	97	37069	5.154	ug/l	97
36) 1,1-Dichloropropene	8.093	75	37460	4.927	ug/l	96
37) Ethyl Acetate	7.276	43	27118	4.796	ug/l	96
38) Carbon Tetrachloride	8.087	117	33800	5.003	ug/l	95
39) Methylcyclohexane	9.343	83	48247	4.898	ug/l	97
40) Benzene	8.337	78	121492	4.962	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032406.D
 Acq On : 10 Nov 2025 15:11
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_W

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/11/2025

Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:33:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M

Quant Title : SW846 8260

QLast Update : Tue Nov 11 03:33:05 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.496	41	13857	4.462	ug/l	93
42) 1,2-Dichloroethane	8.410	62	36648	5.095	ug/l	100
43) Isopropyl Acetate	8.435	43	47925	4.787	ug/l	98
44) Trichloroethene	9.099	130	28965	5.084	ug/l	92
45) 1,2-Dichloropropane	9.374	63	30643	5.026	ug/l	97
46) Dibromomethane	9.465	93	17884	5.020	ug/l	98
47) Bromodichloromethane	9.648	83	39690	4.884	ug/l	96
48) Methyl methacrylate	9.441	41	22511	4.732	ug/l	98
49) 1,4-Dioxane	9.465	88	4928	98.734	ug/l #	98
51) 4-Methyl-2-Pentanone	10.209	43	130944	23.659	ug/l	99
52) Toluene	10.392	92	75426	4.987	ug/l	97
53) t-1,3-Dichloropropene	10.605	75	38349	4.582	ug/l	97
54) cis-1,3-Dichloropropene	10.081	75	45809	4.733	ug/l	97
55) 1,1,2-Trichloroethane	10.788	97	24841	5.082	ug/l	95
56) Ethyl methacrylate	10.648	69	33566	4.476	ug/l	97
57) 1,3-Dichloropropane	10.934	76	42638	4.884	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	93963	23.527	ug/l	97
59) 2-Hexanone	10.971	43	96031	23.716	ug/l	99
60) Dibromochloromethane	11.129	129	26381	4.833	ug/l	99
61) 1,2-Dibromoethane	11.233	107	22493	4.725	ug/l	97
64) Tetrachloroethene	10.867	164	22220	5.027	ug/l	93
65) Chlorobenzene	11.660	112	81174	5.045	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.727	131	25207	5.063	ug/l	99
67) Ethyl Benzene	11.727	91	139985	5.029	ug/l	98
68) m/p-Xylenes	11.837	106	103326	9.886	ug/l	99
69) o-Xylene	12.166	106	49846	4.981	ug/l	99
70) Styrene	12.178	104	82403	4.787	ug/l	98
71) Bromoform	12.343	173	13933	4.724	ug/l #	99
73) Isopropylbenzene	12.458	105	125978	4.796	ug/l	100
74) N-amyl acetate	12.269	43	42020	4.604	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.714	83	31677	5.082	ug/l	99
76) 1,2,3-Trichloropropane	12.763	75	26298m	5.362	ug/l	
77) Bromobenzene	12.745	156	31353	5.042	ug/l	99
78) n-propylbenzene	12.800	91	153312	4.793	ug/l	99
79) 2-Chlorotoluene	12.891	91	95466	4.889	ug/l	98
80) 1,3,5-Trimethylbenzene	12.940	105	104405	4.818	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.513	75	9398	4.390	ug/l	88
82) 4-Chlorotoluene	12.983	91	100291	4.938	ug/l	97
83) tert-Butylbenzene	13.202	119	91812	4.871	ug/l	99
84) 1,2,4-Trimethylbenzene	13.245	105	108985	4.945	ug/l	100
85) sec-Butylbenzene	13.379	105	140828	5.016	ug/l	97
86) p-Isopropyltoluene	13.495	119	112594	4.858	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	59538	5.050	ug/l	99
88) 1,4-Dichlorobenzene	13.574	146	63512	5.258	ug/l	96
89) n-Butylbenzene	13.818	91	109389	4.831	ug/l	98
90) Hexachloroethane	14.092	117	20141	4.819	ug/l	100
91) 1,2-Dichlorobenzene	13.867	146	55317	5.111	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.482	75	5174	4.818	ug/l	98
93) 1,2,4-Trichlorobenzene	15.129	180	33710	4.894	ug/l	95
94) Hexachlorobutadiene	15.220	225	14601	5.103	ug/l	91
95) Naphthalene	15.360	128	78029	4.543	ug/l	100
96) 1,2,3-Trichlorobenzene	15.543	180	31907	5.102	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032406.D
Acq On : 10 Nov 2025 15:11
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:33:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

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

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

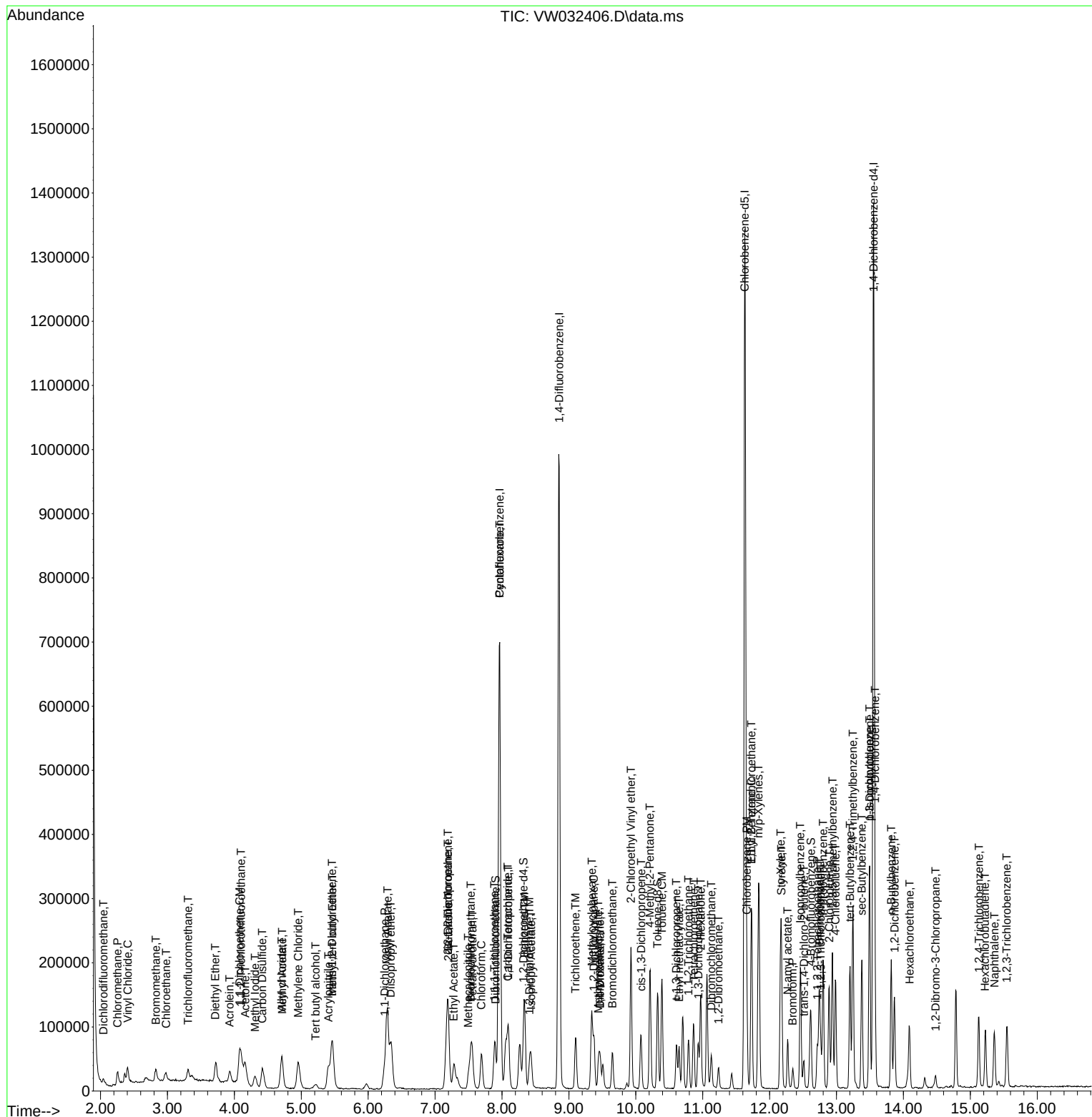
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032406.D
Acq On : 10 Nov 2025 15:11
Operator : SY/MD
Sample : VSTDIC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:33:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032407.D
 Acq On : 10 Nov 2025 15:33
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:34:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	450836	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	819351	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	741941	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	349708	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.319	65	59003	10.151	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	20.300%#
35) Dibromofluoromethane	7.904	113	49546	10.100	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	20.200%#
50) Toluene-d8	10.325	98	192718	10.240	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	20.480%#
62) 4-Bromofluorobenzene	12.617	95	72758	10.234	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	20.460%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.046	85	25392m	10.997	ug/l	
3) Chloromethane	2.253	50	39572	10.093	ug/l	99
4) Vinyl Chloride	2.405	62	51167	10.341	ug/l	95
5) Bromomethane	2.826	94	33455	10.108	ug/l	92
6) Chloroethane	2.972	64	32585	10.065	ug/l	98
7) Trichlorofluoromethane	3.308	101	37511	9.669	ug/l	98
8) Diethyl Ether	3.722	74	32396	10.214	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.106	101	44628	10.560	ug/l	99
10) Methyl Iodide	4.313	142	68681	10.090	ug/l	100
11) Tert butyl alcohol	5.216	59	28210	56.129	ug/l	100
12) 1,1-Dichloroethene	4.076	96	48802	10.071	ug/l	99
13) Acrolein	3.935	56	42661	50.591	ug/l	99
14) Allyl chloride	4.710	41	93239	10.005	ug/l	99
15) Acrylonitrile	5.405	53	93953	51.232	ug/l	99
16) Acetone	4.161	43	87310	50.210	ug/l	97
17) Carbon Disulfide	4.417	76	141915	9.909	ug/l	97
18) Methyl Acetate	4.710	43	44520	10.339	ug/l	99
19) Methyl tert-butyl Ether	5.460	73	104889	10.268	ug/l	95
20) Methylene Chloride	4.954	84	66798	10.741	ug/l	100
21) trans-1,2-Dichloroethene	5.466	96	55842	10.078	ug/l	97
22) Diisopropyl ether	6.337	45	192206	10.130	ug/l	96
23) Vinyl Acetate	6.283	43	646655	49.745	ug/l	97
24) 1,1-Dichloroethane	6.246	63	104196	10.023	ug/l	98
25) 2-Butanone	7.197	43	129968	50.732	ug/l	98
26) 2,2-Dichloropropane	7.191	77	61367	10.593	ug/l	96
27) cis-1,2-Dichloroethene	7.191	96	65574	9.904	ug/l	95
28) Bromochloromethane	7.532	49	50794	10.338	ug/l	99
29) Tetrahydrofuran	7.551	42	81885	50.359	ug/l	99
30) Chloroform	7.697	83	105045	10.322	ug/l	98
31) Cyclohexane	7.965	56	102879	10.699	ug/l #	92
32) 1,1,1-Trichloroethane	7.892	97	73948	10.172	ug/l	98
36) 1,1-Dichloropropene	8.099	75	73275	10.138	ug/l	97
37) Ethyl Acetate	7.276	43	56863	10.580	ug/l	98
38) Carbon Tetrachloride	8.081	117	65150	10.144	ug/l	92
39) Methylcyclohexane	9.343	83	94305	10.071	ug/l	86
40) Benzene	8.337	78	241413	10.371	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032407.D
 Acq On : 10 Nov 2025 15:33
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA_W

ClientSampleId :

VSTDICC010

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/11/2025

Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:34:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M

Quant Title : SW846 8260

QLast Update : Tue Nov 11 03:33:05 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	28465	9.641	ug/l	94
42) 1,2-Dichloroethane	8.416	62	69346	10.143	ug/l	99
43) Isopropyl Acetate	8.435	43	95514	10.036	ug/l	99
44) Trichloroethene	9.099	130	55649	10.274	ug/l	93
45) 1,2-Dichloropropane	9.374	63	59038	10.186	ug/l	98
46) Dibromomethane	9.471	93	34419	10.162	ug/l	97
47) Bromodichloromethane	9.648	83	76814	9.942	ug/l	95
48) Methyl methacrylate	9.441	41	42787	9.461	ug/l	95
49) 1,4-Dioxane	9.465	88	9540	201.067	ug/l #	97
51) 4-Methyl-2-Pentanone	10.215	43	269178	51.163	ug/l	99
52) Toluene	10.392	92	146853	10.214	ug/l	99
53) t-1,3-Dichloropropene	10.605	75	78747	9.897	ug/l	97
54) cis-1,3-Dichloropropene	10.081	75	90589	9.845	ug/l	96
55) 1,1,2-Trichloroethane	10.788	97	46448	9.997	ug/l	94
56) Ethyl methacrylate	10.648	69	70122	9.836	ug/l	99
57) 1,3-Dichloropropane	10.934	76	84750	10.213	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.928	63	193282	50.910	ug/l	99
59) 2-Hexanone	10.971	43	200376	52.056	ug/l	99
60) Dibromochloromethane	11.129	129	51945	10.011	ug/l	98
61) 1,2-Dibromoethane	11.239	107	47906	10.586	ug/l	94
64) Tetrachloroethene	10.861	164	45145	10.275	ug/l	94
65) Chlorobenzene	11.660	112	161494	10.099	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.727	131	48692	9.839	ug/l	98
67) Ethyl Benzene	11.733	91	275018	9.939	ug/l	98
68) m/p-Xylenes	11.836	106	211539	20.362	ug/l	97
69) o-Xylene	12.166	106	97756	9.827	ug/l	100
70) Styrene	12.178	104	170000	9.935	ug/l	99
71) Bromoform	12.343	173	29843	10.181	ug/l #	92
73) Isopropylbenzene	12.464	105	249133	9.700	ug/l	98
74) N-amyl acetate	12.269	43	84064	9.419	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.714	83	60803	9.975	ug/l	98
76) 1,2,3-Trichloropropane	12.763	75	52388m	10.924	ug/l	
77) Bromobenzene	12.745	156	60481	9.946	ug/l	97
78) n-propylbenzene	12.800	91	305079	9.754	ug/l	99
79) 2-Chlorotoluene	12.891	91	188782	9.887	ug/l	97
80) 1,3,5-Trimethylbenzene	12.940	105	208642	9.847	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.507	75	19619	9.371	ug/l	94
82) 4-Chlorotoluene	12.989	91	194147	9.776	ug/l	97
83) tert-Butylbenzene	13.202	119	176992	9.602	ug/l	98
84) 1,2,4-Trimethylbenzene	13.245	105	213291	9.897	ug/l	99
85) sec-Butylbenzene	13.379	105	268972	9.798	ug/l	99
86) p-Isopropyltoluene	13.495	119	224526	9.906	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	113975	9.886	ug/l	99
88) 1,4-Dichlorobenzene	13.574	146	117480	9.946	ug/l	93
89) n-Butylbenzene	13.818	91	214914	9.705	ug/l	100
90) Hexachloroethane	14.086	117	39430	9.649	ug/l	97
91) 1,2-Dichlorobenzene	13.867	146	106855	10.096	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.476	75	10231	9.743	ug/l	99
93) 1,2,4-Trichlorobenzene	15.123	180	64111	9.519	ug/l	94
94) Hexachlorobutadiene	15.226	225	27012	9.655	ug/l	92
95) Naphthalene	15.360	128	160481	9.555	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	58107	9.503	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032407.D
Acq On : 10 Nov 2025 15:33
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:34:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

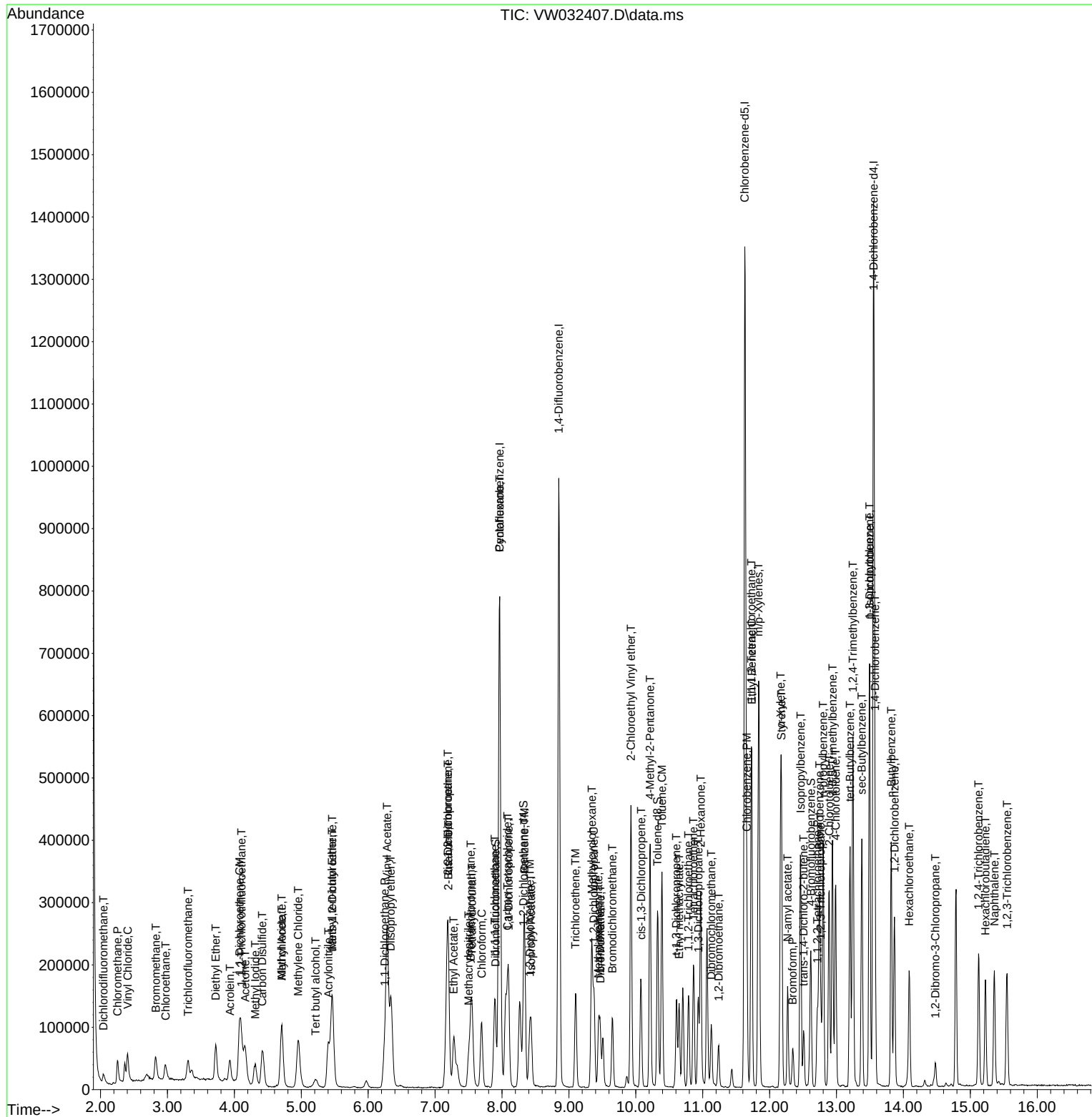
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

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

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032408.D
 Acq On : 10 Nov 2025 15:55
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:35:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	457584	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	816489	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	742729	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	346736	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	118510	20.089	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	40.180%#		
35) Dibromofluoromethane	7.904	113	99490	20.352	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	40.700%#		
50) Toluene-d8	10.325	98	376146	20.057	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	40.120%#		
62) 4-Bromofluorobenzene	12.617	95	148179	20.916	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	41.840%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.046	85	42243	18.026	ug/l	90
3) Chloromethane	2.253	50	74640	18.757	ug/l	98
4) Vinyl Chloride	2.405	62	96045	19.124	ug/l	100
5) Bromomethane	2.820	94	64010	19.054	ug/l	97
6) Chloroethane	2.966	64	62143	18.913	ug/l	100
7) Trichlorofluoromethane	3.308	101	71828	18.242	ug/l	88
8) Diethyl Ether	3.722	74	61770	19.188	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.106	101	80209	18.700	ug/l	99
10) Methyl Iodide	4.314	142	132689	19.207	ug/l	100
11) Tert butyl alcohol	5.216	59	51729	101.406	ug/l	99
12) 1,1-Dichloroethene	4.076	96	92526	18.812	ug/l	99
13) Acrolein	3.929	56	87436	102.160	ug/l	99
14) Allyl chloride	4.704	41	179218	18.948	ug/l	98
15) Acrylonitrile	5.405	53	180486	96.966	ug/l	99
16) Acetone	4.161	43	167175	94.720	ug/l	99
17) Carbon Disulfide	4.417	76	274085	18.855	ug/l	98
18) Methyl Acetate	4.716	43	84037	19.228	ug/l	100
19) Methyl tert-butyl Ether	5.460	73	202532	19.535	ug/l	96
20) Methylene Chloride	4.948	84	124826	19.777	ug/l	97
21) trans-1,2-Dichloroethene	5.460	96	109177	19.413	ug/l	98
22) Diisopropyl ether	6.344	45	380288	19.748	ug/l	94
23) Vinyl Acetate	6.283	43	1286472	97.505	ug/l	99
24) 1,1-Dichloroethane	6.246	63	199778	18.935	ug/l	98
25) 2-Butanone	7.197	43	257973	99.213	ug/l	97
26) 2,2-Dichloropropane	7.185	77	112678	19.163	ug/l	98
27) cis-1,2-Dichloroethene	7.191	96	130563	19.430	ug/l	99
28) Bromochloromethane	7.532	49	97569	19.566	ug/l	98
29) Tetrahydrofuran	7.551	42	162726	98.600	ug/l	99
30) Chloroform	7.691	83	199398	19.305	ug/l	99
31) Cyclohexane	7.971	56	186039	19.062	ug/l	97
32) 1,1,1-Trichloroethane	7.886	97	142015	19.247	ug/l	99
36) 1,1-Dichloropropene	8.099	75	142545	19.790	ug/l	99
37) Ethyl Acetate	7.276	43	108602	20.277	ug/l	100
38) Carbon Tetrachloride	8.087	117	126114	19.706	ug/l	98
39) Methylcyclohexane	9.343	83	183430	19.658	ug/l	93
40) Benzene	8.337	78	460390	19.848	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032408.D
 Acq On : 10 Nov 2025 15:55
 Operator : SY/MD
 Sample : VSTDICC020
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:35:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	63058	21.432	ug/l	95
42) 1,2-Dichloroethane	8.410	62	135836	19.937	ug/l	100
43) Isopropyl Acetate	8.435	43	187892	19.812	ug/l	99
44) Trichloroethene	9.099	130	106920	19.809	ug/l	99
45) 1,2-Dichloropropane	9.374	63	115560	20.008	ug/l	99
46) Dibromomethane	9.465	93	68601	20.326	ug/l	98
47) Bromodichloromethane	9.654	83	148808	19.328	ug/l	96
48) Methyl methacrylate	9.441	41	85216	18.909	ug/l	93
49) 1,4-Dioxane	9.465	88	18879	399.292	ug/l #	97
51) 4-Methyl-2-Pentanone	10.215	43	538488	102.710	ug/l	99
52) Toluene	10.392	92	284143	19.832	ug/l	99
53) t-1,3-Dichloropropene	10.611	75	153300	19.334	ug/l	99
54) cis-1,3-Dichloropropene	10.075	75	181723	19.819	ug/l	98
55) 1,1,2-Trichloroethane	10.788	97	92074	19.886	ug/l	96
56) Ethyl methacrylate	10.648	69	142352	20.038	ug/l	99
57) 1,3-Dichloropropane	10.934	76	167175	20.216	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	386317	102.111	ug/l	100
59) 2-Hexanone	10.971	43	392754	102.391	ug/l	99
60) Dibromochloromethane	11.129	129	102649	19.852	ug/l	96
61) 1,2-Dibromoethane	11.239	107	91235	20.231	ug/l	99
64) Tetrachloroethene	10.867	164	84673	19.251	ug/l	94
65) Chlorobenzene	11.660	112	309433	19.329	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.727	131	96211	19.420	ug/l	100
67) Ethyl Benzene	11.733	91	541238	19.540	ug/l	98
68) m/p-Xylenes	11.837	106	403489	38.797	ug/l	98
69) o-Xylene	12.166	106	196711	19.754	ug/l	98
70) Styrene	12.178	104	336202	19.626	ug/l	100
71) Bromoform	12.349	173	57398	19.560	ug/l	91
73) Isopropylbenzene	12.458	105	486953	19.122	ug/l	100
74) N-amyl acetate	12.269	43	172679	19.514	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.714	83	117227	19.397	ug/l	98
76) 1,2,3-Trichloropropane	12.763	75	101298m	21.304	ug/l	
77) Bromobenzene	12.745	156	112433	18.648	ug/l	91
78) n-propylbenzene	12.800	91	598062	19.285	ug/l	100
79) 2-Chlorotoluene	12.891	91	364742	19.266	ug/l	99
80) 1,3,5-Trimethylbenzene	12.940	105	411841	19.603	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.507	75	38383	18.491	ug/l	94
82) 4-Chlorotoluene	12.983	91	381756	19.388	ug/l	99
83) tert-Butylbenzene	13.202	119	348802	19.086	ug/l	99
84) 1,2,4-Trimethylbenzene	13.245	105	410945	19.231	ug/l	98
85) sec-Butylbenzene	13.379	105	524886	19.284	ug/l	99
86) p-Isopropyltoluene	13.495	119	431851	19.216	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	224644	19.651	ug/l	99
88) 1,4-Dichlorobenzene	13.574	146	227987	19.467	ug/l	97
89) n-Butylbenzene	13.818	91	428136	19.500	ug/l	99
90) Hexachloroethane	14.086	117	74845	18.472	ug/l	99
91) 1,2-Dichlorobenzene	13.867	146	202982	19.343	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.482	75	20157	19.361	ug/l	97
93) 1,2,4-Trichlorobenzene	15.129	180	127966	19.162	ug/l	97
94) Hexachlorobutadiene	15.226	225	50712	18.281	ug/l	86
95) Naphthalene	15.360	128	315603	18.952	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	115969	19.128	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032408.D
Acq On : 10 Nov 2025 15:55
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:35:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032408.D
 Acq On : 10 Nov 2025 15:55
 Operator : SY/MD
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC020

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/11/2025

Supervised By :Semsettin Yesilyurt 11/11/2025

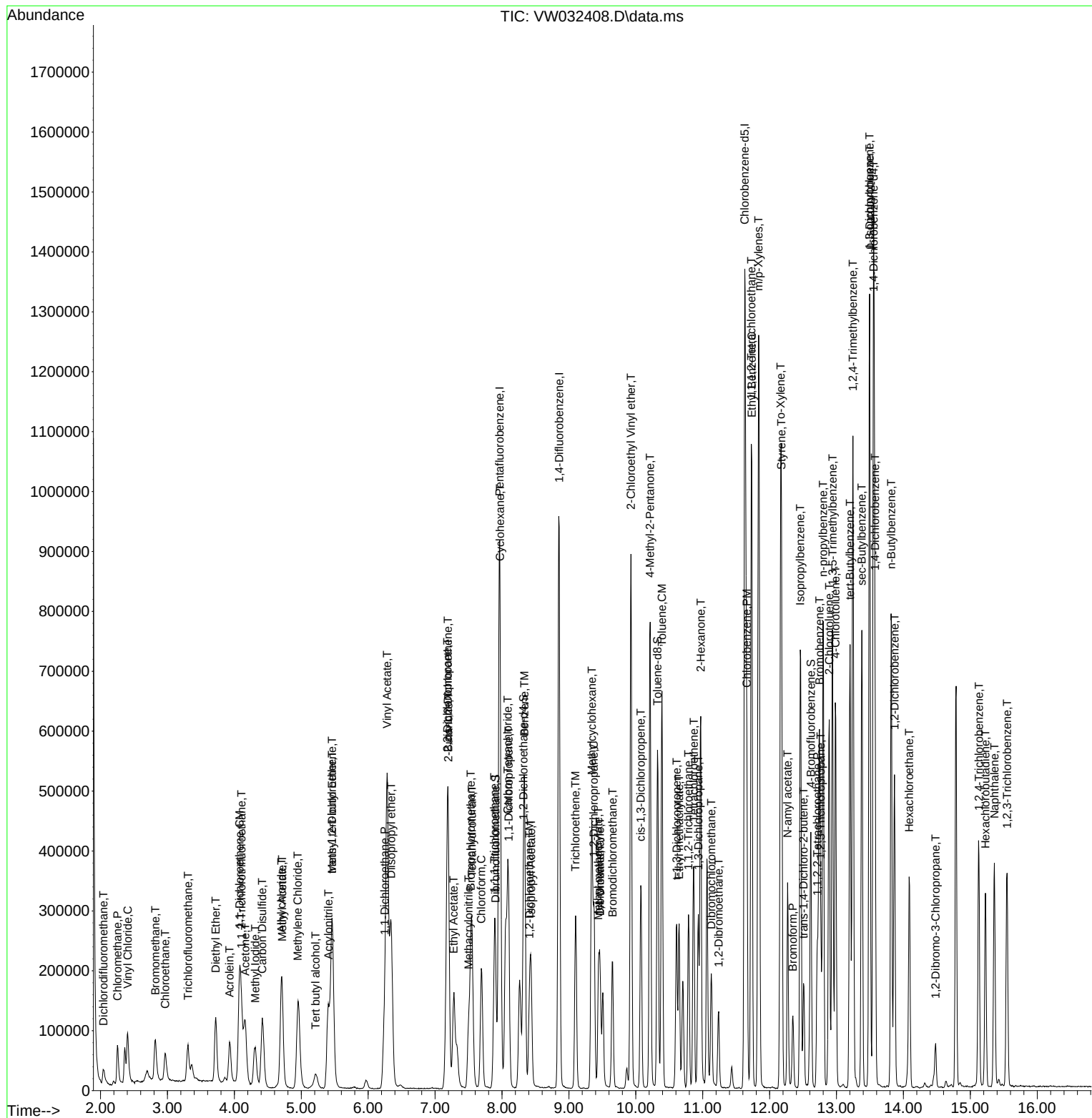
Quant Time: Nov 11 03:35:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M

Quant Title : SW846 8260

QLast Update : Tue Nov 11 03:33:05 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032409.D
 Acq On : 10 Nov 2025 16:17
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:35:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	473870	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	839187	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	738113	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	330535	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	286867	46.956	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	93.920%		
35) Dibromofluoromethane	7.904	113	240784	47.923	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	95.840%		
50) Toluene-d8	10.325	98	948663	49.216	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	98.440%		
62) 4-Bromofluorobenzene	12.617	95	348133	47.811	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	95.620%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.046	85	117696	48.496	ug/l	100
3) Chloromethane	2.253	50	193400	46.930	ug/l	100
4) Vinyl Chloride	2.405	62	255152	49.059	ug/l	100
5) Bromomethane	2.826	94	169422	48.699	ug/l	100
6) Chloroethane	2.972	64	168250	49.446	ug/l	100
7) Trichlorofluoromethane	3.308	101	217703	53.389	ug/l	100
8) Diethyl Ether	3.722	74	161055	48.309	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.106	101	221350	49.832	ug/l	100
10) Methyl Iodide	4.307	142	352515	49.273	ug/l	100
11) Tert butyl alcohol	5.216	59	127100	240.595	ug/l	100
12) 1,1-Dichloroethene	4.082	96	255938	50.249	ug/l	100
13) Acrolein	3.929	56	213422	240.790	ug/l	100
14) Allyl chloride	4.704	41	493300	50.363	ug/l	100
15) Acrylonitrile	5.405	53	480718	249.389	ug/l	100
16) Acetone	4.161	43	440757	241.146	ug/l	100
17) Carbon Disulfide	4.423	76	761956	50.614	ug/l	100
18) Methyl Acetate	4.710	43	219594	48.517	ug/l	100
19) Methyl tert-butyl Ether	5.460	73	539886	50.284	ug/l	100
20) Methylene Chloride	4.954	84	303080	46.367	ug/l	100
21) trans-1,2-Dichloroethene	5.466	96	285957	49.100	ug/l	100
22) Diisopropyl ether	6.337	45	987895	49.536	ug/l	100
23) Vinyl Acetate	6.283	43	3459955	253.227	ug/l	100
24) 1,1-Dichloroethane	6.246	63	543885	49.778	ug/l	100
25) 2-Butanone	7.191	43	663205	246.293	ug/l	100
26) 2,2-Dichloropropane	7.185	77	293455	48.192	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	345581	49.660	ug/l	100
28) Bromochloromethane	7.532	49	237900	46.067	ug/l	100
29) Tetrahydrofuran	7.551	42	429579	251.347	ug/l	100
30) Chloroform	7.691	83	525290	49.110	ug/l	100
31) Cyclohexane	7.971	56	486431	48.128	ug/l	100
32) 1,1,1-Trichloroethane	7.892	97	387016	50.649	ug/l	100
36) 1,1-Dichloropropene	8.099	75	382172	51.624	ug/l	100
37) Ethyl Acetate	7.270	43	283001	51.410	ug/l	100
38) Carbon Tetrachloride	8.081	117	334794	50.897	ug/l	100
39) Methylcyclohexane	9.343	83	501951	52.340	ug/l	100
40) Benzene	8.337	78	1206225	50.596	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032409.D
 Acq On : 10 Nov 2025 16:17
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:35:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.496	41	157157	51.970	ug/l	100
42) 1,2-Dichloroethane	8.410	62	353418	50.470	ug/l	100
43) Isopropyl Acetate	8.435	43	506886	52.003	ug/l	100
44) Trichloroethene	9.099	130	280938	50.643	ug/l	100
45) 1,2-Dichloropropane	9.374	63	298715	50.321	ug/l	100
46) Dibromomethane	9.465	93	177243	51.095	ug/l	100
47) Bromodichloromethane	9.654	83	404213	51.082	ug/l	100
48) Methyl methacrylate	9.441	41	254032	54.845	ug/l	100
49) 1,4-Dioxane	9.465	88	51534	1060.466	ug/l #	100
51) 4-Methyl-2-Pentanone	10.209	43	1411536	261.951	ug/l	100
52) Toluene	10.392	92	750381	50.957	ug/l	100
53) t-1,3-Dichloropropene	10.605	75	422565	51.852	ug/l	100
54) cis-1,3-Dichloropropene	10.075	75	485529	51.519	ug/l	100
55) 1,1,2-Trichloroethane	10.788	97	245652	51.620	ug/l	100
56) Ethyl methacrylate	10.648	69	384615	52.675	ug/l	100
57) 1,3-Dichloropropane	10.934	76	438483	51.590	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	947852	243.759	ug/l	100
59) 2-Hexanone	10.971	43	1024540	259.873	ug/l	100
60) Dibromochloromethane	11.129	129	268368	50.499	ug/l	100
61) 1,2-Dibromoethane	11.239	107	235648	50.842	ug/l	100
64) Tetrachloroethene	10.867	164	221732	50.729	ug/l	100
65) Chlorobenzene	11.654	112	836572	52.585	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.727	131	249919	50.760	ug/l	100
67) Ethyl Benzene	11.727	91	1434522	52.113	ug/l	100
68) m/p-Xylenes	11.836	106	1080126	104.508	ug/l	100
69) o-Xylene	12.166	106	503049	50.833	ug/l	100
70) Styrene	12.178	104	891578	52.373	ug/l	100
71) Bromoform	12.349	173	149754	51.352	ug/l	100
73) Isopropylbenzene	12.464	105	1311412	54.022	ug/l	100
74) N-amyl acetate	12.269	43	463709	54.971	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.714	83	306330	53.171	ug/l	100
76) 1,2,3-Trichloropropane	12.763	75	221825m	48.938	ug/l	
77) Bromobenzene	12.745	156	311375	54.174	ug/l	100
78) n-propylbenzene	12.800	91	1592697	53.874	ug/l	100
79) 2-Chlorotoluene	12.891	91	949870	52.633	ug/l	100
80) 1,3,5-Trimethylbenzene	12.940	105	1071434	53.498	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.513	75	108494	54.830	ug/l	100
82) 4-Chlorotoluene	12.983	91	994389	52.976	ug/l	100
83) tert-Butylbenzene	13.202	119	952056	54.647	ug/l	100
84) 1,2,4-Trimethylbenzene	13.245	105	1087654	53.395	ug/l	100
85) sec-Butylbenzene	13.379	105	1387291	53.468	ug/l	100
86) p-Isopropyltoluene	13.495	119	1135093	52.985	ug/l	100
87) 1,3-Dichlorobenzene	13.495	146	568988	52.213	ug/l	100
88) 1,4-Dichlorobenzene	13.574	146	586517	52.535	ug/l	100
89) n-Butylbenzene	13.818	91	1119974	53.512	ug/l	100
90) Hexachloroethane	14.086	117	206125	53.365	ug/l	100
91) 1,2-Dichlorobenzene	13.867	146	510688	51.050	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.482	75	52673	53.072	ug/l	100
93) 1,2,4-Trichlorobenzene	15.129	180	341171	53.593	ug/l	100
94) Hexachlorobutadiene	15.226	225	139533	52.766	ug/l	100
95) Naphthalene	15.360	128	858633	54.088	ug/l	100
96) 1,2,3-Trichlorobenzene	15.549	180	297797	51.526	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032409.D
Acq On : 10 Nov 2025 16:17
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:35:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

