

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:	Q3238	OrderDate:	9/29/2025 1:34:00 PM
Client:	Yannuzzi Group, Inc.	Project:	Edison Yard
Contact:	Alyssa Yannuzzi	Location:	D31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3238-01	RCA	SOIL	VOC-TCLVOA-10	8260D	09/18/25		09/29/25	09/29/25
Q3238-01RE	RCARE	SOIL	VOC-TCLVOA-10	8260D	09/18/25		09/30/25	09/29/25



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Hit Summary Sheet
SW-846

SDG No.: Q3238
Client: Yannuzzi Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: Q3238-01	RCA RCA	SOIL	Acetone	11.8	J	4.60	24.4	ug/Kg
			Total Voc :	11.8				
			Total Concentration:	11.8				
Client ID: Q3238-01RE	RCARE RCARE	SOIL	Acetone	13.5	J	4.70	25.0	ug/Kg
			Total Voc :	13.5				
			Total Concentration:	13.5				



QC SUMMARY

Surrogate Summary

SDG No.: **Q3238**

Client: **Yannuzzi Group, Inc.**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3238-01	RCA	1,2-Dichloroethane-d4	50	60.0	120		70 (63)	130 (155)
		Dibromofluoromethane	50	26.8	54	*	70 (70)	130 (134)
		Toluene-d8	50	51.0	102		70 (74)	130 (123)
		4-Bromofluorobenzene	50	48.2	96		70 (17)	130 (146)
Q3238-01RE	RCARE	1,2-Dichloroethane-d4	50	60.8	122		70 (63)	130 (155)
		Dibromofluoromethane	50	23.5	47	*	70 (70)	130 (134)
		Toluene-d8	50	48.9	98		70 (74)	130 (123)
		4-Bromofluorobenzene	50	45.7	91		70 (17)	130 (146)
VW0929SBL01	VW0929SBL01	1,2-Dichloroethane-d4	50	62.9	126		70 (63)	130 (155)
		Dibromofluoromethane	50	50.9	102		70 (70)	130 (134)
		Toluene-d8	50	51.9	104		70 (74)	130 (123)
		4-Bromofluorobenzene	50	49.6	99		70 (17)	130 (146)
VW0929SBS01	VW0929SBS01	1,2-Dichloroethane-d4	50	49.1	98		70 (63)	130 (155)
		Dibromofluoromethane	50	48.6	97		70 (70)	130 (134)
		Toluene-d8	50	50.3	101		70 (74)	130 (123)
		4-Bromofluorobenzene	50	51.6	103		70 (17)	130 (146)
VW0929SBSD0	VW0929SBSD01	1,2-Dichloroethane-d4	50	48.9	98		70 (63)	130 (155)
		Dibromofluoromethane	50	47.0	94		70 (70)	130 (134)
		Toluene-d8	50	48.8	97		70 (74)	130 (123)
		4-Bromofluorobenzene	50	48.8	98		70 (17)	130 (146)
VW0930SBL01	VW0930SBL01	1,2-Dichloroethane-d4	50	57.0	114		70 (63)	130 (155)
		Dibromofluoromethane	50	50.2	100		70 (70)	130 (134)
		Toluene-d8	50	51.1	102		70 (74)	130 (123)
		4-Bromofluorobenzene	50	46.1	92		70 (17)	130 (146)
VW0930SBS01	VW0930SBS01	1,2-Dichloroethane-d4	50	49.9	100		70 (63)	130 (155)
		Dibromofluoromethane	50	46.7	93		70 (70)	130 (134)
		Toluene-d8	50	46.6	93		70 (74)	130 (123)
		4-Bromofluorobenzene	50	46.6	93		70 (17)	130 (146)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3238</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Yannuzzi Group, Inc.</u>	Datafile :	<u>VW032290.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW0929SBS01	Dichlorodifluoromethane	20	23.1	ug/Kg	116			40 (64)	160 (136)	
	Chloromethane	20	20.7	ug/Kg	104			40 (52)	160 (151)	
	Vinyl chloride	20	22.3	ug/Kg	112			70 (56)	130 (148)	
	Bromomethane	20	22.5	ug/Kg	113			40 (58)	160 (141)	
	Chloroethane	20	20.9	ug/Kg	104			40 (69)	160 (130)	
	Trichlorofluoromethane	20	17.3	ug/Kg	86			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	21.4	ug/Kg	107			70 (81)	130 (123)	
	1,1-Dichloroethene	20	21.3	ug/Kg	106			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (40)	160 (171)	
	Carbon disulfide	20	22.5	ug/Kg	113			40 (59)	160 (130)	
	Methyl tert-butyl Ether	20	21.3	ug/Kg	106			70 (77)	130 (129)	
	Methyl Acetate	20	18.5	ug/Kg	93			70 (69)	130 (149)	
	Methylene Chloride	20	19.5	ug/Kg	98			70 (72)	130 (131)	
	trans-1,2-Dichloroethene	20	21.8	ug/Kg	109			70 (80)	130 (123)	
	1,1-Dichloroethane	20	21.8	ug/Kg	109			70 (82)	130 (123)	
	Cyclohexane	20	21.7	ug/Kg	109			70 (76)	130 (122)	
	2-Butanone	100	110	ug/Kg	110			40 (69)	160 (131)	
	Carbon Tetrachloride	20	21.7	ug/Kg	109			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	21.3	ug/Kg	106			70 (82)	130 (123)	
	Bromochloromethane	20	21.5	ug/Kg	108			70 (80)	130 (127)	
	Chloroform	20	21.8	ug/Kg	109			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	21.5	ug/Kg	108			70 (80)	130 (126)	
	Methylcyclohexane	20	20.9	ug/Kg	104			70 (77)	130 (123)	
	Benzene	20	21.4	ug/Kg	107			70 (84)	130 (121)	
	1,2-Dichloroethane	20	21.3	ug/Kg	106			70 (81)	130 (126)	
	Trichloroethene	20	21.1	ug/Kg	106			70 (83)	130 (122)	
	1,2-Dichloropropane	20	21.0	ug/Kg	105			70 (83)	130 (122)	
	Bromodichloromethane	20	21.0	ug/Kg	105			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			40 (70)	160 (135)	
	Toluene	20	21.5	ug/Kg	108			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	21.5	ug/Kg	108			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	21.7	ug/Kg	109			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.4	ug/Kg	102			70 (82)	130 (125)	
	2-Hexanone	100	100	ug/Kg	100			40 (66)	160 (138)	
	Dibromochloromethane	20	21.1	ug/Kg	106			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.7	ug/Kg	104			70 (80)	130 (125)	
	Tetrachloroethene	20	21.6	ug/Kg	108			70 (83)	130 (125)	
	Chlorobenzene	20	20.9	ug/Kg	104			70 (84)	130 (122)	
	Ethyl Benzene	20	21.1	ug/Kg	106			70 (82)	130 (124)	
	m/p-Xylenes	40	42.6	ug/Kg	106			70 (83)	130 (124)	
	o-Xylene	20	20.9	ug/Kg	104			70 (83)	130 (123)	
	Styrene	20	21.9	ug/Kg	110			70 (82)	130 (124)	
	Bromoform	20	20.3	ug/Kg	102			70 (75)	130 (127)	
	Isopropylbenzene	20	20.9	ug/Kg	104			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	20.1	ug/Kg	101			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	21.2	ug/Kg	106			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	21.2	ug/Kg	106			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	20.7	ug/Kg	104			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3238</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Yannuzzi Group, Inc.</u>	Datafile :	<u>VW032290.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW0929SBS01	1,2-Dibromo-3-Chloropropane	20	20.0	ug/Kg	100			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	19.3	ug/Kg	97			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	20.5	ug/Kg	103			70 (70)	130 (137)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q3238	Analytical Method:	SW8260D
Client:	Yannuzzi Group, Inc.	Datafile :	VW032291.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW0929SBSD01	Dichlorodifluoromethane	20	22.9	ug/Kg	115	1		40 (64)	160 (136)	30 (20)
	Chloromethane	20	20.7	ug/Kg	104	0		40 (52)	160 (151)	30 (20)
	Vinyl chloride	20	21.0	ug/Kg	105	6		70 (56)	130 (148)	30 (20)
	Bromomethane	20	20.5	ug/Kg	103	9		40 (58)	160 (141)	30 (20)
	Chloroethane	20	20.8	ug/Kg	104	0		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	18.9	ug/Kg	95	10		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.4	ug/Kg	102	5		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	19.5	ug/Kg	98	8		70 (79)	130 (121)	30 (20)
	Acetone	100	100	ug/Kg	100	10		40 (40)	160 (171)	30 (20)
	Carbon disulfide	20	20.7	ug/Kg	104	8		40 (59)	160 (130)	30 (20)
	Methyl tert-butyl Ether	20	20.4	ug/Kg	102	4		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	18.4	ug/Kg	92	1		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	15.7	ug/Kg	79	21		70 (72)	130 (131)	30 (20)
	trans-1,2-Dichloroethene	20	20.5	ug/Kg	103	6		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	20.9	ug/Kg	104	5		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	21.1	ug/Kg	106	3		70 (76)	130 (122)	30 (20)
	2-Butanone	100	98.2	ug/Kg	98	12		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	21.0	ug/Kg	105	4		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	20.4	ug/Kg	102	4		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	20.8	ug/Kg	104	4		70 (80)	130 (127)	30 (20)
	Chloroform	20	20.8	ug/Kg	104	5		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	20.7	ug/Kg	104	4		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	20.4	ug/Kg	102	2		70 (77)	130 (123)	30 (20)
	Benzene	20	20.7	ug/Kg	104	3		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	20.2	ug/Kg	101	5		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	21.0	ug/Kg	105	1		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	20.5	ug/Kg	103	2		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	20.3	ug/Kg	102	3		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	100	ug/Kg	100	0		40 (70)	160 (135)	30 (20)
	Toluene	20	20.5	ug/Kg	103	5		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	20.3	ug/Kg	102	6		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	20.9	ug/Kg	104	5		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	19.9	ug/Kg	100	2		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	100	ug/Kg	100	0		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	19.8	ug/Kg	99	7		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	19.9	ug/Kg	100	4		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	21.8	ug/Kg	109	1		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	21.9	ug/Kg	110	6		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	21.6	ug/Kg	108	2		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	43.7	ug/Kg	109	3		70 (83)	130 (124)	30 (20)
	o-Xylene	20	21.9	ug/Kg	110	6		70 (83)	130 (123)	30 (20)
	Styrene	20	22.4	ug/Kg	112	2		70 (82)	130 (124)	30 (20)
	Bromoform	20	20.9	ug/Kg	104	2		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	21.6	ug/Kg	108	4		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	21.2	ug/Kg	106	5		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	22.2	ug/Kg	111	5		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	22.8	ug/Kg	114	7		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	22.2	ug/Kg	111	7		70 (83)	130 (124)	30 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3238</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Yannuzzi Group, Inc.</u>	Datafile :	<u>VW032291.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW0929SBSD01	1,2-Dibromo-3-Chloropropane	20	21.2	ug/Kg	106	6		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	20.7	ug/Kg	104	7		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	21.0	ug/Kg	105	2		70 (70)	130 (137)	30 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3238</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Yannuzzi Group, Inc.</u>	Datafile :	<u>VW032300.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW0930SBS01	Dichlorodifluoromethane	20	21.5	ug/Kg	108			40 (64)	160 (136)	
	Chloromethane	20	21.9	ug/Kg	110			40 (52)	160 (151)	
	Vinyl chloride	20	22.4	ug/Kg	112			70 (56)	130 (148)	
	Bromomethane	20	22.8	ug/Kg	114			40 (58)	160 (141)	
	Chloroethane	20	21.6	ug/Kg	108			40 (69)	160 (130)	
	Trichlorofluoromethane	20	17.6	ug/Kg	88			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	21.2	ug/Kg	106			70 (81)	130 (123)	
	1,1-Dichloroethene	20	21.9	ug/Kg	110			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (40)	160 (171)	
	Carbon disulfide	20	21.8	ug/Kg	109			40 (59)	160 (130)	
	Methyl tert-butyl Ether	20	22.6	ug/Kg	113			70 (77)	130 (129)	
	Methyl Acetate	20	21.8	ug/Kg	109			70 (69)	130 (149)	
	Methylene Chloride	20	20.2	ug/Kg	101			70 (72)	130 (131)	
	trans-1,2-Dichloroethene	20	21.8	ug/Kg	109			70 (80)	130 (123)	
	1,1-Dichloroethane	20	21.8	ug/Kg	109			70 (82)	130 (123)	
	Cyclohexane	20	20.6	ug/Kg	103			70 (76)	130 (122)	
	2-Butanone	100	110	ug/Kg	110			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.3	ug/Kg	102			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	21.5	ug/Kg	108			70 (82)	130 (123)	
	Bromochloromethane	20	21.9	ug/Kg	110			70 (80)	130 (127)	
	Chloroform	20	21.7	ug/Kg	109			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	21.9	ug/Kg	110			70 (80)	130 (126)	
	Methylcyclohexane	20	19.2	ug/Kg	96			70 (77)	130 (123)	
	Benzene	20	20.5	ug/Kg	103			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.6	ug/Kg	103			70 (81)	130 (126)	
	Trichloroethene	20	20.5	ug/Kg	103			70 (83)	130 (122)	
	1,2-Dichloropropane	20	20.5	ug/Kg	103			70 (83)	130 (122)	
	Bromodichloromethane	20	20.3	ug/Kg	102			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			40 (70)	160 (135)	
	Toluene	20	20.6	ug/Kg	103			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	20.5	ug/Kg	103			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	20.3	ug/Kg	102			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.4	ug/Kg	102			70 (82)	130 (125)	
	2-Hexanone	100	110	ug/Kg	110			40 (66)	160 (138)	
	Dibromochloromethane	20	20.0	ug/Kg	100			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.2	ug/Kg	101			70 (80)	130 (125)	
	Tetrachloroethene	20	21.3	ug/Kg	106			70 (83)	130 (125)	
	Chlorobenzene	20	20.5	ug/Kg	103			70 (84)	130 (122)	
	Ethyl Benzene	20	20.0	ug/Kg	100			70 (82)	130 (124)	
	m/p-Xylenes	40	41.4	ug/Kg	104			70 (83)	130 (124)	
	o-Xylene	20	20.3	ug/Kg	102			70 (83)	130 (123)	
	Styrene	20	21.0	ug/Kg	105			70 (82)	130 (124)	
	Bromoform	20	18.9	ug/Kg	95			70 (75)	130 (127)	
	Isopropylbenzene	20	19.4	ug/Kg	97			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	19.8	ug/Kg	99			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	20.7	ug/Kg	104			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.7	ug/Kg	99			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.8	ug/Kg	99			70 (83)	130 (124)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3238</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Yannuzzi Group, Inc.</u>	Datafile :	<u>VW032300.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW0930SBS01	1,2-Dibromo-3-Chloropropane	20	19.6	ug/Kg	98			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	19.6	ug/Kg	98			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	19.9	ug/Kg	100			70 (70)	130 (137)	