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

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

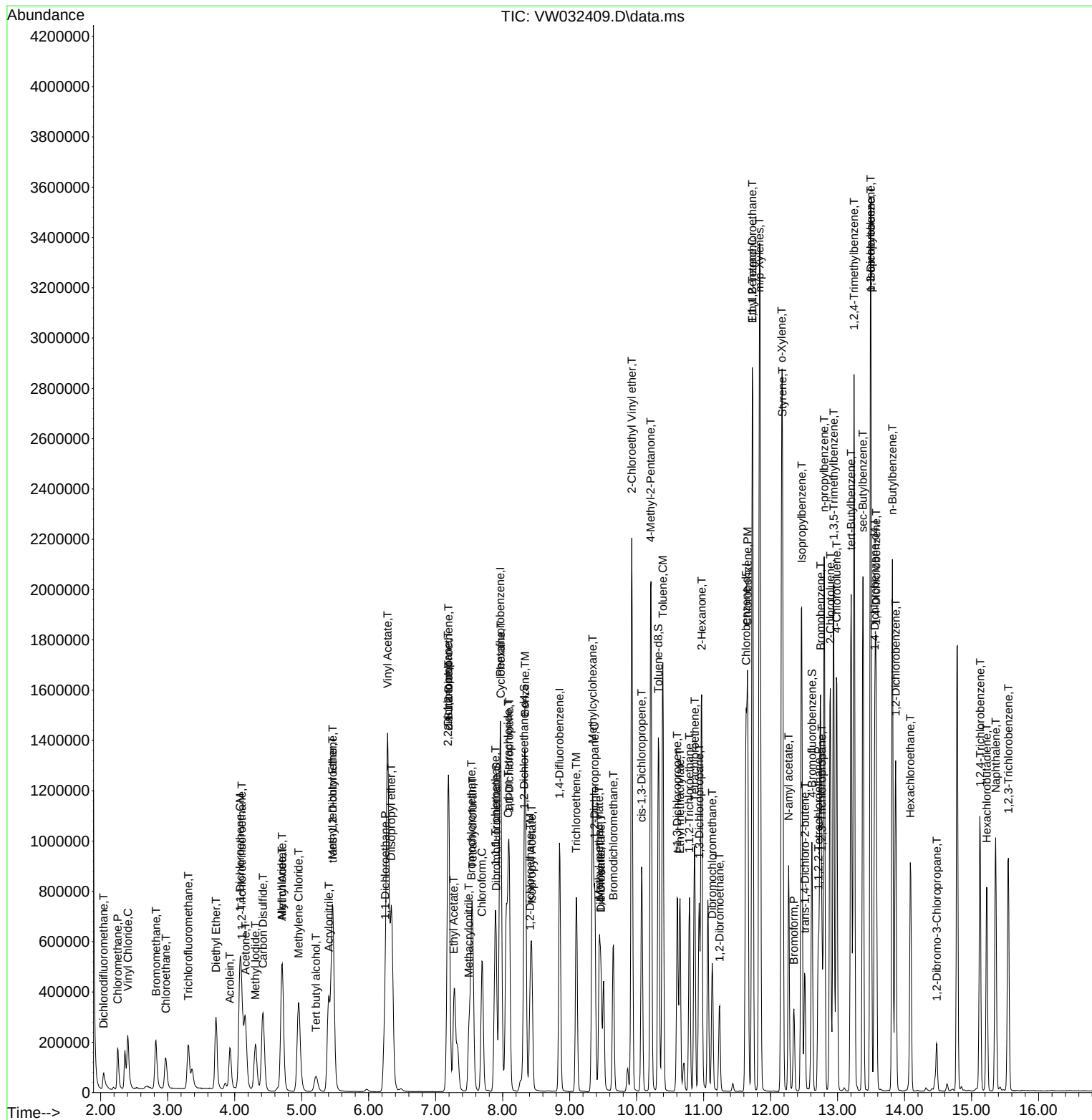
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032409.D
 Acq On : 10 Nov 2025 16:17
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:35:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032410.D
 Acq On : 10 Nov 2025 16:39
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:36:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	429725	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	800384	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	693653	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	316801	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	550189	99.309	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 198.620%#			
35) Dibromofluoromethane	7.898	113	474936	99.108	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 198.220%#			
50) Toluene-d8	10.324	98	1818950	98.942	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 197.880%#			
62) 4-Bromofluorobenzene	12.617	95	681369	98.113	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 196.220%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.045	85	209198	95.054	ug/l	97
3) Chloromethane	2.253	50	376296	100.692	ug/l	100
4) Vinyl Chloride	2.405	62	466906	98.996	ug/l	96
5) Bromomethane	2.820	94	312741	99.129	ug/l	99
6) Chloroethane	2.966	64	310998	100.786	ug/l	99
7) Trichlorofluoromethane	3.307	101	379643	102.667	ug/l	95
8) Diethyl Ether	3.722	74	301478	99.719	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.106	101	393269	97.631	ug/l	100
10) Methyl Iodide	4.307	142	670896	103.409	ug/l	97
11) Tert butyl alcohol	5.216	59	233477	487.365	ug/l	99
12) 1,1-Dichloroethene	4.076	96	462998	100.240	ug/l	98
13) Acrolein	3.929	56	403577	502.106	ug/l	100
14) Allyl chloride	4.703	41	915284	103.044	ug/l	99
15) Acrylonitrile	5.405	53	878664	502.664	ug/l	100
16) Acetone	4.161	43	816608	492.679	ug/l	99
17) Carbon Disulfide	4.417	76	1412864	103.493	ug/l	98
18) Methyl Acetate	4.710	43	409034	99.655	ug/l	100
19) Methyl tert-butyl Ether	5.466	73	967405	99.359	ug/l	99
20) Methylene Chloride	4.953	84	565294	95.367	ug/l	97
21) trans-1,2-Dichloroethene	5.459	96	536141	101.514	ug/l	99
22) Diisopropyl ether	6.343	45	1834328	101.428	ug/l	93
23) Vinyl Acetate	6.282	43	6417015	517.894	ug/l	98
24) 1,1-Dichloroethane	6.246	63	1003793	101.307	ug/l	99
25) 2-Butanone	7.191	43	1219983	499.605	ug/l	99
26) 2,2-Dichloropropane	7.191	77	540572	97.893	ug/l	98
27) cis-1,2-Dichloroethene	7.191	96	642856	101.868	ug/l	99
28) Bromochloromethane	7.532	49	462255	98.707	ug/l	98
29) Tetrahydrofuran	7.551	42	781708	504.365	ug/l	100
30) Chloroform	7.697	83	980958	101.132	ug/l	98
31) Cyclohexane	7.971	56	861642	94.009	ug/l	98
32) 1,1,1-Trichloroethane	7.886	97	701923	101.298	ug/l	100
36) 1,1-Dichloropropene	8.099	75	697975	98.854	ug/l	99
37) Ethyl Acetate	7.270	43	511684	97.458	ug/l	99
38) Carbon Tetrachloride	8.087	117	617665	98.453	ug/l	98
39) Methylcyclohexane	9.343	83	898941	98.279	ug/l	93
40) Benzene	8.337	78	2261437	99.457	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032410.D
 Acq On : 10 Nov 2025 16:39
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:36:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	292045	101.259	ug/l	98
42) 1,2-Dichloroethane	8.410	62	655360	98.125	ug/l	100
43) Isopropyl Acetate	8.434	43	929467	99.979	ug/l	100
44) Trichloroethene	9.099	130	516649	97.647	ug/l	94
45) 1,2-Dichloropropane	9.373	63	560668	99.027	ug/l	98
46) Dibromomethane	9.465	93	322963	97.615	ug/l	99
47) Bromodichloromethane	9.648	83	769561	101.968	ug/l	97
48) Methyl methacrylate	9.440	41	439533	99.494	ug/l	94
49) 1,4-Dioxane	9.459	88	92138	1987.934	ug/l #	97
51) 4-Methyl-2-Pentanone	10.215	43	2535868	493.417	ug/l	100
52) Toluene	10.391	92	1393077	99.188	ug/l	99
53) t-1,3-Dichloropropene	10.605	75	813483	104.660	ug/l	99
54) cis-1,3-Dichloropropene	10.074	75	921332	102.501	ug/l	98
55) 1,1,2-Trichloroethane	10.788	97	445589	98.174	ug/l	97
56) Ethyl methacrylate	10.648	69	718120	103.118	ug/l	99
57) 1,3-Dichloropropane	10.934	76	795798	98.169	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	1907914	514.445	ug/l	100
59) 2-Hexanone	10.971	43	1848731	491.662	ug/l	99
60) Dibromochloromethane	11.129	129	512808	101.174	ug/l	99
61) 1,2-Dibromoethane	11.239	107	434659	98.325	ug/l	99
64) Tetrachloroethene	10.867	164	419713	102.178	ug/l	93
65) Chlorobenzene	11.660	112	1515655	101.377	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.727	131	479510	103.634	ug/l	99
67) Ethyl Benzene	11.727	91	2656753	102.700	ug/l	99
68) m/p-Xylenes	11.836	106	1963495	202.156	ug/l	99
69) o-Xylene	12.166	106	969597	104.258	ug/l	97
70) Styrene	12.178	104	1681973	105.135	ug/l	99
71) Bromoform	12.348	173	284967	103.980	ug/l #	98
73) Isopropylbenzene	12.464	105	2395772	102.968	ug/l	100
74) N-amyl acetate	12.269	43	845015	104.515	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.714	83	551839	99.938	ug/l	99
76) 1,2,3-Trichloropropane	12.769	75	393778m	90.639	ug/l	
77) Bromobenzene	12.745	156	546510	99.206	ug/l	92
78) n-propylbenzene	12.800	91	2892121	102.070	ug/l	99
79) 2-Chlorotoluene	12.891	91	1767116	102.163	ug/l	99
80) 1,3,5-Trimethylbenzene	12.940	105	1955044	101.850	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.513	75	204550	107.855	ug/l	97
82) 4-Chlorotoluene	12.989	91	1810987	100.663	ug/l	99
83) tert-Butylbenzene	13.202	119	1702452	101.956	ug/l	98
84) 1,2,4-Trimethylbenzene	13.251	105	1945604	99.654	ug/l	98
85) sec-Butylbenzene	13.379	105	2472114	99.408	ug/l	100
86) p-Isopropyltoluene	13.495	119	2083658	101.480	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	1051226	100.648	ug/l	98
88) 1,4-Dichlorobenzene	13.574	146	1050230	98.149	ug/l	99
89) n-Butylbenzene	13.818	91	2017115	100.554	ug/l	100
90) Hexachloroethane	14.092	117	379045	102.388	ug/l	97
91) 1,2-Dichlorobenzene	13.866	146	955867	99.694	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.476	75	96032	100.954	ug/l	97
93) 1,2,4-Trichlorobenzene	15.128	180	615828	100.931	ug/l	96
94) Hexachlorobutadiene	15.226	225	255953	100.987	ug/l	98
95) Naphthalene	15.360	128	1638729	107.703	ug/l	99
96) 1,2,3-Trichlorobenzene	15.543	180	557493	100.642	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032410.D
Acq On : 10 Nov 2025 16:39
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:36:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

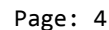
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

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

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032411.D
 Acq On : 10 Nov 2025 17:00
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:37:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	435986	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	797552	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	719357	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	315359	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	823539	146.514	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 293.020%#			
35) Dibromofluoromethane	7.904	113	696957	145.955	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 291.920%#			
50) Toluene-d8	10.325	98	2691800	146.940	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 293.880%#			
62) 4-Bromofluorobenzene	12.617	95	1007366	145.569	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 291.140%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.046	85	300485	134.572	ug/l	98
3) Chloromethane	2.253	50	575315	151.736	ug/l	99
4) Vinyl Chloride	2.405	62	690759	144.355	ug/l	100
5) Bromomethane	2.814	94	468539	146.379	ug/l	97
6) Chloroethane	2.966	64	463613	148.087	ug/l	100
7) Trichlorofluoromethane	3.308	101	591071	157.548	ug/l	95
8) Diethyl Ether	3.716	74	454616	148.213	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.100	101	586837	143.593	ug/l	100
10) Methyl Iodide	4.301	142	977057	148.436	ug/l	98
11) Tert butyl alcohol	5.216	59	341966	703.576	ug/l	99
12) 1,1-Dichloroethene	4.076	96	684456	146.058	ug/l	95
13) Acrolein	3.930	56	599820	735.542	ug/l	97
14) Allyl chloride	4.704	41	1348651	149.653	ug/l	99
15) Acrylonitrile	5.399	53	1304835	735.748	ug/l	100
16) Acetone	4.161	43	1231978	732.607	ug/l	98
17) Carbon Disulfide	4.417	76	2097048	151.404	ug/l	99
18) Methyl Acetate	4.704	43	637225	153.021	ug/l	100
19) Methyl tert-butyl Ether	5.460	73	1407972	142.531	ug/l	98
20) Methylene Chloride	4.954	84	823132	136.871	ug/l	99
21) trans-1,2-Dichloroethene	5.460	96	782759	146.081	ug/l	96
22) Diisopropyl ether	6.338	45	2672365	145.645	ug/l	99
23) Vinyl Acetate	6.283	43	9418125	749.187	ug/l	99
24) 1,1-Dichloroethane	6.246	63	1487877	148.007	ug/l	99
25) 2-Butanone	7.191	43	1820645	734.880	ug/l	99
26) 2,2-Dichloropropane	7.185	77	774362	138.217	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	946132	147.772	ug/l	99
28) Bromochloromethane	7.533	49	689075	145.028	ug/l #	16
29) Tetrahydrofuran	7.551	42	1147539	729.769	ug/l	100
30) Chloroform	7.691	83	1443061	146.635	ug/l	99
31) Cyclohexane	7.972	56	1276256	137.246	ug/l	98
32) 1,1,1-Trichloroethane	7.886	97	1016260	144.555	ug/l	98
36) 1,1-Dichloropropene	8.093	75	1045183	148.554	ug/l	99
37) Ethyl Acetate	7.270	43	758180	144.920	ug/l	100
38) Carbon Tetrachloride	8.081	117	935129	149.585	ug/l	98
39) Methylcyclohexane	9.343	83	1368173	150.110	ug/l	94
40) Benzene	8.337	78	3302092	145.740	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032411.D
 Acq On : 10 Nov 2025 17:00
 Operator : SY/MD
 Sample : VSTDICC150
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:37:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:33:05 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	439701	152.996	ug/l	98
42) 1,2-Dichloroethane	8.410	62	977444	146.870	ug/l	100
43) Isopropyl Acetate	8.435	43	1401399	151.278	ug/l	100
44) Trichloroethene	9.099	130	771901	146.409	ug/l	95
45) 1,2-Dichloropropane	9.374	63	828599	146.870	ug/l	98
46) Dibromomethane	9.465	93	477479	144.830	ug/l	97
47) Bromodichloromethane	9.648	83	1152120	153.199	ug/l	97
48) Methyl methacrylate	9.441	41	706671	160.532	ug/l	100
49) 1,4-Dioxane	9.459	88	132273	2864.004	ug/l #	100
51) 4-Methyl-2-Pentanone	10.209	43	3720409	726.470	ug/l	99
52) Toluene	10.392	92	2054324	146.788	ug/l	97
53) t-1,3-Dichloropropene	10.611	75	1212474	156.547	ug/l	98
54) cis-1,3-Dichloropropene	10.075	75	1373940	153.398	ug/l	99
55) 1,1,2-Trichloroethane	10.788	97	661729	146.312	ug/l	98
56) Ethyl methacrylate	10.648	69	1077015	155.202	ug/l	99
57) 1,3-Dichloropropane	10.934	76	1184554	146.644	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	2815169	761.770	ug/l	100
59) 2-Hexanone	10.971	43	2707666	722.649	ug/l	99
60) Dibromochloromethane	11.130	129	771162	152.685	ug/l	98
61) 1,2-Dibromoethane	11.233	107	650672	147.713	ug/l	97
64) Tetrachloroethene	10.867	164	618662	145.230	ug/l	88
65) Chlorobenzene	11.654	112	2207255	142.361	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.727	131	706156	147.164	ug/l	99
67) Ethyl Benzene	11.727	91	3839407	143.114	ug/l	97
68) m/p-Xylenes	11.837	106	2923713	290.261	ug/l	96
69) o-Xylene	12.166	106	1409302	146.124	ug/l	97
70) Styrene	12.178	104	2411726	145.364	ug/l	99
71) Bromoform	12.349	173	423010	148.835	ug/l #	95
73) Isopropylbenzene	12.459	105	3489900	150.679	ug/l	99
74) N-amyl acetate	12.270	43	1227847	152.560	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.715	83	786139	143.021	ug/l	98
76) 1,2,3-Trichloropropane	12.763	75	573471m	132.604	ug/l	
77) Bromobenzene	12.745	156	813648	148.374	ug/l	97
78) n-propylbenzene	12.800	91	4246088	150.540	ug/l	99
79) 2-Chlorotoluene	12.891	91	2572090	149.381	ug/l	100
80) 1,3,5-Trimethylbenzene	12.940	105	2817712	147.463	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.507	75	307315	162.783	ug/l	96
82) 4-Chlorotoluene	12.983	91	2684128	149.879	ug/l	100
83) tert-Butylbenzene	13.202	119	2490454	149.829	ug/l	96
84) 1,2,4-Trimethylbenzene	13.245	105	2901660	149.302	ug/l	100
85) sec-Butylbenzene	13.379	105	3673311	148.386	ug/l	100
86) p-Isopropyltoluene	13.495	119	3073760	150.385	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	1509962	145.231	ug/l	98
88) 1,4-Dichlorobenzene	13.574	146	1515160	142.246	ug/l	97
89) n-Butylbenzene	13.818	91	3032908	151.884	ug/l	99
90) Hexachloroethane	14.086	117	584015	158.476	ug/l	98
91) 1,2-Dichlorobenzene	13.867	146	1407554	147.475	ug/l	94
92) 1,2-Dibromo-3-Chloropr...	14.476	75	145307	153.453	ug/l	94
93) 1,2,4-Trichlorobenzene	15.129	180	938399	154.502	ug/l	98
94) Hexachlorobutadiene	15.232	225	391549	155.194	ug/l	96
95) Naphthalene	15.360	128	2339043	154.434	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	856827	155.386	ug/l	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032411.D
Acq On : 10 Nov 2025 17:00
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:37:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:33:05 2025
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032411.D
 Acq On : 10 Nov 2025 17:00
 Operator : SY/MD
 Sample : VSTDIC150
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC150

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/11/2025

Supervised By :Semsettin Yesilyurt 11/11/2025

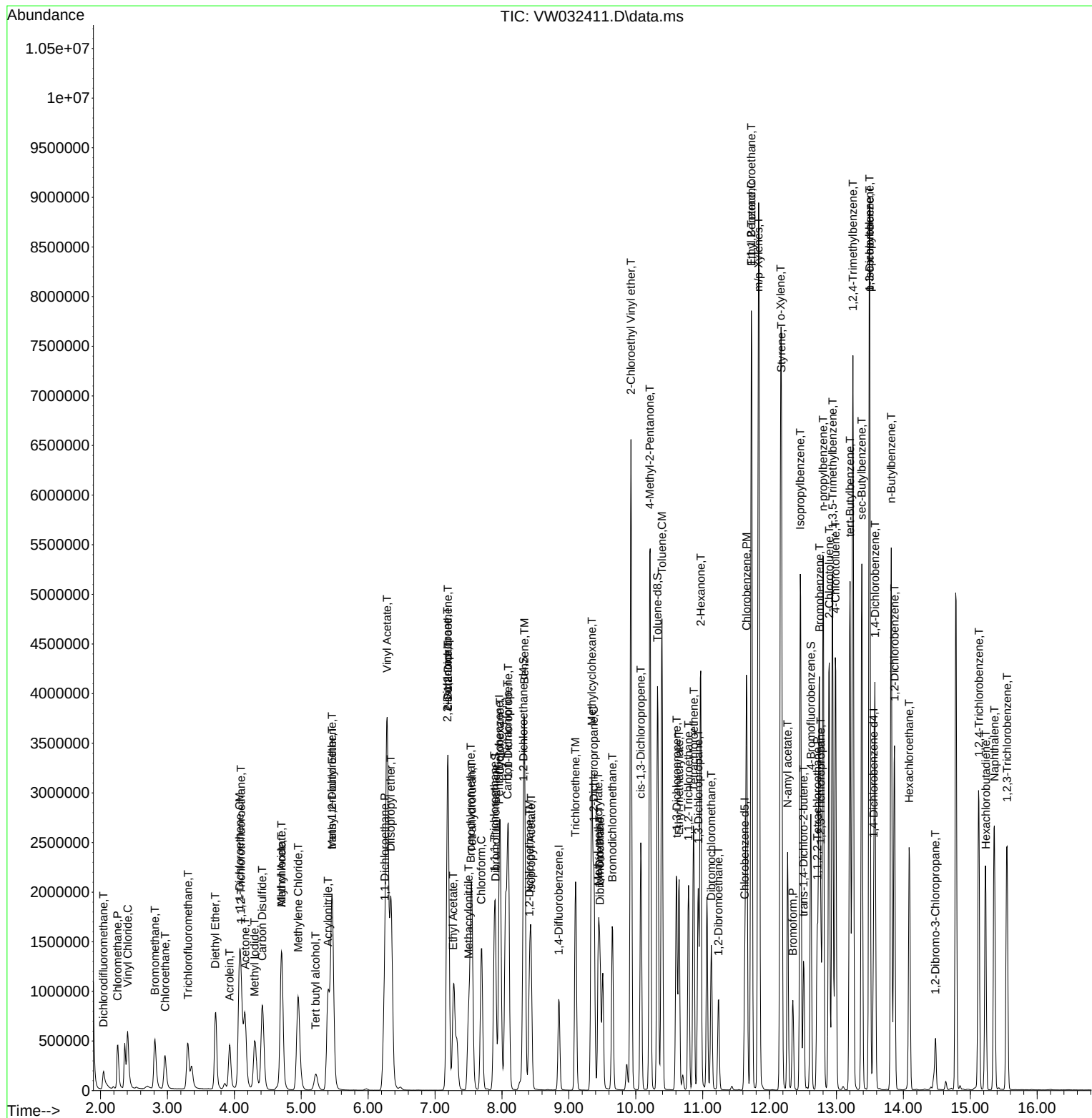
Quant Time: Nov 11 03:37:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M

Quant Title : SW846 8260

QLast Update : Tue Nov 11 03:33:05 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032413.D
 Acq On : 10 Nov 2025 17:44
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ICVVW111025

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:51:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	457772	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	826297	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.636	117	742649	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	335568	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	292374	49.540	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	99.080%		
35) Dibromofluoromethane	7.898	113	246711	49.868	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	99.740%		
50) Toluene-d8	10.325	98	943721	49.724	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	99.440%		
62) 4-Bromofluorobenzene	12.617	95	362720	50.591	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	101.180%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.046	85	103260	44.460	ug/l	97
3) Chloromethane	2.253	50	191682	48.149	ug/l	100
4) Vinyl Chloride	2.405	62	236975	47.166	ug/l	95
5) Bromomethane	2.826	94	161727	48.121	ug/l	98
6) Chloroethane	2.966	64	157091	47.790	ug/l	99
7) Trichlorofluoromethane	3.308	101	198210	50.318	ug/l	93
8) Diethyl Ether	3.722	74	155105	48.160	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.106	101	203133	47.339	ug/l	99
10) Methyl Iodide	4.314	142	345049	49.926	ug/l	97
11) Tert butyl alcohol	5.210	59	123907	242.799	ug/l	100
12) 1,1-Dichloroethene	4.082	96	232539	47.260	ug/l	97
13) Acrolein	3.930	56	205590	240.111	ug/l	100
14) Allyl chloride	4.710	41	463711	49.007	ug/l	99
15) Acrylonitrile	5.405	53	461322	247.743	ug/l	100
16) Acetone	4.161	43	446031	252.613	ug/l	99
17) Carbon Disulfide	4.423	76	712178	48.971	ug/l	99
18) Methyl Acetate	4.710	43	222685	50.930	ug/l	98
19) Methyl tert-butyl Ether	5.466	73	521562	50.286	ug/l	99
20) Methylene Chloride	4.960	84	292767	46.365	ug/l	96
21) trans-1,2-Dichloroethene	5.460	96	264891	47.082	ug/l	99
22) Diisopropyl ether	6.338	45	949736	49.298	ug/l	99
23) Vinyl Acetate	6.283	43	3293228	249.500	ug/l	99
24) 1,1-Dichloroethane	6.246	63	510813	48.395	ug/l	98
25) 2-Butanone	7.191	43	649663	249.748	ug/l	100
26) 2,2-Dichloropropane	7.191	77	278144	47.283	ug/l	99
27) cis-1,2-Dichloroethene	7.191	96	326672	48.593	ug/l	100
28) Bromochloromethane	7.533	49	238363	47.780	ug/l	97
29) Tetrahydrofuran	7.551	42	415747	251.809	ug/l	99
30) Chloroform	7.697	83	496469	48.047	ug/l	98
31) Cyclohexane	7.972	56	441733	45.242	ug/l	99
32) 1,1,1-Trichloroethane	7.892	97	359677	48.726	ug/l	100
36) 1,1-Dichloropropene	8.100	75	354738	48.666	ug/l	99
37) Ethyl Acetate	7.277	43	273800	50.514	ug/l	99
38) Carbon Tetrachloride	8.087	117	311936	48.162	ug/l	96
39) Methylcyclohexane	9.343	83	450888	47.748	ug/l	89
40) Benzene	8.337	78	1144488	48.756	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032413.D
 Acq On : 10 Nov 2025 17:44
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ICVVW111025

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/11/2025
 Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:51:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	152683	51.279	ug/l	98
42) 1,2-Dichloroethane	8.410	62	338257	49.058	ug/l	99
43) Isopropyl Acetate	8.435	43	482186	50.240	ug/l	100
44) Trichloroethene	9.099	130	256771	47.008	ug/l	98
45) 1,2-Dichloropropane	9.374	63	284966	48.753	ug/l	100
46) Dibromomethane	9.465	93	170725	49.983	ug/l	97
47) Bromodichloromethane	9.648	83	381617	48.979	ug/l	96
48) Methyl methacrylate	9.441	41	226548	49.674	ug/l	95
49) 1,4-Dioxane	9.465	88	46205	965.638	ug/l #	99
51) 4-Methyl-2-Pentanone	10.209	43	1355743	255.521	ug/l	99
52) Toluene	10.392	92	697639	48.115	ug/l	98
53) t-1,3-Dichloropropene	10.611	75	398178	49.622	ug/l	100
54) cis-1,3-Dichloropropene	10.075	75	460102	49.583	ug/l	97
55) 1,1,2-Trichloroethane	10.788	97	223598	47.719	ug/l	98
56) Ethyl methacrylate	10.648	69	367486	51.114	ug/l	99
57) 1,3-Dichloropropane	10.934	76	411537	49.175	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	949029	247.869	ug/l	99
59) 2-Hexanone	10.965	43	984290	253.559	ug/l	100
60) Dibromochloromethane	11.129	129	255752	48.876	ug/l	98
61) 1,2-Dibromoethane	11.233	107	225223	49.350	ug/l	99
64) Tetrachloroethene	10.861	164	210025	47.757	ug/l	90
65) Chlorobenzene	11.654	112	772847	48.283	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.727	131	234293	47.296	ug/l	97
67) Ethyl Benzene	11.727	91	1336202	48.245	ug/l	95
68) m/p-Xylenes	11.837	106	1020533	98.139	ug/l	99
69) o-Xylene	12.166	106	485568	48.767	ug/l	98
70) Styrene	12.178	104	858740	50.136	ug/l	98
71) Bromoform	12.349	173	147519	50.276	ug/l #	95
73) Isopropylbenzene	12.459	105	1201571	48.754	ug/l	99
74) N-amyl acetate	12.270	43	439444	51.313	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.715	83	289144	49.435	ug/l	99
76) 1,2,3-Trichloropropane	12.763	75	209388m	45.507	ug/l	
77) Bromobenzene	12.745	156	290897	49.852	ug/l	98
78) n-propylbenzene	12.800	91	1506843	50.206	ug/l	98
79) 2-Chlorotoluene	12.891	91	908334	49.577	ug/l	98
80) 1,3,5-Trimethylbenzene	12.940	105	1005706	49.463	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.507	75	102563	51.055	ug/l	99
82) 4-Chlorotoluene	12.983	91	944717	49.575	ug/l	99
83) tert-Butylbenzene	13.202	119	883415	49.947	ug/l	99
84) 1,2,4-Trimethylbenzene	13.245	105	1029723	49.793	ug/l	100
85) sec-Butylbenzene	13.379	105	1278459	48.534	ug/l	98
86) p-Isopropyltoluene	13.495	119	1070542	49.222	ug/l	100
87) 1,3-Dichlorobenzene	13.495	146	546952	49.439	ug/l	97
88) 1,4-Dichlorobenzene	13.574	146	549573	48.488	ug/l	99
89) n-Butylbenzene	13.818	91	1036054	48.759	ug/l	99
90) Hexachloroethane	14.086	117	191658	48.875	ug/l	99
91) 1,2-Dichlorobenzene	13.867	146	491597	48.405	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.476	75	50261	49.882	ug/l	99
93) 1,2,4-Trichlorobenzene	15.123	180	322348	49.877	ug/l	96
94) Hexachlorobutadiene	15.232	225	137633	51.267	ug/l	97
95) Naphthalene	15.360	128	806082	50.016	ug/l	99
96) 1,2,3-Trichlorobenzene	15.543	180	290012	49.427	ug/l	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032413.D
Acq On : 10 Nov 2025 17:44
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVW111025

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:51:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

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

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

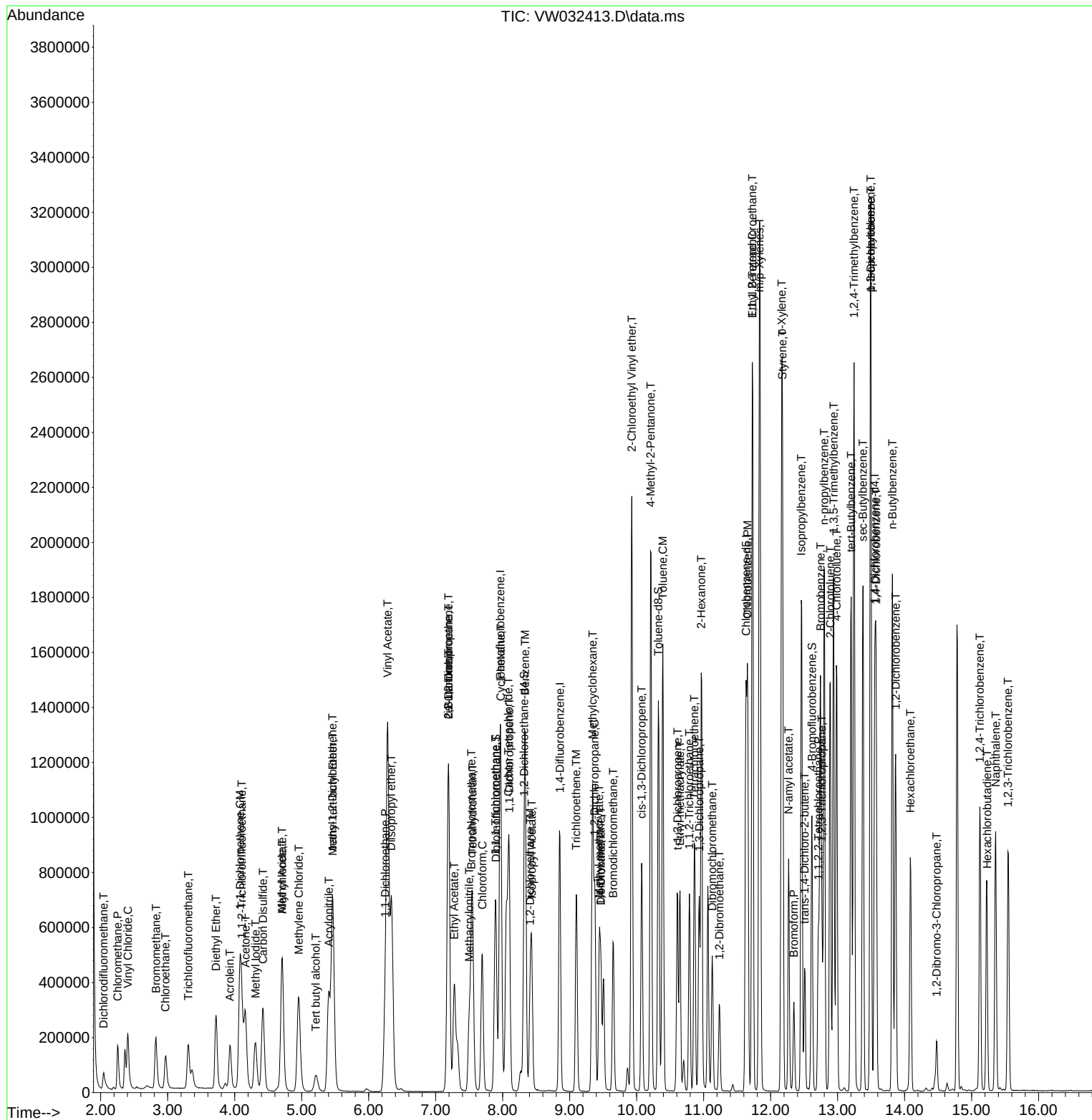
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032413.D
Acq On : 10 Nov 2025 17:44
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVW111025

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/11/2025
Supervised By :Semsettin Yesilyurt 11/11/2025

Quant Time: Nov 11 03:51:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032413.D
 Acq On : 10 Nov 2025 17:44
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ICVVW111025

Quant Time: Nov 11 03:51:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	97	0.00
2 T	Dichlorodifluoromethane	0.254	0.226	11.0	88	0.00
3 P	Chloromethane	0.435	0.419	3.7	99	0.00
4 C	Vinyl Chloride	0.549	0.518	5.6#	93	0.00
5 T	Bromomethane	0.367	0.353	3.8	95	0.00
6 T	Chloroethane	0.359	0.343	4.5	93	0.00
7 T	Trichlorofluoromethane	0.430	0.433	-0.7	91	0.00
8 T	Diethyl Ether	0.352	0.339	3.7	96	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.469	0.444	5.3	92	0.00
10 T	Methyl Iodide	0.755	0.754	0.1	98	0.00
11 T	Tert butyl alcohol	0.056	0.054	3.6	97	0.00
12 CM	1,1-Dichloroethene	0.537	0.508	5.4#	91	0.00
13 T	Acrolein	0.094	0.090	4.3	96	0.00
14 T	Allyl chloride	1.034	1.013	2.0	94	0.00
15 T	Acrylonitrile	0.203	0.202	0.5	96	0.00
16 T	Acetone	0.193	0.195	-1.0	101	0.00
17 T	Carbon Disulfide	1.588	1.556	2.0	93	0.00
18 T	Methyl Acetate	0.478	0.486	-1.7	101	0.00
19 T	Methyl tert-butyl Ether	1.133	1.139	-0.5	97	0.00
20 T	Methylene Chloride	0.690	0.640	7.2	97	0.00
21 T	trans-1,2-Dichloroethene	0.615	0.579	5.9	93	0.00
22 T	Diisopropyl ether	2.104	2.075	1.4	96	0.00
23 T	Vinyl Acetate	1.442	1.439	0.2	95	0.00
24 P	1,1-Dichloroethane	1.153	1.116	3.2	94	0.00
25 T	2-Butanone	0.284	0.284	0.0	98	0.00
26 T	2,2-Dichloropropane	0.643	0.608	5.4	95	0.00
27 T	cis-1,2-Dichloroethene	0.734	0.714	2.7	95	0.00
28 T	Bromochloromethane	0.545	0.521	4.4	100	0.00
29 T	Tetrahydrofuran	0.180	0.182	-1.1	97	0.00
30 C	Chloroform	1.129	1.085	3.9#	95	0.00
31 T	Cyclohexane	1.066	0.965	9.5	91	0.00
32 T	1,1,1-Trichloroethane	0.806	0.786	2.5	93	0.00
33 S	1,2-Dichloroethane-d4	0.645	0.639	0.9	102	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
35 S	Dibromofluoromethane	0.299	0.299	0.0	102	0.00
36 T	1,1-Dichloropropene	0.441	0.429	2.7	93	0.00
37 T	Ethyl Acetate	0.328	0.331	-0.9	97	0.00
38 T	Carbon Tetrachloride	0.392	0.378	3.6	93	0.00
39 T	Methylcyclohexane	0.571	0.546	4.4	90	0.00
40 TM	Benzene	1.420	1.385	2.5	95	0.00
41 T	Methacrylonitrile	0.180	0.185	-2.8	97	0.00
42 TM	1,2-Dichloroethane	0.417	0.409	1.9	96	0.00
43 T	Isopropyl Acetate	0.581	0.584	-0.5	95	0.00
44 TM	Trichloroethene	0.331	0.311	6.0	91	0.00
45 C	1,2-Dichloropropane	0.354	0.345	2.5#	95	0.00
46 T	Dibromomethane	0.207	0.207	0.0	96	0.00
47 T	Bromodichloromethane	0.471	0.462	1.9	94	0.00
48 T	Methyl methacrylate	0.276	0.274	0.7	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032413.D
 Acq On : 10 Nov 2025 17:44
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ICVVW111025

Quant Time: Nov 11 03:51:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.003	0.003	0.0	90	0.00
50 S	Toluene-d8	1.148	1.142	0.5	99	0.00
51 T	4-Methyl-2-Pentanone	0.321	0.328	-2.2	96	0.00
52 CM	Toluene	0.877	0.844	3.8#	93	0.00
53 T	t-1,3-Dichloropropene	0.486	0.482	0.8	94	0.00
54 T	cis-1,3-Dichloropropene	0.562	0.557	0.9	95	0.00
55 T	1,1,2-Trichloroethane	0.284	0.271	4.6	91	0.00
56 T	Ethyl methacrylate	0.435	0.445	-2.3	96	0.00
57 T	1,3-Dichloropropane	0.506	0.498	1.6	94	0.00
58 T	2-Chloroethyl Vinyl ether	0.232	0.230	0.9	100	0.00
59 T	2-Hexanone	0.235	0.238	-1.3	96	0.00
60 T	Dibromochloromethane	0.317	0.310	2.2	95	0.00
61 T	1,2-Dibromoethane	0.276	0.273	1.1	96	0.00
62 S	4-Bromofluorobenzene	0.434	0.439	-1.2	104	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64 T	Tetrachloroethene	0.296	0.283	4.4	95	0.00
65 PM	Chlorobenzene	1.078	1.041	3.4	92	0.00
66 T	1,1,1,2-Tetrachloroethane	0.334	0.315	5.7	94	0.00
67 C	Ethyl Benzene	1.865	1.799	3.5#	93	0.00
68 T	m/p-Xylenes	0.700	0.687	1.9	94	0.00
69 T	o-Xylene	0.670	0.654	2.4	97	0.00
70 T	Styrene	1.153	1.156	-0.3	96	0.00
71 P	Bromoform	0.198	0.199	-0.5	99	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
73 T	Isopropylbenzene	3.672	3.581	2.5	92	0.00
74 T	N-amyl acetate	1.276	1.310	-2.7	95	0.00
75 P	1,1,2,2-Tetrachloroethane	0.871	0.862	1.0	94	0.00
76 T	1,2,3-Trichloropropane	0.686	0.624	9.0	94	0.00
77 T	Bromobenzene	0.869	0.867	0.2	93	0.00
78 T	n-propylbenzene	4.472	4.490	-0.4	95	0.00
79 T	2-Chlorotoluene	2.730	2.707	0.8	96	0.00
80 T	1,3,5-Trimethylbenzene	3.030	2.997	1.1	94	0.00
81 T	trans-1,4-Dichloro-2-butene	0.299	0.306	-2.3	95	0.00
82 T	4-Chlorotoluene	2.839	2.815	0.8	95	0.00
83 T	tert-Butylbenzene	2.635	2.633	0.1	93	0.00
84 T	1,2,4-Trimethylbenzene	3.081	3.069	0.4	95	0.00
85 T	sec-Butylbenzene	3.925	3.810	2.9	92	0.00
86 T	p-Isopropyltoluene	3.241	3.190	1.6	94	0.00
87 T	1,3-Dichlorobenzene	1.648	1.630	1.1	96	0.00
88 T	1,4-Dichlorobenzene	1.689	1.638	3.0	94	0.00
89 T	n-Butylbenzene	3.166	3.087	2.5	93	0.00
90 T	Hexachloroethane	0.584	0.571	2.2	93	0.00
91 T	1,2-Dichlorobenzene	1.513	1.465	3.2	96	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.150	0.150	0.0	95	0.00
93 T	1,2,4-Trichlorobenzene	0.963	0.961	0.2	94	0.00
94 T	Hexachlorobutadiene	0.400	0.410	-2.5	99	0.00
95 T	Naphthalene	2.401	2.402	-0.0	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032413.D
Acq On : 10 Nov 2025 17:44
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVWV111025

Quant Time: Nov 11 03:51:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.874	0.864	1.1	97	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032413.D
 Acq On : 10 Nov 2025 17:44
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ICVWVW111025

Quant Time: Nov 11 03:51:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	97	0.00
2 T	Dichlorodifluoromethane	50.000	44.460	11.1	88	0.00
3 P	Chloromethane	50.000	48.149	3.7	99	0.00
4 C	Vinyl Chloride	50.000	47.166	5.7#	93	0.00
5 T	Bromomethane	50.000	48.121	3.8	95	0.00
6 T	Chloroethane	50.000	47.790	4.4	93	0.00
7 T	Trichlorofluoromethane	50.000	50.318	-0.6	91	0.00
8 T	Diethyl Ether	50.000	48.160	3.7	96	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	47.339	5.3	92	0.00
10 T	Methyl Iodide	50.000	49.926	0.1	98	0.00
11 T	Tert butyl alcohol	250.000	242.799	2.9	97	0.00
12 CM	1,1-Dichloroethene	50.000	47.260	5.5#	91	0.00
13 T	Acrolein	250.000	240.111	4.0	96	0.00
14 T	Allyl chloride	50.000	49.007	2.0	94	0.00
15 T	Acrylonitrile	250.000	247.743	0.9	96	0.00
16 T	Acetone	250.000	252.613	-1.0	101	0.00
17 T	Carbon Disulfide	50.000	48.971	2.1	93	0.00
18 T	Methyl Acetate	50.000	50.930	-1.9	101	0.00
19 T	Methyl tert-butyl Ether	50.000	50.286	-0.6	97	0.00
20 T	Methylene Chloride	50.000	46.365	7.3	97	0.00
21 T	trans-1,2-Dichloroethene	50.000	47.082	5.8	93	0.00
22 T	Diisopropyl ether	50.000	49.298	1.4	96	0.00
23 T	Vinyl Acetate	250.000	249.500	0.2	95	0.00
24 P	1,1-Dichloroethane	50.000	48.395	3.2	94	0.00
25 T	2-Butanone	250.000	249.748	0.1	98	0.00
26 T	2,2-Dichloropropane	50.000	47.283	5.4	95	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.593	2.8	95	0.00
28 T	Bromochloromethane	50.000	47.780	4.4	100	0.00
29 T	Tetrahydrofuran	250.000	251.809	-0.7	97	0.00
30 C	Chloroform	50.000	48.047	3.9#	95	0.00
31 T	Cyclohexane	50.000	45.242	9.5	91	0.00
32 T	1,1,1-Trichloroethane	50.000	48.726	2.5	93	0.00
33 S	1,2-Dichloroethane-d4	50.000	49.540	0.9	102	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	98	0.00
35 S	Dibromofluoromethane	50.000	49.868	0.3	102	0.00
36 T	1,1-Dichloropropene	50.000	48.666	2.7	93	0.00
37 T	Ethyl Acetate	50.000	50.514	-1.0	97	0.00
38 T	Carbon Tetrachloride	50.000	48.162	3.7	93	0.00
39 T	Methylcyclohexane	50.000	47.748	4.5	90	0.00
40 TM	Benzene	50.000	48.756	2.5	95	0.00
41 T	Methacrylonitrile	50.000	51.279	-2.6	97	0.00
42 TM	1,2-Dichloroethane	50.000	49.058	1.9	96	0.00
43 T	Isopropyl Acetate	50.000	50.240	-0.5	95	0.00
44 TM	Trichloroethene	50.000	47.008	6.0	91	0.00
45 C	1,2-Dichloropropane	50.000	48.753	2.5#	95	0.00
46 T	Dibromomethane	50.000	49.983	0.0	96	0.00
47 T	Bromodichloromethane	50.000	48.979	2.0	94	0.00
48 T	Methyl methacrylate	50.000	49.674	0.7	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
 Data File : VW032413.D
 Acq On : 10 Nov 2025 17:44
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ICVVW111025

Quant Time: Nov 11 03:51:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	965.638	3.4	90	0.00
50 S	Toluene-d8	50.000	49.724	0.6	99	0.00
51 T	4-Methyl-2-Pentanone	250.000	255.521	-2.2	96	0.00
52 CM	Toluene	50.000	48.115	3.8#	93	0.00
53 T	t-1,3-Dichloropropene	50.000	49.622	0.8	94	0.00
54 T	cis-1,3-Dichloropropene	50.000	49.583	0.8	95	0.00
55 T	1,1,2-Trichloroethane	50.000	47.719	4.6	91	0.00
56 T	Ethyl methacrylate	50.000	51.114	-2.2	96	0.00
57 T	1,3-Dichloropropane	50.000	49.175	1.7	94	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	247.869	0.9	100	0.00
59 T	2-Hexanone	250.000	253.559	-1.4	96	0.00
60 T	Dibromochloromethane	50.000	48.876	2.2	95	0.00
61 T	1,2-Dibromoethane	50.000	49.350	1.3	96	0.00
62 S	4-Bromofluorobenzene	50.000	50.591	-1.2	104	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64 T	Tetrachloroethene	50.000	47.757	4.5	95	0.00
65 PM	Chlorobenzene	50.000	48.283	3.4	92	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	47.296	5.4	94	0.00
67 C	Ethyl Benzene	50.000	48.245	3.5#	93	0.00
68 T	m/p-Xylenes	100.000	98.139	1.9	94	0.00
69 T	o-Xylene	50.000	48.767	2.5	97	0.00
70 T	Styrene	50.000	50.136	-0.3	96	0.00
71 P	Bromoform	50.000	50.276	-0.6	99	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	102	0.00
73 T	Isopropylbenzene	50.000	48.754	2.5	92	0.00
74 T	N-ethyl acetate	50.000	51.313	-2.6	95	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.435	1.1	94	0.00
76 T	1,2,3-Trichloropropane	50.000	45.507	9.0	94	0.00
77 T	Bromobenzene	50.000	49.852	0.3	93	0.00
78 T	n-propylbenzene	50.000	50.206	-0.4	95	0.00
79 T	2-Chlorotoluene	50.000	49.577	0.8	96	0.00
80 T	1,3,5-Trimethylbenzene	50.000	49.463	1.1	94	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	51.055	-2.1	95	0.00
82 T	4-Chlorotoluene	50.000	49.575	0.8	95	0.00
83 T	tert-Butylbenzene	50.000	49.947	0.1	93	0.00
84 T	1,2,4-Trimethylbenzene	50.000	49.793	0.4	95	0.00
85 T	sec-Butylbenzene	50.000	48.534	2.9	92	0.00
86 T	p-Isopropyltoluene	50.000	49.222	1.6	94	0.00
87 T	1,3-Dichlorobenzene	50.000	49.439	1.1	96	0.00
88 T	1,4-Dichlorobenzene	50.000	48.488	3.0	94	0.00
89 T	n-Butylbenzene	50.000	48.759	2.5	93	0.00
90 T	Hexachloroethane	50.000	48.875	2.3	93	0.00
91 T	1,2-Dichlorobenzene	50.000	48.405	3.2	96	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.882	0.2	95	0.00
93 T	1,2,4-Trichlorobenzene	50.000	49.877	0.2	94	0.00
94 T	Hexachlorobutadiene	50.000	51.267	-2.5	99	0.00
95 T	Naphthalene	50.000	50.016	-0.0	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032413.D
Acq On : 10 Nov 2025 17:44
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVWVW111025

Quant Time: Nov 11 03:51:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	49.427	1.1	97	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>HDRI08</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3649</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>11/18/2025 09:46</u>
Lab File ID:	<u>VW032468.D</u>	Init. Calib. Date(s):	<u>11/10/2025 11/10/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>15:11 17:00</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.254	0.247		-2.76	20
Chloromethane	0.435	0.410	0.1	-5.75	20
Vinyl Chloride	0.549	0.573		4.37	20
Bromomethane	0.367	0.375		2.18	20
Chloroethane	0.359	0.380		5.85	20
Trichlorofluoromethane	0.430	0.445		3.49	20
1,1,2-Trichlorotrifluoroethane	0.469	0.492		4.9	20
1,1-Dichloroethene	0.537	0.549		2.23	20
Acetone	0.193	0.208		7.77	20
Carbon Disulfide	1.588	1.625		2.33	20
Methyl tert-butyl Ether	1.133	1.200		5.91	20
Methyl Acetate	0.478	0.544		13.81	20
Methylene Chloride	0.690	0.704		2.03	20
trans-1,2-Dichloroethene	0.615	0.640		4.07	20
1,1-Dichloroethane	1.153	1.234	0.1	7.03	20
Cyclohexane	1.066	1.052		-1.31	20
2-Butanone	0.284	0.296		4.22	20
Carbon Tetrachloride	0.392	0.418		6.63	20
cis-1,2-Dichloroethene	0.734	0.773		5.31	20
Bromochloromethane	0.545	0.588		7.89	20
Chloroform	1.129	1.213		7.44	20
1,1,1-Trichloroethane	0.806	0.852		5.71	20
Methylcyclohexane	0.571	0.590		3.33	20
Benzene	1.420	1.504		5.91	20
1,2-Dichloroethane	0.417	0.458		9.83	20
Trichloroethene	0.331	0.339		2.42	20
1,2-Dichloropropane	0.354	0.380		7.34	20
Bromodichloromethane	0.471	0.501		6.37	20
4-Methyl-2-Pentanone	0.321	0.360		12.15	20
Toluene	0.877	0.931		6.16	20
t-1,3-Dichloropropene	0.486	0.516		6.17	20
cis-1,3-Dichloropropene	0.562	0.601		6.94	20
1,1,2-Trichloroethane	0.284	0.305		7.39	20
2-Hexanone	0.235	0.255		8.51	20
Dibromochloromethane	0.317	0.346		9.15	20
1,2-Dibromoethane	0.276	0.291		5.43	20
Tetrachloroethene	0.296	0.303		2.37	20
Chlorobenzene	1.078	1.138	0.3	5.57	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>HDRI08</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3649</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>11/18/2025 09:46</u>
Lab File ID:	<u>VW032468.D</u>	Init. Calib. Date(s):	<u>11/10/2025 11/10/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>15:11 17:00</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.865	1.941		4.07	20
m/p-Xylenes	0.700	0.733		4.71	20
o-Xylene	0.670	0.694		3.58	20
Styrene	1.153	1.249		8.33	20
Bromoform	0.198	0.203	0.1	2.53	20
Isopropylbenzene	3.672	3.748		2.07	20
1,1,2,2-Tetrachloroethane	0.871	0.927	0.3	6.43	20
1,3-Dichlorobenzene	1.648	1.713		3.94	20
1,4-Dichlorobenzene	1.689	1.691		0.12	20
1,2-Dichlorobenzene	1.513	1.598		5.62	20
1,2-Dibromo-3-Chloropropane	0.150	0.155		3.33	20
1,2,4-Trichlorobenzene	0.963	0.914		-5.09	20
1,2,3-Trichlorobenzene	0.874	0.850		-2.75	20
1,2-Dichloroethane-d4	0.645	0.695		7.75	20
Dibromofluoromethane	0.299	0.310		3.68	20
Toluene-d8	1.148	1.197		4.27	20
4-Bromofluorobenzene	0.434	0.457		5.3	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_W\Data\VW111825\
 Data File : VW032468.D
 Acq On : 18 Nov 2025 09:46
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:21:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.953	168	361815	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.849	114	661363	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	600329	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	279351	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.313	65	251373	53.889	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 107.780%			
35) Dibromofluoromethane	7.898	113	204750	51.708	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 103.420%			
50) Toluene-d8	10.325	98	791488	52.103	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 104.200%			
62) 4-Bromofluorobenzene	12.617	95	302447	52.705	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 105.400%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.040	85	89228	48.607	ug/l	93
3) Chloromethane	2.253	50	148231	47.110	ug/l	99
4) Vinyl Chloride	2.405	62	207226	52.184	ug/l	98
5) Bromomethane	2.820	94	135648	51.066	ug/l	97
6) Chloroethane	2.966	64	137506	52.926	ug/l	96
7) Trichlorofluoromethane	3.302	101	161132	51.754	ug/l	98
8) Diethyl Ether	3.716	74	133402	52.407	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.100	101	178005	52.485	ug/l	97
10) Methyl Iodide	4.301	142	278915	51.060	ug/l	99
11) Tert butyl alcohol	5.210	59	100305	248.678	ug/l	99
12) 1,1-Dichloroethene	4.076	96	198619	51.072	ug/l	92
13) Acrolein	3.930	56	120834	178.551	ug/l	98
14) Allyl chloride	4.704	41	389538	52.086	ug/l	99
15) Acrylonitrile	5.393	53	397601	270.151	ug/l	99
16) Acetone	4.155	43	376221	269.586	ug/l	99
17) Carbon Disulfide	4.417	76	587827	51.141	ug/l	100
18) Methyl Acetate	4.704	43	196845	56.960	ug/l	98
19) Methyl tert-butyl Ether	5.460	73	434104	52.954	ug/l	99
20) Methylene Chloride	4.948	84	254757	51.045	ug/l	96
21) trans-1,2-Dichloroethene	5.454	96	231569	52.075	ug/l	98
22) Diisopropyl ether	6.338	45	813639	53.434	ug/l	95
23) Vinyl Acetate	6.277	43	2788164	267.258	ug/l	99
24) 1,1-Dichloroethane	6.240	63	446364	53.504	ug/l	99
25) 2-Butanone	7.191	43	535856	260.631	ug/l	98
26) 2,2-Dichloropropane	7.185	77	235710	50.697	ug/l	98
27) cis-1,2-Dichloroethene	7.185	96	279779	52.655	ug/l	98
28) Bromochloromethane	7.526	49	212694	53.942	ug/l	97
29) Tetrahydrofuran	7.551	42	360143	275.981	ug/l	99
30) Chloroform	7.691	83	438755	53.723	ug/l	98
31) Cyclohexane	7.971	56	380474	49.303	ug/l	96
32) 1,1,1-Trichloroethane	7.886	97	308241	52.833	ug/l	98
36) 1,1-Dichloropropene	8.093	75	312041	53.484	ug/l	99
37) Ethyl Acetate	7.270	43	240035	55.329	ug/l	98
38) Carbon Tetrachloride	8.081	117	276301	53.299	ug/l	98
39) Methylcyclohexane	9.343	83	389889	51.586	ug/l	90
40) Benzene	8.331	78	994834	52.949	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032468.D
 Acq On : 18 Nov 2025 09:46
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:21:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.496	41	136068	57.095	ug/l	95
42) 1,2-Dichloroethane	8.410	62	303224	54.944	ug/l	100
43) Isopropyl Acetate	8.429	43	411851	53.613	ug/l	99
44) Trichloroethene	9.099	130	224520	51.355	ug/l	92
45) 1,2-Dichloropropane	9.374	63	251613	53.782	ug/l	97
46) Dibromomethane	9.465	93	146373	53.541	ug/l	98
47) Bromodichloromethane	9.648	83	331569	53.168	ug/l	94
48) Methyl methacrylate	9.441	41	192161	52.642	ug/l	93
49) 1,4-Dioxane	9.459	88	41520	1084.124	ug/l #	99
51) 4-Methyl-2-Pentanone	10.209	43	1190307	280.288	ug/l	99
52) Toluene	10.386	92	615596	53.044	ug/l	98
53) t-1,3-Dichloropropene	10.605	75	341094	53.109	ug/l	100
54) cis-1,3-Dichloropropene	10.075	75	397223	53.482	ug/l	99
55) 1,1,2-Trichloroethane	10.788	97	201824	53.814	ug/l	96
56) Ethyl methacrylate	10.648	69	308598	53.628	ug/l	99
57) 1,3-Dichloropropane	10.934	76	364222	54.374	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.922	63	824892	269.175	ug/l	100
59) 2-Hexanone	10.965	43	842820	271.260	ug/l	99
60) Dibromochloromethane	11.129	129	229117	54.705	ug/l	96
61) 1,2-Dibromoethane	11.233	107	192605	52.728	ug/l	99
64) Tetrachloroethene	10.861	164	181935	51.177	ug/l	93
65) Chlorobenzene	11.660	112	683155	52.797	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.727	131	206652	51.606	ug/l	100
67) Ethyl Benzene	11.727	91	1165404	52.053	ug/l	100
68) m/p-Xylenes	11.837	106	879989	104.685	ug/l	99
69) o-Xylene	12.160	106	416410	51.736	ug/l	100
70) Styrene	12.178	104	749932	54.163	ug/l	98
71) Bromoform	12.349	173	122012	51.441	ug/l	96
73) Isopropylbenzene	12.458	105	1046985	51.031	ug/l	98
74) N-amyl acetate	12.269	43	374507	52.531	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.708	83	259052	53.204	ug/l	100
76) 1,2,3-Trichloropropane	12.763	75	184675m	48.214	ug/l	
77) Bromobenzene	12.745	156	243636	50.156	ug/l	92
78) n-propylbenzene	12.800	91	1304152	52.197	ug/l	99
79) 2-Chlorotoluene	12.885	91	791141	51.870	ug/l	100
80) 1,3,5-Trimethylbenzene	12.940	105	869708	51.383	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.507	75	88381	52.849	ug/l	98
82) 4-Chlorotoluene	12.983	91	825619	52.044	ug/l	98
83) tert-Butylbenzene	13.202	119	748267	50.819	ug/l	98
84) 1,2,4-Trimethylbenzene	13.245	105	881411	51.198	ug/l	98
85) sec-Butylbenzene	13.379	105	1130247	51.542	ug/l	99
86) p-Isopropyltoluene	13.495	119	923050	50.982	ug/l	100
87) 1,3-Dichlorobenzene	13.495	146	478644	51.971	ug/l	97
88) 1,4-Dichlorobenzene	13.574	146	472264	50.052	ug/l	98
89) n-Butylbenzene	13.818	91	890478	50.342	ug/l	100
90) Hexachloroethane	14.086	117	164982	50.539	ug/l	92
91) 1,2-Dichlorobenzene	13.867	146	446439	52.805	ug/l	94
92) 1,2-Dibromo-3-Chloropr...	14.476	75	43390	51.729	ug/l	97
93) 1,2,4-Trichlorobenzene	15.129	180	255341	47.459	ug/l	94
94) Hexachlorobutadiene	15.226	225	113755	50.900	ug/l	96
95) Naphthalene	15.360	128	677528	50.499	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	237374	48.597	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032468.D
Acq On : 18 Nov 2025 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:21:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Compound	R.T.	Q	Ion	Response	Conc	Units	Dev(Min)
----------	------	---	-----	----------	------	-------	----------

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

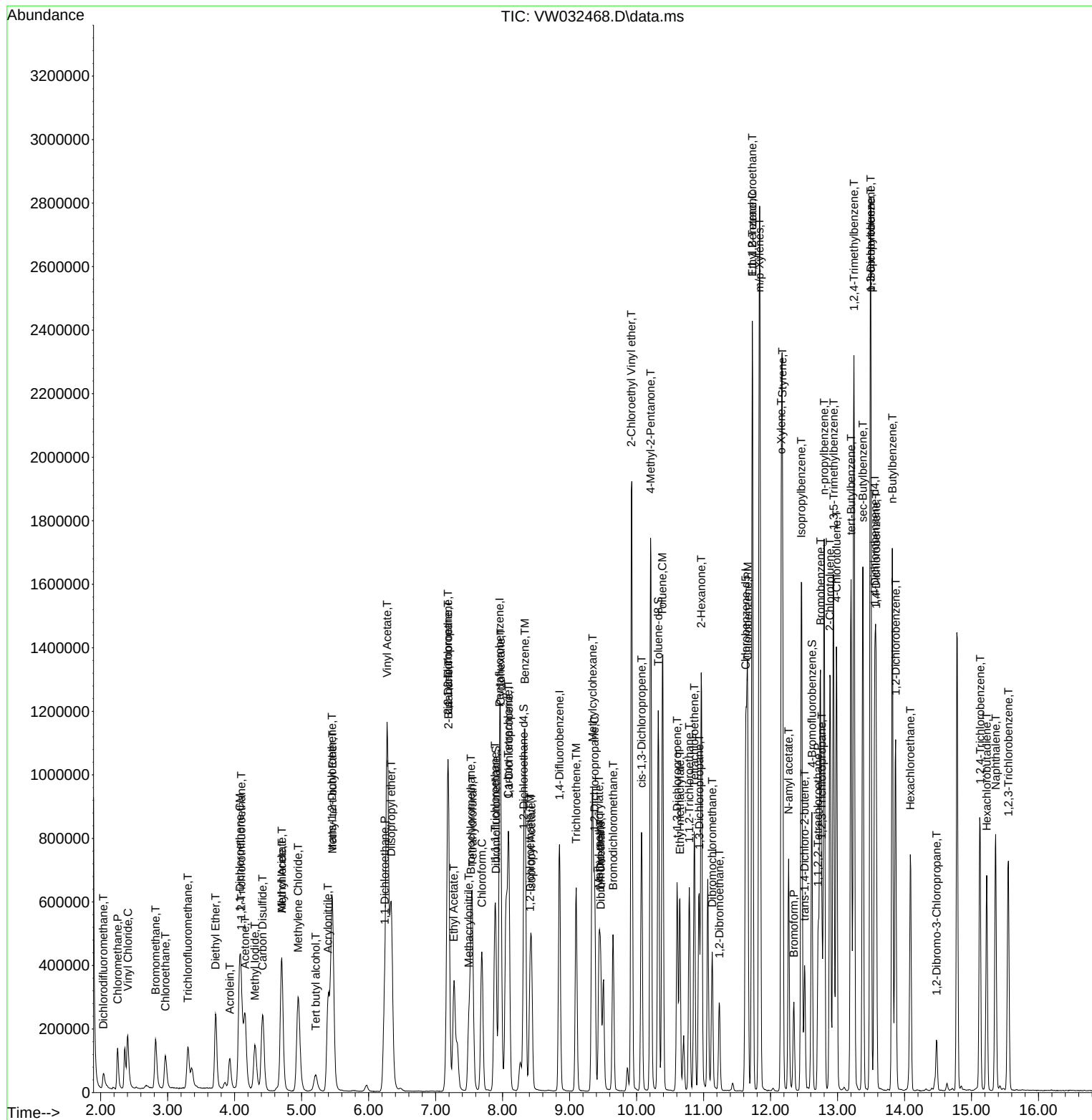
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032468.D
Acq On : 18 Nov 2025 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations

Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:21:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032468.D
 Acq On : 18 Nov 2025 09:46
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 19 00:21:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	76	-0.01
2 T	Dichlorodifluoromethane	0.254	0.247	2.8	76	0.00
3 P	Chloromethane	0.435	0.410	5.7	77	0.00
4 C	Vinyl Chloride	0.549	0.573	-4.4#	81	0.00
5 T	Bromomethane	0.367	0.375	-2.2	80	0.00
6 T	Chloroethane	0.359	0.380	-5.8	82	0.00
7 T	Trichlorofluoromethane	0.430	0.445	-3.5	74	0.00
8 T	Diethyl Ether	0.352	0.369	-4.8	83	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.469	0.492	-4.9	80	0.00
10 T	Methyl Iodide	0.755	0.771	-2.1	79	0.00
11 T	Tert butyl alcohol	0.056	0.055	1.8	79	0.00
12 CM	1,1-Dichloroethene	0.537	0.549	-2.2#	78	0.00
13 T	Acrolein	0.094	0.067	28.7#	57	0.00
14 T	Allyl chloride	1.034	1.077	-4.2	79	0.00
15 T	Acrylonitrile	0.203	0.220	-8.4	83	-0.01
16 T	Acetone	0.193	0.208	-7.8	85	0.00
17 T	Carbon Disulfide	1.588	1.625	-2.3	77	0.00
18 T	Methyl Acetate	0.478	0.544	-13.8	90	0.00
19 T	Methyl tert-butyl Ether	1.133	1.200	-5.9	80	0.00
20 T	Methylene Chloride	0.690	0.704	-2.0	84	0.00
21 T	trans-1,2-Dichloroethene	0.615	0.640	-4.1	81	-0.01
22 T	Diisopropyl ether	2.104	2.249	-6.9	82	0.00
23 T	Vinyl Acetate	1.442	1.541	-6.9	81	0.00
24 P	1,1-Dichloroethane	1.153	1.234	-7.0	82	0.00
25 T	2-Butanone	0.284	0.296	-4.2	81	0.00
26 T	2,2-Dichloropropane	0.643	0.651	-1.2	80	0.00
27 T	cis-1,2-Dichloroethene	0.734	0.773	-5.3	81	0.00
28 T	Bromochloromethane	0.545	0.588	-7.9	89	0.00
29 T	Tetrahydrofuran	0.180	0.199	-10.6	84	0.00
30 C	Chloroform	1.129	1.213	-7.4#	84	0.00
31 T	Cyclohexane	1.066	1.052	1.3	78	0.00
32 T	1,1,1-Trichloroethane	0.806	0.852	-5.7	80	0.00
33 S	1,2-Dichloroethane-d4	0.645	0.695	-7.8	88	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	79	0.00
35 S	Dibromofluoromethane	0.299	0.310	-3.7	85	0.00
36 T	1,1-Dichloropropene	0.441	0.472	-7.0	82	0.00
37 T	Ethyl Acetate	0.328	0.363	-10.7	85	0.00
38 T	Carbon Tetrachloride	0.392	0.418	-6.6	83	0.00
39 T	Methylcyclohexane	0.571	0.590	-3.3	78	0.00
40 TM	Benzene	1.420	1.504	-5.9	82	0.00
41 T	Methacrylonitrile	0.180	0.206	-14.4	87	0.00
42 TM	1,2-Dichloroethane	0.417	0.458	-9.8	86	0.00
43 T	Isopropyl Acetate	0.581	0.623	-7.2	81	0.00
44 TM	Trichloroethene	0.331	0.339	-2.4	80	0.00
45 C	1,2-Dichloropropane	0.354	0.380	-7.3#	84	0.00
46 T	Dibromomethane	0.207	0.221	-6.8	83	0.00
47 T	Bromodichloromethane	0.471	0.501	-6.4	82	0.00
48 T	Methyl methacrylate	0.276	0.291	-5.4	76	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032468.D
 Acq On : 18 Nov 2025 09:46
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 19 00:21:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.003	0.003	0.0	81	0.00
50 S	Toluene-d8	1.148	1.197	-4.3	83	0.00
51 T	4-Methyl-2-Pentanone	0.321	0.360	-12.1	84	0.00
52 CM	Toluene	0.877	0.931	-6.2#	82	0.00
53 T	t-1,3-Dichloropropene	0.486	0.516	-6.2	81	0.00
54 T	cis-1,3-Dichloropropene	0.562	0.601	-6.9	82	0.00
55 T	1,1,2-Trichloroethane	0.284	0.305	-7.4	82	0.00
56 T	Ethyl methacrylate	0.435	0.467	-7.4	80	0.00
57 T	1,3-Dichloropropane	0.506	0.551	-8.9	83	0.00
58 T	2-Chloroethyl Vinyl ether	0.232	0.249	-7.3	87	0.00
59 T	2-Hexanone	0.235	0.255	-8.5	82	0.00
60 T	Dibromochloromethane	0.317	0.346	-9.1	85	0.00
61 T	1,2-Dibromoethane	0.276	0.291	-5.4	82	0.00
62 S	4-Bromofluorobenzene	0.434	0.457	-5.3	87	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	81	0.00
64 T	Tetrachloroethene	0.296	0.303	-2.4	82	0.00
65 PM	Chlorobenzene	1.078	1.138	-5.6	82	0.00
66 T	1,1,1,2-Tetrachloroethane	0.334	0.344	-3.0	83	0.00
67 C	Ethyl Benzene	1.865	1.941	-4.1#	81	0.00
68 T	m/p-Xylenes	0.700	0.733	-4.7	81	0.00
69 T	o-Xylene	0.670	0.694	-3.6	83	0.00
70 T	Styrene	1.153	1.249	-8.3	84	0.00
71 P	Bromoform	0.198	0.203	-2.5	81	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85	0.00
73 T	Isopropylbenzene	3.672	3.748	-2.1	80	0.00
74 T	N-amyl acetate	1.276	1.341	-5.1	81	0.00
75 P	1,1,2,2-Tetrachloroethane	0.871	0.927	-6.4	85	0.00
76 T	1,2,3-Trichloropropane	0.686	0.661	3.6	83	0.00
77 T	Bromobenzene	0.869	0.872	-0.3	78	0.00
78 T	n-propylbenzene	4.472	4.669	-4.4	82	0.00
79 T	2-Chlorotoluene	2.730	2.832	-3.7	83	0.00
80 T	1,3,5-Trimethylbenzene	3.030	3.113	-2.7	81	0.00
81 T	trans-1,4-Dichloro-2-butene	0.299	0.316	-5.7	81	0.00
82 T	4-Chlorotoluene	2.839	2.955	-4.1	83	0.00
83 T	tert-Butylbenzene	2.635	2.679	-1.7	79	0.00
84 T	1,2,4-Trimethylbenzene	3.081	3.155	-2.4	81	0.00
85 T	sec-Butylbenzene	3.925	4.046	-3.1	81	0.00
86 T	p-Isopropyltoluene	3.241	3.304	-1.9	81	0.00
87 T	1,3-Dichlorobenzene	1.648	1.713	-3.9	84	0.00
88 T	1,4-Dichlorobenzene	1.689	1.691	-0.1	81	0.00
89 T	n-Butylbenzene	3.166	3.188	-0.7	80	0.00
90 T	Hexachloroethane	0.584	0.591	-1.2	80	0.00
91 T	1,2-Dichlorobenzene	1.513	1.598	-5.6	87	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.150	0.155	-3.3	82	0.00
93 T	1,2,4-Trichlorobenzene	0.963	0.914	5.1	75	0.00
94 T	Hexachlorobutadiene	0.400	0.407	-1.7	82	0.00
95 T	Naphthalene	2.401	2.425	-1.0	79	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032468.D
Acq On : 18 Nov 2025 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Nov 19 00:21:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.874	0.850	2.7	80	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032468.D
 Acq On : 18 Nov 2025 09:46
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 19 00:21:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	76	-0.01
2 T	Dichlorodifluoromethane	50.000	48.607	2.8	76	0.00
3 P	Chloromethane	50.000	47.110	5.8	77	0.00
4 C	Vinyl Chloride	50.000	52.184	-4.4#	81	0.00
5 T	Bromomethane	50.000	51.066	-2.1	80	0.00
6 T	Chloroethane	50.000	52.926	-5.9	82	0.00
7 T	Trichlorofluoromethane	50.000	51.754	-3.5	74	0.00
8 T	Diethyl Ether	50.000	52.407	-4.8	83	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	52.485	-5.0	80	0.00
10 T	Methyl Iodide	50.000	51.060	-2.1	79	0.00
11 T	Tert butyl alcohol	250.000	248.678	0.5	79	0.00
12 CM	1,1-Dichloroethene	50.000	51.072	-2.1#	78	0.00
13 T	Acrolein	250.000	178.551	28.6#	57	0.00
14 T	Allyl chloride	50.000	52.086	-4.2	79	0.00
15 T	Acrylonitrile	250.000	270.151	-8.1	83	-0.01
16 T	Acetone	250.000	269.586	-7.8	85	0.00
17 T	Carbon Disulfide	50.000	51.141	-2.3	77	0.00
18 T	Methyl Acetate	50.000	56.960	-13.9	90	0.00
19 T	Methyl tert-butyl Ether	50.000	52.954	-5.9	80	0.00
20 T	Methylene Chloride	50.000	51.045	-2.1	84	0.00
21 T	trans-1,2-Dichloroethene	50.000	52.075	-4.2	81	-0.01
22 T	Diisopropyl ether	50.000	53.434	-6.9	82	0.00
23 T	Vinyl Acetate	250.000	267.258	-6.9	81	0.00
24 P	1,1-Dichloroethane	50.000	53.504	-7.0	82	0.00
25 T	2-Butanone	250.000	260.631	-4.3	81	0.00
26 T	2,2-Dichloropropane	50.000	50.697	-1.4	80	0.00
27 T	cis-1,2-Dichloroethene	50.000	52.655	-5.3	81	0.00
28 T	Bromochloromethane	50.000	53.942	-7.9	89	0.00
29 T	Tetrahydrofuran	250.000	275.981	-10.4	84	0.00
30 C	Chloroform	50.000	53.723	-7.4#	84	0.00
31 T	Cyclohexane	50.000	49.303	1.4	78	0.00
32 T	1,1,1-Trichloroethane	50.000	52.833	-5.7	80	0.00
33 S	1,2-Dichloroethane-d4	50.000	53.889	-7.8	88	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	79	0.00
35 S	Dibromofluoromethane	50.000	51.708	-3.4	85	0.00
36 T	1,1-Dichloropropene	50.000	53.484	-7.0	82	0.00
37 T	Ethyl Acetate	50.000	55.329	-10.7	85	0.00
38 T	Carbon Tetrachloride	50.000	53.299	-6.6	83	0.00
39 T	Methylcyclohexane	50.000	51.586	-3.2	78	0.00
40 TM	Benzene	50.000	52.949	-5.9	82	0.00
41 T	Methacrylonitrile	50.000	57.095	-14.2	87	0.00
42 TM	1,2-Dichloroethane	50.000	54.944	-9.9	86	0.00
43 T	Isopropyl Acetate	50.000	53.613	-7.2	81	0.00
44 TM	Trichloroethene	50.000	51.355	-2.7	80	0.00
45 C	1,2-Dichloropropane	50.000	53.782	-7.6#	84	0.00
46 T	Dibromomethane	50.000	53.541	-7.1	83	0.00
47 T	Bromodichloromethane	50.000	53.168	-6.3	82	0.00
48 T	Methyl methacrylate	50.000	52.642	-5.3	76	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032468.D
 Acq On : 18 Nov 2025 09:46
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 19 00:21:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1084.124	-8.4	81	0.00
50 S	Toluene-d8	50.000	52.103	-4.2	83	0.00
51 T	4-Methyl-2-Pentanone	250.000	280.288	-12.1	84	0.00
52 CM	Toluene	50.000	53.044	-6.1#	82	0.00
53 T	t-1,3-Dichloropropene	50.000	53.109	-6.2	81	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.482	-7.0	82	0.00
55 T	1,1,2-Trichloroethane	50.000	53.814	-7.6	82	0.00
56 T	Ethyl methacrylate	50.000	53.628	-7.3	80	0.00
57 T	1,3-Dichloropropane	50.000	54.374	-8.7	83	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	269.175	-7.7	87	0.00
59 T	2-Hexanone	250.000	271.260	-8.5	82	0.00
60 T	Dibromochloromethane	50.000	54.705	-9.4	85	0.00
61 T	1,2-Dibromoethane	50.000	52.728	-5.5	82	0.00
62 S	4-Bromofluorobenzene	50.000	52.705	-5.4	87	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	81	0.00
64 T	Tetrachloroethene	50.000	51.177	-2.4	82	0.00
65 PM	Chlorobenzene	50.000	52.797	-5.6	82	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	51.606	-3.2	83	0.00
67 C	Ethyl Benzene	50.000	52.053	-4.1#	81	0.00
68 T	m/p-Xylenes	100.000	104.685	-4.7	81	0.00
69 T	o-Xylene	50.000	51.736	-3.5	83	0.00
70 T	Styrene	50.000	54.163	-8.3	84	0.00
71 P	Bromoform	50.000	51.441	-2.9	81	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	85	0.00
73 T	Isopropylbenzene	50.000	51.031	-2.1	80	0.00
74 T	N-amyl acetate	50.000	52.531	-5.1	81	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	53.204	-6.4	85	0.00
76 T	1,2,3-Trichloropropane	50.000	48.214	3.6	83	0.00
77 T	Bromobenzene	50.000	50.156	-0.3	78	0.00
78 T	n-propylbenzene	50.000	52.197	-4.4	82	0.00
79 T	2-Chlorotoluene	50.000	51.870	-3.7	83	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.383	-2.8	81	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.849	-5.7	81	0.00
82 T	4-Chlorotoluene	50.000	52.044	-4.1	83	0.00
83 T	tert-Butylbenzene	50.000	50.819	-1.6	79	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.198	-2.4	81	0.00
85 T	sec-Butylbenzene	50.000	51.542	-3.1	81	0.00
86 T	p-Isopropyltoluene	50.000	50.982	-2.0	81	0.00
87 T	1,3-Dichlorobenzene	50.000	51.971	-3.9	84	0.00
88 T	1,4-Dichlorobenzene	50.000	50.052	-0.1	81	0.00
89 T	n-Butylbenzene	50.000	50.342	-0.7	80	0.00
90 T	Hexachloroethane	50.000	50.539	-1.1	80	0.00
91 T	1,2-Dichlorobenzene	50.000	52.805	-5.6	87	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	51.729	-3.5	82	0.00
93 T	1,2,4-Trichlorobenzene	50.000	47.459	5.1	75	0.00
94 T	Hexachlorobutadiene	50.000	50.900	-1.8	82	0.00
95 T	Naphthalene	50.000	50.499	-1.0	79	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032468.D
Acq On : 18 Nov 2025 09:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Nov 19 00:21:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	48.597	2.8	80	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>HDRI08</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3649</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>11/19/2025</u> <u>10:01</u>
Lab File ID:	<u>VW032490.D</u>	Init. Calib. Date(s):	<u>11/10/2025</u> <u>11/10/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>15:11</u> <u>17:00</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.254	0.275		8.27	20
Chloromethane	0.435	0.456	0.1	4.83	20
Vinyl Chloride	0.549	0.594		8.2	20
Bromomethane	0.367	0.393		7.08	20
Chloroethane	0.359	0.382		6.41	20
Trichlorofluoromethane	0.430	0.419		-2.56	20
1,1,2-Trichlorotrifluoroethane	0.469	0.514		9.6	20
1,1-Dichloroethene	0.537	0.587		9.31	20
Acetone	0.193	0.217		12.44	20
Carbon Disulfide	1.588	1.707		7.49	20
Methyl tert-butyl Ether	1.133	1.191		5.12	20
Methyl Acetate	0.478	0.544		13.81	20
Methylene Chloride	0.690	0.738		6.96	20
trans-1,2-Dichloroethene	0.615	0.678		10.24	20
1,1-Dichloroethane	1.153	1.290	0.1	11.88	20
Cyclohexane	1.066	1.077		1.03	20
2-Butanone	0.284	0.303		6.69	20
Carbon Tetrachloride	0.392	0.429		9.44	20
cis-1,2-Dichloroethene	0.734	0.800		8.99	20
Bromochloromethane	0.545	0.601		10.27	20
Chloroform	1.129	1.290		14.26	20
1,1,1-Trichloroethane	0.806	0.859		6.58	20
Methylcyclohexane	0.571	0.600		5.08	20
Benzene	1.420	1.545		8.8	20
1,2-Dichloroethane	0.417	0.472		13.19	20
Trichloroethene	0.331	0.343		3.63	20
1,2-Dichloropropane	0.354	0.399		12.71	20
Bromodichloromethane	0.471	0.534		13.38	20
4-Methyl-2-Pentanone	0.321	0.360		12.15	20
Toluene	0.877	0.971		10.72	20
t-1,3-Dichloropropene	0.486	0.523		7.61	20
cis-1,3-Dichloropropene	0.562	0.604		7.47	20
1,1,2-Trichloroethane	0.284	0.315		10.91	20
2-Hexanone	0.235	0.257		9.36	20
Dibromochloromethane	0.317	0.346		9.15	20
1,2-Dibromoethane	0.276	0.296		7.25	20
Tetrachloroethene	0.296	0.324		9.46	20
Chlorobenzene	1.078	1.146	0.3	6.31	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>HDRI08</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3649</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>11/19/2025</u> <u>10:01</u>
Lab File ID:	<u>VW032490.D</u>	Init. Calib. Date(s):	<u>11/10/2025</u> <u>11/10/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>15:11</u> <u>17:00</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.865	1.963		5.26	20
m/p-Xylenes	0.700	0.774		10.57	20
o-Xylene	0.670	0.727		8.51	20
Styrene	1.153	1.262		9.45	20
Bromoform	0.198	0.212	0.1	7.07	20
Isopropylbenzene	3.672	3.940		7.3	20
1,1,2,2-Tetrachloroethane	0.871	0.955	0.3	9.64	20
1,3-Dichlorobenzene	1.648	1.823		10.62	20
1,4-Dichlorobenzene	1.689	1.798		6.45	20
1,2-Dichlorobenzene	1.513	1.662		9.85	20
1,2-Dibromo-3-Chloropropane	0.150	0.154		2.67	20
1,2,4-Trichlorobenzene	0.963	1.008		4.67	20
1,2,3-Trichlorobenzene	0.874	0.913		4.46	20
1,2-Dichloroethane-d4	0.645	0.700		8.53	20
Dibromofluoromethane	0.299	0.314		5.02	20
Toluene-d8	1.148	1.220		6.27	20
4-Bromofluorobenzene	0.434	0.459		5.76	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_W\Data\VW111925\
 Data File : VW032490.D
 Acq On : 19 Nov 2025 10:01
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/20/2025
 Supervised By :Mahesh Dadoda 11/20/2025