VOLATILE METHOD BLANK SUMMARY

Client ID

VW0929SBL01

Lab Name: Alliance

Contract: YANN01

Lab Code: ACE

SDG NO.: Q3238

Lab File ID: VW032289.D

Lab Sample ID: VW0929SBL01

Date Analyzed: 09/29/2025

Time Analyzed: 10:18

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
VW0929SBS01	VW0929SBS01	VW032290.D	09/29/2025
VW0929SBSD01	VW0929SBSD01	VW032291.D	09/29/2025
RCA	Q3238-01	VW032294.D	09/29/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VW0930SBL01

Lab Name: Alliance

Contract: YANN01

Lab Code: ACE

SDG NO.: Q3238

Lab File ID: VW032299.D

Lab Sample ID: VW0930SBL01

Date Analyzed: 09/30/2025

Time Analyzed: 13:25

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
VW0930SBS01	VW0930SBS01	VW032300.D	09/30/2025
RCARE	Q3238-01RE	VW032302.D	09/30/2025

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: YANN01

Lab Code: ACE

SDG NO.: Q3238

Lab File ID: VW032257.D

BFB Injection Date: 09/25/2025

Instrument ID: MSVOA_W

BFB Injection Time: 10:01

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

Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19
75	30.0 - 60.0% of mass 95	51
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	66.7
175	5.0 - 9.0% of mass 174	4.9 (7.4) 1
176	95.0 - 101.0% of mass 174	64.4 (96.6) 1
177	5.0 - 9.0% of mass 176	4 (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
VSTDIC005	VSTDIC005	VW032258.D	09/25/2025	10:45
VSTDIC010	VSTDIC010	VW032259.D	09/25/2025	11:30
VSTDIC020	VSTDIC020	VW032260.D	09/25/2025	11:52
VSTDIC050	VSTDIC050	VW032261.D	09/25/2025	12:24
VSTDIC100	VSTDIC100	VW032262.D	09/25/2025	12:46
VSTDIC150	VSTDIC150	VW032263.D	09/25/2025	13:08



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

Lab Name: Alliance

Contract: YANN01

Lab Code: ACE

SDG NO.: Q3238

Lab File ID: VW032287.D

BFB Injection Date: 09/29/2025

Instrument ID: MSVOA_W

BFB Injection Time: 08:46

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

Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.5
75	30.0 - 60.0% of mass 95	50
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	67.1
175	5.0 - 9.0% of mass 174	5 (7.4) 1
176	95.0 - 101.0% of mass 174	66.7 (99.3) 1
177	5.0 - 9.0% of mass 176	4.3 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VW032288.D	09/29/2025	09:18
VW0929SBL01	VW0929SBL01	VW032289.D	09/29/2025	10:18
VW0929SBS01	VW0929SBS01	VW032290.D	09/29/2025	10:46
VW0929SBSD01	VW0929SBSD01	VW032291.D	09/29/2025	11:09
RCA	Q3238-01	VW032294.D	09/29/2025	14:16



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Fax : 908 789 8922

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

Lab Name: Alliance

Contract: YANN01

Lab Code: ACE

SDG NO.: Q3238

Lab File ID: VW032297.D

BFB Injection Date: 09/30/2025

Instrument ID: MSVOA_W

BFB Injection Time: 10:43

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

Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.4
75	30.0 - 60.0% of mass 95	50.6
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	65
175	5.0 - 9.0% of mass 174	5.1 (7.9) 1
176	95.0 - 101.0% of mass 174	61.8 (95.1) 1
177	5.0 - 9.0% of mass 176	3.8 (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	VW032298.D	09/30/2025	12:54
VW0930SBL01	VW0930SBL01	VW032299.D	09/30/2025	13:25
VW0930SBS01	VW0930SBS01	VW032300.D	09/30/2025	13:51
RCARE	Q3238-01RE	VW032302.D	09/30/2025	14:52

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: YANN01
 Lab Code: ACE SDG NO.: Q3238
 Lab File ID: VW032288.D Date Analyzed: 09/29/2025
 Instrument ID: MSVOA_W Time Analyzed: 09:18
 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	268675	7.96	467141	8.85	421624	11.63
UPPER LIMIT	537350	8.459	934282	9.349	843248	12.129
LOWER LIMIT	134338	7.459	233571	8.349	210812	11.129
EPA SAMPLE NO.						
RCA	166736	7.96	358094	8.85	380188	11.63
VW0929SBL01	170986	7.95	366797	8.85	375398	11.63
VW0929SBS01	225036	7.96	419951	8.85	396829	11.63
VW0929SBSD01	235838	7.97	436378	8.86	387451	11.64

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>YANN01</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q3238</u>
Lab File ID:	<u>VW032288.D</u>	Date Analyzed:	<u>09/29/2025</u>
Instrument ID:	<u>MSVOA_W</u>	Time Analyzed:	<u>09:18</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	216076	13.556				
UPPER LIMIT	432152	14.056				
LOWER LIMIT	108038	13.056				
EPA SAMPLE NO.						
RCA	175337	13.56				
VW0929SBL01	185238	13.56				
VW0929SBS01	199844	13.56				
VW0929SBSD01	191625	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: YANN01
 Lab Code: ACE SDG NO.: Q3238
 Lab File ID: VW032298.D Date Analyzed: 09/30/2025
 Instrument ID: MSVOA_W Time Analyzed: 12:54
 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	244399	7.96	443869	8.85	407884	11.63
UPPER LIMIT	488798	8.459	887738	9.349	815768	12.129
LOWER LIMIT	122200	7.459	221935	8.349	203942	11.129
EPA SAMPLE NO.						
RCARE	175613	7.96	403251	8.85	393328	11.63
VW0930SBL01	181583	7.96	391867	8.85	387829	11.63
VW0930SBS01	217107	7.97	424498	8.85	400367	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: YANN01
 Lab Code: ACE SDG NO.: Q3238
 Lab File ID: VW032298.D Date Analyzed: 09/30/2025
 Instrument ID: MSVOA_W Time Analyzed: 12:54
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	203513	13.55				
UPPER LIMIT	407026	14.05				
LOWER LIMIT	101757	13.05				
EPA SAMPLE NO.						
RCARE	198744	13.56				
VW0930SBL01	182932	13.56				
VW0930SBS01	206719	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:	Yannuzzi Group, Inc.	Date Collected:	09/18/25
Project:	Edison Yard	Date Received:	09/29/25
Client Sample ID:	RCA	SDG No.:	Q3238
Lab Sample ID:	Q3238-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5.12 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032294.D	1	09/29/25 14:16	VW092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.90	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.90	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	4.90	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	4.90	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.90	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	4.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.98	U	0.98	4.90	ug/Kg
67-64-1	Acetone	11.8	J	4.60	24.4	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.71	U	0.71	4.90	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.90	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	9.80	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	4.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.78	U	0.78	4.90	ug/Kg
110-82-7	Cyclohexane	0.77	U	0.77	4.90	ug/Kg
78-93-3	2-Butanone	6.40	U	6.40	24.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.95	U	0.95	4.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.73	U	0.73	4.90	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.90	ug/Kg
67-66-3	Chloroform	0.82	U	0.82	4.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.91	U	0.91	4.90	ug/Kg
108-87-2	Methylcyclohexane	0.89	U	0.89	4.90	ug/Kg
71-43-2	Benzene	0.77	U	0.77	4.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.77	U	0.77	4.90	ug/Kg
79-01-6	Trichloroethene	0.79	U	0.79	4.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.89	U	0.89	4.90	ug/Kg
75-27-4	Bromodichloromethane	0.76	U	0.76	4.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.50	U	3.50	24.4	ug/Kg
108-88-3	Toluene	0.76	U	0.76	4.90	ug/Kg