Quant Time: Nov 20 01:11:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	346973	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	636403	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	579827	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.550	152	269243	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	242926	54.306	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 108.620%			
35) Dibromofluoromethane	7.898	113	199770	52.429	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 104.860%			
50) Toluene-d8	10.325	98	776593	53.127	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 106.260%			
62) 4-Bromofluorobenzene	12.617	95	292101	52.898	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 105.800%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.046	85	95376	54.179	ug/l	96
3) Chloromethane	2.253	50	158236	52.440	ug/l	97
4) Vinyl Chloride	2.405	62	206091	54.118	ug/l	97
5) Bromomethane	2.820	94	136345	53.524	ug/l	93
6) Chloroethane	2.966	64	132436	53.155	ug/l	98
7) Trichlorofluoromethane	3.302	101	145405	48.700	ug/l	92
8) Diethyl Ether	3.722	74	130752	53.563	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.100	101	178427	54.860	ug/l	97
10) Methyl Iodide	4.308	142	268160	51.191	ug/l	98
11) Tert butyl alcohol	5.210	59	88567	228.969	ug/l	98
12) 1,1-Dichloroethene	4.076	96	203728	54.627	ug/l	96
13) Acrolein	3.930	56	108184	166.697	ug/l	99
14) Allyl chloride	4.704	41	382936	53.394	ug/l	98
15) Acrylonitrile	5.393	53	386933	274.149	ug/l	99
16) Acetone	4.155	43	375826	280.822	ug/l	97
17) Carbon Disulfide	4.417	76	592369	53.740	ug/l	99
18) Methyl Acetate	4.710	43	188677	56.932	ug/l	100
19) Methyl tert-butyl Ether	5.460	73	413278	52.570	ug/l	98
20) Methylene Chloride	4.948	84	256114	53.512	ug/l	99
21) trans-1,2-Dichloroethene	5.454	96	235150	55.142	ug/l	97
22) Diisopropyl ether	6.338	45	804551	55.097	ug/l	95
23) Vinyl Acetate	6.277	43	2725852	272.461	ug/l	98
24) 1,1-Dichloroethane	6.240	63	447734	55.964	ug/l	99
25) 2-Butanone	7.185	43	526364	266.965	ug/l	100
26) 2,2-Dichloropropane	7.185	77	228920	51.342	ug/l	99
27) cis-1,2-Dichloroethene	7.185	96	277691	54.498	ug/l	99
28) Bromochloromethane	7.527	49	208547	55.153	ug/l	97
29) Tetrahydrofuran	7.545	42	344899	275.605	ug/l	99
30) Chloroform	7.691	83	447741	57.169	ug/l	100
31) Cyclohexane	7.965	56	373822	50.513	ug/l	98
32) 1,1,1-Trichloroethane	7.886	97	297998	53.262	ug/l	97
36) 1,1-Dichloropropene	8.094	75	309469	55.124	ug/l	99
37) Ethyl Acetate	7.270	43	231826	55.532	ug/l	99
38) Carbon Tetrachloride	8.081	117	272752	54.678	ug/l	95
39) Methylcyclohexane	9.343	83	381563	52.464	ug/l	91
40) Benzene	8.337	78	983355	54.391	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
 Data File : VW032490.D
 Acq On : 19 Nov 2025 10:01
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/20/2025
 Supervised By :Mahesh Dadoda 11/20/2025

Quant Time: Nov 20 01:11:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.496	41	130492	56.903	ug/l	96
42) 1,2-Dichloroethane	8.411	62	300189	56.528	ug/l	99
43) Isopropyl Acetate	8.435	43	395000	53.436	ug/l	99
44) Trichloroethene	9.099	130	218354	51.903	ug/l	98
45) 1,2-Dichloropropane	9.374	63	253790	56.375	ug/l	100
46) Dibromomethane	9.465	93	147513	56.074	ug/l	98
47) Bromodichloromethane	9.648	83	339805	56.626	ug/l	96
48) Methyl methacrylate	9.441	41	181969	51.805	ug/l	93
49) 1,4-Dioxane	9.459	88	41605	1128.950	ug/l #	96
51) 4-Methyl-2-Pentanone	10.209	43	1146909	280.662	ug/l	100
52) Toluene	10.386	92	617759	55.318	ug/l	98
53) t-1,3-Dichloropropene	10.605	75	332651	53.826	ug/l	99
54) cis-1,3-Dichloropropene	10.075	75	384628	53.817	ug/l	99
55) 1,1,2-Trichloroethane	10.788	97	200347	55.515	ug/l	97
56) Ethyl methacrylate	10.648	69	293517	53.007	ug/l	97
57) 1,3-Dichloropropane	10.934	76	358185	55.570	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.929	63	863212	292.727	ug/l	100
59) 2-Hexanone	10.965	43	818361	273.719	ug/l	98
60) Dibromochloromethane	11.130	129	220231	54.646	ug/l	100
61) 1,2-Dibromoethane	11.233	107	188620	53.662	ug/l	100
64) Tetrachloroethene	10.861	164	188152	54.797	ug/l	88
65) Chlorobenzene	11.654	112	664366	53.161	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.727	131	211366	54.649	ug/l	99
67) Ethyl Benzene	11.727	91	1138253	52.638	ug/l	96
68) m/p-Xylenes	11.837	106	897191	110.506	ug/l	97
69) o-Xylene	12.160	106	421359	54.202	ug/l	98
70) Styrene	12.178	104	731948	54.734	ug/l	100
71) Bromoform	12.349	173	122654	53.540	ug/l	95
73) Isopropylbenzene	12.459	105	1060845	53.648	ug/l	99
74) N-amyl acetate	12.270	43	361944	52.674	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.709	83	257138	54.793	ug/l	100
76) 1,2,3-Trichloropropane	12.763	75	182969m	49.561	ug/l	
77) Bromobenzene	12.745	156	244850	52.298	ug/l	95
78) n-propylbenzene	12.800	91	1327854	55.141	ug/l	99
79) 2-Chlorotoluene	12.885	91	805355	54.784	ug/l	98
80) 1,3,5-Trimethylbenzene	12.940	105	891947	54.675	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.507	75	85782	53.221	ug/l	97
82) 4-Chlorotoluene	12.989	91	831063	54.354	ug/l	100
83) tert-Butylbenzene	13.202	119	732857	51.641	ug/l	97
84) 1,2,4-Trimethylbenzene	13.245	105	886061	53.400	ug/l	97
85) sec-Butylbenzene	13.379	105	1124349	53.198	ug/l	100
86) p-Isopropyltoluene	13.495	119	914832	52.425	ug/l	98
87) 1,3-Dichlorobenzene	13.495	146	490882	55.301	ug/l	94
88) 1,4-Dichlorobenzene	13.574	146	484114	53.234	ug/l	99
89) n-Butylbenzene	13.818	91	918175	53.857	ug/l	99
90) Hexachloroethane	14.086	117	165435	52.581	ug/l	90
91) 1,2-Dichlorobenzene	13.867	146	447561	54.925	ug/l	94
92) 1,2-Dibromo-3-Chloropr...	14.477	75	41536	51.378	ug/l	98
93) 1,2,4-Trichlorobenzene	15.129	180	271417	52.341	ug/l	98
94) Hexachlorobutadiene	15.232	225	111309	51.675	ug/l	94
95) Naphthalene	15.360	128	650043	50.270	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	245875	52.227	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032490.D
Acq On : 19 Nov 2025 10:01
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/20/2025
Supervised By :Mahesh Dadoda 11/20/2025

Quant Time: Nov 20 01:11:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

Compound	R.T.	Q	Ion	Response	Conc	Units	Dev(Min)
----------	------	---	-----	----------	------	-------	----------

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

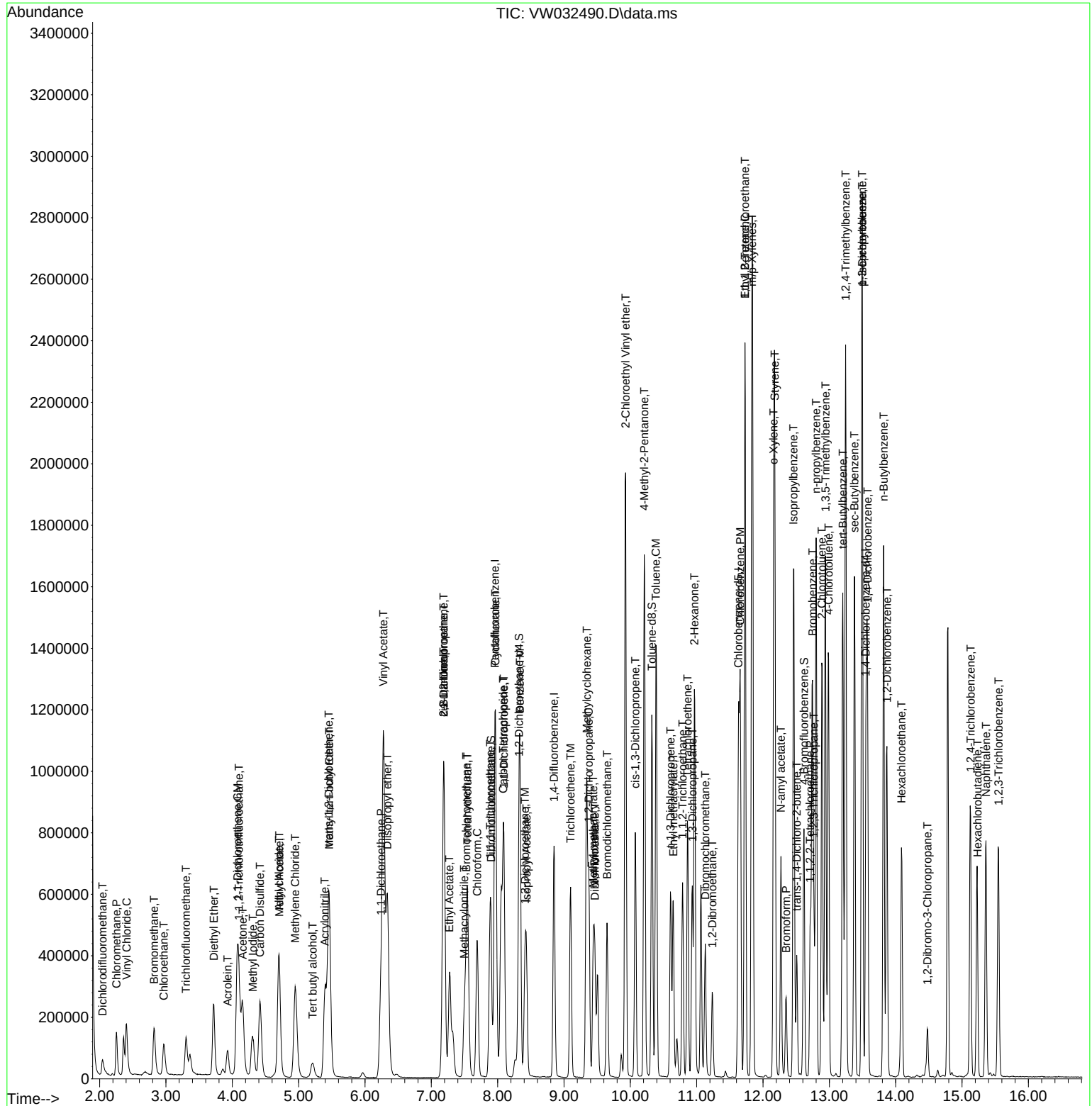
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
 Data File : VW032490.D
 Acq On : 19 Nov 2025 10:01
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Quant Time: Nov 20 01:11:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/20/2025
 Supervised By :Mahesh Dadoda 11/20/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
 Data File : VW032490.D
 Acq On : 19 Nov 2025 10:01
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 20 01:11:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	73	0.00
2 T	Dichlorodifluoromethane	0.254	0.275	-8.3	81	0.00
3 P	Chloromethane	0.435	0.456	-4.8	82	0.00
4 C	Vinyl Chloride	0.549	0.594	-8.2#	81	0.00
5 T	Bromomethane	0.367	0.393	-7.1	80	0.00
6 T	Chloroethane	0.359	0.382	-6.4	79	0.00
7 T	Trichlorofluoromethane	0.430	0.419	2.6	67	0.00
8 T	Diethyl Ether	0.352	0.377	-7.1	81	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.469	0.514	-9.6	81	0.00
10 T	Methyl Iodide	0.755	0.773	-2.4	76	0.00
11 T	Tert butyl alcohol	0.056	0.051	8.9	70	0.00
12 CM	1,1-Dichloroethene	0.537	0.587	-9.3#	80	0.00
13 T	Acrolein	0.094	0.062	34.0#	51	0.00
14 T	Allyl chloride	1.034	1.104	-6.8	78	0.00
15 T	Acrylonitrile	0.203	0.223	-9.9	80	-0.01
16 T	Acetone	0.193	0.217	-12.4	85	0.00
17 T	Carbon Disulfide	1.588	1.707	-7.5	78	0.00
18 T	Methyl Acetate	0.478	0.544	-13.8	86	0.00
19 T	Methyl tert-butyl Ether	1.133	1.191	-5.1	77	0.00
20 T	Methylene Chloride	0.690	0.738	-7.0	85	0.00
21 T	trans-1,2-Dichloroethene	0.615	0.678	-10.2	82	-0.01
22 T	Diisopropyl ether	2.104	2.319	-10.2	81	0.00
23 T	Vinyl Acetate	1.442	1.571	-8.9	79	0.00
24 P	1,1-Dichloroethane	1.153	1.290	-11.9	82	0.00
25 T	2-Butanone	0.284	0.303	-6.7	79	0.00
26 T	2,2-Dichloropropane	0.643	0.660	-2.6	78	0.00
27 T	cis-1,2-Dichloroethene	0.734	0.800	-9.0	80	0.00
28 T	Bromochloromethane	0.545	0.601	-10.3	88	0.00
29 T	Tetrahydrofuran	0.180	0.199	-10.6	80	0.00
30 C	Chloroform	1.129	1.290	-14.3#	85	0.00
31 T	Cyclohexane	1.066	1.077	-1.0	77	0.00
32 T	1,1,1-Trichloroethane	0.806	0.859	-6.6	77	0.00
33 S	1,2-Dichloroethane-d4	0.645	0.700	-8.5	85	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	76	0.00
35 S	Dibromofluoromethane	0.299	0.314	-5.0	83	0.00
36 T	1,1-Dichloropropene	0.441	0.486	-10.2	81	0.00
37 T	Ethyl Acetate	0.328	0.364	-11.0	82	0.00
38 T	Carbon Tetrachloride	0.392	0.429	-9.4	81	0.00
39 T	Methylcyclohexane	0.571	0.600	-5.1	76	0.00
40 TM	Benzene	1.420	1.545	-8.8	82	0.00
41 T	Methacrylonitrile	0.180	0.205	-13.9	83	0.00
42 TM	1,2-Dichloroethane	0.417	0.472	-13.2	85	0.00
43 T	Isopropyl Acetate	0.581	0.621	-6.9	78	0.00
44 TM	Trichloroethene	0.331	0.343	-3.6	78	0.00
45 C	1,2-Dichloropropane	0.354	0.399	-12.7#	85	0.00
46 T	Dibromomethane	0.207	0.232	-12.1	83	0.00
47 T	Bromodichloromethane	0.471	0.534	-13.4	84	0.00
48 T	Methyl methacrylate	0.276	0.286	-3.6	72	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
 Data File : VW032490.D
 Acq On : 19 Nov 2025 10:01
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 20 01:11:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.003	0.003	0.0	81	0.00
50 S	Toluene-d8	1.148	1.220	-6.3	82	0.00
51 T	4-Methyl-2-Pentanone	0.321	0.360	-12.1	81	0.00
52 CM	Toluene	0.877	0.971	-10.7#	82	0.00
53 T	t-1,3-Dichloropropene	0.486	0.523	-7.6	79	0.00
54 T	cis-1,3-Dichloropropene	0.562	0.604	-7.5	79	0.00
55 T	1,1,2-Trichloroethane	0.284	0.315	-10.9	82	0.00
56 T	Ethyl methacrylate	0.435	0.461	-6.0	76	0.00
57 T	1,3-Dichloropropane	0.506	0.563	-11.3	82	0.00
58 T	2-Chloroethyl Vinyl ether	0.232	0.271	-16.8	91	0.00
59 T	2-Hexanone	0.235	0.257	-9.4	80	0.00
60 T	Dibromochloromethane	0.317	0.346	-9.1	82	0.00
61 T	1,2-Dibromoethane	0.276	0.296	-7.2	80	0.00
62 S	4-Bromofluorobenzene	0.434	0.459	-5.8	84	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	79	0.00
64 T	Tetrachloroethene	0.296	0.324	-9.5	85	0.00
65 PM	Chlorobenzene	1.078	1.146	-6.3	79	0.00
66 T	1,1,1,2-Tetrachloroethane	0.334	0.365	-9.3	85	0.00
67 C	Ethyl Benzene	1.865	1.963	-5.3#	79	0.00
68 T	m/p-Xylenes	0.700	0.774	-10.6	83	0.00
69 T	o-Xylene	0.670	0.727	-8.5	84	0.00
70 T	Styrene	1.153	1.262	-9.5	82	0.00
71 P	Bromoform	0.198	0.212	-7.1	82	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	81	0.00
73 T	Isopropylbenzene	3.672	3.940	-7.3	81	0.00
74 T	N-amyl acetate	1.276	1.344	-5.3	78	0.00
75 P	1,1,2,2-Tetrachloroethane	0.871	0.955	-9.6	84	0.00
76 T	1,2,3-Trichloropropane	0.686	0.680	0.9	82	0.00
77 T	Bromobenzene	0.869	0.909	-4.6	79	0.00
78 T	n-propylbenzene	4.472	4.932	-10.3	83	0.00
79 T	2-Chlorotoluene	2.730	2.991	-9.6	85	0.00
80 T	1,3,5-Trimethylbenzene	3.030	3.313	-9.3	83	0.00
81 T	trans-1,4-Dichloro-2-butene	0.299	0.319	-6.7	79	0.00
82 T	4-Chlorotoluene	2.839	3.087	-8.7	84	0.00
83 T	tert-Butylbenzene	2.635	2.722	-3.3	77	0.00
84 T	1,2,4-Trimethylbenzene	3.081	3.291	-6.8	81	0.00
85 T	sec-Butylbenzene	3.925	4.176	-6.4	81	0.00
86 T	p-Isopropyltoluene	3.241	3.398	-4.8	81	0.00
87 T	1,3-Dichlorobenzene	1.648	1.823	-10.6	86	0.00
88 T	1,4-Dichlorobenzene	1.689	1.798	-6.5	83	0.00
89 T	n-Butylbenzene	3.166	3.410	-7.7	82	0.00
90 T	Hexachloroethane	0.584	0.614	-5.1	80	0.00
91 T	1,2-Dichlorobenzene	1.513	1.662	-9.8	88	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.150	0.154	-2.7	79	0.00
93 T	1,2,4-Trichlorobenzene	0.963	1.008	-4.7	80	0.00
94 T	Hexachlorobutadiene	0.400	0.413	-3.2	80	0.00
95 T	Naphthalene	2.401	2.414	-0.5	76	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032490.D
Acq On : 19 Nov 2025 10:01
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Nov 20 01:11:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.874	0.913	-4.5	83	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
 Data File : VW032490.D
 Acq On : 19 Nov 2025 10:01
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 20 01:11:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	73	0.00
2 T	Dichlorodifluoromethane	50.000	54.179	-8.4	81	0.00
3 P	Chloromethane	50.000	52.440	-4.9	82	0.00
4 C	Vinyl Chloride	50.000	54.118	-8.2#	81	0.00
5 T	Bromomethane	50.000	53.524	-7.0	80	0.00
6 T	Chloroethane	50.000	53.155	-6.3	79	0.00
7 T	Trichlorofluoromethane	50.000	48.700	2.6	67	0.00
8 T	Diethyl Ether	50.000	53.563	-7.1	81	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	54.860	-9.7	81	0.00
10 T	Methyl Iodide	50.000	51.191	-2.4	76	0.00
11 T	Tert butyl alcohol	250.000	228.969	8.4	70	0.00
12 CM	1,1-Dichloroethene	50.000	54.627	-9.3#	80	0.00
13 T	Acrolein	250.000	166.697	33.3#	51	0.00
14 T	Allyl chloride	50.000	53.394	-6.8	78	0.00
15 T	Acrylonitrile	250.000	274.149	-9.7	80	-0.01
16 T	Acetone	250.000	280.822	-12.3	85	0.00
17 T	Carbon Disulfide	50.000	53.740	-7.5	78	0.00
18 T	Methyl Acetate	50.000	56.932	-13.9	86	0.00
19 T	Methyl tert-butyl Ether	50.000	52.570	-5.1	77	0.00
20 T	Methylene Chloride	50.000	53.512	-7.0	85	0.00
21 T	trans-1,2-Dichloroethene	50.000	55.142	-10.3	82	-0.01
22 T	Diisopropyl ether	50.000	55.097	-10.2	81	0.00
23 T	Vinyl Acetate	250.000	272.461	-9.0	79	0.00
24 P	1,1-Dichloroethane	50.000	55.964	-11.9	82	0.00
25 T	2-Butanone	250.000	266.965	-6.8	79	0.00
26 T	2,2-Dichloropropane	50.000	51.342	-2.7	78	0.00
27 T	cis-1,2-Dichloroethene	50.000	54.498	-9.0	80	0.00
28 T	Bromochloromethane	50.000	55.153	-10.3	88	0.00
29 T	Tetrahydrofuran	250.000	275.605	-10.2	80	0.00
30 C	Chloroform	50.000	57.169	-14.3#	85	0.00
31 T	Cyclohexane	50.000	50.513	-1.0	77	0.00
32 T	1,1,1-Trichloroethane	50.000	53.262	-6.5	77	0.00
33 S	1,2-Dichloroethane-d4	50.000	54.306	-8.6	85	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	76	0.00
35 S	Dibromofluoromethane	50.000	52.429	-4.9	83	0.00
36 T	1,1-Dichloropropene	50.000	55.124	-10.2	81	0.00
37 T	Ethyl Acetate	50.000	55.532	-11.1	82	0.00
38 T	Carbon Tetrachloride	50.000	54.678	-9.4	81	0.00
39 T	Methylcyclohexane	50.000	52.464	-4.9	76	0.00
40 TM	Benzene	50.000	54.391	-8.8	82	0.00
41 T	Methacrylonitrile	50.000	56.903	-13.8	83	0.00
42 TM	1,2-Dichloroethane	50.000	56.528	-13.1	85	0.00
43 T	Isopropyl Acetate	50.000	53.436	-6.9	78	0.00
44 TM	Trichloroethene	50.000	51.903	-3.8	78	0.00
45 C	1,2-Dichloropropane	50.000	56.375	-12.8#	85	0.00
46 T	Dibromomethane	50.000	56.074	-12.1	83	0.00
47 T	Bromodichloromethane	50.000	56.626	-13.3	84	0.00
48 T	Methyl methacrylate	50.000	51.805	-3.6	72	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
 Data File : VW032490.D
 Acq On : 19 Nov 2025 10:01
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 LabSampleId :
 VSTDCCC050

Quant Time: Nov 20 01:11:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)

49 T	1,4-Dioxane	1000.000	1128.950	-12.9	81	0.00
50 S	Toluene-d8	50.000	53.127	-6.3	82	0.00
51 T	4-Methyl-2-Pentanone	250.000	280.662	-12.3	81	0.00
52 CM	Toluene	50.000	55.318	-10.6#	82	0.00
53 T	t-1,3-Dichloropropene	50.000	53.826	-7.7	79	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.817	-7.6	79	0.00
55 T	1,1,2-Trichloroethane	50.000	55.515	-11.0	82	0.00
56 T	Ethyl methacrylate	50.000	53.007	-6.0	76	0.00
57 T	1,3-Dichloropropane	50.000	55.570	-11.1	82	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	292.727	-17.1	91	0.00
59 T	2-Hexanone	250.000	273.719	-9.5	80	0.00
60 T	Dibromochloromethane	50.000	54.646	-9.3	82	0.00
61 T	1,2-Dibromoethane	50.000	53.662	-7.3	80	0.00
62 S	4-Bromofluorobenzene	50.000	52.898	-5.8	84	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	79	0.00
64 T	Tetrachloroethene	50.000	54.797	-9.6	85	0.00
65 PM	Chlorobenzene	50.000	53.161	-6.3	79	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	54.649	-9.3	85	0.00
67 C	Ethyl Benzene	50.000	52.638	-5.3#	79	0.00
68 T	m/p-Xylenes	100.000	110.506	-10.5	83	0.00
69 T	o-Xylene	50.000	54.202	-8.4	84	0.00
70 T	Styrene	50.000	54.734	-9.5	82	0.00
71 P	Bromoform	50.000	53.540	-7.1	82	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	81	0.00
73 T	Isopropylbenzene	50.000	53.648	-7.3	81	0.00
74 T	N-ethyl acetate	50.000	52.674	-5.3	78	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	54.793	-9.6	84	0.00
76 T	1,2,3-Trichloropropane	50.000	49.561	0.9	82	0.00
77 T	Bromobenzene	50.000	52.298	-4.6	79	0.00
78 T	n-propylbenzene	50.000	55.141	-10.3	83	0.00
79 T	2-Chlorotoluene	50.000	54.784	-9.6	85	0.00
80 T	1,3,5-Trimethylbenzene	50.000	54.675	-9.3	83	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	53.221	-6.4	79	0.00
82 T	4-Chlorotoluene	50.000	54.354	-8.7	84	0.00
83 T	tert-Butylbenzene	50.000	51.641	-3.3	77	0.00
84 T	1,2,4-Trimethylbenzene	50.000	53.400	-6.8	81	0.00
85 T	sec-Butylbenzene	50.000	53.198	-6.4	81	0.00
86 T	p-Isopropyltoluene	50.000	52.425	-4.8	81	0.00
87 T	1,3-Dichlorobenzene	50.000	55.301	-10.6	86	0.00
88 T	1,4-Dichlorobenzene	50.000	53.234	-6.5	83	0.00
89 T	n-Butylbenzene	50.000	53.857	-7.7	82	0.00
90 T	Hexachloroethane	50.000	52.581	-5.2	80	0.00
91 T	1,2-Dichlorobenzene	50.000	54.925	-9.8	88	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	51.378	-2.8	79	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.341	-4.7	80	0.00
94 T	Hexachlorobutadiene	50.000	51.675	-3.3	80	0.00
95 T	Naphthalene	50.000	50.270	-0.5	76	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032490.D
Acq On : 19 Nov 2025 10:01
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Nov 20 01:11:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	52.227	-4.5	83	0.00

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



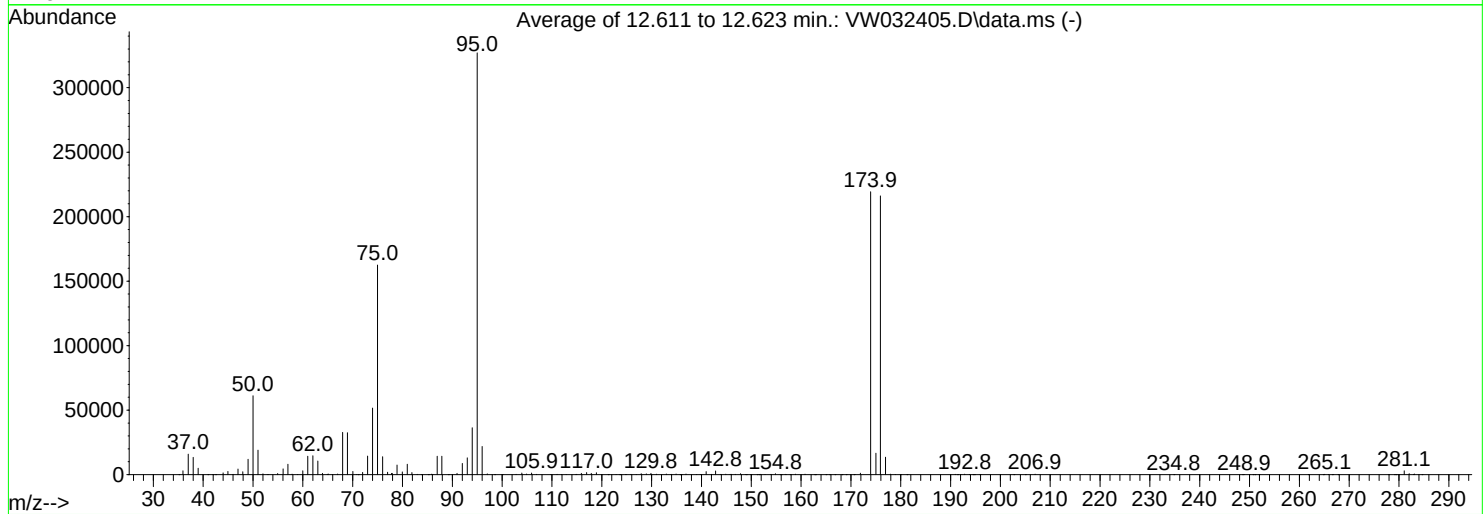
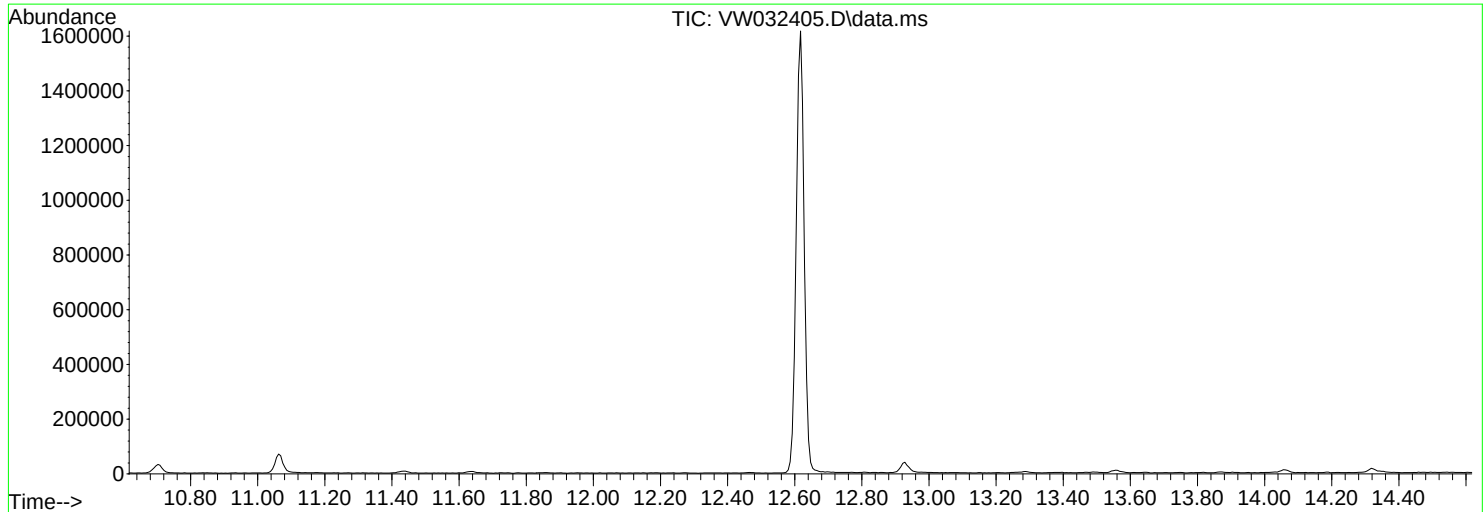
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111025\
Data File : VW032405.D
Acq On : 10 Nov 2025 14:20
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Title : SW846 8260
Last Update : Tue Nov 11 03:48:21 2025



AutoFind: Scans 1759, 1760, 1761; Background Corrected with Scan 1750

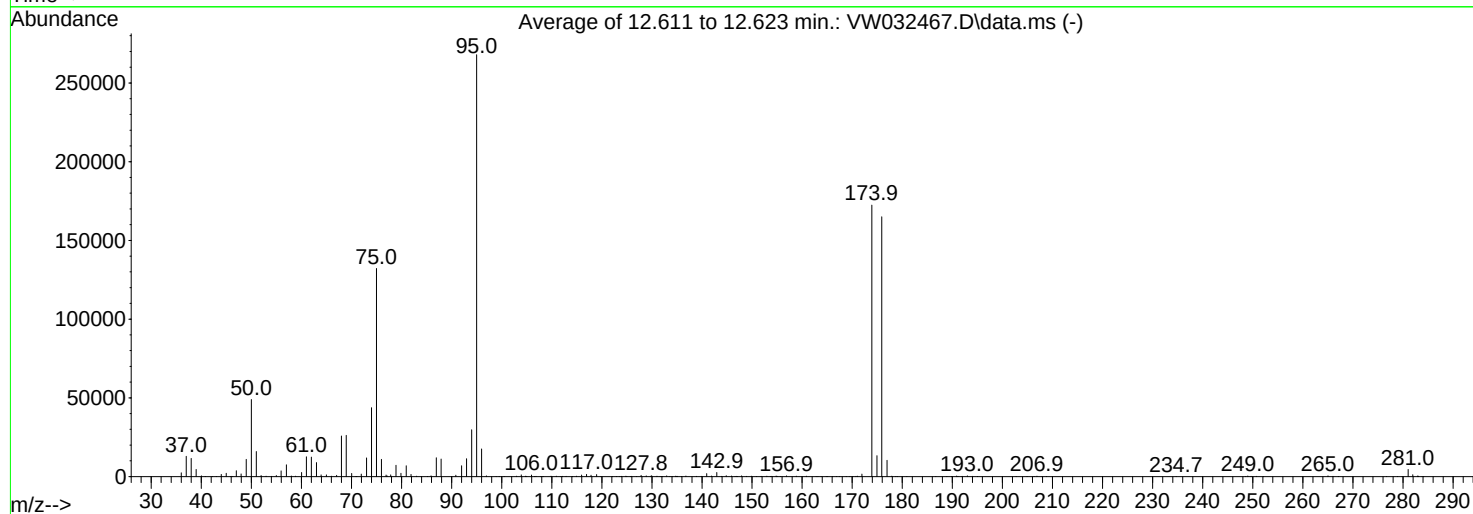
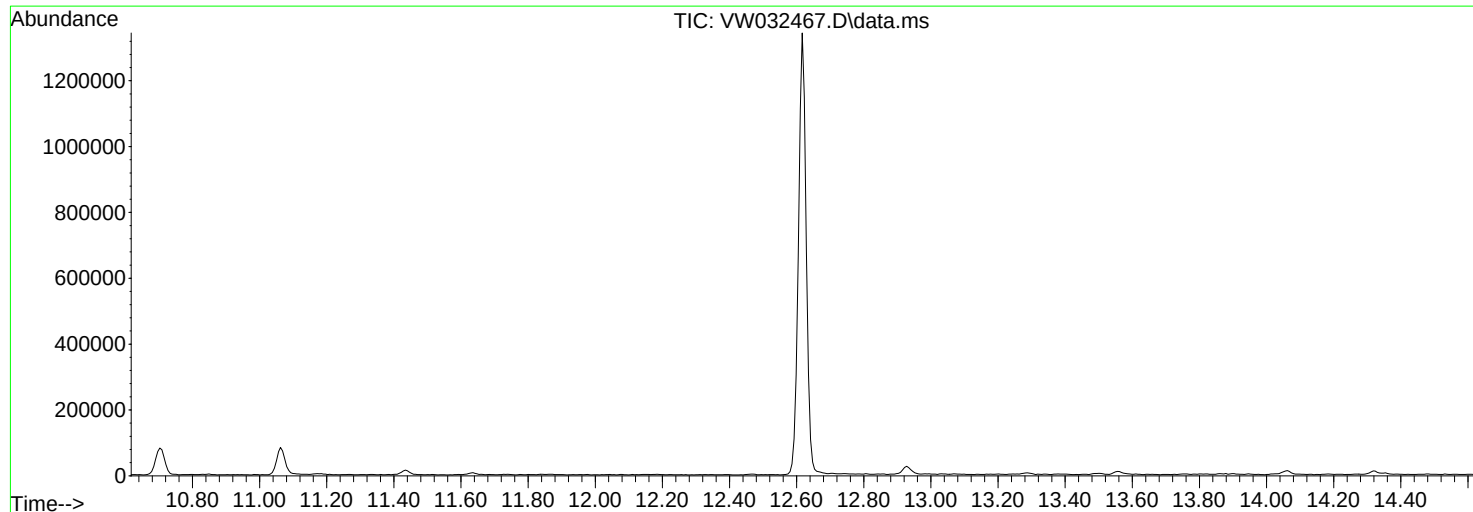
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	18.7	61165	PASS
75	95	30	60	49.7	162496	PASS
95	95	100	100	100.0	326997	PASS
96	95	5	9	6.7	21816	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	67.1	219371	PASS
175	174	5	9	7.6	16661	PASS
176	174	95	101	98.5	216149	PASS
177	176	5	9	6.3	13512	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032467.D
Acq On : 18 Nov 2025 09:15
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Title : SW846 8260
Last Update : Tue Nov 11 03:48:21 2025



AutoFind: Scans 1759, 1760, 1761; Background Corrected with Scan 1750

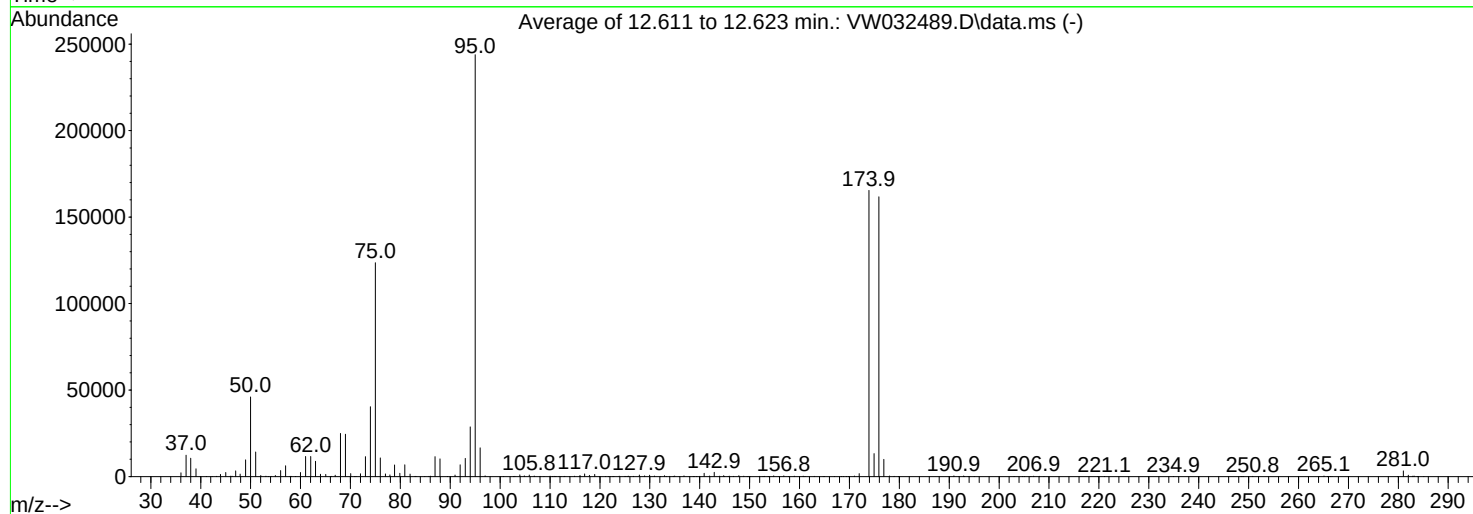
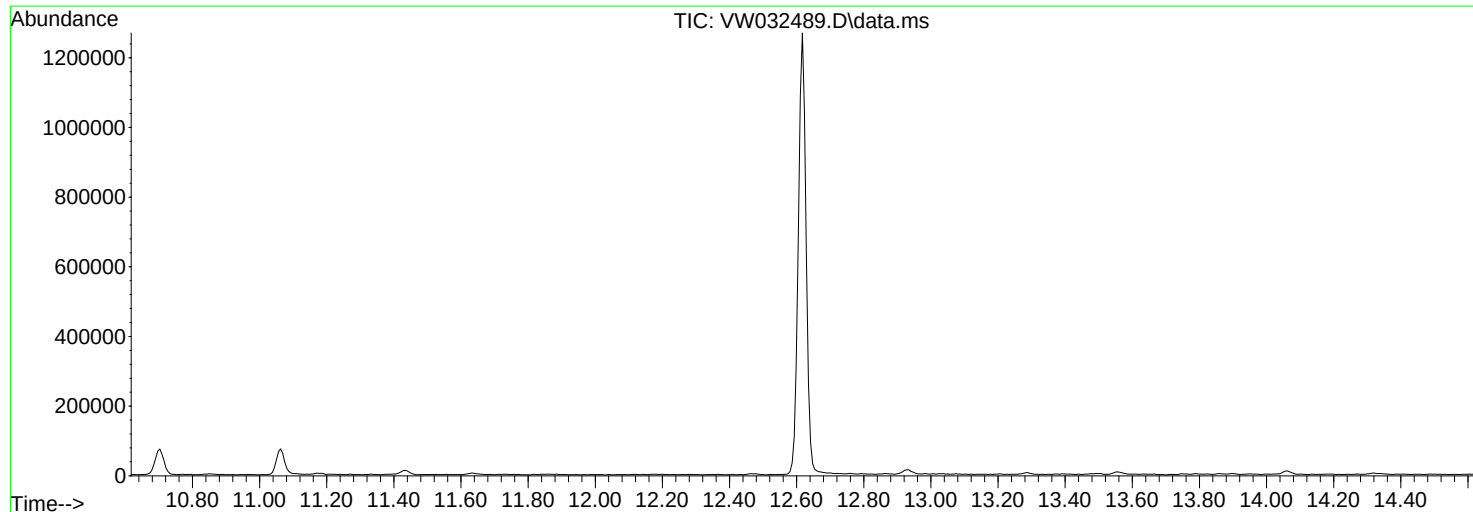
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	48973	PASS
75	95	30	60	49.3	132197	PASS
95	95	100	100	100.0	267925	PASS
96	95	5	9	6.5	17523	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.4	172437	PASS
175	174	5	9	7.7	13242	PASS
176	174	95	101	95.7	164992	PASS
177	176	5	9	6.3	10340	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032489.D
Acq On : 19 Nov 2025 09:32
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Title : SW846 8260
Last Update : Tue Nov 11 03:48:21 2025



AutoFind: Scans 1759, 1760, 1761; Background Corrected with Scan 1748

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.9	45992	PASS
75	95	30	60	50.7	123660	PASS
95	95	100	100	100.0	243861	PASS
96	95	5	9	6.8	16613	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	67.8	165419	PASS
175	174	5	9	8.0	13264	PASS
176	174	95	101	97.8	161728	PASS
177	176	5	9	6.2	9979	PASS

Report of Analysis

Client: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: VW1118SBL01
 Lab Sample ID: VW1118SBL01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 g

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3649
 Matrix: SOIL
 % Solid: 100
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.10	U	1	1.10	5.00	ug/Kg	11/18/25 10:13	VW111825
74-87-3	Chloromethane	1.10	U	1	1.10	5.00	ug/Kg	11/18/25 10:13	VW111825
75-01-4	Vinyl Chloride	0.79	U	1	0.79	5.00	ug/Kg	11/18/25 10:13	VW111825
74-83-9	Bromomethane	1.10	U	1	1.10	5.00	ug/Kg	11/18/25 10:13	VW111825
75-00-3	Chloroethane	1.30	U	1	1.30	5.00	ug/Kg	11/18/25 10:13	VW111825
75-69-4	Trichlorofluoromethane	1.20	U	1	1.20	5.00	ug/Kg	11/18/25 10:13	VW111825
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1	1.10	5.00	ug/Kg	11/18/25 10:13	VW111825
75-35-4	1,1-Dichloroethene	1.00	U	1	1.00	5.00	ug/Kg	11/18/25 10:13	VW111825
67-64-1	Acetone	4.70	U	1	4.70	25.0	ug/Kg	11/18/25 10:13	VW111825
75-15-0	Carbon Disulfide	1.10	U	1	1.10	5.00	ug/Kg	11/18/25 10:13	VW111825
1634-04-4	Methyl tert-butyl Ether	0.73	U	1	0.73	5.00	ug/Kg	11/18/25 10:13	VW111825
79-20-9	Methyl Acetate	1.50	U	1	1.50	5.00	ug/Kg	11/18/25 10:13	VW111825
75-09-2	Methylene Chloride	3.50	U	1	3.50	10.0	ug/Kg	11/18/25 10:13	VW111825
156-60-5	trans-1,2-Dichloroethene	0.86	U	1	0.86	5.00	ug/Kg	11/18/25 10:13	VW111825
75-34-3	1,1-Dichloroethane	0.80	U	1	0.80	5.00	ug/Kg	11/18/25 10:13	VW111825
110-82-7	Cyclohexane	0.79	U	1	0.79	5.00	ug/Kg	11/18/25 10:13	VW111825
78-93-3	2-Butanone	6.50	U	1	6.50	25.0	ug/Kg	11/18/25 10:13	VW111825
56-23-5	Carbon Tetrachloride	0.97	U	1	0.97	5.00	ug/Kg	11/18/25 10:13	VW111825
156-59-2	cis-1,2-Dichloroethene	0.75	U	1	0.75	5.00	ug/Kg	11/18/25 10:13	VW111825
74-97-5	Bromochloromethane	1.20	U	1	1.20	5.00	ug/Kg	11/18/25 10:13	VW111825
67-66-3	Chloroform	0.84	U	1	0.84	5.00	ug/Kg	11/18/25 10:13	VW111825
71-55-6	1,1,1-Trichloroethane	0.93	U	1	0.93	5.00	ug/Kg	11/18/25 10:13	VW111825
108-87-2	Methylcyclohexane	0.91	U	1	0.91	5.00	ug/Kg	11/18/25 10:13	VW111825
71-43-2	Benzene	0.79	U	1	0.79	5.00	ug/Kg	11/18/25 10:13	VW111825
107-06-2	1,2-Dichloroethane	0.79	U	1	0.79	5.00	ug/Kg	11/18/25 10:13	VW111825
79-01-6	Trichloroethene	0.81	U	1	0.81	5.00	ug/Kg	11/18/25 10:13	VW111825
78-87-5	1,2-Dichloropropane	0.91	U	1	0.91	5.00	ug/Kg	11/18/25 10:13	VW111825
75-27-4	Bromodichloromethane	0.78	U	1	0.78	5.00	ug/Kg	11/18/25 10:13	VW111825
108-10-1	4-Methyl-2-Pentanone	3.60	U	1	3.60	25.0	ug/Kg	11/18/25 10:13	VW111825
108-88-3	Toluene	0.78	U	1	0.78	5.00	ug/Kg	11/18/25 10:13	VW111825
10061-02-6	t-1,3-Dichloropropene	0.65	U	1	0.65	5.00	ug/Kg	11/18/25 10:13	VW111825
10061-01-5	cis-1,3-Dichloropropene	0.62	U	1	0.62	5.00	ug/Kg	11/18/25 10:13	VW111825
79-00-5	1,1,2-Trichloroethane	0.92	U	1	0.92	5.00	ug/Kg	11/18/25 10:13	VW111825
591-78-6	2-Hexanone	3.70	U	1	3.70	25.0	ug/Kg	11/18/25 10:13	VW111825
124-48-1	Dibromochloromethane	0.87	U	1	0.87	5.00	ug/Kg	11/18/25 10:13	VW111825
106-93-4	1,2-Dibromoethane	0.88	U	1	0.88	5.00	ug/Kg	11/18/25 10:13	VW111825
127-18-4	Tetrachloroethene	1.10	U	1	1.10	5.00	ug/Kg	11/18/25 10:13	VW111825
108-90-7	Chlorobenzene	0.91	U	1	0.91	5.00	ug/Kg	11/18/25 10:13	VW111825
100-41-4	Ethyl Benzene	0.67	U	1	0.67	5.00	ug/Kg	11/18/25 10:13	VW111825
179601-23-1	m/p-Xylenes	1.20	U	1	1.20	10.0	ug/Kg	11/18/25 10:13	VW111825
95-47-6	o-Xylene	0.82	U	1	0.82	5.00	ug/Kg	11/18/25 10:13	VW111825
100-42-5	Styrene	0.71	U	1	0.71	5.00	ug/Kg	11/18/25 10:13	VW111825
75-25-2	Bromoform	0.86	U	1	0.86	5.00	ug/Kg	11/18/25 10:13	VW111825



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

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: VW1118SBL01
Lab Sample ID: VW1118SBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3649
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.78	U	1	0.78	5.00	ug/Kg	11/18/25 10:13	VW111825
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1	1.20	5.00	ug/Kg	11/18/25 10:13	VW111825
541-73-1	1,3-Dichlorobenzene	1.70	U	1	1.70	5.00	ug/Kg	11/18/25 10:13	VW111825
106-46-7	1,4-Dichlorobenzene	1.60	U	1	1.60	5.00	ug/Kg	11/18/25 10:13	VW111825
95-50-1	1,2-Dichlorobenzene	1.50	U	1	1.50	5.00	ug/Kg	11/18/25 10:13	VW111825
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1	1.80	5.00	ug/Kg	11/18/25 10:13	VW111825
120-82-1	1,2,4-Trichlorobenzene	3.00	U	1	3.00	5.00	ug/Kg	11/18/25 10:13	VW111825
87-61-6	1,2,3-Trichlorobenzene	3.20	U	1	3.20	5.00	ug/Kg	11/18/25 10:13	VW111825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	64.7			70 (63) - 130 (155)	129%	SPK: 50		
1868-53-7	Dibromofluoromethane	52.3			70 (70) - 130 (134)	105%	SPK: 50		
2037-26-5	Toluene-d8	47.4			70 (74) - 130 (123)	95%	SPK: 50		
460-00-4	4-Bromofluorobenzene	52.0			70 (52) - 130 (138)	104%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	213000							
540-36-3	1,4-Difluorobenzene	512000							
3114-55-4	Chlorobenzene-d5	534000							
3855-82-1	1,4-Dichlorobenzene-d4	261000							

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_W\Data\VW111825\
 Data File : VW032469.D
 Acq On : 18 Nov 2025 10:13
 Operator : SY/MD
 Sample : VW1118SBL01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1118SBL01

Quant Time: Nov 19 00:24:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	212726	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	511741	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	533709	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	261053	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	177417	64.691	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	129.380%
35) Dibromofluoromethane	7.898	113	160106	52.255	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	104.520%
50) Toluene-d8	10.325	98	557281	47.411	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	94.820%
62) 4-Bromofluorobenzene	12.617	95	231076	52.041	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	104.080%

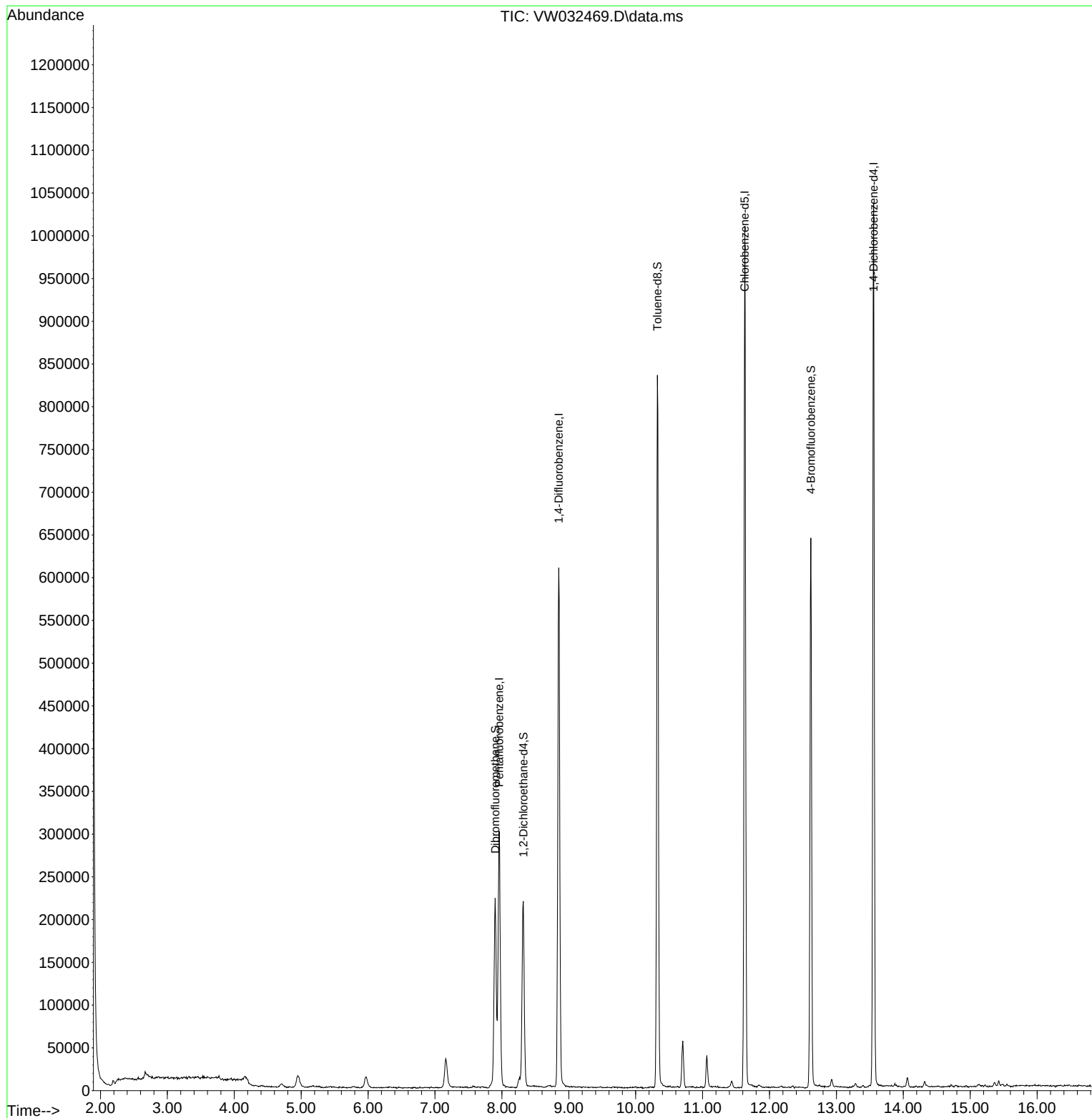
Target Compounds	Qvalue

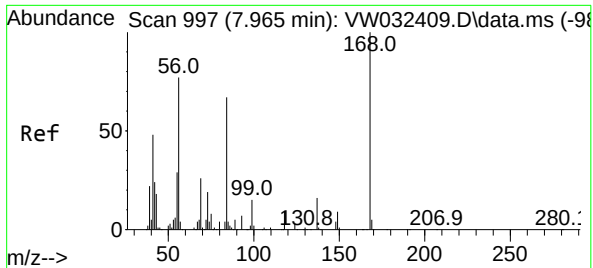
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032469.D
Acq On : 18 Nov 2025 10:13
Operator : SY/MD
Sample : VW1118SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1118SBL01

Quant Time: Nov 19 00:24:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

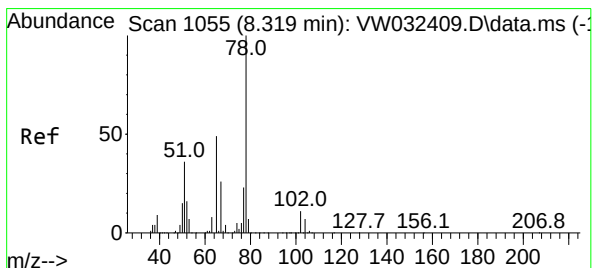
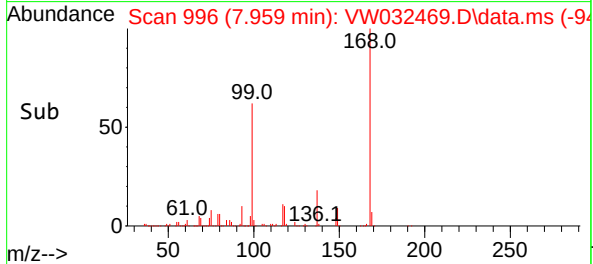
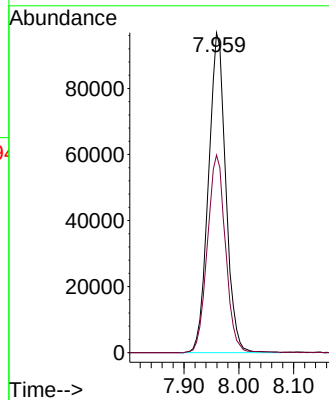
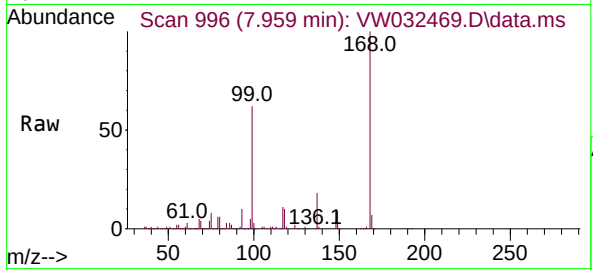




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 99
Delta R.T. -0.006 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

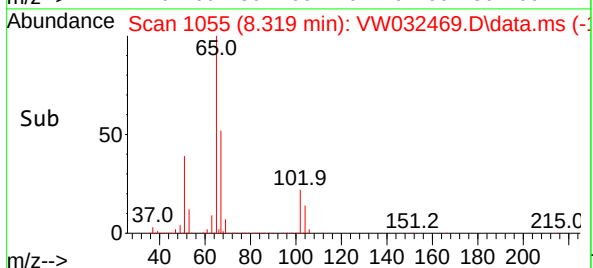
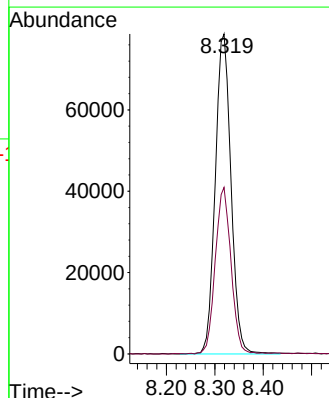
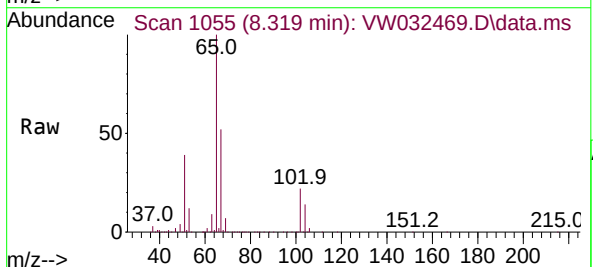
Instrument :
MSVOA_W
ClientSampleId :
VW1118SBL01

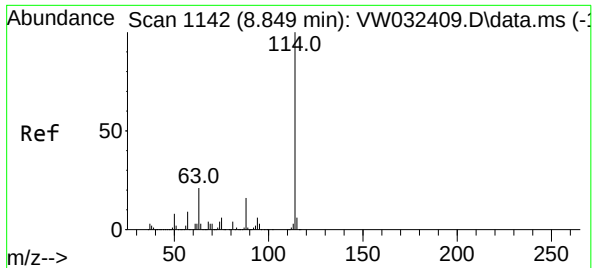
Tgt Ion:168 Resp: 212726
Ion Ratio Lower Upper
168 100
99 61.7 45.4 68.2



#33
1,2-Dichloroethane-d4
Concen: 64.691 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

Tgt Ion: 65 Resp: 177417
Ion Ratio Lower Upper
65 100
67 52.0 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VW032469.D

Acq: 18 Nov 2025 10:13

Instrument :

MSVOA_W

ClientSampleId :

VW1118SBL01

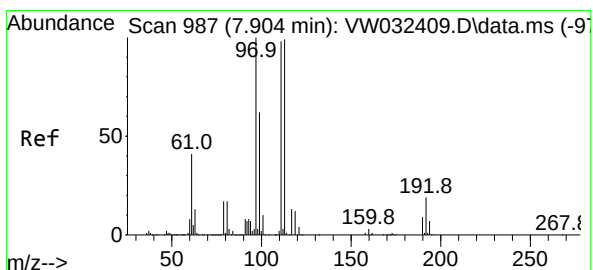
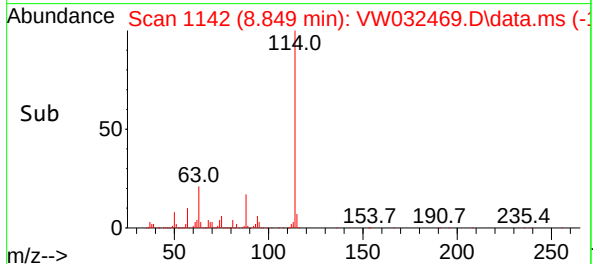
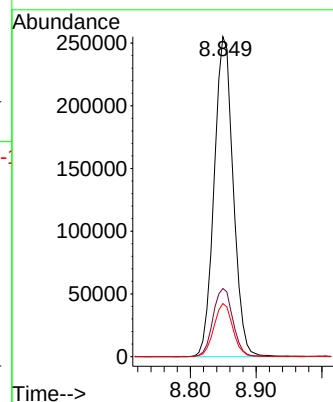
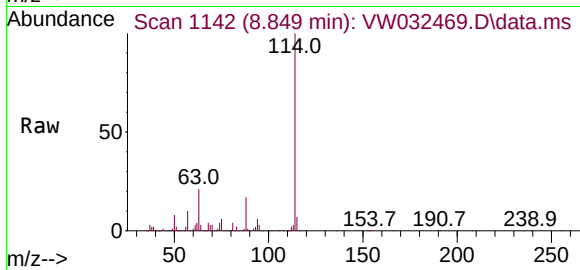
Tgt Ion:114 Resp: 511741

Ion Ratio Lower Upper

114 100

63 21.2 0.0 41.8

88 16.6 0.0 32.6



#35

Dibromofluoromethane

Concen: 52.255 ug/l

RT: 7.898 min Scan# 986

Delta R.T. -0.006 min

Lab File: VW032469.D

Acq: 18 Nov 2025 10:13

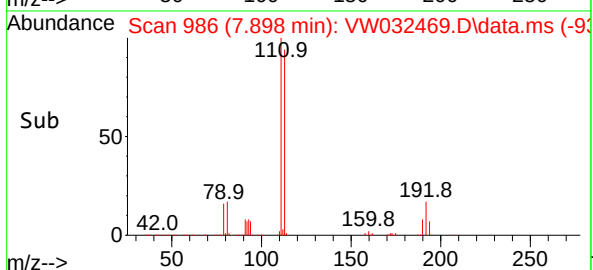
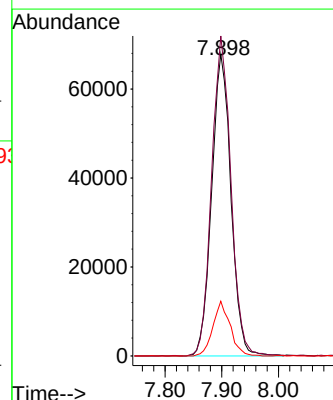
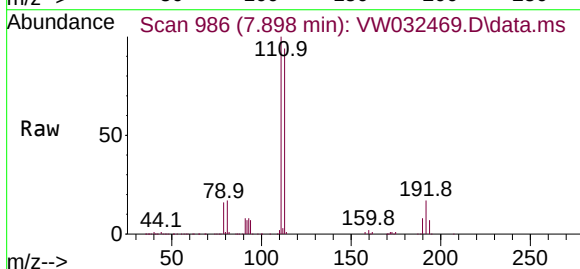
Tgt Ion:113 Resp: 160106

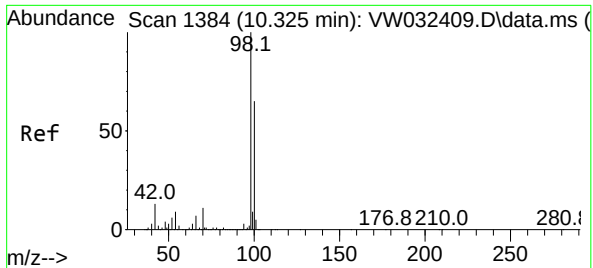
Ion Ratio Lower Upper

113 100

111 106.3 83.1 124.7

192 16.2 13.4 20.2

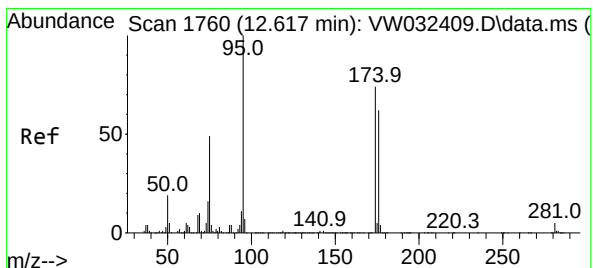
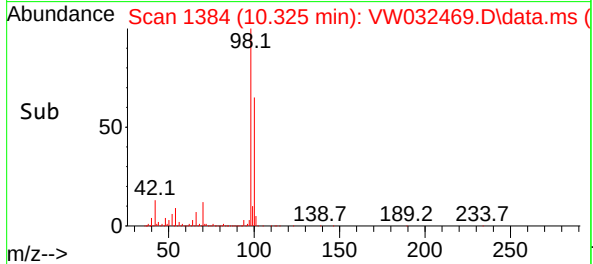
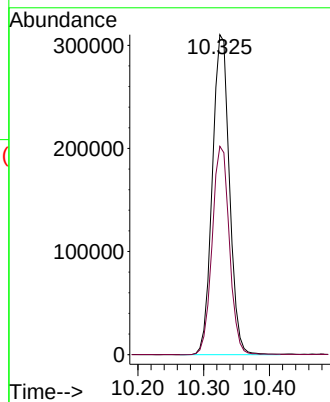
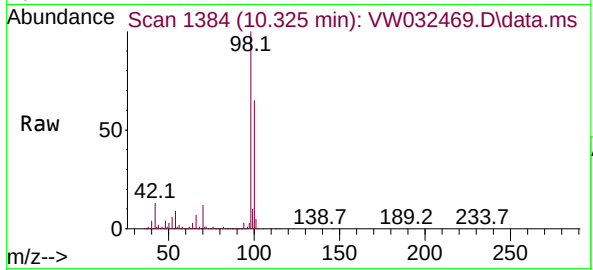




#50
Toluene-d8
Concen: 47.411 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

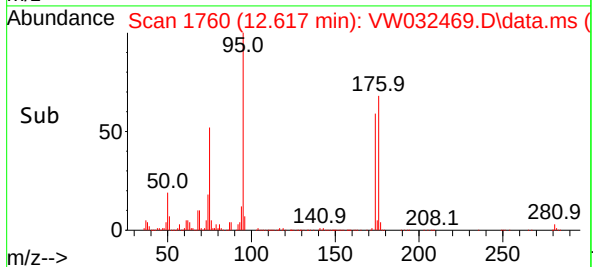
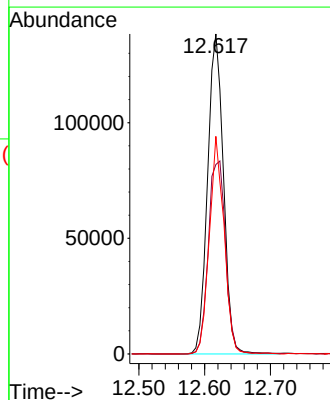
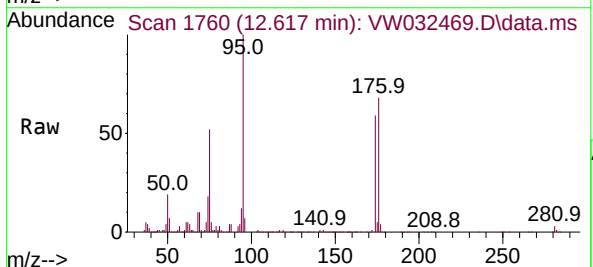
Instrument :
MSVOA_W
ClientSampleId :
VW1118SBL01

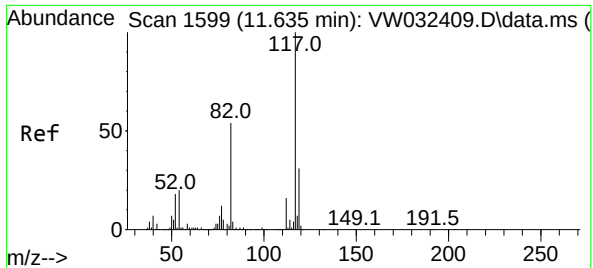
Tgt Ion: 98 Resp: 557281
Ion Ratio Lower Upper
98 100
100 65.7 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 52.041 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032469.D
Acq: 18 Nov 2025 10:13

Tgt Ion: 95 Resp: 231076
Ion Ratio Lower Upper
95 100
174 65.9 0.0 135.4
176 63.2 0.0 131.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.629 min Scan# 11

Delta R.T. -0.006 min

Lab File: VW032469.D

Acq: 18 Nov 2025 10:13

Instrument :

MSVOA_W

ClientSampleId :

VW1118SBL01

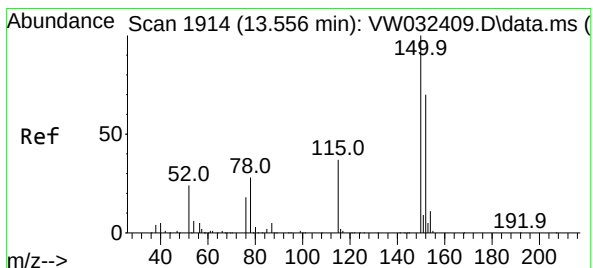
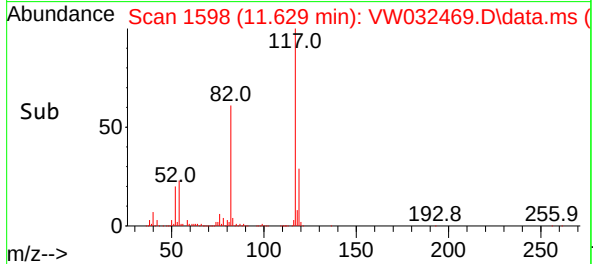
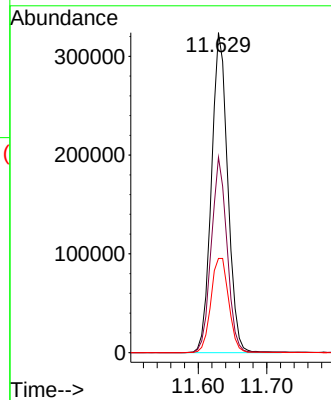
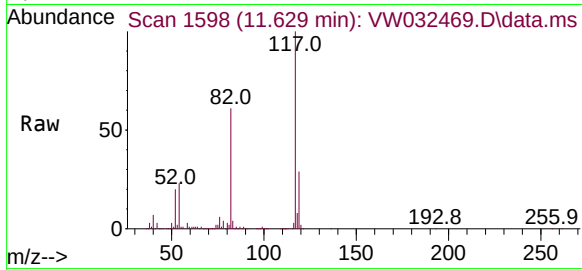
Tgt Ion:117 Resp: 533709

Ion Ratio Lower Upper

117 100

82 61.1 43.0 64.4

119 29.4 25.0 37.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. 0.000 min

Lab File: VW032469.D

Acq: 18 Nov 2025 10:13

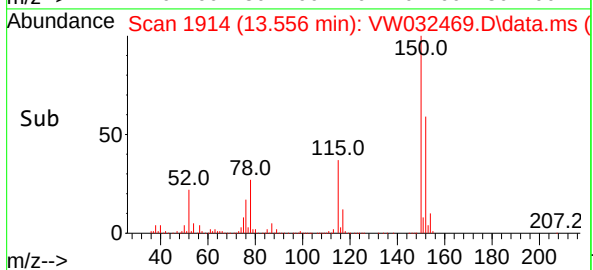
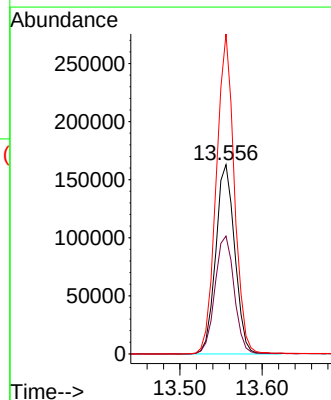
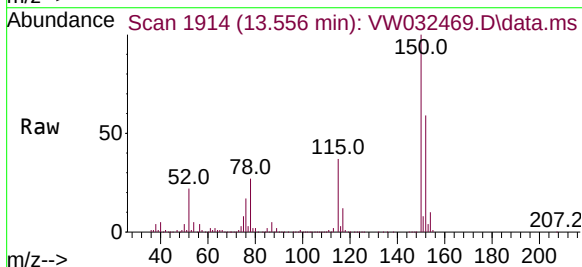
Tgt Ion:152 Resp: 261053

Ion Ratio Lower Upper

152 100

115 63.2 32.8 98.3

150 161.2 0.0 356.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032469.D
 Acq On : 18 Nov 2025 10:13
 Operator : SY/MD
 Sample : VW1118SBL01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1118SBL01

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_W\Method\82W111025S.M

Title : SW846 8260

Signal : TIC: VW032469.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.161	369	373	391	rVB4	11071	43701	2.60%	0.467%
2	4.948	492	502	512	rBV2	13471	48057	2.86%	0.514%
3	5.966	660	669	679	rBV3	12263	38239	2.28%	0.409%
4	7.161	853	865	881	rBV	33826	103208	6.14%	1.104%
5	7.898	967	986	991	rBV	222246	544155	32.39%	5.821%
6	7.959	991	996	1008	rVB	297872	664220	39.54%	7.105%
7	8.264	1038	1046	1047	rBV2	12295	22590	1.34%	0.242%
8	8.319	1047	1055	1066	rVB	216925	495353	29.49%	5.299%
9	8.849	1132	1142	1159	rBV	607114	1235417	73.54%	13.215%
10	10.325	1376	1384	1399	rBV	833056	1503059	89.48%	16.078%
11	10.703	1437	1446	1453	rVB2	54698	103756	6.18%	1.110%
12	11.062	1499	1505	1514	rBV2	37248	67476	4.02%	0.722%
13	11.434	1557	1566	1575	rVB4	7820	18193	1.08%	0.195%
14	11.629	1590	1598	1608	rBV	1007973	1679831	100.00%	17.969%
15	12.617	1749	1760	1771	rBV2	643060	1098098	65.37%	11.746%
16	12.928	1803	1811	1818	rBV5	8586	17157	1.02%	0.184%
17	13.556	1906	1914	1924	rBV	1033242	1643799	97.86%	17.583%
18	14.062	1990	1997	2004	rVB	11268	22417	1.33%	0.240%

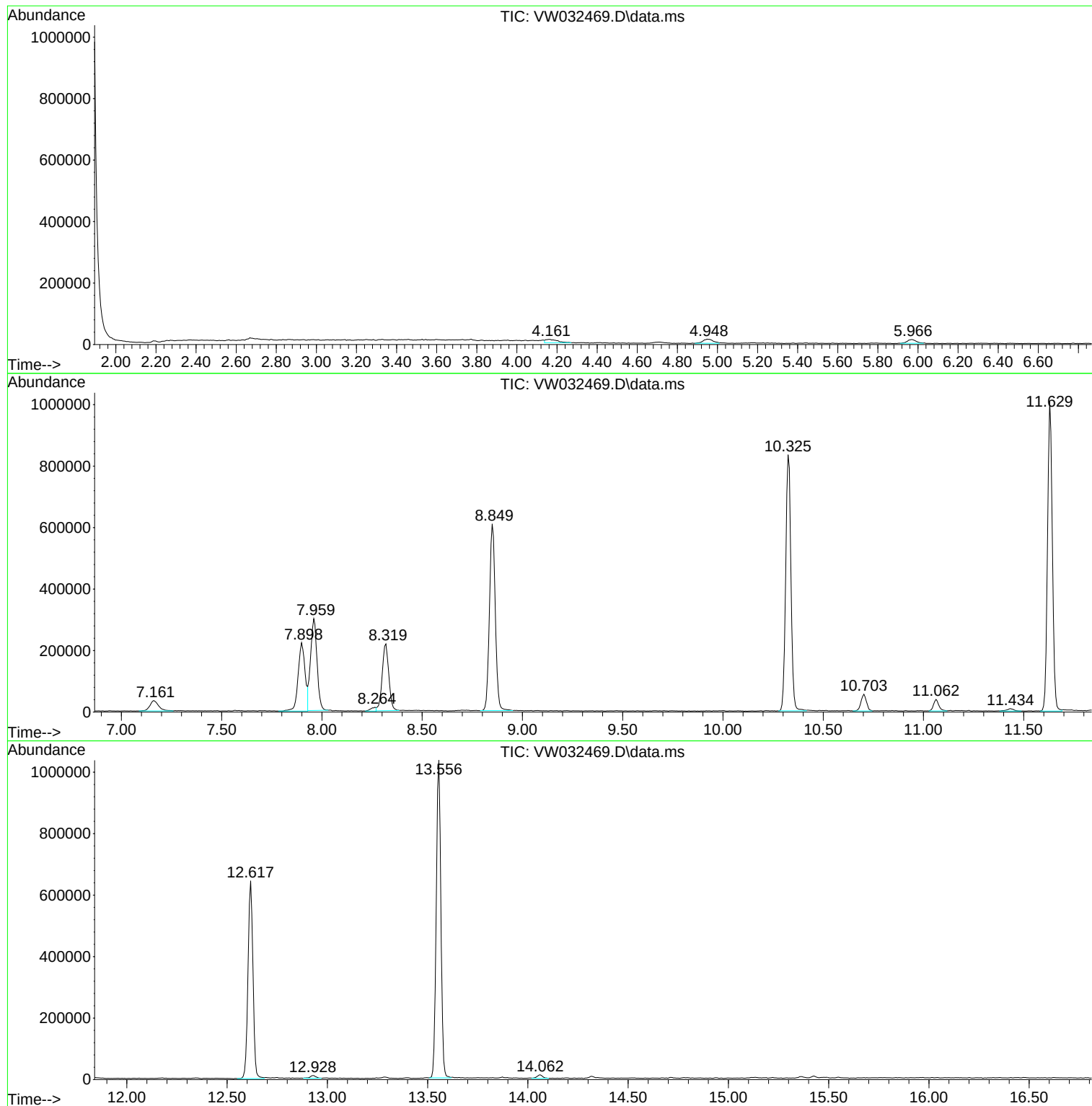
Sum of corrected areas: 9348726

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032469.D
Acq On : 18 Nov 2025 10:13
Operator : SY/MD
Sample : VW1118SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1118SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032469.D
Acq On : 18 Nov 2025 10:13
Operator : SY/MD
Sample : VW1118SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1118SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.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_W\Data\VW111825\
Data File : VW032469.D
Acq On : 18 Nov 2025 10:13
Operator : SY/MD
Sample : VW1118SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1118SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: VW1119SBL01
 Lab Sample ID: VW1119SBL01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 g