Report of Analysis

Client:	Yannuzzi Group, Inc.		Date Collected:	09/18/25	
Project:	Edison Yard		Date Received:	09/29/25	
Client Sample ID:	RCA		SDG No.:	Q3238	
Lab Sample ID:	Q3238-01		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	100	
Sample Wt/Vol:	5.12	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032294.D	1	09/29/25 14:16	VW092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.63	U	0.63	4.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.61	U	0.61	4.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.90	U	0.90	4.90	ug/Kg
591-78-6	2-Hexanone	3.60	U	3.60	24.4	ug/Kg
124-48-1	Dibromochloromethane	0.85	U	0.85	4.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.86	U	0.86	4.90	ug/Kg
127-18-4	Tetrachloroethene	1.00	U	1.00	4.90	ug/Kg
108-90-7	Chlorobenzene	0.89	U	0.89	4.90	ug/Kg
100-41-4	Ethyl Benzene	0.65	U	0.65	4.90	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.80	ug/Kg
95-47-6	o-Xylene	0.80	U	0.80	4.90	ug/Kg
100-42-5	Styrene	0.69	U	0.69	4.90	ug/Kg
75-25-2	Bromoform	0.84	U	0.84	4.90	ug/Kg
98-82-8	Isopropylbenzene	0.76	U	0.76	4.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	4.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	4.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	4.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.40	U	1.40	4.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	4.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.90	U	2.90	4.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.10	U	3.10	4.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.0		70 (63) - 130 (155)	120%	SPK: 50
1868-53-7	Dibromofluoromethane	26.8	*	70 (70) - 130 (134)	54%	SPK: 50
2037-26-5	Toluene-d8	51.0		70 (74) - 130 (123)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.2		70 (17) - 130 (146)	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	7.959			
540-36-3	1,4-Difluorobenzene	358000	8.849			
3114-55-4	Chlorobenzene-d5	380000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	175000	13.556			

Report of Analysis

Client:	Yannuzzi Group, Inc.	Date Collected:	09/18/25
Project:	Edison Yard	Date Received:	09/29/25
Client Sample ID:	RCA	SDG No.:	Q3238
Lab Sample ID:	Q3238-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5.12 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032294.D	1	09/29/25 14:16	VW092925

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

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
 Data File : VW032294.D
 Acq On : 29 Sep 2025 14:16
 Operator : SY/MD
 Sample : Q3238-01
 Misc : 5.12g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RCA

Quant Time: Sep 30 02:36:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 2025
 Response via : Initial Calibration

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

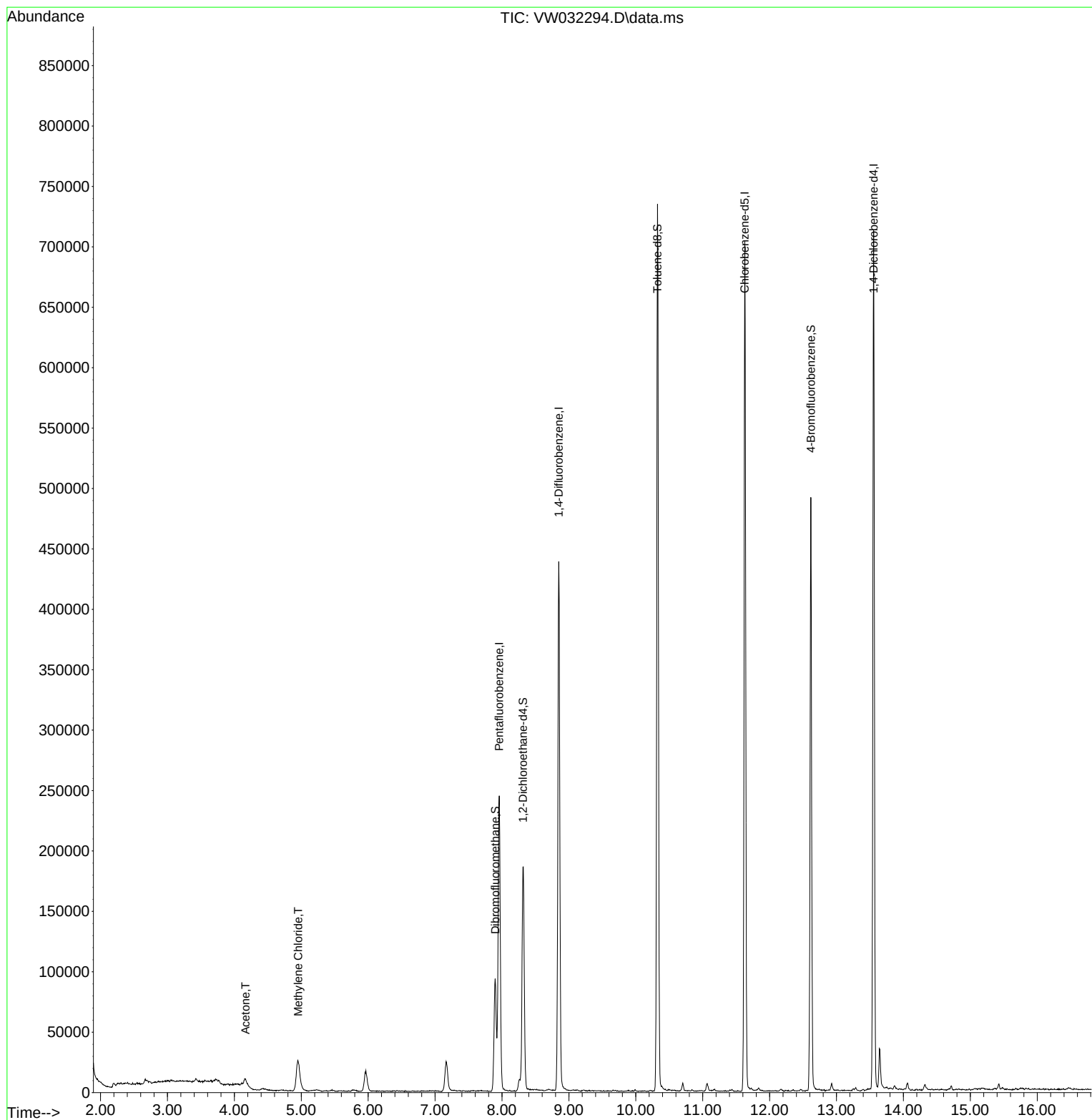
Internal Standards						
1) Pentafluorobenzene	7.959	168	166736	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	358094	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	380188	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	175337	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.313	65	158082	60.045	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	120.100%
35) Dibromofluoromethane	7.898	113	69082	26.825	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	53.640%#
50) Toluene-d8	10.325	98	473655	51.033	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	102.060%
62) 4-Bromofluorobenzene	12.617	95	168709	48.189	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	96.380%
Target Compounds						
16) Acetone	4.167	43	8200	12.128	ug/l	89
20) Methylene Chloride	4.954	84	22576	2.004	ug/l	96

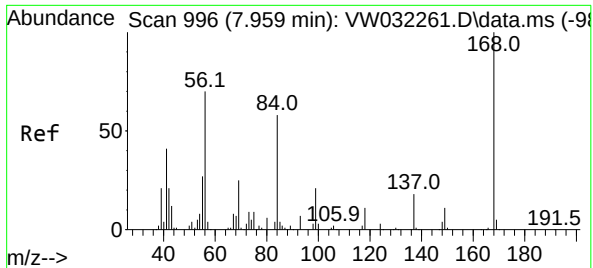
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
Data File : VW032294.D
Acq On : 29 Sep 2025 14:16
Operator : SY/MD
Sample : Q3238-01
Misc : 5.12g/5mL/MSVOA_W/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
RCA

Quant Time: Sep 30 02:36:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 2025
Response via : Initial Calibration

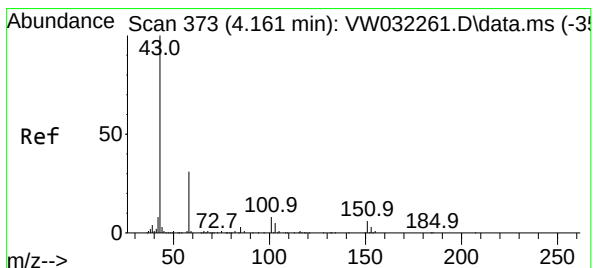
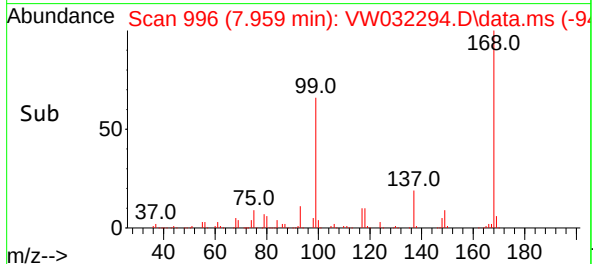
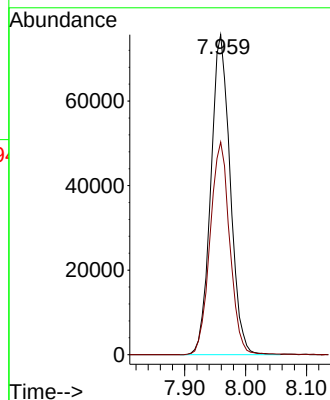
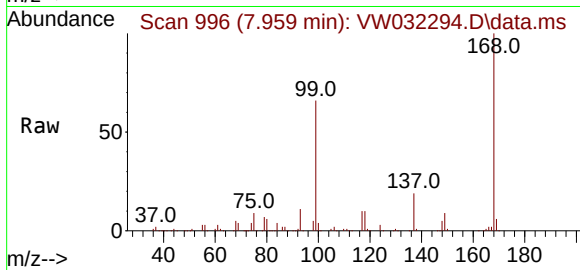




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. 0.000 min
Lab File: VW032294.D
Acq: 29 Sep 2025 14:16

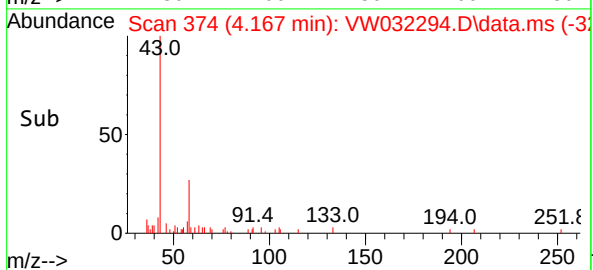
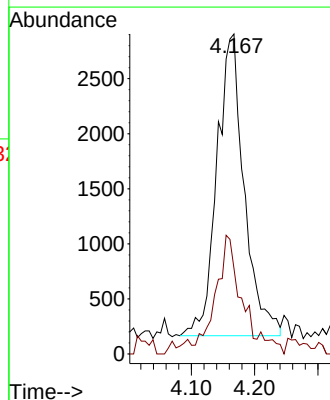
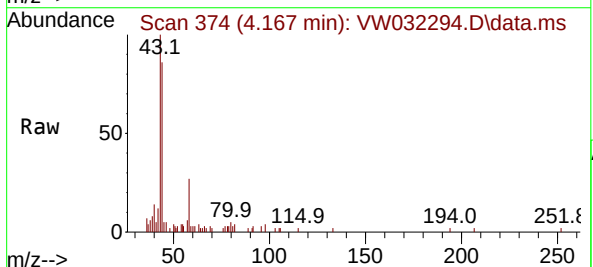
Instrument :
MSVOA_W
ClientSampleId :
RCA