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3649
 Matrix: SOIL
 % Solid: 100
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.10	U	1	1.10	5.00	ug/Kg	11/19/25 10:36	VW111925
74-87-3	Chloromethane	1.10	U	1	1.10	5.00	ug/Kg	11/19/25 10:36	VW111925
75-01-4	Vinyl Chloride	0.79	U	1	0.79	5.00	ug/Kg	11/19/25 10:36	VW111925
74-83-9	Bromomethane	1.10	U	1	1.10	5.00	ug/Kg	11/19/25 10:36	VW111925
75-00-3	Chloroethane	1.30	U	1	1.30	5.00	ug/Kg	11/19/25 10:36	VW111925
75-69-4	Trichlorofluoromethane	1.20	U	1	1.20	5.00	ug/Kg	11/19/25 10:36	VW111925
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1	1.10	5.00	ug/Kg	11/19/25 10:36	VW111925
75-35-4	1,1-Dichloroethene	1.00	U	1	1.00	5.00	ug/Kg	11/19/25 10:36	VW111925
67-64-1	Acetone	4.70	U	1	4.70	25.0	ug/Kg	11/19/25 10:36	VW111925
75-15-0	Carbon Disulfide	1.10	U	1	1.10	5.00	ug/Kg	11/19/25 10:36	VW111925
1634-04-4	Methyl tert-butyl Ether	0.73	U	1	0.73	5.00	ug/Kg	11/19/25 10:36	VW111925
79-20-9	Methyl Acetate	1.50	U	1	1.50	5.00	ug/Kg	11/19/25 10:36	VW111925
75-09-2	Methylene Chloride	3.50	U	1	3.50	10.0	ug/Kg	11/19/25 10:36	VW111925
156-60-5	trans-1,2-Dichloroethene	0.86	U	1	0.86	5.00	ug/Kg	11/19/25 10:36	VW111925
75-34-3	1,1-Dichloroethane	0.80	U	1	0.80	5.00	ug/Kg	11/19/25 10:36	VW111925
110-82-7	Cyclohexane	0.79	U	1	0.79	5.00	ug/Kg	11/19/25 10:36	VW111925
78-93-3	2-Butanone	6.50	U	1	6.50	25.0	ug/Kg	11/19/25 10:36	VW111925
56-23-5	Carbon Tetrachloride	0.97	U	1	0.97	5.00	ug/Kg	11/19/25 10:36	VW111925
156-59-2	cis-1,2-Dichloroethene	0.75	U	1	0.75	5.00	ug/Kg	11/19/25 10:36	VW111925
74-97-5	Bromochloromethane	1.20	U	1	1.20	5.00	ug/Kg	11/19/25 10:36	VW111925
67-66-3	Chloroform	0.84	U	1	0.84	5.00	ug/Kg	11/19/25 10:36	VW111925
71-55-6	1,1,1-Trichloroethane	0.93	U	1	0.93	5.00	ug/Kg	11/19/25 10:36	VW111925
108-87-2	Methylcyclohexane	0.91	U	1	0.91	5.00	ug/Kg	11/19/25 10:36	VW111925
71-43-2	Benzene	0.79	U	1	0.79	5.00	ug/Kg	11/19/25 10:36	VW111925
107-06-2	1,2-Dichloroethane	0.79	U	1	0.79	5.00	ug/Kg	11/19/25 10:36	VW111925
79-01-6	Trichloroethene	0.81	U	1	0.81	5.00	ug/Kg	11/19/25 10:36	VW111925
78-87-5	1,2-Dichloropropane	0.91	U	1	0.91	5.00	ug/Kg	11/19/25 10:36	VW111925
75-27-4	Bromodichloromethane	0.78	U	1	0.78	5.00	ug/Kg	11/19/25 10:36	VW111925
108-10-1	4-Methyl-2-Pentanone	3.60	U	1	3.60	25.0	ug/Kg	11/19/25 10:36	VW111925
108-88-3	Toluene	0.78	U	1	0.78	5.00	ug/Kg	11/19/25 10:36	VW111925
10061-02-6	t-1,3-Dichloropropene	0.65	U	1	0.65	5.00	ug/Kg	11/19/25 10:36	VW111925
10061-01-5	cis-1,3-Dichloropropene	0.62	U	1	0.62	5.00	ug/Kg	11/19/25 10:36	VW111925
79-00-5	1,1,2-Trichloroethane	0.92	U	1	0.92	5.00	ug/Kg	11/19/25 10:36	VW111925
591-78-6	2-Hexanone	3.70	U	1	3.70	25.0	ug/Kg	11/19/25 10:36	VW111925
124-48-1	Dibromochloromethane	0.87	U	1	0.87	5.00	ug/Kg	11/19/25 10:36	VW111925
106-93-4	1,2-Dibromoethane	0.88	U	1	0.88	5.00	ug/Kg	11/19/25 10:36	VW111925
127-18-4	Tetrachloroethene	1.10	U	1	1.10	5.00	ug/Kg	11/19/25 10:36	VW111925
108-90-7	Chlorobenzene	0.91	U	1	0.91	5.00	ug/Kg	11/19/25 10:36	VW111925
100-41-4	Ethyl Benzene	0.67	U	1	0.67	5.00	ug/Kg	11/19/25 10:36	VW111925
179601-23-1	m/p-Xylenes	1.20	U	1	1.20	10.0	ug/Kg	11/19/25 10:36	VW111925
95-47-6	o-Xylene	0.82	U	1	0.82	5.00	ug/Kg	11/19/25 10:36	VW111925
100-42-5	Styrene	0.71	U	1	0.71	5.00	ug/Kg	11/19/25 10:36	VW111925
75-25-2	Bromoform	0.86	U	1	0.86	5.00	ug/Kg	11/19/25 10:36	VW111925



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

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: VW1119SBL01
Lab Sample ID: VW1119SBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3649
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.78	U	1	0.78	5.00	ug/Kg	11/19/25 10:36	VW111925
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1	1.20	5.00	ug/Kg	11/19/25 10:36	VW111925
541-73-1	1,3-Dichlorobenzene	1.70	U	1	1.70	5.00	ug/Kg	11/19/25 10:36	VW111925
106-46-7	1,4-Dichlorobenzene	1.60	U	1	1.60	5.00	ug/Kg	11/19/25 10:36	VW111925
95-50-1	1,2-Dichlorobenzene	1.50	U	1	1.50	5.00	ug/Kg	11/19/25 10:36	VW111925
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1	1.80	5.00	ug/Kg	11/19/25 10:36	VW111925
120-82-1	1,2,4-Trichlorobenzene	3.00	U	1	3.00	5.00	ug/Kg	11/19/25 10:36	VW111925
87-61-6	1,2,3-Trichlorobenzene	3.20	U	1	3.20	5.00	ug/Kg	11/19/25 10:36	VW111925
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	60.5			70 (63) - 130 (155)	121%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.6			70 (70) - 130 (134)	103%	SPK: 50		
2037-26-5	Toluene-d8	45.5			70 (74) - 130 (123)	91%	SPK: 50		
460-00-4	4-Bromofluorobenzene	54.4			70 (52) - 130 (138)	109%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	218000							
540-36-3	1,4-Difluorobenzene	509000							
3114-55-4	Chlorobenzene-d5	542000							
3855-82-1	1,4-Dichlorobenzene-d4	261000							

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_W\Data\VW111925\
 Data File : VW032491.D
 Acq On : 19 Nov 2025 10:36
 Operator : SY/MD
 Sample : VW1119SBL01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1119SBL01

Quant Time: Nov 20 01:15:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	218109	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	508852	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	541801	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	260882	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.313	65	170243	60.543	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	121.080%
35) Dibromofluoromethane	7.898	113	157341	51.644	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	103.280%
50) Toluene-d8	10.325	98	531813	45.501	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	91.000%
62) 4-Bromofluorobenzene	12.617	95	240405	54.449	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	108.900%

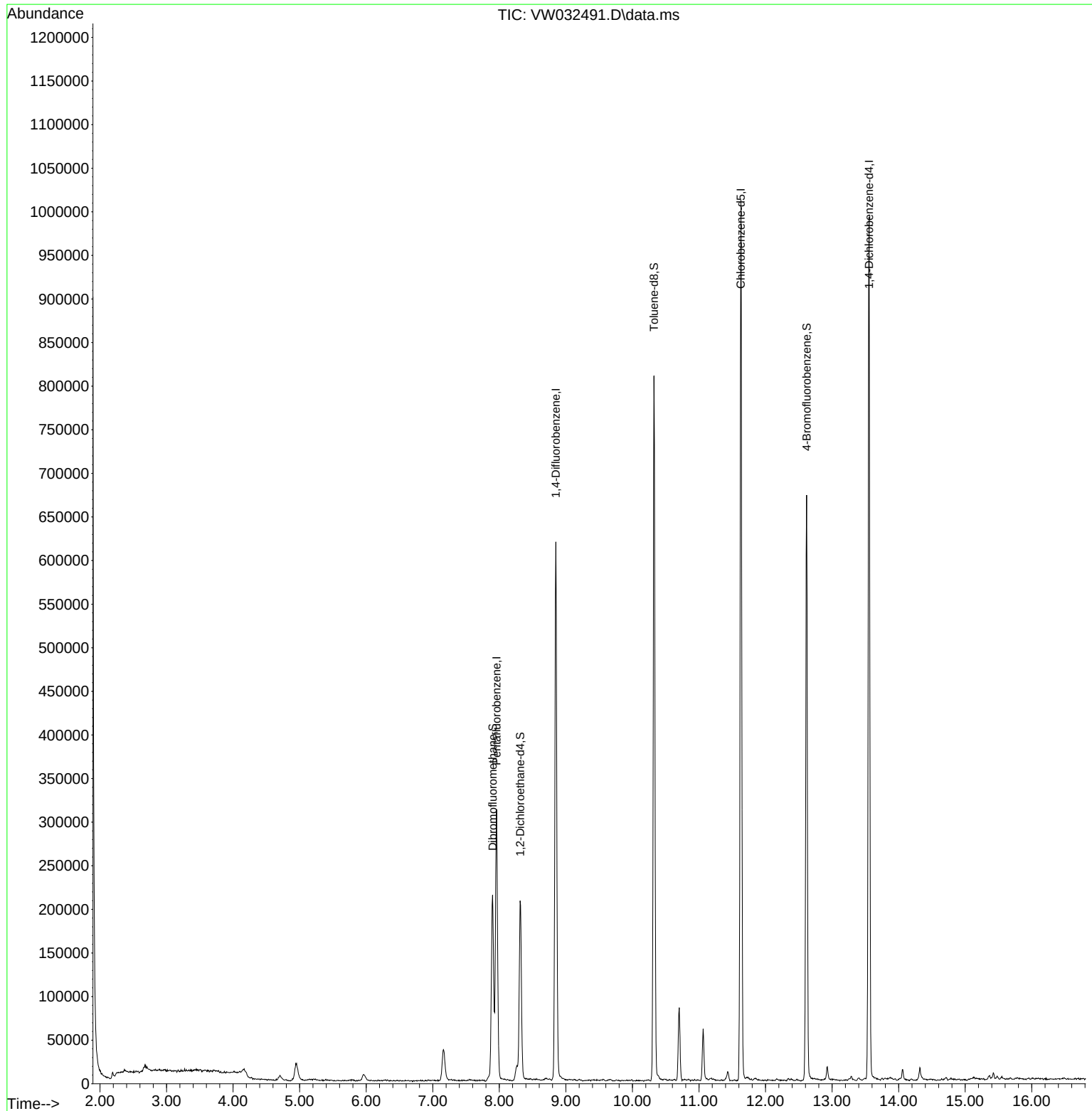
Target Compounds	Qvalue

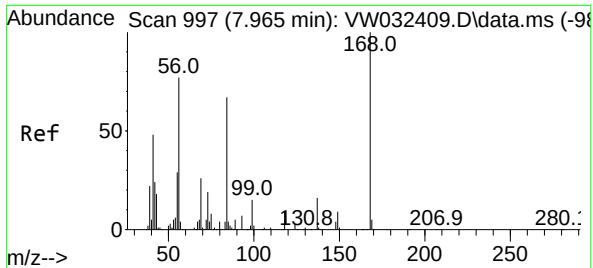
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032491.D
Acq On : 19 Nov 2025 10:36
Operator : SY/MD
Sample : VW1119SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1119SBL01

Quant Time: Nov 20 01:15:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

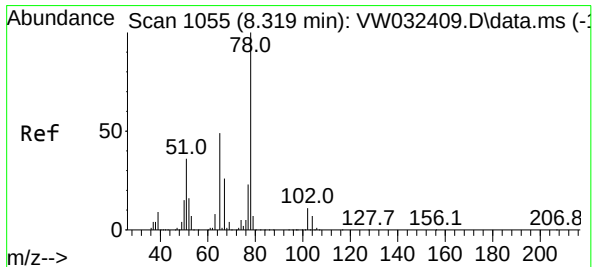
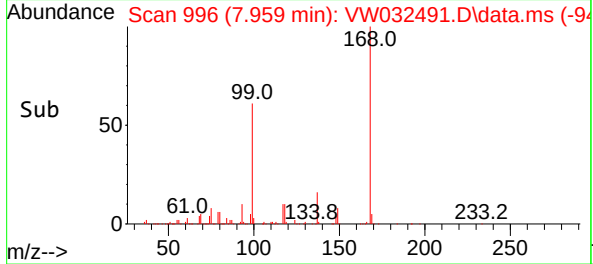
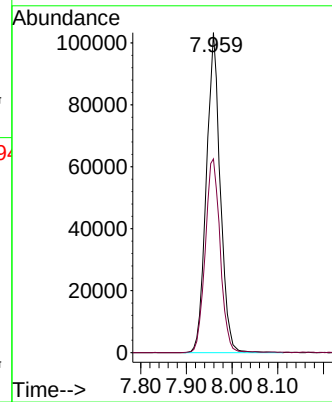
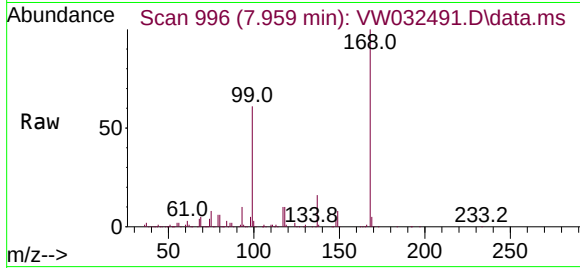




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 99
Delta R.T. -0.006 min
Lab File: VW032491.D
Acq: 19 Nov 2025 10:36

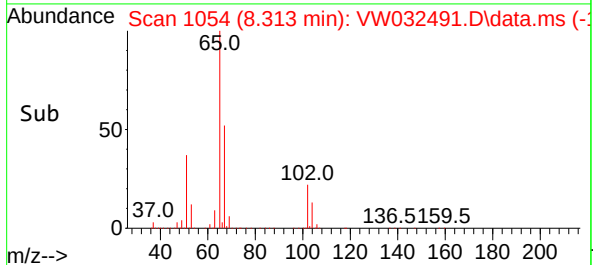
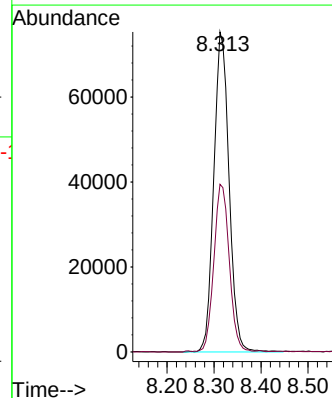
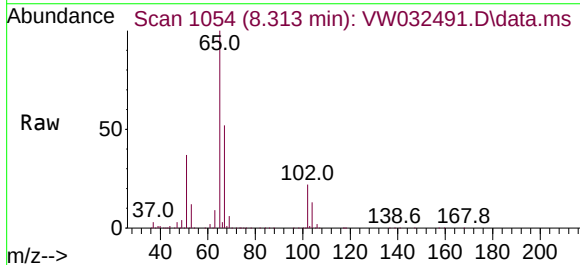
Instrument :
MSVOA_W
ClientSampleId :
VW1119SBL01

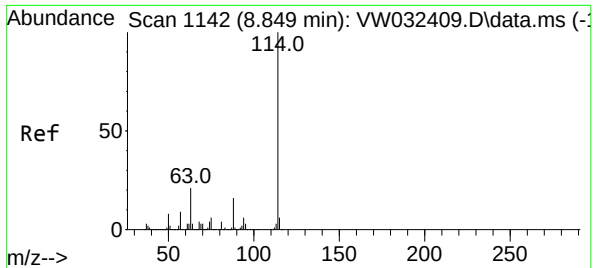
Tgt Ion:168 Resp: 218109
Ion Ratio Lower Upper
168 100
99 60.5 45.4 68.2



#33
1,2-Dichloroethane-d4
Concen: 60.543 ug/l
RT: 8.313 min Scan# 1054
Delta R.T. -0.006 min
Lab File: VW032491.D
Acq: 19 Nov 2025 10:36

Tgt Ion: 65 Resp: 170243
Ion Ratio Lower Upper
65 100
67 52.7 0.0 106.8

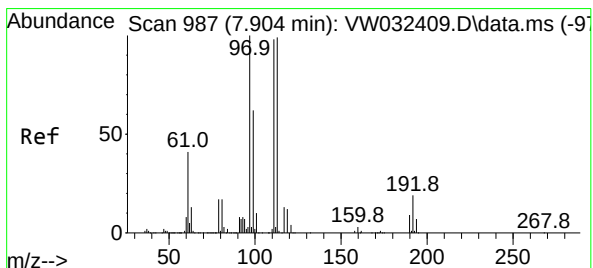
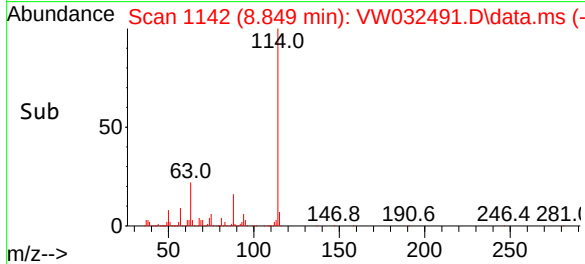
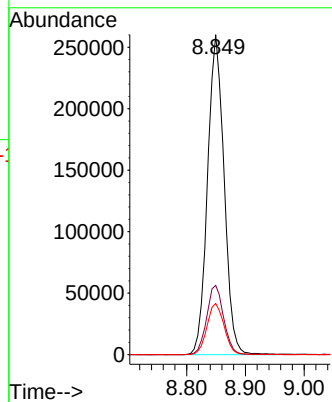
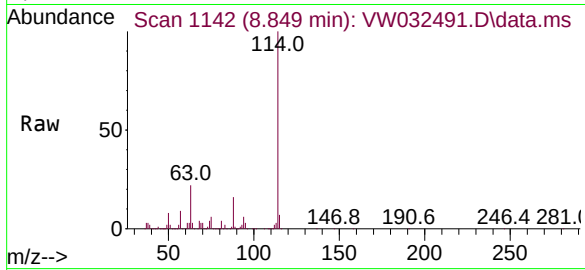




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032491.D
Acq: 19 Nov 2025 10:36

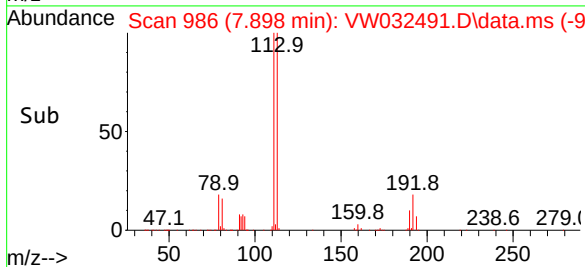
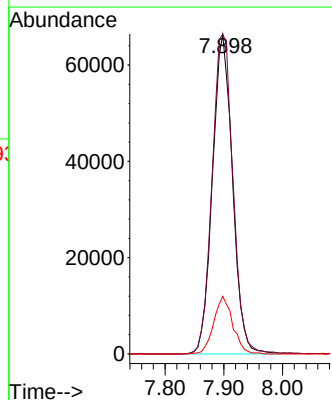
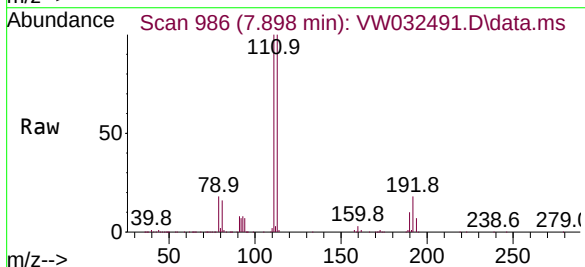
Instrument :
MSVOA_W
ClientSampleId :
VW1119SBL01

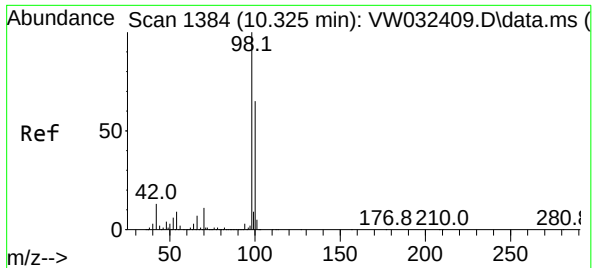
Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	41.8
88	16.0	0.0	32.6



#35
Dibromofluoromethane
Concen: 51.644 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032491.D
Acq: 19 Nov 2025 10:36

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.2	83.1	124.7
192	17.1	13.4	20.2





#50

Toluene-d8

Concen: 45.501 ug/l

RT: 10.325 min Scan# 1384

Delta R.T. 0.000 min

Lab File: VW032491.D

Acq: 19 Nov 2025 10:36

Instrument :

MSVOA_W

ClientSampleId :

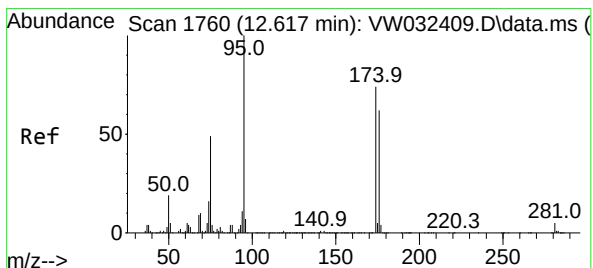
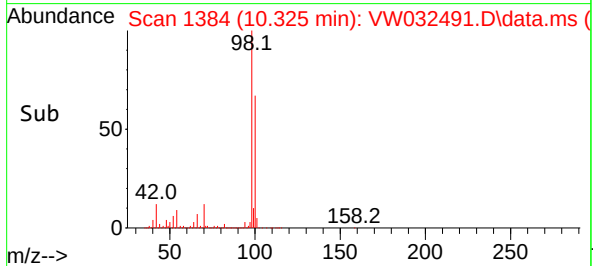
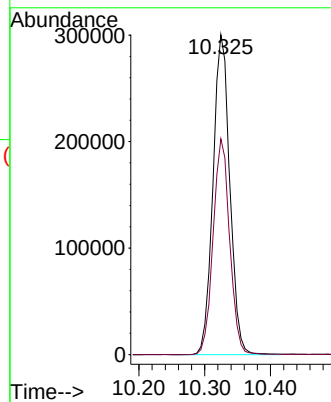
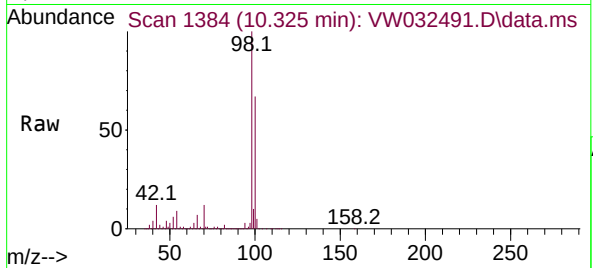
VW1119SBL01

Tgt Ion: 98 Resp: 531813

Ion Ratio Lower Upper

98 100

100 66.5 53.3 79.9



#62

4-Bromofluorobenzene

Concen: 54.449 ug/l

RT: 12.617 min Scan# 1760

Delta R.T. 0.000 min

Lab File: VW032491.D

Acq: 19 Nov 2025 10:36

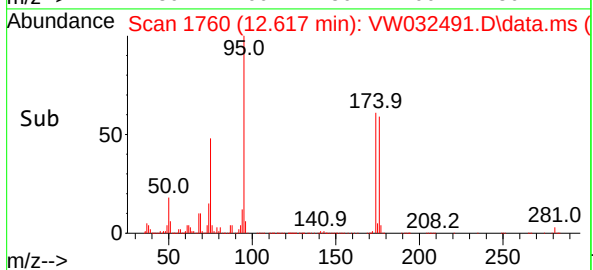
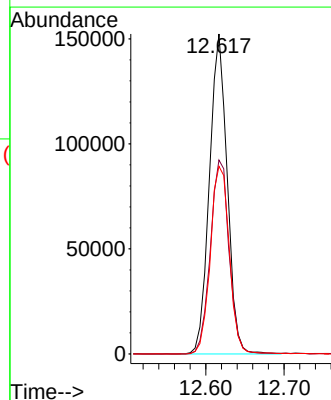
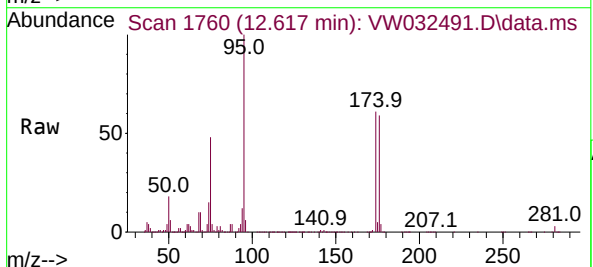
Tgt Ion: 95 Resp: 240405

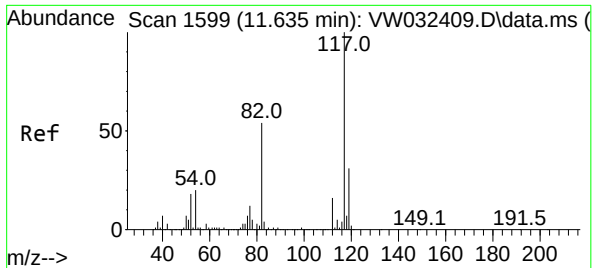
Ion Ratio Lower Upper

95 100

174 64.1 0.0 135.4

176 62.7 0.0 131.8

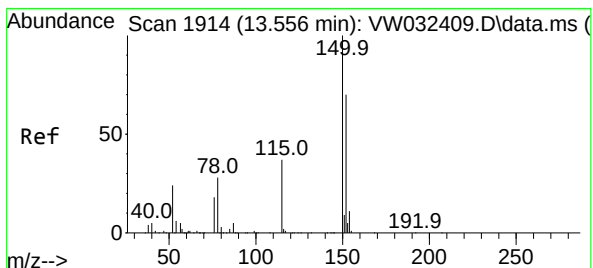
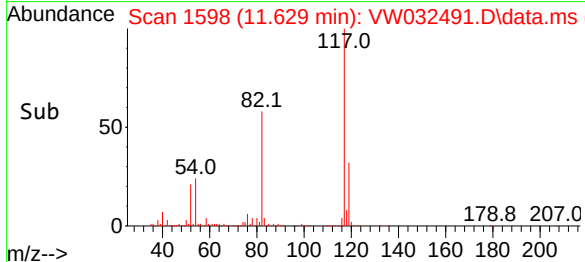
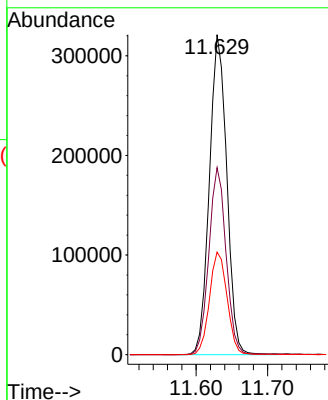
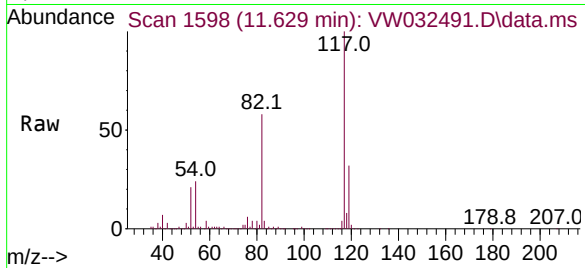




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW032491.D
Acq: 19 Nov 2025 10:36

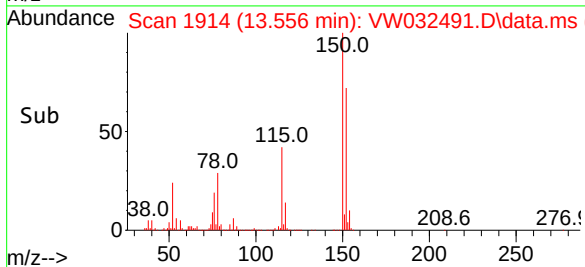
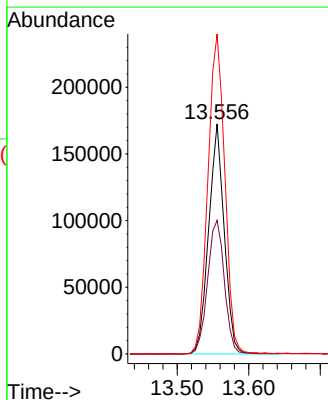
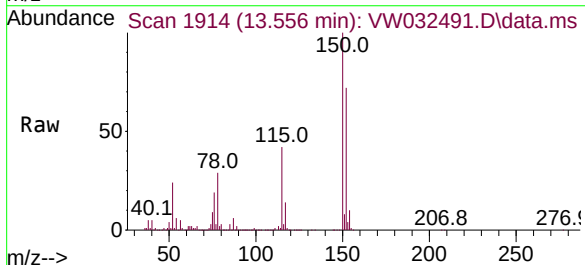
Instrument :
MSVOA_W
ClientSampleId :
VW1119SBL01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.4	43.0	64.4
119	32.0	25.0	37.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032491.D
Acq: 19 Nov 2025 10:36

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.6	32.8	98.3
150	150.5	0.0	356.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032491.D
Acq On : 19 Nov 2025 10:36
Operator : SY/MD
Sample : VW1119SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1119SBL01

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_W\Method\82W111025S.M

Title : SW846 8260

Signal : TIC: VW032491.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.954	494	503	514	rVB2	18365	59377	3.49%	0.631%
2	5.960	663	668	678	rVB9	6332	18568	1.09%	0.197%
3	7.161	855	865	878	rBV2	35593	111167	6.54%	1.182%
4	7.898	969	986	991	rBV	213556	542405	31.92%	5.766%
5	7.959	991	996	1009	rVB	309488	674109	39.67%	7.166%
6	8.264	1038	1046	1047	rBV2	16827	32443	1.91%	0.345%
7	8.313	1047	1054	1067	rVB	204882	474348	27.92%	5.042%
8	8.849	1131	1142	1158	rBV	617581	1240044	72.98%	13.181%
9	10.325	1376	1384	1401	rBV	808698	1452429	85.48%	15.439%
10	10.703	1438	1446	1453	rVB	83745	156109	9.19%	1.659%
11	11.062	1499	1505	1513	rBV2	59277	105261	6.19%	1.119%
12	11.428	1556	1565	1571	rVB4	10446	23946	1.41%	0.255%
13	11.629	1590	1598	1609	rBV	1009897	1699131	100.00%	18.061%
14	12.617	1751	1760	1771	rBV	671078	1129752	66.49%	12.009%
15	12.928	1805	1811	1817	rBV4	14579	24078	1.42%	0.256%
16	13.556	1906	1914	1924	rBV	988308	1614460	95.02%	17.161%
17	14.056	1990	1996	2003	rVB	11568	20206	1.19%	0.215%
18	14.318	2032	2039	2048	rBV5	14090	29788	1.75%	0.317%

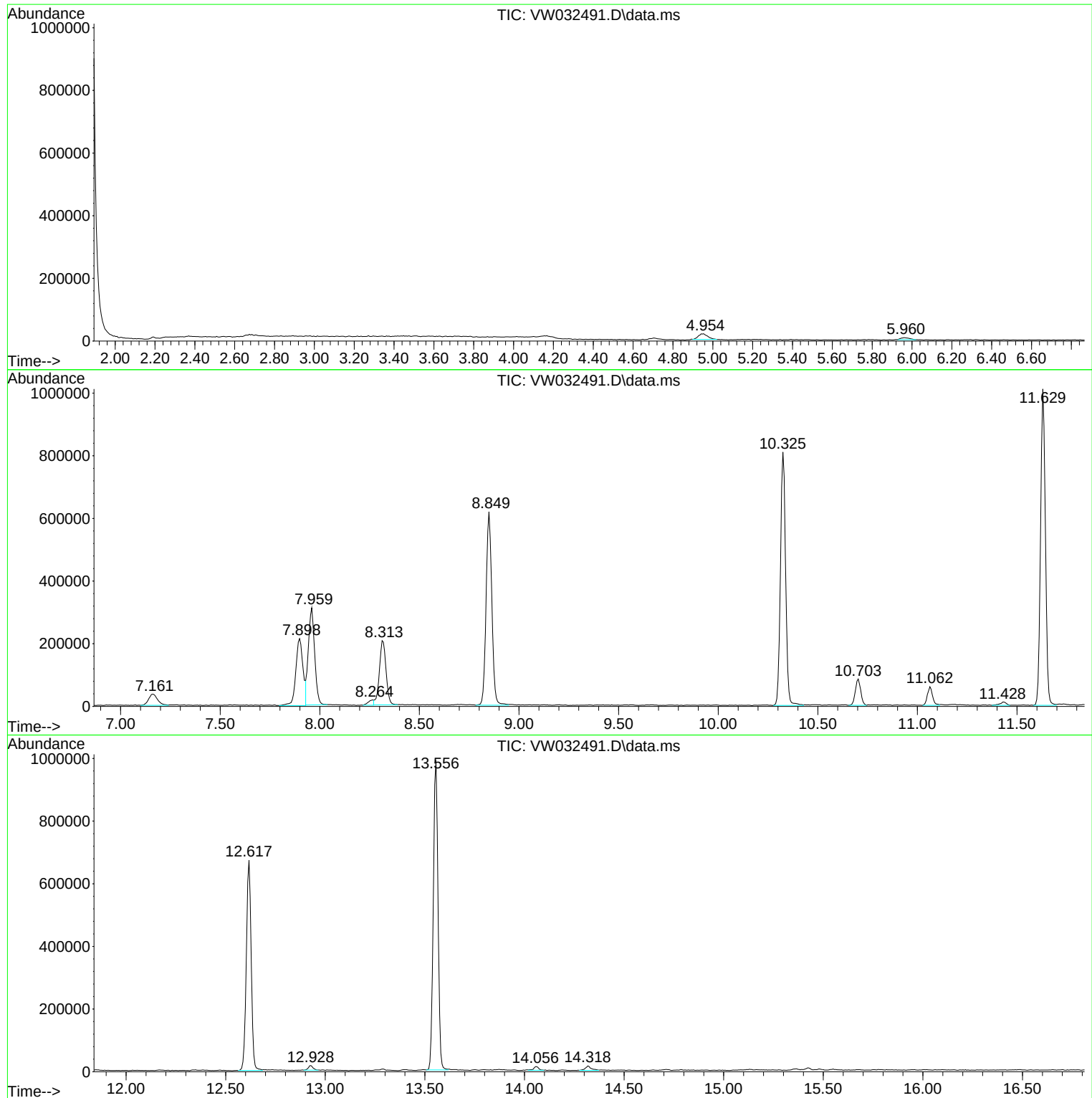
Sum of corrected areas: 9407621

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032491.D
Acq On : 19 Nov 2025 10:36
Operator : SY/MD
Sample : VW1119SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1119SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032491.D
Acq On : 19 Nov 2025 10:36
Operator : SY/MD
Sample : VW1119SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1119SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.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_W\Data\VW111925\
Data File : VW032491.D
Acq On : 19 Nov 2025 10:36
Operator : SY/MD
Sample : VW1119SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1119SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260

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

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

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: VW1118SBS01
Lab Sample ID: VW1118SBS01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3649
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	20.6		1	1.10	5.00	ug/Kg	11/18/25 10:40	VW111825
74-87-3	Chloromethane	22.4		1	1.10	5.00	ug/Kg	11/18/25 10:40	VW111825
75-01-4	Vinyl Chloride	22.2		1	0.79	5.00	ug/Kg	11/18/25 10:40	VW111825
74-83-9	Bromomethane	21.5		1	1.10	5.00	ug/Kg	11/18/25 10:40	VW111825
75-00-3	Chloroethane	21.2		1	1.30	5.00	ug/Kg	11/18/25 10:40	VW111825
75-69-4	Trichlorofluoromethane	18.4		1	1.20	5.00	ug/Kg	11/18/25 10:40	VW111825
76-13-1	1,1,2-Trichlorotrifluoroethane	21.8		1	1.10	5.00	ug/Kg	11/18/25 10:40	VW111825
75-35-4	1,1-Dichloroethene	21.9		1	1.00	5.00	ug/Kg	11/18/25 10:40	VW111825
67-64-1	Acetone	110		1	4.70	25.0	ug/Kg	11/18/25 10:40	VW111825
75-15-0	Carbon Disulfide	21.0		1	1.10	5.00	ug/Kg	11/18/25 10:40	VW111825
1634-04-4	Methyl tert-butyl Ether	20.8		1	0.73	5.00	ug/Kg	11/18/25 10:40	VW111825
79-20-9	Methyl Acetate	20.2		1	1.50	5.00	ug/Kg	11/18/25 10:40	VW111825
75-09-2	Methylene Chloride	24.2		1	3.50	10.0	ug/Kg	11/18/25 10:40	VW111825
156-60-5	trans-1,2-Dichloroethene	21.8		1	0.86	5.00	ug/Kg	11/18/25 10:40	VW111825
75-34-3	1,1-Dichloroethane	22.2		1	0.80	5.00	ug/Kg	11/18/25 10:40	VW111825
110-82-7	Cyclohexane	21.9		1	0.79	5.00	ug/Kg	11/18/25 10:40	VW111825
78-93-3	2-Butanone	100		1	6.50	25.0	ug/Kg	11/18/25 10:40	VW111825
56-23-5	Carbon Tetrachloride	21.6		1	0.97	5.00	ug/Kg	11/18/25 10:40	VW111825
156-59-2	cis-1,2-Dichloroethene	21.1		1	0.75	5.00	ug/Kg	11/18/25 10:40	VW111825
74-97-5	Bromochloromethane	22.7		1	1.20	5.00	ug/Kg	11/18/25 10:40	VW111825
67-66-3	Chloroform	22.5		1	0.84	5.00	ug/Kg	11/18/25 10:40	VW111825
71-55-6	1,1,1-Trichloroethane	21.7		1	0.93	5.00	ug/Kg	11/18/25 10:40	VW111825
108-87-2	Methylcyclohexane	20.6		1	0.91	5.00	ug/Kg	11/18/25 10:40	VW111825
71-43-2	Benzene	21.9		1	0.79	5.00	ug/Kg	11/18/25 10:40	VW111825
107-06-2	1,2-Dichloroethane	22.2		1	0.79	5.00	ug/Kg	11/18/25 10:40	VW111825
79-01-6	Trichloroethene	21.3		1	0.81	5.00	ug/Kg	11/18/25 10:40	VW111825
78-87-5	1,2-Dichloropropane	22.1		1	0.91	5.00	ug/Kg	11/18/25 10:40	VW111825
75-27-4	Bromodichloromethane	21.8		1	0.78	5.00	ug/Kg	11/18/25 10:40	VW111825
108-10-1	4-Methyl-2-Pentanone	110		1	3.60	25.0	ug/Kg	11/18/25 10:40	VW111825
108-88-3	Toluene	21.6		1	0.78	5.00	ug/Kg	11/18/25 10:40	VW111825
10061-02-6	t-1,3-Dichloropropene	20.5		1	0.65	5.00	ug/Kg	11/18/25 10:40	VW111825
10061-01-5	cis-1,3-Dichloropropene	20.8		1	0.62	5.00	ug/Kg	11/18/25 10:40	VW111825
79-00-5	1,1,2-Trichloroethane	21.3		1	0.92	5.00	ug/Kg	11/18/25 10:40	VW111825
591-78-6	2-Hexanone	100		1	3.70	25.0	ug/Kg	11/18/25 10:40	VW111825
124-48-1	Dibromochloromethane	20.9		1	0.87	5.00	ug/Kg	11/18/25 10:40	VW111825
106-93-4	1,2-Dibromoethane	21.4		1	0.88	5.00	ug/Kg	11/18/25 10:40	VW111825
127-18-4	Tetrachloroethene	21.7		1	1.10	5.00	ug/Kg	11/18/25 10:40	VW111825
108-90-7	Chlorobenzene	21.6		1	0.91	5.00	ug/Kg	11/18/25 10:40	VW111825
100-41-4	Ethyl Benzene	21.2		1	0.67	5.00	ug/Kg	11/18/25 10:40	VW111825
179601-23-1	m/p-Xylenes	43.5		1	1.20	10.0	ug/Kg	11/18/25 10:40	VW111825
95-47-6	o-Xylene	21.4		1	0.82	5.00	ug/Kg	11/18/25 10:40	VW111825
100-42-5	Styrene	21.6		1	0.71	5.00	ug/Kg	11/18/25 10:40	VW111825
75-25-2	Bromoform	20.1		1	0.86	5.00	ug/Kg	11/18/25 10:40	VW111825



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

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: VW1118SBS01
Lab Sample ID: VW1118SBS01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3649
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	20.1		1	0.78	5.00	ug/Kg	11/18/25 10:40	VW111825
79-34-5	1,1,2,2-Tetrachloroethane	21.1		1	1.20	5.00	ug/Kg	11/18/25 10:40	VW111825
541-73-1	1,3-Dichlorobenzene	21.2		1	1.70	5.00	ug/Kg	11/18/25 10:40	VW111825
106-46-7	1,4-Dichlorobenzene	20.7		1	1.60	5.00	ug/Kg	11/18/25 10:40	VW111825
95-50-1	1,2-Dichlorobenzene	21.1		1	1.50	5.00	ug/Kg	11/18/25 10:40	VW111825
96-12-8	1,2-Dibromo-3-Chloropropane	19.2		1	1.80	5.00	ug/Kg	11/18/25 10:40	VW111825
120-82-1	1,2,4-Trichlorobenzene	20.1		1	3.00	5.00	ug/Kg	11/18/25 10:40	VW111825
87-61-6	1,2,3-Trichlorobenzene	20.0		1	3.20	5.00	ug/Kg	11/18/25 10:40	VW111825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	53.7			70 (63) - 130 (155)	107%	SPK: 50		
1868-53-7	Dibromofluoromethane	52.0			70 (70) - 130 (134)	104%	SPK: 50		
2037-26-5	Toluene-d8	52.0			70 (74) - 130 (123)	104%	SPK: 50		
460-00-4	4-Bromofluorobenzene	51.7			70 (52) - 130 (138)	103%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	368000							
540-36-3	1,4-Difluorobenzene	685000							
3114-55-4	Chlorobenzene-d5	608000							
3855-82-1	1,4-Dichlorobenzene-d4	294000							

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_W\Data\VW111825\
 Data File : VW032470.D
 Acq On : 18 Nov 2025 10:40
 Operator : SY/MD
 Sample : VW1118SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1118SBS01

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:24:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	368383	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	685400	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	608119	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	294055	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.319	65	255196	53.733	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	= 107.460%	
35) Dibromofluoromethane	7.898	113	213451	52.015	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	= 104.020%	
50) Toluene-d8	10.325	98	818872	52.015	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	= 104.040%	
62) 4-Bromofluorobenzene	12.617	95	307374	51.685	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	= 103.360%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.046	85	38488	20.593	ug/l	99
3) Chloromethane	2.253	50	71618	22.355	ug/l	93
4) Vinyl Chloride	2.405	62	89842	22.221	ug/l	99
5) Bromomethane	2.820	94	58280	21.549	ug/l	97
6) Chloroethane	2.960	64	56196	21.244	ug/l	97
7) Trichlorofluoromethane	3.301	101	58389	18.419	ug/l	94
8) Diethyl Ether	3.716	74	55714	21.497	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.100	101	75306	21.808	ug/l	98
10) Methyl Iodide	4.307	142	119544	21.494	ug/l	98
11) Tert butyl alcohol	5.210	59	48334	117.694	ug/l	97
12) 1,1-Dichloroethene	4.076	96	86906	21.948	ug/l	93
13) Acrolein	3.923	56	64287	93.300	ug/l	99
14) Allyl chloride	4.704	41	159169	20.903	ug/l	97
15) Acrylonitrile	5.399	53	160342	107.002	ug/l	99
16) Acetone	4.155	43	156966	110.471	ug/l	97
17) Carbon Disulfide	4.417	76	245893	21.011	ug/l	99
18) Methyl Acetate	4.710	43	70931	20.159	ug/l	99
19) Methyl tert-butyl Ether	5.460	73	173277	20.760	ug/l	98
20) Methylene Chloride	4.954	84	122854	24.177	ug/l	97
21) trans-1,2-Dichloroethene	5.460	96	98918	21.848	ug/l	96
22) Diisopropyl ether	6.337	45	341073	22.000	ug/l	99
23) Vinyl Acetate	6.283	43	1141803	107.495	ug/l	98
24) 1,1-Dichloroethane	6.240	63	188427	22.184	ug/l	99
25) 2-Butanone	7.191	43	215588	102.988	ug/l	99
26) 2,2-Dichloropropane	7.179	77	103861	21.940	ug/l	97
27) cis-1,2-Dichloroethene	7.185	96	114228	21.115	ug/l	94
28) Bromochloromethane	7.532	49	91122	22.698	ug/l	98
29) Tetrahydrofuran	7.551	42	140459	105.716	ug/l	99
30) Chloroform	7.691	83	187382	22.535	ug/l	96
31) Cyclohexane	7.965	56	171770	21.862	ug/l	97
32) 1,1,1-Trichloroethane	7.886	97	129040	21.723	ug/l	97
36) 1,1-Dichloropropene	8.099	75	131104	21.683	ug/l	99
37) Ethyl Acetate	7.270	43	95031	21.137	ug/l	99
38) Carbon Tetrachloride	8.081	117	116247	21.638	ug/l	98
39) Methylcyclohexane	9.343	83	161283	20.591	ug/l	98
40) Benzene	8.331	78	425541	21.855	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032470.D
 Acq On : 18 Nov 2025 10:40
 Operator : SY/MD
 Sample : VW1118SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1118SBS01

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:24:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	52311	21.180	ug/l	97
42) 1,2-Dichloroethane	8.410	62	127207	22.242	ug/l	100
43) Isopropyl Acetate	8.435	43	165173	20.748	ug/l	99
44) Trichloroethene	9.099	130	96297	21.254	ug/l	97
45) 1,2-Dichloropropane	9.373	63	107029	22.075	ug/l	100
46) Dibromomethane	9.465	93	62354	22.008	ug/l	100
47) Bromodichloromethane	9.648	83	140779	21.783	ug/l	98
48) Methyl methacrylate	9.441	41	73852	19.522	ug/l	94
49) 1,4-Dioxane	9.471	88	17446	439.555	ug/l #	95
51) 4-Methyl-2-Pentanone	10.209	43	477160	108.419	ug/l	98
52) Toluene	10.392	92	259957	21.614	ug/l	100
53) t-1,3-Dichloropropene	10.605	75	136548	20.515	ug/l	96
54) cis-1,3-Dichloropropene	10.075	75	160370	20.835	ug/l	96
55) 1,1,2-Trichloroethane	10.788	97	82820	21.308	ug/l	92
56) Ethyl methacrylate	10.648	69	119127	19.976	ug/l	99
57) 1,3-Dichloropropane	10.934	76	150767	21.719	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	342033	107.697	ug/l	99
59) 2-Hexanone	10.971	43	328980	102.168	ug/l	98
60) Dibromochloromethane	11.129	129	90761	20.911	ug/l	99
61) 1,2-Dibromoethane	11.233	107	80832	21.353	ug/l	98
64) Tetrachloroethene	10.861	164	78315	21.747	ug/l	91
65) Chlorobenzene	11.654	112	283163	21.604	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.727	131	87522	21.576	ug/l	99
67) Ethyl Benzene	11.727	91	480261	21.176	ug/l	97
68) m/p-Xylenes	11.836	106	370819	43.548	ug/l	98
69) o-Xylene	12.166	106	174282	21.376	ug/l	96
70) Styrene	12.178	104	303516	21.640	ug/l	99
71) Bromoform	12.349	173	48193	20.058	ug/l #	99
73) Isopropylbenzene	12.464	105	433479	20.072	ug/l	100
74) N-amyl acetate	12.269	43	148008	19.722	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.714	83	108325	21.135	ug/l	97
76) 1,2,3-Trichloropropane	12.763	75	78035m	19.354	ug/l	
77) Bromobenzene	12.745	156	108802	21.278	ug/l	99
78) n-propylbenzene	12.800	91	561613	21.354	ug/l	97
79) 2-Chlorotoluene	12.891	91	334404	20.828	ug/l	98
80) 1,3,5-Trimethylbenzene	12.940	105	361865	20.310	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.507	75	33360	18.951	ug/l	93
82) 4-Chlorotoluene	12.989	91	350145	20.968	ug/l	96
83) tert-Butylbenzene	13.202	119	308467	19.902	ug/l	98
84) 1,2,4-Trimethylbenzene	13.245	105	377306	20.820	ug/l	100
85) sec-Butylbenzene	13.379	105	461376	19.988	ug/l	100
86) p-Isopropyltoluene	13.495	119	385969	20.252	ug/l	100
87) 1,3-Dichlorobenzene	13.495	146	205508	21.198	ug/l	96
88) 1,4-Dichlorobenzene	13.574	146	206055	20.746	ug/l	97
89) n-Butylbenzene	13.818	91	376028	20.195	ug/l	98
90) Hexachloroethane	14.086	117	68760	20.010	ug/l	93
91) 1,2-Dichlorobenzene	13.867	146	188016	21.126	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	14.482	75	16916	19.159	ug/l	98
93) 1,2,4-Trichlorobenzene	15.122	180	113600	20.059	ug/l	98
94) Hexachlorobutadiene	15.226	225	47617	20.241	ug/l	97
95) Naphthalene	15.354	128	253885	17.977	ug/l	98
96) 1,2,3-Trichlorobenzene	15.549	180	102712	19.976	ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032470.D
Acq On : 18 Nov 2025 10:40
Operator : SY/MD
Sample : VW1118SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1118SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:24:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

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

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

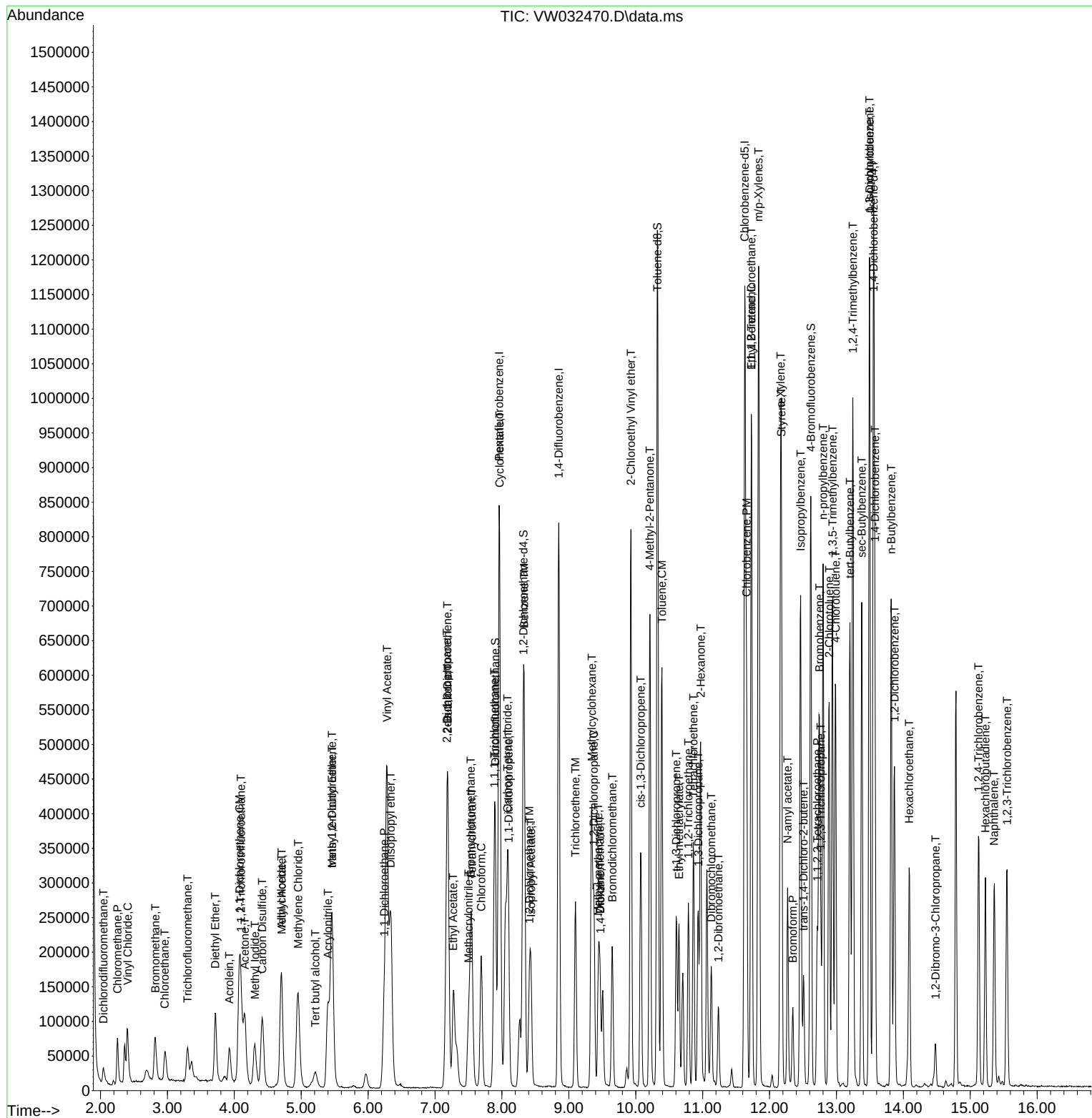
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032470.D
Acq On    : 18 Nov 2025  10:40
Operator  : SY/MD
Sample    : VW11185BS01
Misc      : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial  : 5      Sample Multiplier: 1
```

Instrument :
MSVOA_W
ClientSampleId :
VW1118SBS01

Manual Integrations

Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:24:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration



Report of Analysis

Client: HDR, Inc.
 Project: PVWC Linear Construction
 Client Sample ID: VW1119SBS01
 Lab Sample ID: VW1119SBS01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 g

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3649
 Matrix: SOIL
 % Solid: 100
 Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	20.0		1	1.10	5.00	ug/Kg	11/19/25 11:11	VW111925
74-87-3	Chloromethane	21.9		1	1.10	5.00	ug/Kg	11/19/25 11:11	VW111925
75-01-4	Vinyl Chloride	21.9		1	0.79	5.00	ug/Kg	11/19/25 11:11	VW111925
74-83-9	Bromomethane	21.7		1	1.10	5.00	ug/Kg	11/19/25 11:11	VW111925
75-00-3	Chloroethane	20.4		1	1.30	5.00	ug/Kg	11/19/25 11:11	VW111925
75-69-4	Trichlorofluoromethane	18.3		1	1.20	5.00	ug/Kg	11/19/25 11:11	VW111925
76-13-1	1,1,2-Trichlorotrifluoroethane	21.7		1	1.10	5.00	ug/Kg	11/19/25 11:11	VW111925
75-35-4	1,1-Dichloroethene	21.0		1	1.00	5.00	ug/Kg	11/19/25 11:11	VW111925
67-64-1	Acetone	110		1	4.70	25.0	ug/Kg	11/19/25 11:11	VW111925
75-15-0	Carbon Disulfide	20.5		1	1.10	5.00	ug/Kg	11/19/25 11:11	VW111925
1634-04-4	Methyl tert-butyl Ether	19.5		1	0.73	5.00	ug/Kg	11/19/25 11:11	VW111925
79-20-9	Methyl Acetate	19.0		1	1.50	5.00	ug/Kg	11/19/25 11:11	VW111925
75-09-2	Methylene Chloride	22.6		1	3.50	10.0	ug/Kg	11/19/25 11:11	VW111925
156-60-5	trans-1,2-Dichloroethene	21.1		1	0.86	5.00	ug/Kg	11/19/25 11:11	VW111925
75-34-3	1,1-Dichloroethane	21.6		1	0.80	5.00	ug/Kg	11/19/25 11:11	VW111925
110-82-7	Cyclohexane	20.2		1	0.79	5.00	ug/Kg	11/19/25 11:11	VW111925
78-93-3	2-Butanone	96.2		1	6.50	25.0	ug/Kg	11/19/25 11:11	VW111925
56-23-5	Carbon Tetrachloride	21.4		1	0.97	5.00	ug/Kg	11/19/25 11:11	VW111925
156-59-2	cis-1,2-Dichloroethene	20.8		1	0.75	5.00	ug/Kg	11/19/25 11:11	VW111925
74-97-5	Bromochloromethane	22.0		1	1.20	5.00	ug/Kg	11/19/25 11:11	VW111925
67-66-3	Chloroform	21.9		1	0.84	5.00	ug/Kg	11/19/25 11:11	VW111925
71-55-6	1,1,1-Trichloroethane	21.2		1	0.93	5.00	ug/Kg	11/19/25 11:11	VW111925
108-87-2	Methylcyclohexane	19.6		1	0.91	5.00	ug/Kg	11/19/25 11:11	VW111925
71-43-2	Benzene	21.4		1	0.79	5.00	ug/Kg	11/19/25 11:11	VW111925
107-06-2	1,2-Dichloroethane	21.8		1	0.79	5.00	ug/Kg	11/19/25 11:11	VW111925
79-01-6	Trichloroethene	20.7		1	0.81	5.00	ug/Kg	11/19/25 11:11	VW111925
78-87-5	1,2-Dichloropropane	21.5		1	0.91	5.00	ug/Kg	11/19/25 11:11	VW111925
75-27-4	Bromodichloromethane	20.8		1	0.78	5.00	ug/Kg	11/19/25 11:11	VW111925
108-10-1	4-Methyl-2-Pentanone	100		1	3.60	25.0	ug/Kg	11/19/25 11:11	VW111925
108-88-3	Toluene	21.8		1	0.78	5.00	ug/Kg	11/19/25 11:11	VW111925
10061-02-6	t-1,3-Dichloropropene	20.2		1	0.65	5.00	ug/Kg	11/19/25 11:11	VW111925
10061-01-5	cis-1,3-Dichloropropene	20.0		1	0.62	5.00	ug/Kg	11/19/25 11:11	VW111925
79-00-5	1,1,2-Trichloroethane	21.2		1	0.92	5.00	ug/Kg	11/19/25 11:11	VW111925
591-78-6	2-Hexanone	96.5		1	3.70	25.0	ug/Kg	11/19/25 11:11	VW111925
124-48-1	Dibromochloromethane	21.1		1	0.87	5.00	ug/Kg	11/19/25 11:11	VW111925
106-93-4	1,2-Dibromoethane	20.5		1	0.88	5.00	ug/Kg	11/19/25 11:11	VW111925
127-18-4	Tetrachloroethene	20.7		1	1.10	5.00	ug/Kg	11/19/25 11:11	VW111925
108-90-7	Chlorobenzene	21.1		1	0.91	5.00	ug/Kg	11/19/25 11:11	VW111925
100-41-4	Ethyl Benzene	20.7		1	0.67	5.00	ug/Kg	11/19/25 11:11	VW111925
179601-23-1	m/p-Xylenes	41.8		1	1.20	10.0	ug/Kg	11/19/25 11:11	VW111925
95-47-6	o-Xylene	20.3		1	0.82	5.00	ug/Kg	11/19/25 11:11	VW111925
100-42-5	Styrene	21.1		1	0.71	5.00	ug/Kg	11/19/25 11:11	VW111925
75-25-2	Bromoform	19.6		1	0.86	5.00	ug/Kg	11/19/25 11:11	VW111925



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

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: VW1119SBS01
Lab Sample ID: VW1119SBS01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3649
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	19.2		1	0.78	5.00	ug/Kg	11/19/25 11:11	VW111925
79-34-5	1,1,2,2-Tetrachloroethane	20.4		1	1.20	5.00	ug/Kg	11/19/25 11:11	VW111925
541-73-1	1,3-Dichlorobenzene	21.1		1	1.70	5.00	ug/Kg	11/19/25 11:11	VW111925
106-46-7	1,4-Dichlorobenzene	20.4		1	1.60	5.00	ug/Kg	11/19/25 11:11	VW111925
95-50-1	1,2-Dichlorobenzene	21.4		1	1.50	5.00	ug/Kg	11/19/25 11:11	VW111925
96-12-8	1,2-Dibromo-3-Chloropropane	18.9		1	1.80	5.00	ug/Kg	11/19/25 11:11	VW111925
120-82-1	1,2,4-Trichlorobenzene	19.1		1	3.00	5.00	ug/Kg	11/19/25 11:11	VW111925
87-61-6	1,2,3-Trichlorobenzene	20.2		1	3.20	5.00	ug/Kg	11/19/25 11:11	VW111925
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	52.2			70 (63) - 130 (155)	104%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.8			70 (70) - 130 (134)	104%	SPK: 50		
2037-26-5	Toluene-d8	52.2			70 (74) - 130 (123)	104%	SPK: 50		
460-00-4	4-Bromofluorobenzene	50.7			70 (52) - 130 (138)	101%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	361000							
540-36-3	1,4-Difluorobenzene	660000							
3114-55-4	Chlorobenzene-d5	591000							
3855-82-1	1,4-Dichlorobenzene-d4	285000							

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_W\Data\VW111925\
 Data File : VW032492.D
 Acq On : 19 Nov 2025 11:11
 Operator : SY/MD
 Sample : VW1119SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1119SBS01

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/20/2025
 Supervised By :Mahesh Dadoda 11/20/2025

Quant Time: Nov 20 01:15:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	361405	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	660085	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	590674	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	285477	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.313	65	243218	52.200	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 104.400%			
35) Dibromofluoromethane	7.898	113	204531	51.753	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 103.500%			
50) Toluene-d8	10.325	98	790714	52.153	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 104.300%			
62) 4-Bromofluorobenzene	12.617	95	290609	50.740	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 101.480%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.046	85	36626	19.975	ug/l	95
3) Chloromethane	2.253	50	68922	21.929	ug/l	94
4) Vinyl Chloride	2.399	62	86866	21.900	ug/l	97
5) Bromomethane	2.820	94	57660	21.731	ug/l	95
6) Chloroethane	2.966	64	53005	20.425	ug/l	97
7) Trichlorofluoromethane	3.302	101	56783	18.259	ug/l	86
8) Diethyl Ether	3.716	74	51404	20.217	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.094	101	73456	21.683	ug/l	98
10) Methyl Iodide	4.301	142	112464	20.612	ug/l	99
11) Tert butyl alcohol	5.210	59	38806	96.318	ug/l	99
12) 1,1-Dichloroethene	4.076	96	81722	21.038	ug/l	95
13) Acrolein	3.924	56	57195	84.610	ug/l	96
14) Allyl chloride	4.704	41	153990	20.614	ug/l	98
15) Acrylonitrile	5.393	53	146028	99.332	ug/l	99
16) Acetone	4.155	43	146713	105.248	ug/l	96
17) Carbon Disulfide	4.417	76	235675	20.527	ug/l	98
18) Methyl Acetate	4.704	43	65632	19.013	ug/l	100
19) Methyl tert-butyl Ether	5.454	73	159847	19.521	ug/l	100
20) Methylene Chloride	4.954	84	112458	22.559	ug/l	98
21) trans-1,2-Dichloroethene	5.460	96	93550	21.061	ug/l	99
22) Diisopropyl ether	6.338	45	318965	20.971	ug/l	98
23) Vinyl Acetate	6.277	43	1046362	100.412	ug/l	100
24) 1,1-Dichloroethane	6.240	63	179819	21.579	ug/l	99
25) 2-Butanone	7.191	43	197486	96.163	ug/l	99
26) 2,2-Dichloropropane	7.179	77	95756	20.619	ug/l	98
27) cis-1,2-Dichloroethene	7.185	96	110174	20.759	ug/l	98
28) Bromochloromethane	7.527	49	86496	21.961	ug/l	97
29) Tetrahydrofuran	7.551	42	125719	96.449	ug/l	99
30) Chloroform	7.685	83	178648	21.899	ug/l	98
31) Cyclohexane	7.965	56	155531	20.177	ug/l	98
32) 1,1,1-Trichloroethane	7.886	97	123378	21.171	ug/l	97
36) 1,1-Dichloropropene	8.093	75	124481	21.377	ug/l	100
37) Ethyl Acetate	7.270	43	89812	20.742	ug/l	96
38) Carbon Tetrachloride	8.081	117	110629	21.382	ug/l	97
39) Methylcyclohexane	9.343	83	147857	19.601	ug/l	96
40) Benzene	8.331	78	401357	21.403	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
 Data File : VW032492.D
 Acq On : 19 Nov 2025 11:11
 Operator : SY/MD
 Sample : VW1119SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1119SBS01

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/20/2025
 Supervised By :Mahesh Dadoda 11/20/2025

Quant Time: Nov 20 01:15:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.496	41	48775	20.506	ug/l	96
42) 1,2-Dichloroethane	8.411	62	120348	21.849	ug/l	99
43) Isopropyl Acetate	8.435	43	149609	19.513	ug/l	98
44) Trichloroethene	9.099	130	90301	20.695	ug/l	94
45) 1,2-Dichloropropane	9.374	63	100404	21.503	ug/l	100
46) Dibromomethane	9.465	93	58816	21.556	ug/l	98
47) Bromodichloromethane	9.648	83	129606	20.823	ug/l	97
48) Methyl methacrylate	9.441	41	66792	18.333	ug/l	95
49) 1,4-Dioxane	9.459	88	14834	388.079	ug/l #	96
51) 4-Methyl-2-Pentanone	10.209	43	433442	102.263	ug/l	98
52) Toluene	10.386	92	252405	21.791	ug/l	97
53) t-1,3-Dichloropropene	10.605	75	129416	20.189	ug/l	97
54) cis-1,3-Dichloropropene	10.075	75	148531	20.037	ug/l	99
55) 1,1,2-Trichloroethane	10.788	97	79341	21.196	ug/l	97
56) Ethyl methacrylate	10.642	69	109811	19.120	ug/l	99
57) 1,3-Dichloropropane	10.934	76	141967	21.235	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.929	63	327225	106.985	ug/l	99
59) 2-Hexanone	10.965	43	299147	96.466	ug/l	98
60) Dibromochloromethane	11.130	129	87995	21.051	ug/l	99
61) 1,2-Dibromoethane	11.239	107	74808	20.519	ug/l	100
64) Tetrachloroethene	10.867	164	72274	20.662	ug/l	94
65) Chlorobenzene	11.654	112	268333	21.077	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.727	131	81845	20.773	ug/l	99
67) Ethyl Benzene	11.727	91	455523	20.679	ug/l	98
68) m/p-Xylenes	11.837	106	345847	41.815	ug/l	98
69) o-Xylene	12.166	106	160949	20.324	ug/l	100
70) Styrene	12.178	104	287144	21.078	ug/l	99
71) Bromoform	12.343	173	45773	19.614	ug/l #	98
73) Isopropylbenzene	12.465	105	402569	19.201	ug/l	99
74) N-amyl acetate	12.270	43	139579	19.158	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.715	83	101457	20.390	ug/l	99
76) 1,2,3-Trichloropropane	12.763	75	84952m	21.703	ug/l	
77) Bromobenzene	12.739	156	99858	20.116	ug/l	97
78) n-propylbenzene	12.800	91	524701	20.550	ug/l	98
79) 2-Chlorotoluene	12.885	91	313773	20.131	ug/l	97
80) 1,3,5-Trimethylbenzene	12.940	105	350920	20.288	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.507	75	31435	18.394	ug/l	90
82) 4-Chlorotoluene	12.983	91	335416	20.690	ug/l	99
83) tert-Butylbenzene	13.202	119	283999	18.874	ug/l	97
84) 1,2,4-Trimethylbenzene	13.245	105	351381	19.972	ug/l	98
85) sec-Butylbenzene	13.379	105	431962	19.276	ug/l	100
86) p-Isopropyltoluene	13.495	119	363724	19.658	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	198267	21.066	ug/l	98
88) 1,4-Dichlorobenzene	13.574	146	196748	20.404	ug/l	95
89) n-Butylbenzene	13.818	91	357992	19.804	ug/l	98
90) Hexachloroethane	14.086	117	64025	19.192	ug/l	96
91) 1,2-Dichlorobenzene	13.867	146	184603	21.366	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	14.476	75	16213	18.914	ug/l	96
93) 1,2,4-Trichlorobenzene	15.129	180	105148	19.124	ug/l	98
94) Hexachlorobutadiene	15.226	225	44260	19.379	ug/l	96
95) Naphthalene	15.360	128	232705	16.972	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	100646	20.163	ug/l	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032492.D
Acq On : 19 Nov 2025 11:11
Operator : SY/MD
Sample : VW1119SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1119SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/20/2025
Supervised By :Mahesh Dadoda 11/20/2025

Quant Time: Nov 20 01:15:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

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

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

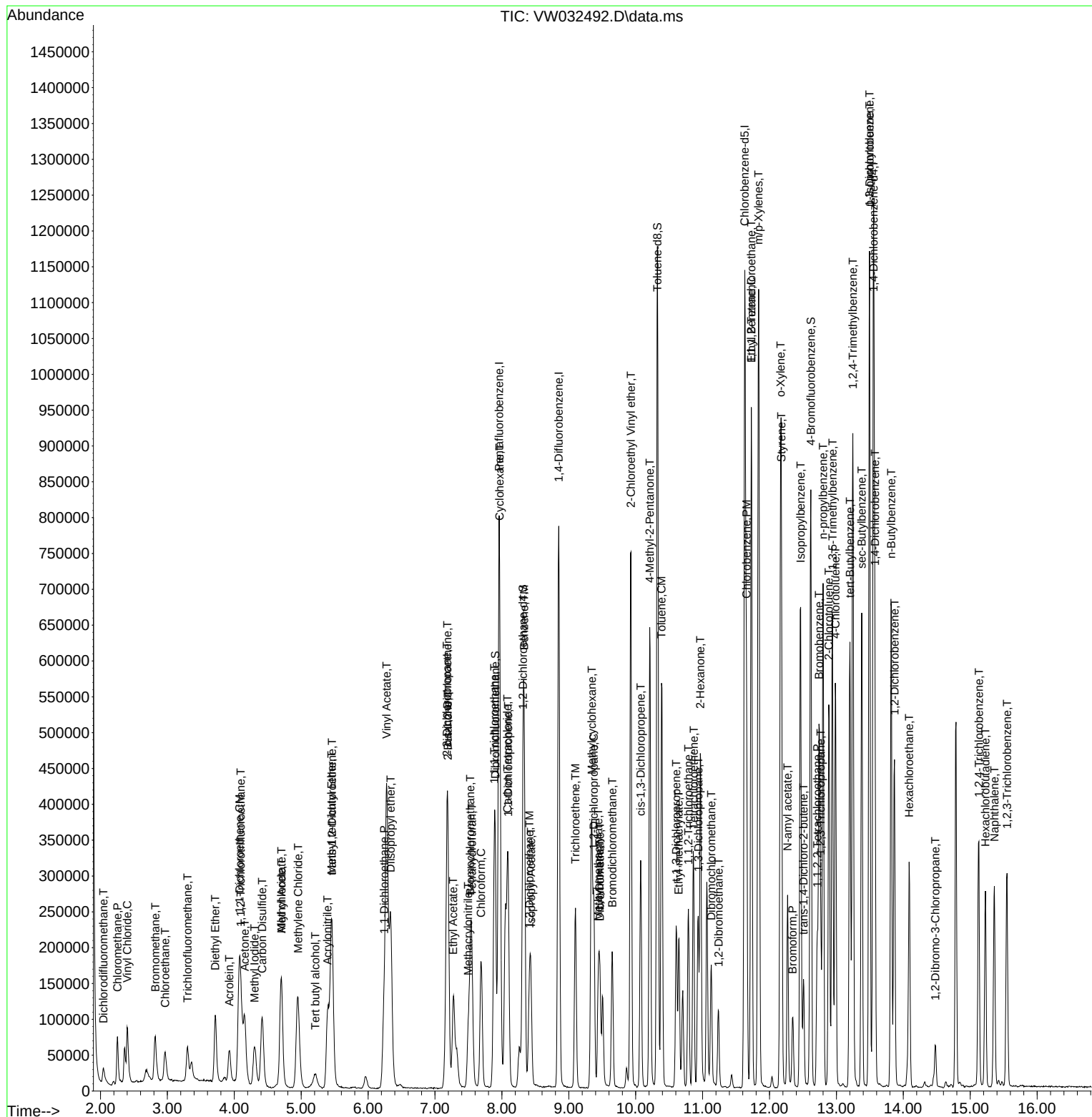
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
Data File : VW032492.D
Acq On    : 19 Nov 2025  11:11
Operator  : SY/MD
Sample    : VW1119SBS01
Misc      : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial  : 5      Sample Multiplier: 1
```

Instrument :
MSVOA_W
ClientSampleId :
VW1119SBS01

Manual Integrations

Reviewed By :Amit Patel 11/20/2025
Supervised By :Mahesh Dadoda 11/20/2025

Quant Time: Nov 20 01:15:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration





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

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: VW1118SBSD01
Lab Sample ID: VW1118SBSD01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3649
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	21.9		1	1.10	5.00	ug/Kg	11/18/25 11:02	VW111825
74-87-3	Chloromethane	22.0		1	1.10	5.00	ug/Kg	11/18/25 11:02	VW111825
75-01-4	Vinyl Chloride	22.5		1	0.79	5.00	ug/Kg	11/18/25 11:02	VW111825
74-83-9	Bromomethane	22.2		1	1.10	5.00	ug/Kg	11/18/25 11:02	VW111825
75-00-3	Chloroethane	21.7		1	1.30	5.00	ug/Kg	11/18/25 11:02	VW111825
75-69-4	Trichlorofluoromethane	22.1		1	1.20	5.00	ug/Kg	11/18/25 11:02	VW111825
76-13-1	1,1,2-Trichlorotrifluoroethane	22.7		1	1.10	5.00	ug/Kg	11/18/25 11:02	VW111825
75-35-4	1,1-Dichloroethene	22.3		1	1.00	5.00	ug/Kg	11/18/25 11:02	VW111825
67-64-1	Acetone	100		1	4.70	25.0	ug/Kg	11/18/25 11:02	VW111825
75-15-0	Carbon Disulfide	21.5		1	1.10	5.00	ug/Kg	11/18/25 11:02	VW111825
1634-04-4	Methyl tert-butyl Ether	20.7		1	0.73	5.00	ug/Kg	11/18/25 11:02	VW111825
79-20-9	Methyl Acetate	20.0		1	1.50	5.00	ug/Kg	11/18/25 11:02	VW111825
75-09-2	Methylene Chloride	23.6		1	3.50	10.0	ug/Kg	11/18/25 11:02	VW111825
156-60-5	trans-1,2-Dichloroethene	22.1		1	0.86	5.00	ug/Kg	11/18/25 11:02	VW111825
75-34-3	1,1-Dichloroethane	22.6		1	0.80	5.00	ug/Kg	11/18/25 11:02	VW111825
110-82-7	Cyclohexane	22.0		1	0.79	5.00	ug/Kg	11/18/25 11:02	VW111825
78-93-3	2-Butanone	100		1	6.50	25.0	ug/Kg	11/18/25 11:02	VW111825
56-23-5	Carbon Tetrachloride	22.5		1	0.97	5.00	ug/Kg	11/18/25 11:02	VW111825
156-59-2	cis-1,2-Dichloroethene	21.6		1	0.75	5.00	ug/Kg	11/18/25 11:02	VW111825
74-97-5	Bromochloromethane	22.8		1	1.20	5.00	ug/Kg	11/18/25 11:02	VW111825
67-66-3	Chloroform	22.7		1	0.84	5.00	ug/Kg	11/18/25 11:02	VW111825
71-55-6	1,1,1-Trichloroethane	22.3		1	0.93	5.00	ug/Kg	11/18/25 11:02	VW111825
108-87-2	Methylcyclohexane	20.8		1	0.91	5.00	ug/Kg	11/18/25 11:02	VW111825
71-43-2	Benzene	21.8		1	0.79	5.00	ug/Kg	11/18/25 11:02	VW111825
107-06-2	1,2-Dichloroethane	21.8		1	0.79	5.00	ug/Kg	11/18/25 11:02	VW111825
79-01-6	Trichloroethene	21.3		1	0.81	5.00	ug/Kg	11/18/25 11:02	VW111825
78-87-5	1,2-Dichloropropane	21.8		1	0.91	5.00	ug/Kg	11/18/25 11:02	VW111825
75-27-4	Bromodichloromethane	21.4		1	0.78	5.00	ug/Kg	11/18/25 11:02	VW111825
108-10-1	4-Methyl-2-Pentanone	110		1	3.60	25.0	ug/Kg	11/18/25 11:02	VW111825
108-88-3	Toluene	21.9		1	0.78	5.00	ug/Kg	11/18/25 11:02	VW111825
10061-02-6	t-1,3-Dichloropropene	20.4		1	0.65	5.00	ug/Kg	11/18/25 11:02	VW111825
10061-01-5	cis-1,3-Dichloropropene	20.8		1	0.62	5.00	ug/Kg	11/18/25 11:02	VW111825
79-00-5	1,1,2-Trichloroethane	21.2		1	0.92	5.00	ug/Kg	11/18/25 11:02	VW111825
591-78-6	2-Hexanone	100		1	3.70	25.0	ug/Kg	11/18/25 11:02	VW111825
124-48-1	Dibromochloromethane	20.7		1	0.87	5.00	ug/Kg	11/18/25 11:02	VW111825
106-93-4	1,2-Dibromoethane	20.9		1	0.88	5.00	ug/Kg	11/18/25 11:02	VW111825
127-18-4	Tetrachloroethene	21.2		1	1.10	5.00	ug/Kg	11/18/25 11:02	VW111825
108-90-7	Chlorobenzene	21.5		1	0.91	5.00	ug/Kg	11/18/25 11:02	VW111825
100-41-4	Ethyl Benzene	21.9		1	0.67	5.00	ug/Kg	11/18/25 11:02	VW111825
179601-23-1	m/p-Xylenes	44.4		1	1.20	10.0	ug/Kg	11/18/25 11:02	VW111825
95-47-6	o-Xylene	21.2		1	0.82	5.00	ug/Kg	11/18/25 11:02	VW111825
100-42-5	Styrene	21.9		1	0.71	5.00	ug/Kg	11/18/25 11:02	VW111825
75-25-2	Bromoform	19.3		1	0.86	5.00	ug/Kg	11/18/25 11:02	VW111825



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

Report of Analysis

Client: HDR, Inc.
Project: PVWC Linear Construction
Client Sample ID: VW1118SBSD01
Lab Sample ID: VW1118SBSD01
Analytical Method: 8260D
Sample Wt/Vol: 5 g

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3649
Matrix: SOIL
% Solid: 100
Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	21.7		1	0.78	5.00	ug/Kg	11/18/25 11:02	VW111825
79-34-5	1,1,2,2-Tetrachloroethane	22.3		1	1.20	5.00	ug/Kg	11/18/25 11:02	VW111825
541-73-1	1,3-Dichlorobenzene	22.5		1	1.70	5.00	ug/Kg	11/18/25 11:02	VW111825
106-46-7	1,4-Dichlorobenzene	21.6		1	1.60	5.00	ug/Kg	11/18/25 11:02	VW111825
95-50-1	1,2-Dichlorobenzene	21.7		1	1.50	5.00	ug/Kg	11/18/25 11:02	VW111825
96-12-8	1,2-Dibromo-3-Chloropropane	19.8		1	1.80	5.00	ug/Kg	11/18/25 11:02	VW111825
120-82-1	1,2,4-Trichlorobenzene	19.9		1	3.00	5.00	ug/Kg	11/18/25 11:02	VW111825
87-61-6	1,2,3-Trichlorobenzene	20.5		1	3.20	5.00	ug/Kg	11/18/25 11:02	VW111825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	52.2			70 (63) - 130 (155)	104%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.5			70 (70) - 130 (134)	101%	SPK: 50		
2037-26-5	Toluene-d8	51.2			70 (74) - 130 (123)	102%	SPK: 50		
460-00-4	4-Bromofluorobenzene	49.7			70 (52) - 130 (138)	99%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	368000							
540-36-3	1,4-Difluorobenzene	692000							
3114-55-4	Chlorobenzene-d5	614000							
3855-82-1	1,4-Dichlorobenzene-d4	277000							