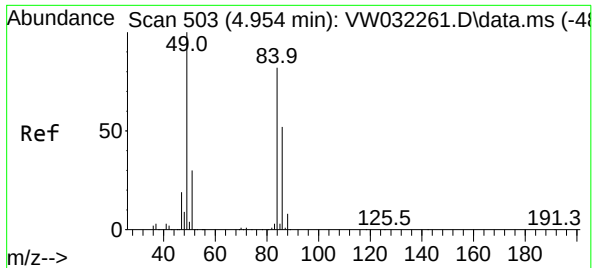
Tgt Ion:168 Resp: 166736
Ion Ratio Lower Upper
168 100
99 66.4 55.0 82.4



#16
Acetone
Concen: 12.128 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.006 min
Lab File: VW032294.D
Acq: 29 Sep 2025 14:16

Tgt Ion: 43 Resp: 8200
Ion Ratio Lower Upper
43 100
58 25.8 25.4 38.0



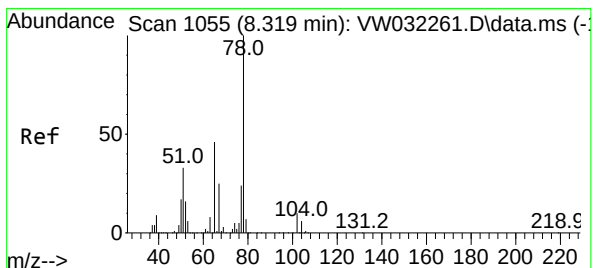
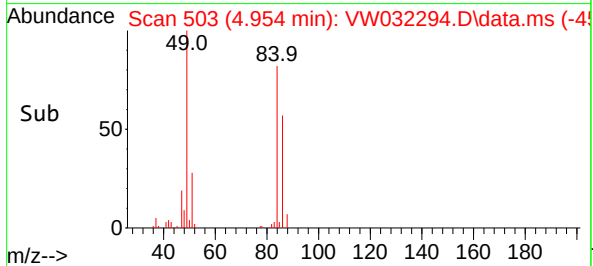
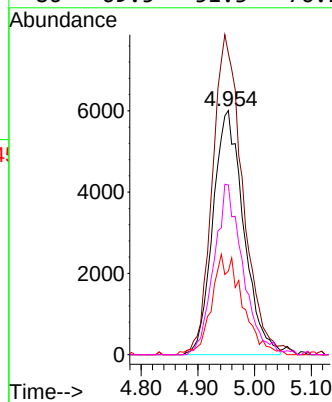
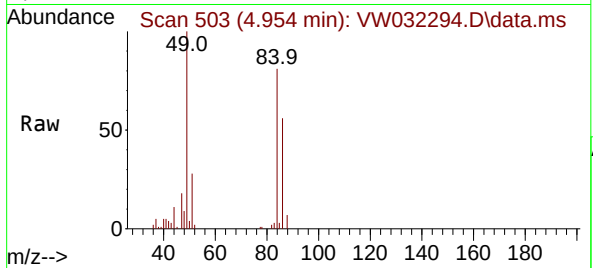


#20
Methylene Chloride
Concen: 2.004 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.000 min
Lab File: VW032294.D
Acq: 29 Sep 2025 14:16

Instrument :
MSVOA_W
ClientSampleId :
RCA

Tgt Ion: 84 Resp: 22576

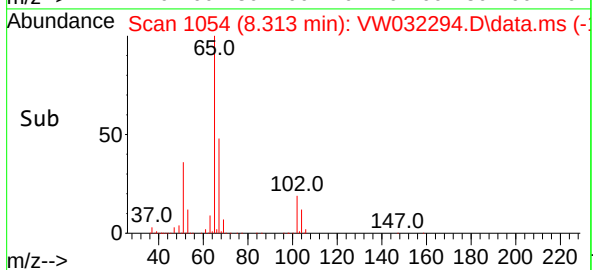
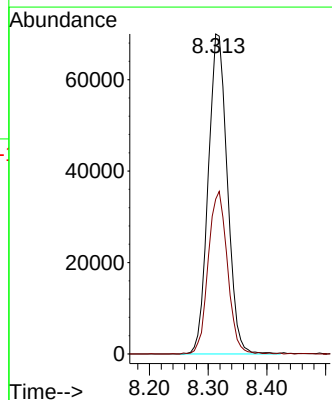
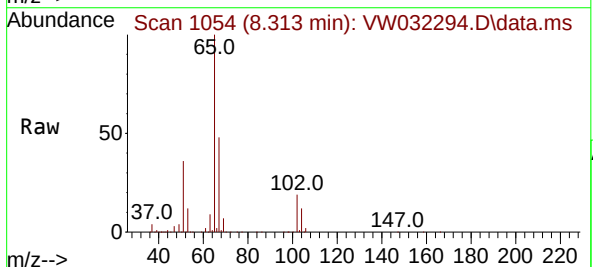
Ion	Ratio	Lower	Upper
84	100		
49	123.3	97.8	146.6
51	32.9	29.9	44.9
86	69.5	51.3	76.9

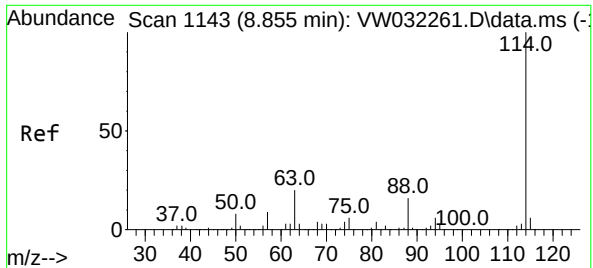


#33
1,2-Dichloroethane-d4
Concen: 60.045 ug/l
RT: 8.313 min Scan# 1054
Delta R.T. -0.006 min
Lab File: VW032294.D
Acq: 29 Sep 2025 14:16

Tgt Ion: 65 Resp: 158082

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1143

Delta R.T. -0.006 min

Lab File: VW032294.D

Acq: 29 Sep 2025 14:16

Instrument :

MSVOA_W

ClientSampleId :

RCA

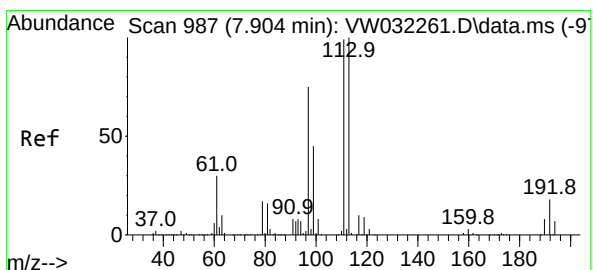
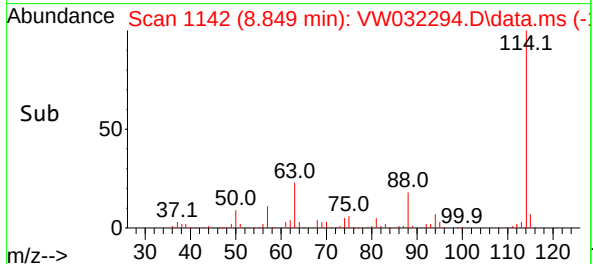
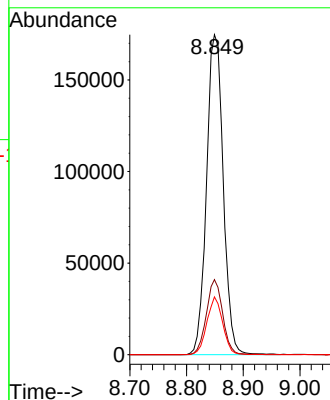
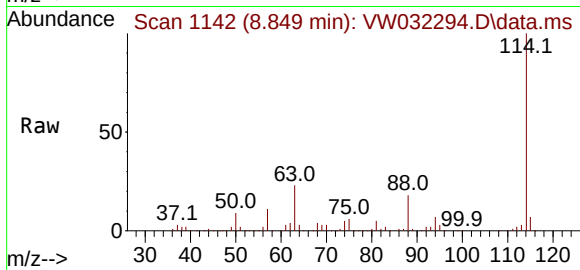
Tgt Ion:114 Resp: 358094

Ion Ratio Lower Upper

114 100

63 23.5 0.0 40.2

88 18.0 0.0 32.0



#35

Dibromofluoromethane

Concen: 26.825 ug/l

RT: 7.898 min Scan# 986

Delta R.T. -0.006 min

Lab File: VW032294.D

Acq: 29 Sep 2025 14:16

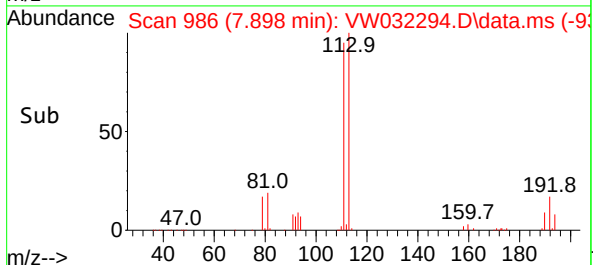
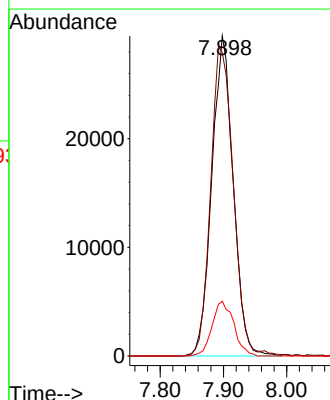
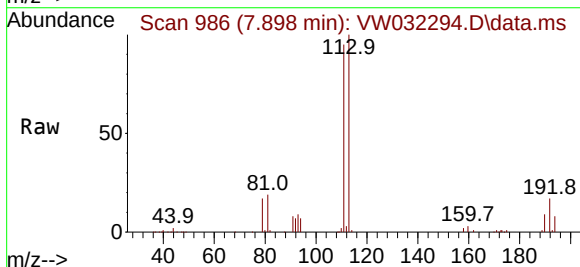
Tgt Ion:113 Resp: 69082