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_W\Data\VW111825\
 Data File : VW032471.D
 Acq On : 18 Nov 2025 11:02
 Operator : SY/MD
 Sample : VW1118SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1118SBS01

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:25:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	367695	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	692034	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	614192	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	277057	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.319	65	247225	52.152	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	104.300%
35) Dibromofluoromethane	7.904	113	209098	50.466	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	100.940%
50) Toluene-d8	10.325	98	814032	51.212	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	102.420%
62) 4-Bromofluorobenzene	12.617	95	298194	49.661	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	99.320%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.040	85	40835	21.889	ug/l	94
3) Chloromethane	2.253	50	70404	22.017	ug/l	99
4) Vinyl Chloride	2.405	62	90715	22.479	ug/l	95
5) Bromomethane	2.820	94	60053	22.246	ug/l	97
6) Chloroethane	2.966	64	57168	21.652	ug/l	99
7) Trichlorofluoromethane	3.308	101	70047	22.138	ug/l	92
8) Diethyl Ether	3.716	74	53653	20.741	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.100	101	78214	22.693	ug/l	98
10) Methyl Iodide	4.307	142	117653	21.194	ug/l	98
11) Tert butyl alcohol	5.216	59	44484	108.522	ug/l	100
12) 1,1-Dichloroethene	4.076	96	88001	22.266	ug/l	100
13) Acrolein	3.929	56	61188	88.969	ug/l	98
14) Allyl chloride	4.704	41	164742	21.676	ug/l	98
15) Acrylonitrile	5.405	53	158572	106.019	ug/l	98
16) Acetone	4.161	43	148438	104.664	ug/l	98
17) Carbon Disulfide	4.417	76	251424	21.524	ug/l	98
18) Methyl Acetate	4.710	43	70239	20.000	ug/l	100
19) Methyl tert-butyl Ether	5.466	73	172461	20.701	ug/l	100
20) Methylene Chloride	4.954	84	119594	23.580	ug/l	98
21) trans-1,2-Dichloroethene	5.460	96	99851	22.095	ug/l	93
22) Diisopropyl ether	6.344	45	347227	22.439	ug/l	96
23) Vinyl Acetate	6.283	43	1145335	108.030	ug/l	98
24) 1,1-Dichloroethane	6.246	63	191582	22.597	ug/l	99
25) 2-Butanone	7.191	43	211255	101.107	ug/l	97
26) 2,2-Dichloropropane	7.185	77	106084	22.452	ug/l	97
27) cis-1,2-Dichloroethene	7.191	96	116504	21.576	ug/l	97
28) Bromochloromethane	7.532	49	91167	22.751	ug/l	95
29) Tetrahydrofuran	7.557	42	140552	105.984	ug/l	98
30) Chloroform	7.697	83	188461	22.707	ug/l	98
31) Cyclohexane	7.965	56	172748	22.027	ug/l	91
32) 1,1,1-Trichloroethane	7.886	97	131999	22.263	ug/l	98
36) 1,1-Dichloropropene	8.093	75	136205	22.311	ug/l	98
37) Ethyl Acetate	7.276	43	95805	21.105	ug/l	99
38) Carbon Tetrachloride	8.081	117	122018	22.494	ug/l	89
39) Methylcyclohexane	9.343	83	164638	20.818	ug/l	91
40) Benzene	8.337	78	428421	21.792	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032471.D
 Acq On : 18 Nov 2025 11:02
 Operator : SY/MD
 Sample : VW1118SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1118SBS01

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:25:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	49368	19.797	ug/l	97
42) 1,2-Dichloroethane	8.410	62	126122	21.841	ug/l	99
43) Isopropyl Acetate	8.435	43	164319	20.442	ug/l	99
44) Trichloroethene	9.099	130	97571	21.328	ug/l	98
45) 1,2-Dichloropropane	9.374	63	106607	21.777	ug/l	98
46) Dibromomethane	9.465	93	62759	21.939	ug/l	97
47) Bromodichloromethane	9.654	83	139764	21.418	ug/l	97
48) Methyl methacrylate	9.441	41	73924	19.354	ug/l	95
49) 1,4-Dioxane	9.465	88	16943	422.790	ug/l #	97
51) 4-Methyl-2-Pentanone	10.215	43	469930	105.753	ug/l	99
52) Toluene	10.392	92	266368	21.935	ug/l	98
53) t-1,3-Dichloropropene	10.611	75	137060	20.395	ug/l	97
54) cis-1,3-Dichloropropene	10.081	75	161937	20.837	ug/l	99
55) 1,1,2-Trichloroethane	10.788	97	83014	21.154	ug/l	98
56) Ethyl methacrylate	10.648	69	118441	19.670	ug/l	98
57) 1,3-Dichloropropane	10.934	76	150752	21.508	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.928	63	334590	104.343	ug/l	100
59) 2-Hexanone	10.971	43	328281	100.974	ug/l	97
60) Dibromochloromethane	11.136	129	90803	20.720	ug/l	99
61) 1,2-Dibromoethane	11.239	107	79907	20.906	ug/l	99
64) Tetrachloroethene	10.861	164	76983	21.166	ug/l	92
65) Chlorobenzene	11.654	112	284215	21.470	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.733	131	85505	20.871	ug/l	97
67) Ethyl Benzene	11.727	91	501618	21.899	ug/l	99
68) m/p-Xylenes	11.837	106	381526	44.363	ug/l	99
69) o-Xylene	12.166	106	174487	21.189	ug/l	100
70) Styrene	12.178	104	310384	21.911	ug/l	100
71) Bromoform	12.343	173	46921	19.336	ug/l #	98
73) Isopropylbenzene	12.458	105	440952	21.670	ug/l	100
74) N-amyl acetate	12.269	43	149690	21.170	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.708	83	107453	22.251	ug/l	100
76) 1,2,3-Trichloropropane	12.763	75	76438m	20.121	ug/l	
77) Bromobenzene	12.745	156	102986	21.376	ug/l	92
78) n-propylbenzene	12.800	91	559230	22.568	ug/l	100
79) 2-Chlorotoluene	12.891	91	340426	22.504	ug/l	100
80) 1,3,5-Trimethylbenzene	12.940	105	374042	22.281	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.507	75	33213	20.025	ug/l	92
82) 4-Chlorotoluene	12.989	91	355073	22.568	ug/l	100
83) tert-Butylbenzene	13.202	119	315255	21.588	ug/l	99
84) 1,2,4-Trimethylbenzene	13.245	105	383766	22.476	ug/l	100
85) sec-Butylbenzene	13.379	105	481804	22.154	ug/l	99
86) p-Isopropyltoluene	13.495	119	401289	22.347	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	205534	22.502	ug/l	97
88) 1,4-Dichlorobenzene	13.574	146	202383	21.627	ug/l	95
89) n-Butylbenzene	13.818	91	385664	21.984	ug/l	98
90) Hexachloroethane	14.086	117	71838	22.189	ug/l	96
91) 1,2-Dichlorobenzene	13.867	146	181954	21.700	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.476	75	16497	19.830	ug/l	96
93) 1,2,4-Trichlorobenzene	15.129	180	106304	19.922	ug/l	92
94) Hexachlorobutadiene	15.232	225	45508	20.531	ug/l	90
95) Naphthalene	15.360	128	256327	19.263	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	99190	20.475	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032471.D
Acq On : 18 Nov 2025 11:02
Operator : SY/MD
Sample : VW1118SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1118SBSD01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:25:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

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

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

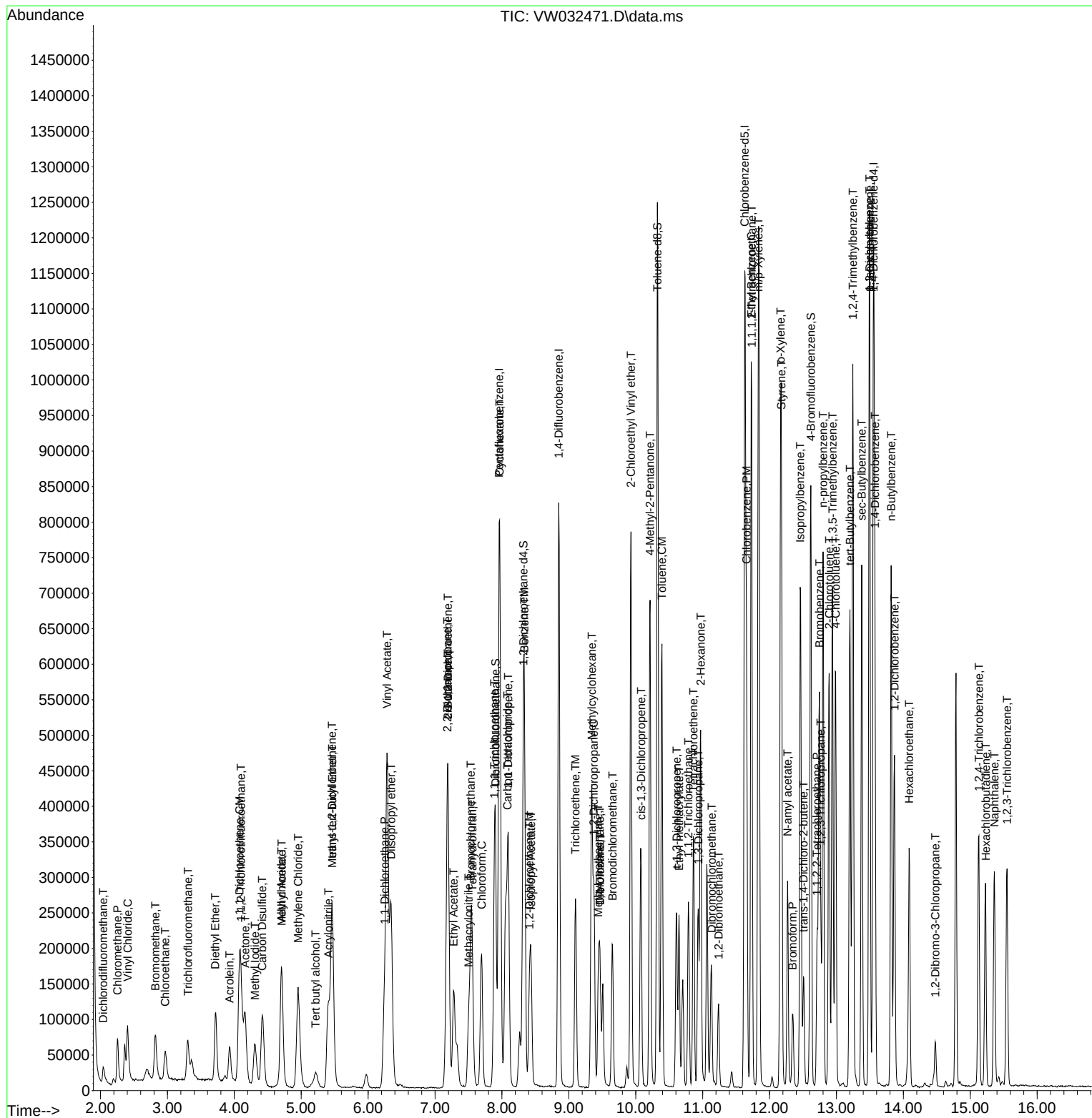
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
Data File : VW032471.D
Acq On : 18 Nov 2025 11:02
Operator : SY/MD
Sample : VW1118SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1118SBSD01

Manual Integrations

Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:25:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	VW111025	Instrument	MSVOA_w
-----------	----------	------------	---------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VW032406.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:31 AM	sam	11/11/2025 12:29:21 PM	Peak Integrated by Software
VSTDICC005	VW032406.D	Dichlorodifluoromethane	Amit	11/11/2025 9:30:31 AM	sam	11/11/2025 12:29:21 PM	Peak Integrated by Software
VSTDICC010	VW032407.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:35 AM	sam	11/11/2025 12:29:25 PM	Peak Integrated by Software
VSTDICC010	VW032407.D	Dichlorodifluoromethane	Amit	11/11/2025 9:30:35 AM	sam	11/11/2025 12:29:25 PM	Peak Integrated by Software
VSTDICC020	VW032408.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:39 AM	sam	11/11/2025 12:30:15 PM	Peak Integrated by Software
VSTDICCC050	VW032409.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:43 AM	sam	11/11/2025 12:29:38 PM	Peak Integrated by Software
VSTDICC100	VW032410.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:48 AM	sam	11/11/2025 12:30:21 PM	Peak Integrated by Software
VSTDICC150	VW032411.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:52 AM	sam	11/11/2025 12:29:30 PM	Peak Integrated by Software
VSTDICV050	VW032413.D	1,2,3-Trichloropropane	Amit	11/11/2025 9:30:57 AM	sam	11/11/2025 12:29:34 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VW111825

Instrument

MSVOA_w

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VW032468.D	1,2,3-Trichloropropane	Amit	11/19/2025 10:30:14 AM	MMDadoda	11/19/2025 11:20:14 AM	Peak Integrated by Software
VW1118SBS01	VW032470.D	1,2,3-Trichloropropane	Amit	11/19/2025 10:30:18 AM	MMDadoda	11/19/2025 11:20:17 AM	Peak Integrated by Software
VW1118SBSD0 1	VW032471.D	1,2,3-Trichloropropane	Amit	11/19/2025 10:30:23 AM	MMDadoda	11/19/2025 11:20:20 AM	Peak Integrated by Software
VSTDCCC050	VW032488.D	1,2,3-Trichloropropane	Amit	11/19/2025 10:30:27 AM	MMDadoda	11/19/2025 11:20:25 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VW111925

Instrument

MSVOA_w

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VW032490.D	1,2,3-Trichloropropane	Amit	11/20/2025 8:22:40 AM	MMDadoda	11/20/2025 10:02:19 AM	Peak Integrated by Software
VW1119SBS01	VW032492.D	1,2,3-Trichloropropane	Amit	11/20/2025 8:22:45 AM	MMDadoda	11/20/2025 10:02:23 AM	Peak Integrated by Software
VSTDCCC050	VW032509.D	1,2,3-Trichloropropane	Amit	11/20/2025 8:22:58 AM	MMDadoda	11/20/2025 10:02:37 AM	Peak Integrated by Software

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QCBatch ID # VW111025

Review By	Amit Patel	Review On	11/11/2025 7:21:42 AM	
Supervise By	Maresh Dadoda	Supervise On	11/17/2025 1:37:22 PM	
SubDirectory	VW111025	HP Acquire Method	VP134934	HP Processing Method
STD. NAME	STD REF.#			
Tune/Reschk	VP136122			
Initial Calibration Stds	VP136123,VP136124,VP136125,VP136126,VP136127,VP136128			
CCC				
Internal Standard/PEM	VP133934			
ICV/I.BLK	VP136129			
Surrogate Standard				
MS/MSD Standard				
LCS Standard				

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VW032405.D	10 Nov 2025 14:20	SY/MD	Ok
2	VSTDIC005	VW032406.D	10 Nov 2025 15:11	SY/MD	Ok,M
3	VSTDIC010	VW032407.D	10 Nov 2025 15:33	SY/MD	Ok,M
4	VSTDIC020	VW032408.D	10 Nov 2025 15:55	SY/MD	Ok,M
5	VSTDIC050	VW032409.D	10 Nov 2025 16:17	SY/MD	Ok,M
6	VSTDIC100	VW032410.D	10 Nov 2025 16:39	SY/MD	Ok,M
7	VSTDIC150	VW032411.D	10 Nov 2025 17:00	SY/MD	Ok,M
8	VIBLK	VW032412.D	10 Nov 2025 17:22	SY/MD	Ok
9	VSTDICV050	VW032413.D	10 Nov 2025 17:44	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QC Batch ID # VW111825

Review By	Amit Patel	Review On	11/19/2025 10:30:41 AM		
Supervise By	Maresh Dadoda	Supervise On	11/19/2025 11:20:35 AM		
SubDirectory	VW111825	HP Acquire Method	MSVOA_W	HP Processing Method	82w111025s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP136296			
CCC		VP136299,VP136300			
Internal Standard/PEM		VP136146			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VW032467.D	18 Nov 2025 09:15	SY/MD	Ok
2	VSTDCCC050	VW032468.D	18 Nov 2025 09:46	SY/MD	Ok,M
3	VW1118SBL01	VW032469.D	18 Nov 2025 10:13	SY/MD	Ok
4	VW1118SBS01	VW032470.D	18 Nov 2025 10:40	SY/MD	Ok,M
5	VW1118SBSD01	VW032471.D	18 Nov 2025 11:02	SY/MD	Ok,M
6	Q3658-01	VW032472.D	18 Nov 2025 11:50	SY/MD	Ok
7	Q3656-01	VW032473.D	18 Nov 2025 12:12	SY/MD	Ok
8	Q3633-05	VW032474.D	18 Nov 2025 12:34	SY/MD	Ok
9	Q3641-01RE	VW032475.D	18 Nov 2025 12:56	SY/MD	Confirms
10	Q3638-01	VW032476.D	18 Nov 2025 13:18	SY/MD	Ok
11	Q3638-03	VW032477.D	18 Nov 2025 13:40	SY/MD	Ok
12	Q3640-03	VW032478.D	18 Nov 2025 14:02	SY/MD	Ok
13	Q3661-02	VW032479.D	18 Nov 2025 14:24	SY/MD	ReRun
14	Q3652-03	VW032480.D	18 Nov 2025 14:46	SY/MD	Ok
15	Q3649-02	VW032481.D	18 Nov 2025 15:08	SY/MD	ReRun
16	Q3649-04	VW032482.D	18 Nov 2025 15:30	SY/MD	ReRun
17	Q3649-05	VW032483.D	18 Nov 2025 15:52	SY/MD	Ok
18	Q3649-09	VW032484.D	18 Nov 2025 16:14	SY/MD	Ok
19	Q3662-01	VW032485.D	18 Nov 2025 16:36	SY/MD	Ok
20	Q3662-03	VW032486.D	18 Nov 2025 16:58	SY/MD	Ok
21	VIBLK	VW032487.D	18 Nov 2025 17:20	SY/MD	Ok

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QC Batch ID # VW111825

Review By	Amit Patel	Review On	11/19/2025 10:30:41 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/19/2025 11:20:35 AM		
SubDirectory	VW111825	HP Acquire Method	MSVOA_W	HP Processing Method	82w111025s.m
STD. NAME	STD REF.#				
Tune/Reschk Initial Calibration Stds	VP136296				
CCC	VP136299,VP136300				
Internal Standard/PEM	VP136146				
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	VSTDCCC050	VW032488.D	18 Nov 2025 17:43	SY/MD	Ok,M
----	------------	------------	-------------------	-------	------

M : Manual Integration

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QC Batch ID # VW111925

Review By	Amit Patel	Review On	11/20/2025 8:23:16 AM		
Supervise By	Maresh Dadoda	Supervise On	11/20/2025 10:02:48 AM		
SubDirectory	VW111925	HP Acquire Method	MSVOA_W	HP Processing Method	82w111025s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP136334			
CCC		VP136335,VP136336			
Internal Standard/PEM		VP136146			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VW032489.D	19 Nov 2025 09:32	SY/MD	Ok
2	VSTDCCC050	VW032490.D	19 Nov 2025 10:01	SY/MD	Ok,M
3	VW1119SBL01	VW032491.D	19 Nov 2025 10:36	SY/MD	Ok
4	VW1119SBS01	VW032492.D	19 Nov 2025 11:11	SY/MD	Ok,M
5	VW1119SBSD01	VW032493.D	19 Nov 2025 11:33	SY/MD	Ok,M
6	Q3619-17	VW032494.D	19 Nov 2025 12:08	SY/MD	Ok
7	VIBLK	VW032495.D	19 Nov 2025 12:30	SY/MD	Ok
8	Q3649-02	VW032496.D	19 Nov 2025 12:52	SY/MD	Ok
9	Q3649-04	VW032497.D	19 Nov 2025 13:14	SY/MD	Ok
10	Q3661-02RE	VW032498.D	19 Nov 2025 13:36	SY/MD	Confirms
11	Q3669-01	VW032499.D	19 Nov 2025 13:58	SY/MD	Ok,M
12	Q3664-01	VW032500.D	19 Nov 2025 14:20	SY/MD	Ok
13	Q3664-03	VW032501.D	19 Nov 2025 14:42	SY/MD	ReRun
14	Q3664-05	VW032502.D	19 Nov 2025 15:04	SY/MD	Ok
15	Q3619-03	VW032503.D	19 Nov 2025 15:26	SY/MD	Ok
16	Q3619-04	VW032504.D	19 Nov 2025 15:49	SY/MD	Ok
17	Q3619-09	VW032505.D	19 Nov 2025 16:10	SY/MD	Ok
18	Q3619-14	VW032506.D	19 Nov 2025 16:32	SY/MD	Ok
19	Q3619-18	VW032507.D	19 Nov 2025 16:53	SY/MD	Ok
20	VIBLK	VW032508.D	19 Nov 2025 17:16	SY/MD	Ok
21	VSTDCCC050	VW032509.D	19 Nov 2025 17:37	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW111025

Review By	Amit Patel	Review On	11/11/2025 7:21:42 AM
Supervise By	Maresh Dadoda	Supervise On	11/17/2025 1:37:22 PM
SubDirectory	VW111025	HP Acquire Method	VP134934 HP Processing Method
STD. NAME	STD REF.#		
Tune/Reschk	VP136122		
Initial Calibration Stds	VP136123,VP136124,VP136125,VP136126,VP136127,VP136128		
CCC			
Internal Standard/PEM	VP133934		
ICV/I.BLK	VP136129		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VW032405.D	10 Nov 2025 14:20		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VW032406.D	10 Nov 2025 15:11		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VW032407.D	10 Nov 2025 15:33		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VW032408.D	10 Nov 2025 15:55		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VW032409.D	10 Nov 2025 16:17		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VW032410.D	10 Nov 2025 16:39		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VW032411.D	10 Nov 2025 17:00		SY/MD	Ok,M
8	VIBLK	VIBLK	VW032412.D	10 Nov 2025 17:22		SY/MD	Ok
9	VSTDICV050	ICVVW111025	VW032413.D	10 Nov 2025 17:44		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW111825

Review By	Amit Patel	Review On	11/19/2025 10:30:41 AM
Supervise By	Maresh Dadoda	Supervise On	11/19/2025 11:20:35 AM
SubDirectory	VW111825	HP Acquire Method	MSVOA_W HP Processing Method 82w111025s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP136296
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136299,VP136300 VP136146

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VW032467.D	18 Nov 2025 09:15		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VW032468.D	18 Nov 2025 09:46		SY/MD	Ok,M
3	VW1118SBL01	VW1118SBL01	VW032469.D	18 Nov 2025 10:13		SY/MD	Ok
4	VW1118SBS01	VW1118SBS01	VW032470.D	18 Nov 2025 10:40		SY/MD	Ok,M
5	VW1118SBSD01	VW1118SBSD01	VW032471.D	18 Nov 2025 11:02		SY/MD	Ok,M
6	Q3658-01	NB-07-111725	VW032472.D	18 Nov 2025 11:50	vial-A	SY/MD	Ok
7	Q3656-01	T2-GRAVEL	VW032473.D	18 Nov 2025 12:12	vial-A	SY/MD	Ok
8	Q3633-05	ETGI-368	VW032474.D	18 Nov 2025 12:34	vial-B	SY/MD	Ok
9	Q3641-01RE	TR-05-111325RE	VW032475.D	18 Nov 2025 12:56	vial-B Surrogate Fail	SY/MD	Confirms
10	Q3638-01	MOO-25-0327	VW032476.D	18 Nov 2025 13:18	vial-A	SY/MD	Ok
11	Q3638-03	MOO-25-0328	VW032477.D	18 Nov 2025 13:40	vial-A	SY/MD	Ok
12	Q3640-03	LAW-25-0182	VW032478.D	18 Nov 2025 14:02	vial-A	SY/MD	Ok
13	Q3661-02	VOC	VW032479.D	18 Nov 2025 14:24	vial-A Internal Standard Fail	SY/MD	ReRun
14	Q3652-03	TP-1-VOC	VW032480.D	18 Nov 2025 14:46	vial-A	SY/MD	Ok
15	Q3649-02	B5-0.5-1.0-20251114	VW032481.D	18 Nov 2025 15:08	vial-A Surrogate Fail	SY/MD	ReRun
16	Q3649-04	DUPE-0.5-1.0-20251114	VW032482.D	18 Nov 2025 15:30	vial-A Surrogate Fail	SY/MD	ReRun
17	Q3649-05	B4-0.05-1.0-20251114	VW032483.D	18 Nov 2025 15:52	vial-A	SY/MD	Ok
18	Q3649-09	B3-0.5-1.0-20251114	VW032484.D	18 Nov 2025 16:14	vial-A	SY/MD	Ok

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW111825

Review By	Amit Patel	Review On	11/19/2025 10:30:41 AM
Supervise By	Maresh Dadoda	Supervise On	11/19/2025 11:20:35 AM
SubDirectory	VW111825	HP Acquire Method	MSVOA_W HP Processing Method 82w111025s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136296		
CCC	VP136299,VP136300		
Internal Standard/PEM	VP136146		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q3662-01	B3-0.5-1.0-20251117	VW032485.D	18 Nov 2025 16:36	vial-A	SY/MD	Ok
20	Q3662-03	B1-0.5-1.0-20251117	VW032486.D	18 Nov 2025 16:58	vial-A	SY/MD	Ok
21	VIBLK	VIBLK	VW032487.D	18 Nov 2025 17:20		SY/MD	Ok
22	VSTDCCC050	VSTDCCC050EC	VW032488.D	18 Nov 2025 17:43		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW111925

Review By	Amit Patel	Review On	11/20/2025 8:23:16 AM
Supervise By	Mahesh Dadoda	Supervise On	11/20/2025 10:02:48 AM
SubDirectory	VW111925	HP Acquire Method	MSVOA_W HP Processing Method 82w111025s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP136334
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136335,VP136336 VP136146

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VW032489.D	19 Nov 2025 09:32		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VW032490.D	19 Nov 2025 10:01		SY/MD	Ok,M
3	VW1119SBL01	VW1119SBL01	VW032491.D	19 Nov 2025 10:36		SY/MD	Ok
4	VW1119SBS01	VW1119SBS01	VW032492.D	19 Nov 2025 11:11		SY/MD	Ok,M
5	VW1119SBSD01	VW1119SBSD01	VW032493.D	19 Nov 2025 11:33		SY/MD	Ok,M
6	Q3619-17	GP-B4(8-12)	VW032494.D	19 Nov 2025 12:08	vial-A	SY/MD	Ok
7	VIBLK	VIBLK	VW032495.D	19 Nov 2025 12:30		SY/MD	Ok
8	Q3649-02	B5-0.5-1.0-20251114	VW032496.D	19 Nov 2025 12:52	vial-B	SY/MD	Ok
9	Q3649-04	DUPE-0.5-1.0-20251114	VW032497.D	19 Nov 2025 13:14	vial-B	SY/MD	Ok
10	Q3661-02RE	VOCRE	VW032498.D	19 Nov 2025 13:36	vial-B Internal Standard Fail	SY/MD	Confirms
11	Q3669-01	EO-01-11182025	VW032499.D	19 Nov 2025 13:58	vial-A	SY/MD	Ok,M
12	Q3664-01	ARS20-0001	VW032500.D	19 Nov 2025 14:20	vial-A	SY/MD	Ok
13	Q3664-03	ARS20-0013	VW032501.D	19 Nov 2025 14:42	vial-A Surrogate Fail	SY/MD	ReRun
14	Q3664-05	291399	VW032502.D	19 Nov 2025 15:04	vial-A	SY/MD	Ok
15	Q3619-03	GP-B1(8-12)	VW032503.D	19 Nov 2025 15:26	vial-A	SY/MD	Ok
16	Q3619-04	GP-B1(12-16)	VW032504.D	19 Nov 2025 15:49	vial-A	SY/MD	Ok
17	Q3619-09	GP-B2(12-16)	VW032505.D	19 Nov 2025 16:10	vial-A	SY/MD	Ok
18	Q3619-14	GP-B3(13.2)	VW032506.D	19 Nov 2025 16:32	vial-A	SY/MD	Ok

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW111925

Review By	Amit Patel	Review On	11/20/2025 8:23:16 AM
Supervise By	Maresh Dadoda	Supervise On	11/20/2025 10:02:48 AM
SubDirectory	VW111925	HP Acquire Method	MSVOA_W HP Processing Method 82w111025s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP136334
CCC	VP136335,VP136336
Internal Standard/PEM	VP136146
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3619-18	GP-B4(13.2)	VW032507.D	19 Nov 2025 16:53	vial-A	SY/MD	Ok
20	VIBLK	VIBLK	VW032508.D	19 Nov 2025 17:16		SY/MD	Ok
21	VSTDCCC050	VSTDCCC050EC	VW032509.D	19 Nov 2025 17:37		SY/MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 11/17/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 11/14/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:27
Out Date: 11/15/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137900

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
Q3635-01	40635	1	1.00	1.00	2.00	2.00	100.0	debris
Q3635-02	40617	2	1.00	1.00	2.00	2.00	100.0	oil sample
Q3636-01	AUD-25-0114	3	1.15	10.21	11.36	10.28	89.4	
Q3637-01	BUR-25-0100	4	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3637-02	BUR-25-0100	5	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3638-01	MOO-25-0327	6	1.17	10.24	11.41	6.36	50.7	
Q3638-03	MOO-25-0328	7	1.16	10.37	11.53	10.94	94.3	
Q3639-01	L66A	8	1.00	1.00	2.00	2.00	100.0	PILC
Q3639-02	L66B	9	1.00	1.00	2.00	2.00	100.0	PILC
Q3639-03	L67A	10	1.00	1.00	2.00	2.00	100.0	PILC
Q3639-04	L67B	11	1.00	1.00	2.00	2.00	100.0	PILC
Q3639-05	L68A	12	1.00	1.00	2.00	2.00	100.0	PILC
Q3639-06	L68B	13	1.00	1.00	2.00	2.00	100.0	PILC
Q3639-07	L69A	14	1.00	1.00	2.00	2.00	100.0	PILC
Q3639-08	L69B	15	1.00	1.00	2.00	2.00	100.0	PILC
Q3639-09	L70A	16	1.00	1.00	2.00	2.00	100.0	PILC
Q3639-10	L70B	17	1.00	1.00	2.00	2.00	100.0	PILC
Q3639-11	L71A	18	1.00	1.00	2.00	2.00	100.0	PILC
Q3639-12	L71B	19	1.00	1.00	2.00	2.00	100.0	PILC
Q3639-13	L72A	20	1.00	1.00	2.00	2.00	100.0	PILC
Q3639-14	L72B	21	1.00	1.00	2.00	2.00	100.0	PILC
Q3639-15	STG15-1-1	22	1.00	1.00	2.00	2.00	100.0	PILC
Q3639-16	STG15-1-2	23	1.00	1.00	2.00	2.00	100.0	PILC
Q3640-01	LAW-25-0179	24	1.14	10.16	11.3	9.4	81.3	
Q3640-02	LAW-25-0179-0180	25	1.19	10.47	11.66	10.81	91.9	
Q3640-03	LAW-25-0182	26	1.18	10.35	11.53	10.62	91.2	
Q3641-01	TR-05-111325	27	1.11	10.23	11.34	10.74	94.1	
Q3641-01D	TR-05-111325DUP	28	1.14	10.21	11.35	10.75	94.1	



PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 11/17/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 11/14/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:27
Out Date: 11/15/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137900

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
Q3641-02	TR-05-111325-E2	29	1.14	10.73	11.87	11.44	96.0	
Q3643-05	SVOC-GPC-BLANK	37	1.00	1.00	2.00	2.00	100.0	
Q3643-06	PEST-GPC-BLANK	38	1.00	1.00	2.00	2.00	100.0	
Q3643-07	PEST-GPC-BLANK-SPIKE	39	1.00	1.00	2.00	2.00	100.0	
Q3643-08	SVOC-GPC2-BLANK	40	1.00	1.00	2.00	2.00	100.0	
Q3643-09	PEST-GPC2-BLANK	41	1.00	1.00	2.00	2.00	100.0	
Q3643-10	PEST -GPC2-BLANK-SPIKE	42	1.00	1.00	2.00	2.00	100.0	
Q3645-01	HD-02-11142025	30	1.18	10.50	11.68	11.02	93.7	
Q3645-02	HD-02-11142025-E2	31	1.19	10.43	11.62	10.75	91.7	
Q3646-01	SU-03-11142025	32	1.11	10.26	11.37	10.38	90.4	
Q3646-02	SU-03-11142025-E2	33	1.18	11.13	12.31	11.35	91.4	
Q3647-01	VNJ-212	34	1.18	10.39	11.57	11.07	95.2	
Q3648-01	OR-02-111425	35	1.17	10.59	11.76	10.75	90.5	
Q3648-02	OR-02-111425-E2	36	1.14	10.78	11.92	10.96	91.1	
Q3649-01	B5-0.0-0.5-20251114	43	1.14	10.38	11.52	10.54	90.6	
Q3649-02	B5-0.5-1.0-20251114	44	1.16	10.61	11.77	10.8	90.9	
Q3649-03	DUPE-0.0-0.5-20251114	45	1.19	10.18	11.37	10.00	86.5	
Q3649-04	DUPE-0.5-1.0-20251114	46	1.11	10.07	11.18	10.04	88.7	
Q3649-05	B4-0.05-1.0-20251114	47	1.19	10.57	11.76	10.7	90.0	
Q3649-06	B4-0.0-0.5-20251114	48	1.14	10.54	11.68	10.77	91.4	
Q3649-07	B4-0.0-0.5-20251114	49	1.14	10.54	11.68	10.77	91.4	
Q3649-08	B3-0.0-0.5-20251114	50	1.16	10.61	11.77	10.28	86.0	
Q3649-09	B3-0.5-1.0-20251114	51	1.13	10.45	11.58	10.45	89.2	

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

WORKLIST(Hardcopy Internal Chain)

137900

WorkList Name : %1-111425 WorkList ID : 193119 Department : Wet-Chemistry Date : 11-14-2025 09:33:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3635-01	40635	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3635-02	40617	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3636-01	AUD-25-0114	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3637-01	BUR-25-0100	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3637-02	BUR-25-0100	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3638-01	MOO-25-0327	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3638-03	MOO-25-0328	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3639-01	L66A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3639-02	L66B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3639-03	L67A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3639-04	L67B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3639-05	L68A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3639-06	L68B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3639-07	L69A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3639-08	L69B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3639-09	L70A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3639-10	L70B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3639-11	L71A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3639-12	L71B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3639-13	L72A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3639-14	L72B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO

Date/Time: 11-14-25 15:25
 Raw Sample Received by: SAUCI
 Raw Sample Relinquished by: [Signature]
 Date/Time: 11-14-25 15:40
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

127900

WorkList Name : %1-111425

WorkList ID : 193119

Department : Wet-Chemistry

Date : 11-14-2025 09:33:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3639-15	STG15-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3639-16	STG15-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3640-01	LAW-25-0179	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3640-02	LAW-25-0179-0180	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3640-03	LAW-25-0182	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/13/2025	Chemtech -SO
Q3641-01	TR-05-111325	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	11/13/2025	Chemtech -SO
Q3641-02	TR-05-111325-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	11/13/2025	Chemtech -SO
Q3643-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	A12	11/07/2025	Chemtech -SO
Q3643-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	A12	11/07/2025	Chemtech -SO
Q3643-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	A12	11/07/2025	Chemtech -SO
Q3643-08	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	A12	11/07/2025	Chemtech -SO
Q3643-09	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	A12	11/07/2025	Chemtech -SO
Q3643-10	PEST -GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	A12	11/07/2025	Chemtech -SO
Q3645-01	HD-02-11142025	Solid	Percent Solids	Cool 4 deg C	PSEG05	D51	11/14/2025	Chemtech -SO
Q3645-02	HD-02-11142025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D51	11/14/2025	Chemtech -SO
Q3646-01	SU-03-11142025	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	11/14/2025	Chemtech -SO
Q3646-02	SU-03-11142025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	11/14/2025	Chemtech -SO
Q3647-01	VNJ-212	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	11/14/2025	Chemtech -SO
Q3648-01	OR-02-111425	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	11/14/2025	Chemtech -SO
Q3648-02	OR-02-111425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	11/14/2025	Chemtech -SO
Q3649-01	B5-0-0-0.5-20251114	Solid	Percent Solids	Cool 4 deg C	HDR108	D41	11/14/2025	Chemtech -SO

Date/Time 11-14-25 15:25
 Raw Sample Received by: SO WOLF SM
 Raw Sample Relinquished by: SO WOLF SM

Date/Time 11-14-25 17:40
 Raw Sample Received by: SO WOLF SM
 Raw Sample Relinquished by: SO WOLF SM

WORKLIST(Hardcopy Internal Chain)

JB 137900

WorkList Name : %1-111425

WorkList ID : 193119

Department : Wet-Chemistry

Date : 11-14-2025 09:33:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3649-02	B5-0.5-1.0-20251114	Solid	Percent Solids	Cool 4 deg C	HDR108	D41	11/14/2025	Chemtech -SO
Q3649-03	DUPE-0.0-0.5-20251114	Solid	Percent Solids	Cool 4 deg C	HDR108	D41	11/14/2025	Chemtech -SO
Q3649-04	DUPE-0.5-1.0-20251114	Solid	Percent Solids	Cool 4 deg C	HDR108	D41	11/14/2025	Chemtech -SO
Q3649-05	B4-0.05-1.0-20251114	Solid	Percent Solids	Cool 4 deg C	HDR108	D41	11/14/2025	Chemtech -SO
Q3649-06	B4-0.0-0.5-20251114	Solid	Percent Solids	Cool 4 deg C	HDR108	D41	11/14/2025	Chemtech -SO
Q3649-07	B4-0.0-0.5-20251114	Solid	Percent Solids	Cool 4 deg C	HDR108	D41	11/14/2025	Chemtech -SO
Q3649-08	B3-0.0-0.5-20251114	Solid	Percent Solids	Cool 4 deg C	HDR108	D41	11/14/2025	Chemtech -SO
Q3649-09	B3-0.5-1.0-20251114	Solid	Percent Solids	Cool 4 deg C	HDR108	D41	11/14/2025	Chemtech -SO

Date/Time 11-14-25 15:25
 Raw Sample Received by: JB wgy
 Raw Sample Relinquished by: JB wgy

Date/Time 11-14-25 17:40
 Raw Sample Received by: JB wgy
 Raw Sample Relinquished by: JB wgy



SHIPPING DOCUMENTS

Laboratory Certification

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3649	HDRIO8	Order Date : 11/14/2025 3:02:13 PM	Project Mgr :
Client Name : HDR, Inc.		Project Name : PVWC Linear Construction	Report Type : NJ Reduced
Client Contact : Andrew Wadden		Receive DateTime : 11/14/2025 3:00:00 PM	EDD Type : Excel NJ
Invoice Name : HDR, Inc.		Purchase Order :	Hard Copy Date :
Invoice Contact : Andrew Wadden			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3649-02	B5-0.5-1.0-20251114	Solid	11/14/2025	10:35					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q3649-04	DUPE-0.5-1.0-20251114	Solid	11/14/2025	12:20					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q3649-05	B4-0.05-1.0-20251114	Solid	11/14/2025	12:15					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q3649-09	B3-0.5-1.0-20251114	Solid	11/14/2025	13:55					
					VOC-TCLVOA-10		8260D	10 Bus. Days	

Technotes

Relinquished By :

Date / Time :

[Signature]
11-14-25 1550

Received By :

Date / Time :

[Signature]
11-14-25

15:50

Storage Area : VOA Refridgerator Room

*Stored in rva
E8202 & ref # 06 (1)*