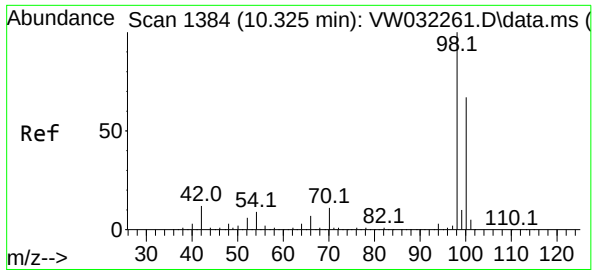
Ion Ratio Lower Upper

113 100

111 102.7 81.8 122.8

192 17.4 13.0 19.4

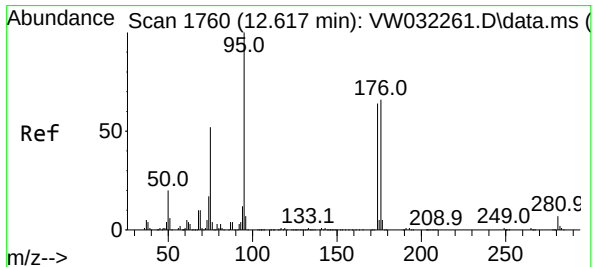
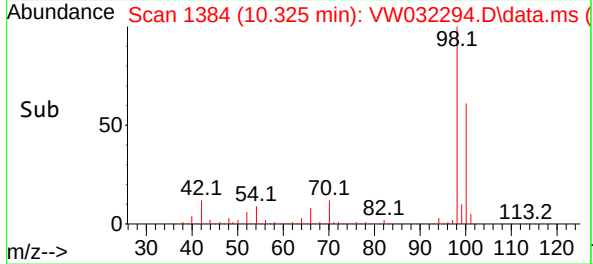
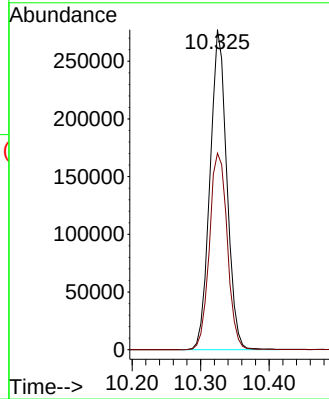
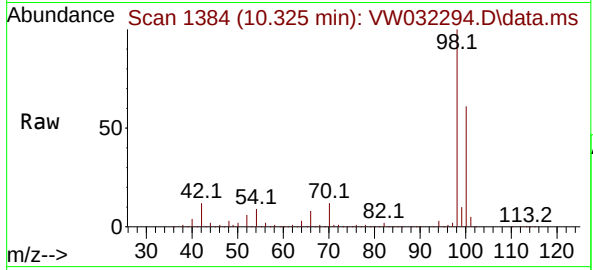




#50
Toluene-d8
Concen: 51.033 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032294.D
Acq: 29 Sep 2025 14:16

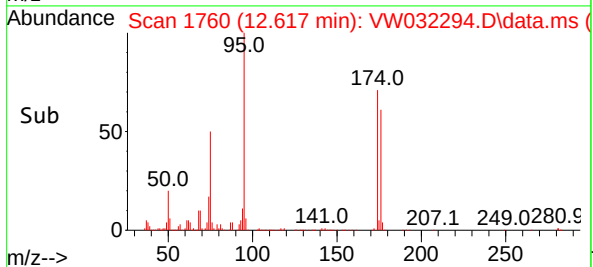
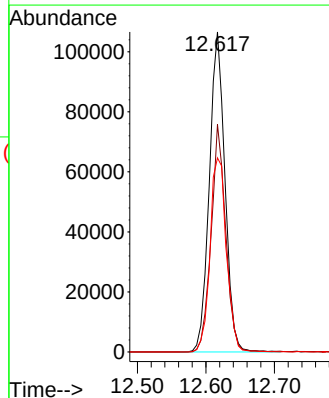
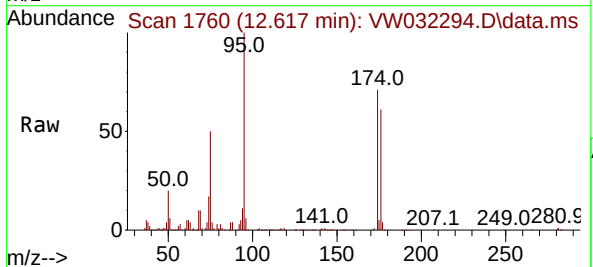
Instrument :
MSVOA_W
ClientSampleId :
RCA

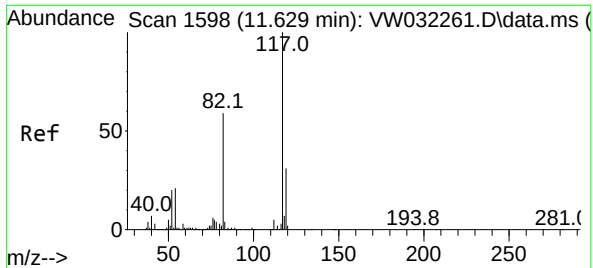
Tgt Ion: 98 Resp: 473655
Ion Ratio Lower Upper
98 100
100 65.1 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 48.189 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032294.D
Acq: 29 Sep 2025 14:16

Tgt Ion: 95 Resp: 168709
Ion Ratio Lower Upper
95 100
174 66.5 0.0 130.6
176 63.8 0.0 127.0

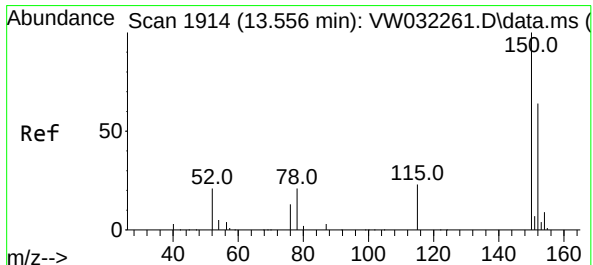
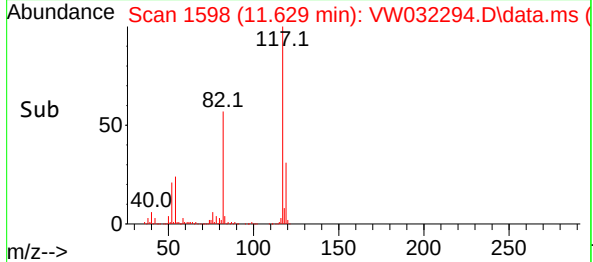
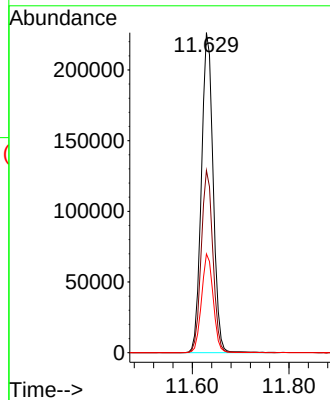
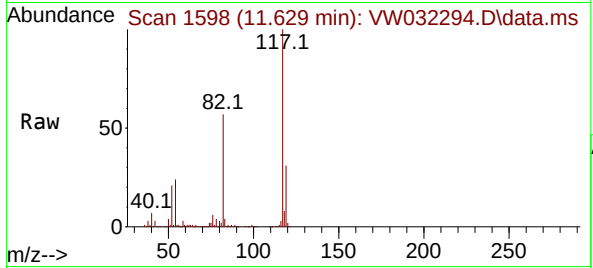




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1159
Delta R.T. 0.000 min
Lab File: VW032294.D
Acq: 29 Sep 2025 14:16

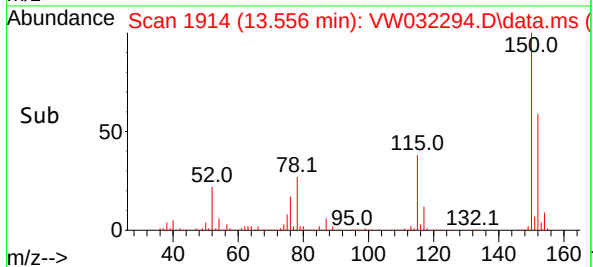
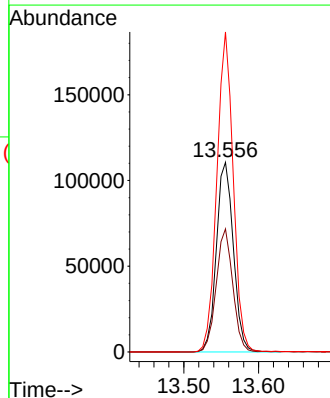
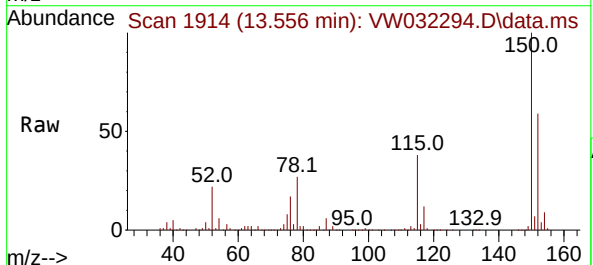
Instrument :
MSVOA_W
ClientSampleId :
RCA

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.0	46.9	70.3
119	30.9	24.9	37.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032294.D
Acq: 29 Sep 2025 14:16

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.5	32.5	97.5
150	163.2	0.0	370.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
 Data File : VW032294.D
 Acq On : 29 Sep 2025 14:16
 Operator : SY/MD
 Sample : Q3238-01
 Misc : 5.12g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RCA

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\82W092525S.M

Title : SW846 8260

Signal : TIC: VW032294.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.155	368	372	389	rVB3	8414	30914	2.39%	0.452%
2	4.947	490	502	519	rBV3	25339	99053	7.67%	1.447%
3	5.966	657	669	682	rBV4	17084	53075	4.11%	0.776%
4	7.167	854	866	879	rBV	24939	77510	6.00%	1.133%
5	7.898	976	986	990	rBV2	93201	221626	17.17%	3.239%
6	7.959	990	996	1006	rVB	243198	546338	42.32%	7.984%
7	8.264	1038	1046	1047	rBV2	9775	18582	1.44%	0.272%
8	8.319	1047	1055	1065	rVB	184333	428147	33.16%	6.256%
9	8.849	1133	1142	1161	rBV	437840	891813	69.07%	13.032%
10	10.325	1376	1384	1402	rBV	733995	1291100	100.00%	18.867%
11	11.068	1499	1506	1512	rBV6	6412	13489	1.04%	0.197%
12	11.629	1590	1598	1611	rBV	703456	1182043	91.55%	17.273%
13	12.617	1752	1760	1772	rBV	490927	792616	61.39%	11.582%
14	13.556	1907	1914	1924	rBV	710354	1124515	87.10%	16.432%
15	13.641	1924	1928	1939	rVB	32815	59069	4.58%	0.863%
16	14.324	2032	2040	2048	rBV9	5053	13419	1.04%	0.196%

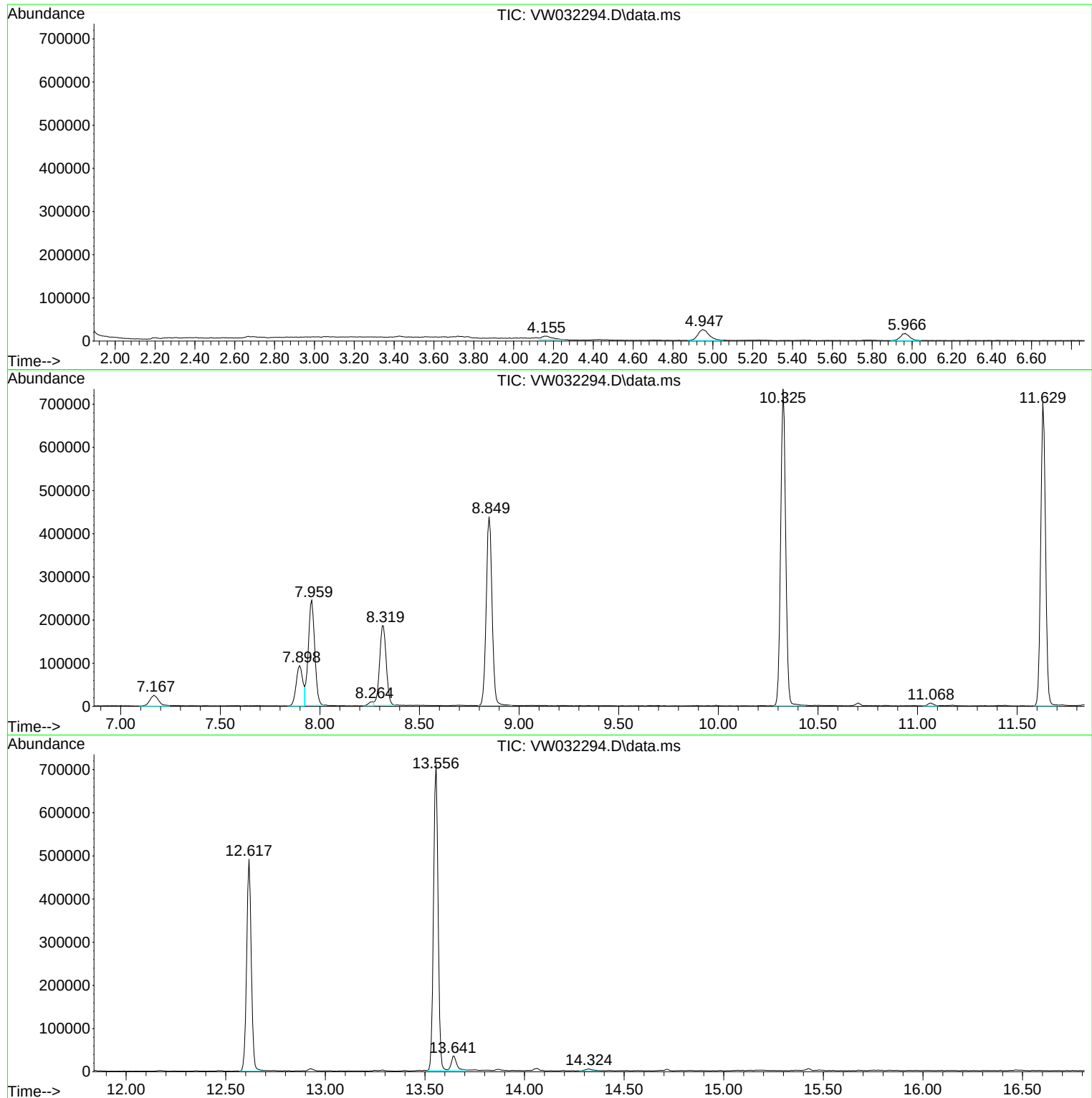
Sum of corrected areas: 6843309

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
Data File : VW032294.D
Acq On : 29 Sep 2025 14:16
Operator : SY/MD
Sample : Q3238-01
Misc : 5.12g/5mL/MSVOA_W/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
RCA

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
Data File : VW032294.D
Acq On : 29 Sep 2025 14:16
Operator : SY/MD
Sample : Q3238-01
Misc : 5.12g/5mL/MSVOA_W/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
RCA

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.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\VW092925\
Data File : VW032294.D
Acq On : 29 Sep 2025 14:16
Operator : SY/MD
Sample : Q3238-01
Misc : 5.12g/5mL/MSVOA_W/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
RCA

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260

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

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

Client:	Yannuzzi Group, Inc.	Date Collected:	09/18/25
Project:	Edison Yard	Date Received:	09/29/25
Client Sample ID:	RCARE	SDG No.:	Q3238
Lab Sample ID:	Q3238-01RE	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032302.D	1	09/30/25 14:52	VW093025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	13.5	J	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

Report of Analysis

Client:	Yannuzzi Group, Inc.		Date Collected:	09/18/25	
Project:	Edison Yard		Date Received:	09/29/25	
Client Sample ID:	RCARE		SDG No.:	Q3238	
Lab Sample ID:	Q3238-01RE		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	100	
Sample Wt/Vol:	5	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOC-TCLVOA-10	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032302.D	1	09/30/25 14:52	VW093025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.8		70 (63) - 130 (155)	122%	SPK: 50
1868-53-7	Dibromofluoromethane	23.5	*	70 (70) - 130 (134)	47%	SPK: 50
2037-26-5	Toluene-d8	48.9		70 (74) - 130 (123)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.7		70 (17) - 130 (146)	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	176000	7.959			
540-36-3	1,4-Difluorobenzene	403000	8.849			
3114-55-4	Chlorobenzene-d5	393000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	199000	13.556			

Report of Analysis

Client:	Yannuzzi Group, Inc.	Date Collected:	09/18/25
Project:	Edison Yard	Date Received:	09/29/25
Client Sample ID:	RCARE	SDG No.:	Q3238
Lab Sample ID:	Q3238-01RE	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032302.D	1	09/30/25 14:52	VW093025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
 Data File : VW032302.D
 Acq On : 30 Sep 2025 14:52
 Operator : SY/MD
 Sample : Q3238-01RE
 Misc : 5.00g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RCARE

Quant Time: Oct 01 00:54:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 2025
 Response via : Initial Calibration

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

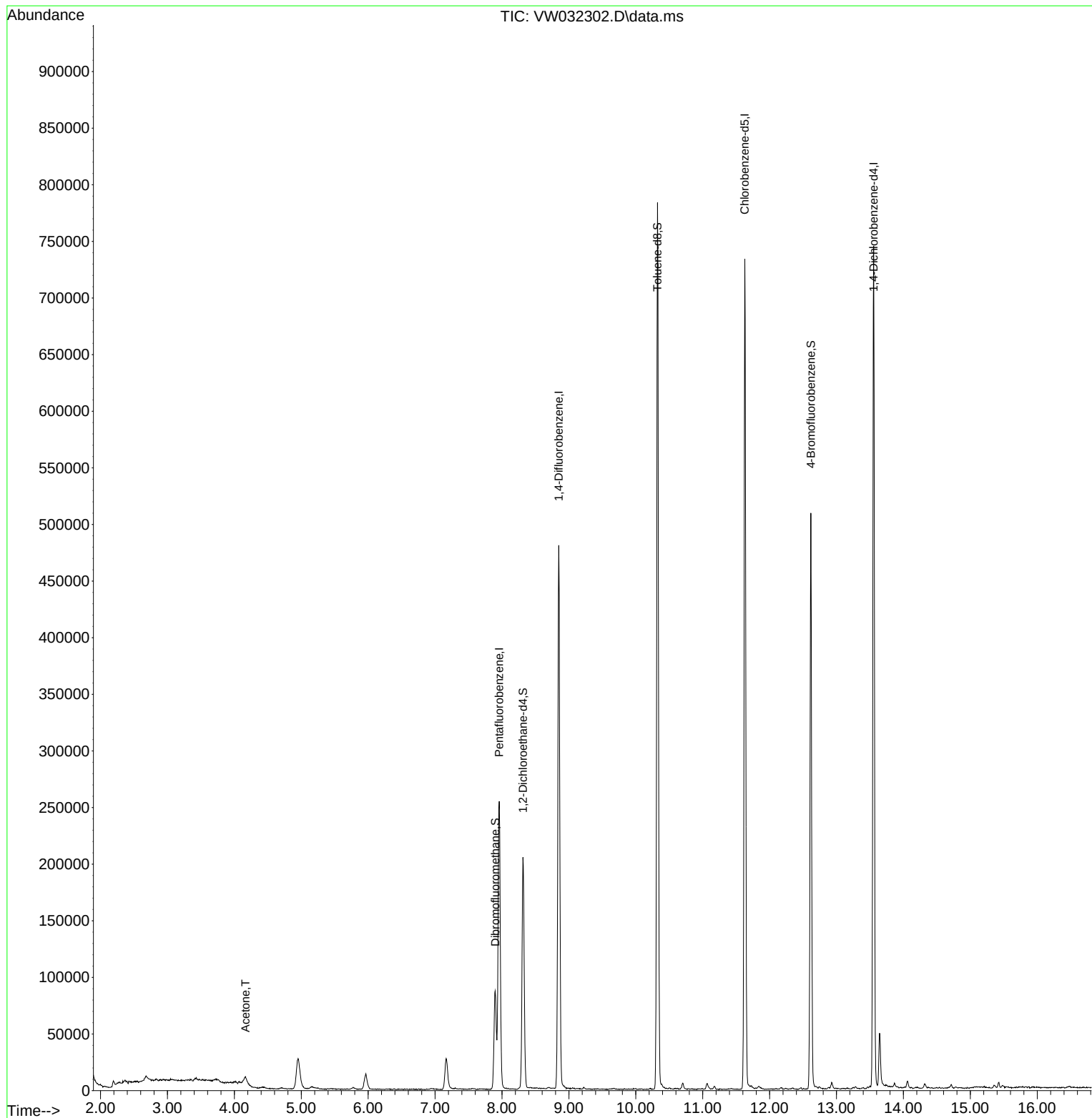
Internal Standards						
1) Pentafluorobenzene	7.959	168	175613	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	403251	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	393328	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	198744	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.313	65	168489	60.763	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	121.520%
35) Dibromofluoromethane	7.898	113	68258	23.537	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	47.080%#
50) Toluene-d8	10.325	98	510764	48.869	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	97.740%
62) 4-Bromofluorobenzene	12.617	95	180106	45.684	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	91.360%
Target Compounds						
16) Acetone	4.167	43	9595	13.474	ug/l	Qvalue 93

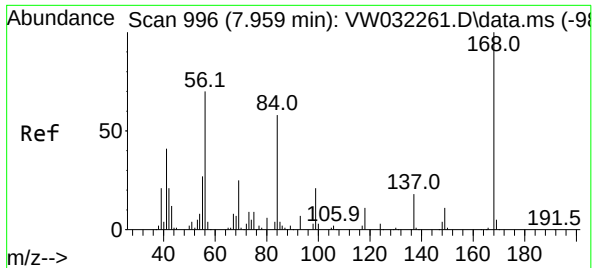
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
Data File : VW032302.D
Acq On : 30 Sep 2025 14:52
Operator : SY/MD
Sample : Q3238-01RE
Misc : 5.00g/5mL/MSVOA_W/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
RCARE

Quant Time: Oct 01 00:54:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 2025
Response via : Initial Calibration

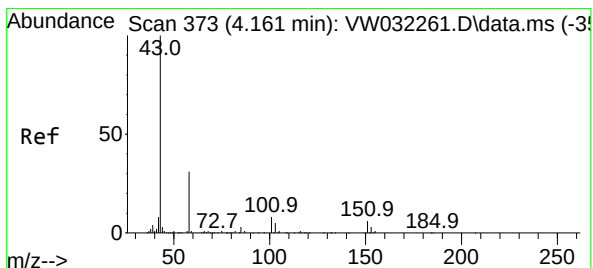
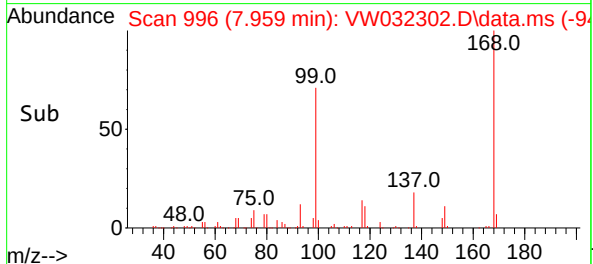
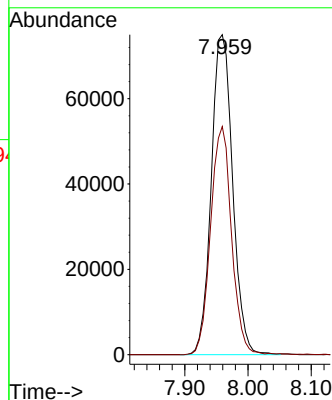
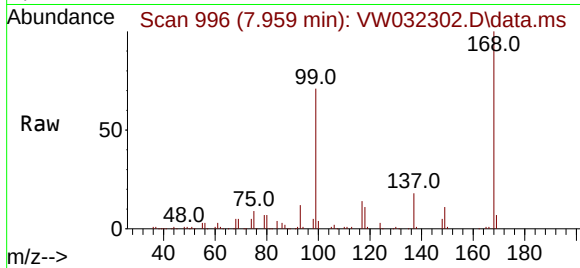




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. 0.000 min
Lab File: VW032302.D
Acq: 30 Sep 2025 14:52

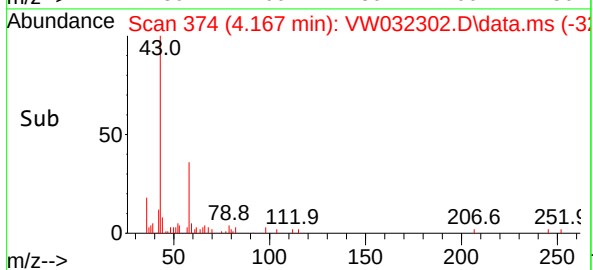
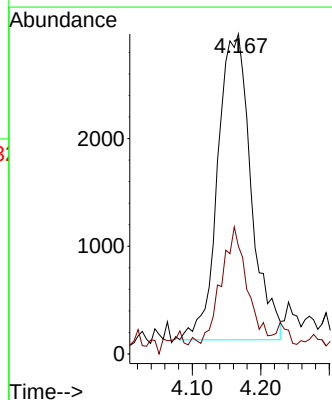
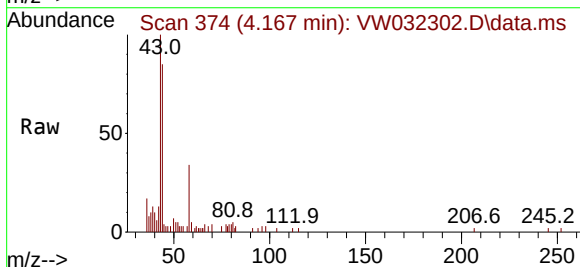
Instrument :
MSVOA_W
ClientSampleId :
RCARE

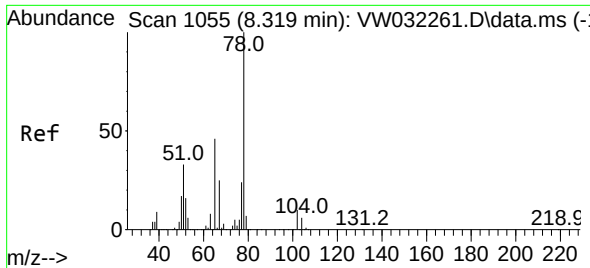
Tgt Ion:168 Resp: 175613
Ion Ratio Lower Upper
168 100
99 71.3 55.0 82.4



#16
Acetone
Concen: 13.474 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.006 min
Lab File: VW032302.D
Acq: 30 Sep 2025 14:52

Tgt Ion: 43 Resp: 9595
Ion Ratio Lower Upper
43 100
58 27.7 25.4 38.0

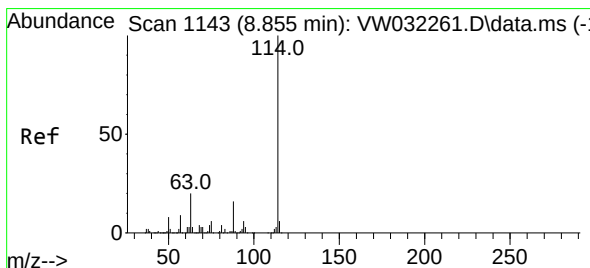
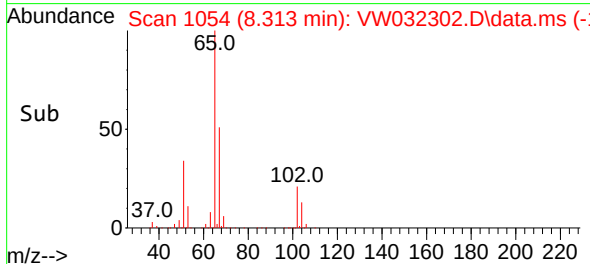
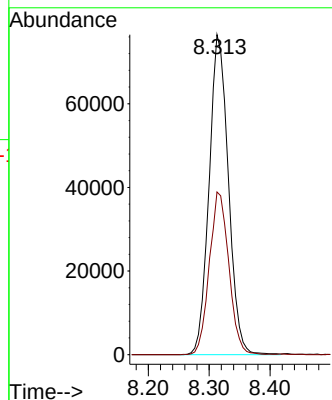
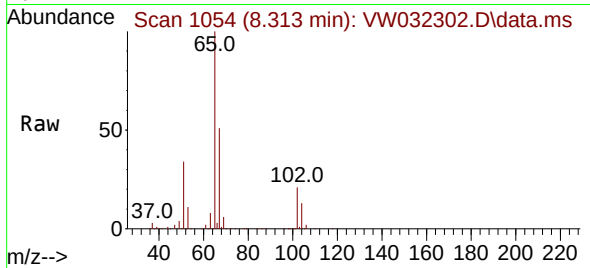




#33
1,2-Dichloroethane-d4
Concen: 60.763 ug/l
RT: 8.313 min Scan# 1054
Delta R.T. -0.006 min
Lab File: VW032302.D
Acq: 30 Sep 2025 14:52

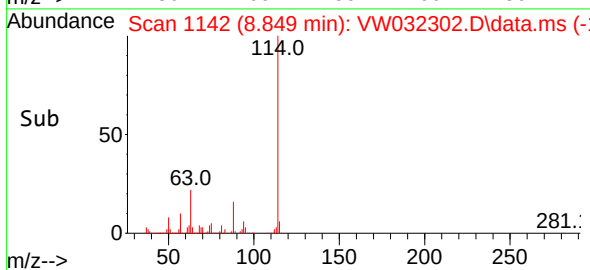
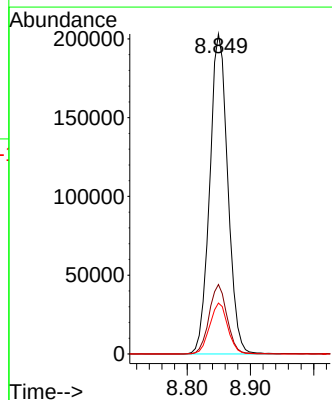
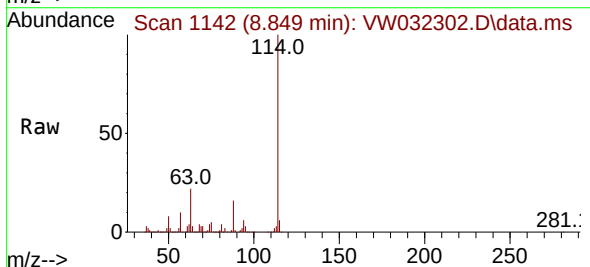
Instrument :
MSVOA_W
ClientSampleId :
RCARE

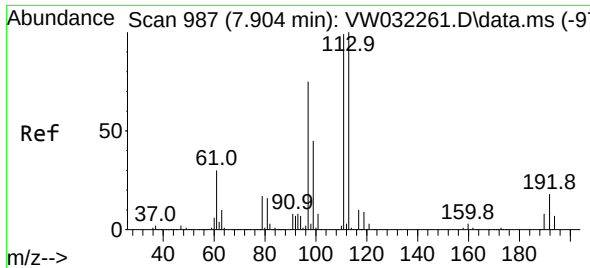
Tgt Ion: 65 Resp: 168489
Ion Ratio Lower Upper
65 100
67 51.3 0.0 105.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VW032302.D
Acq: 30 Sep 2025 14:52

Tgt Ion: 114 Resp: 403251
Ion Ratio Lower Upper
114 100
63 21.7 0.0 40.2
88 15.9 0.0 32.0

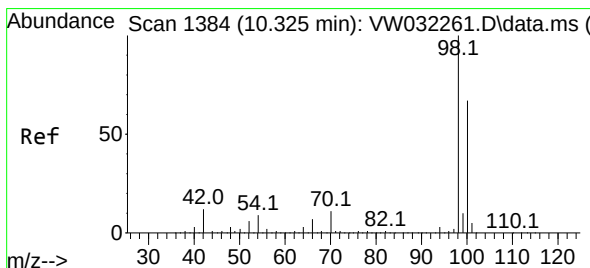
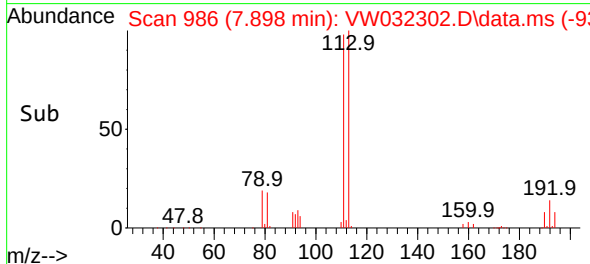
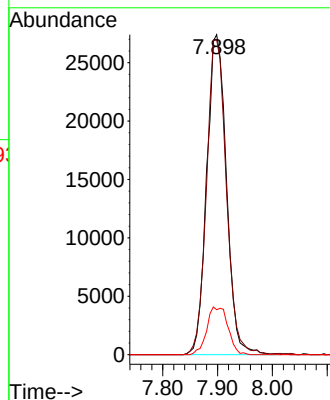
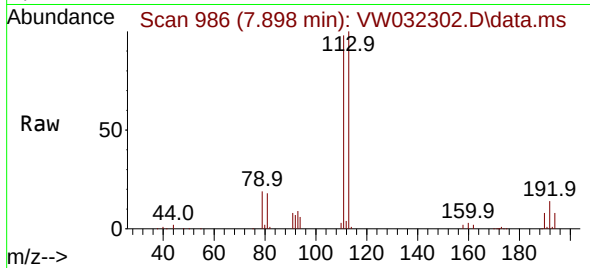




#35
Dibromofluoromethane
Concen: 23.537 ug/l
RT: 7.898 min Scan# 91
Delta R.T. -0.006 min
Lab File: VW032302.D
Acq: 30 Sep 2025 14:52

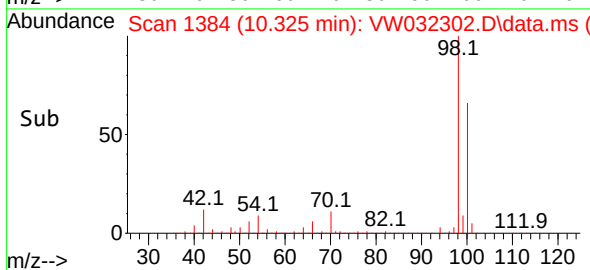
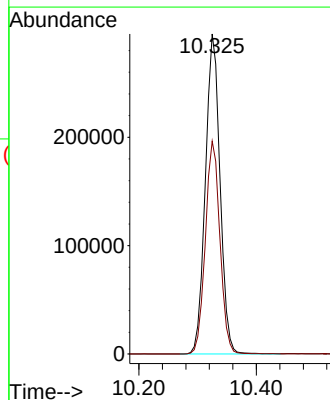
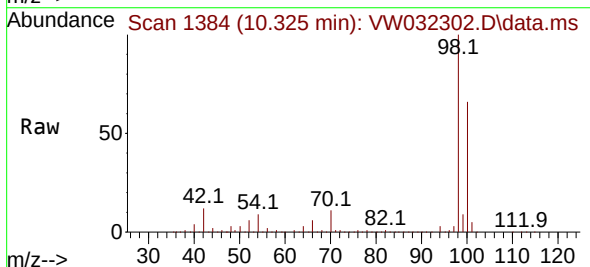
Instrument :
MSVOA_W
ClientSampleId :
RCARE

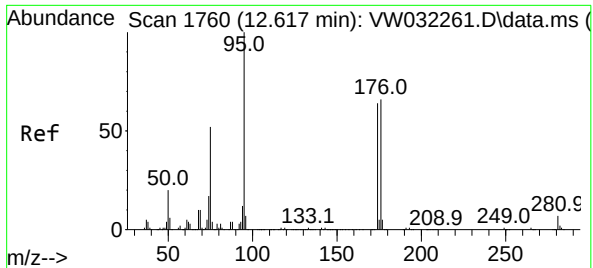
Tgt Ion:113 Resp: 68258
Ion Ratio Lower Upper
113 100
111 98.9 81.8 122.8
192 16.0 13.0 19.4



#50
Toluene-d8
Concen: 48.869 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032302.D
Acq: 30 Sep 2025 14:52

Tgt Ion: 98 Resp: 510764
Ion Ratio Lower Upper
98 100
100 66.2 53.0 79.4

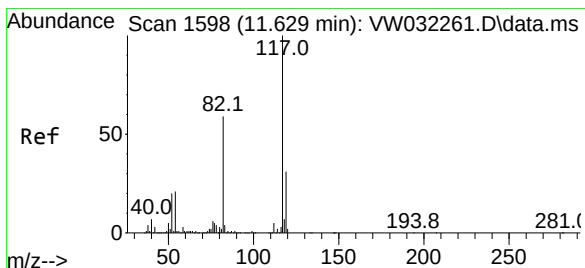
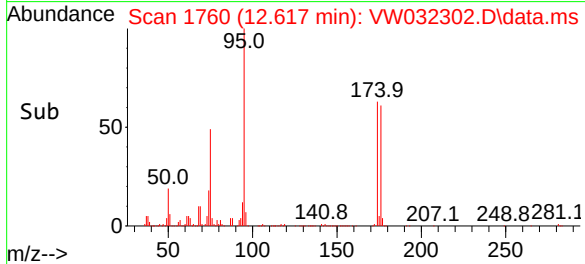
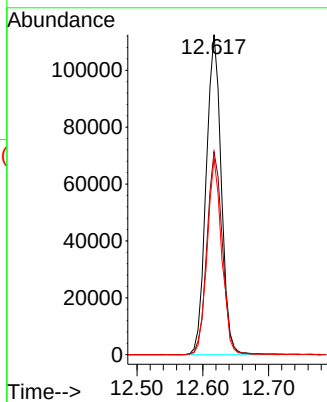
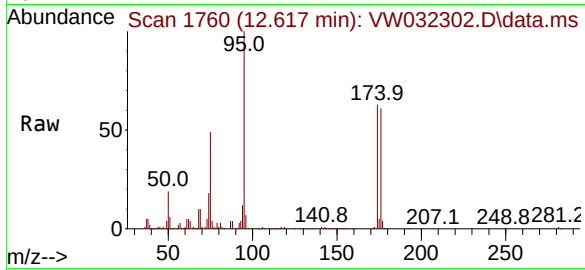




#62
4-Bromofluorobenzene
Concen: 45.684 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032302.D
Acq: 30 Sep 2025 14:52

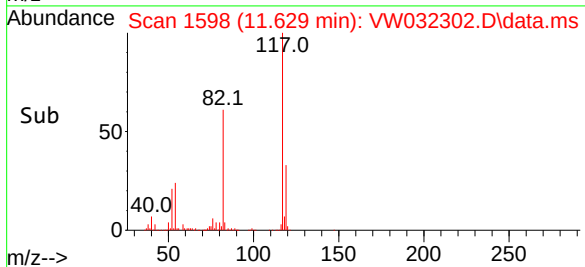
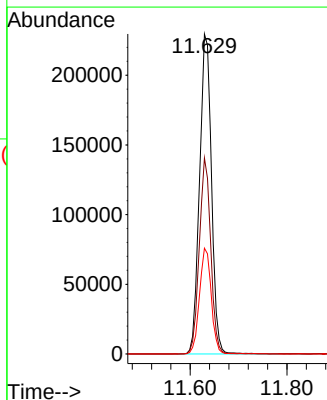
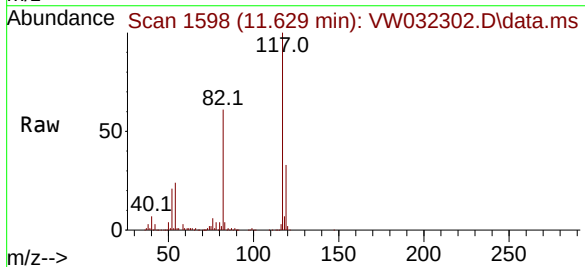
Instrument :
MSVOA_W
ClientSampleId :
RCARE

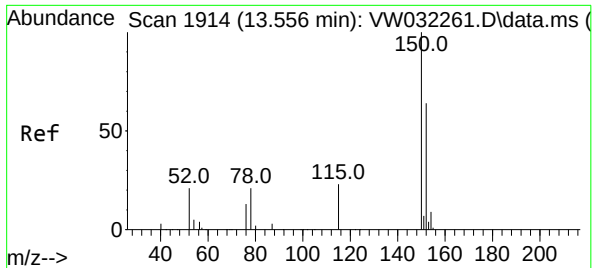
Tgt Ion: 95 Resp: 180106
Ion Ratio Lower Upper
95 100
174 64.4 0.0 130.6
176 59.3 0.0 127.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VW032302.D
Acq: 30 Sep 2025 14:52

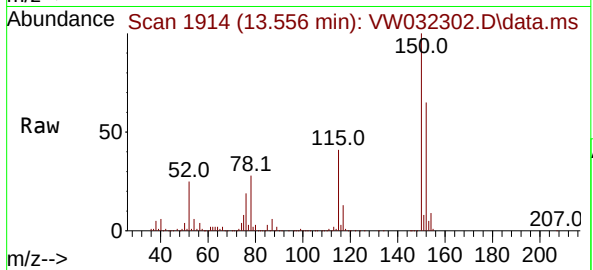
Tgt Ion: 117 Resp: 393328
Ion Ratio Lower Upper
117 100
82 61.2 46.9 70.3
119 33.0 24.9 37.3



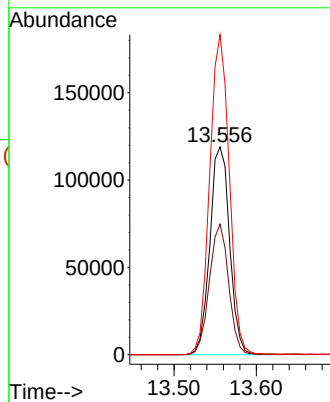
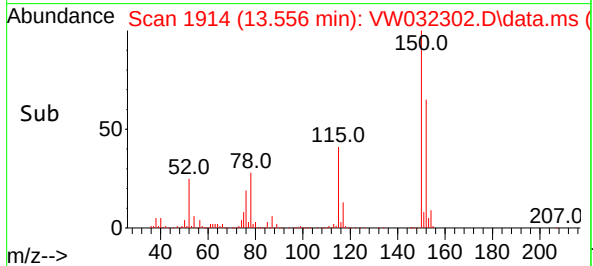


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032302.D
Acq: 30 Sep 2025 14:52

Instrument :
MSVOA_W
ClientSampleId :
RCARE



Tgt Ion:152 Resp: 198744
Ion Ratio Lower Upper
152 100
115 61.4 32.5 97.5
150 152.3 0.0 370.2





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: YANN01
 Lab Code: ACE SDG No.: Q3238
 Instrument ID: MSVOA_W Calibration Date(s): 09/25/2025 09/25/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 10:45 13:08
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VW032258.D		RRF010 = VW032259.D		RRF020 = VW032260.D			
		RRF050 = VW032261.D		RRF100 = VW032262.D		RRF150 = VW032263.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.388	0.399	0.397	0.295	0.295	0.299	0.345	15.6	
Chloromethane	0.540	0.557	0.548	0.423	0.439	0.459	0.494	12.3	
Vinyl Chloride	0.611	0.628	0.654	0.537	0.514	0.522	0.578	10.5	
Bromomethane	0.403	0.424	0.435	0.367	0.360	0.377	0.394	7.9	
Chloroethane	0.416	0.408	0.434	0.359	0.356	0.376	0.391	8.3	
Trichlorofluoromethane	0.399	0.417	0.519	0.383	0.438	0.455	0.435	11.2	
1,1,2-Trichlorotrifluoroethane	0.593	0.587	0.625	0.526	0.495	0.508	0.556	9.5	
1,1-Dichloroethene	0.595	0.633	0.670	0.551	0.550	0.565	0.594	8.2	
Acetone	0.216	0.252	0.242	0.164	0.162	0.180	0.203	19.6	
Carbon Disulfide	1.364	1.439	1.543	1.260	1.262	1.324	1.365	8.1	
Methyl tert-butyl Ether	1.055	1.094	1.201	1.071	1.060	1.123	1.101	5	
Methyl Acetate	0.637	0.602	0.639	0.738	0.749	0.818	0.697	12	
Methylene Chloride	1.758	1.269	0.843	0.747	0.661	0.666	0.991	44.3	
trans-1,2-Dichloroethene	0.633	0.668	0.703	0.605	0.602	0.630	0.640	6	
1,1-Dichloroethane	1.313	1.343	1.418	1.232	1.201	1.250	1.293	6.2	
Cyclohexane	1.132	1.088	1.139	0.912	0.912	0.933	1.019	10.9	
2-Butanone	0.282	0.300	0.307	0.252	0.260	0.296	0.283	7.9	
Carbon Tetrachloride	0.442	0.462	0.505	0.447	0.452	0.429	0.456	5.8	
cis-1,2-Dichloroethene	0.803	0.821	0.843	0.763	0.760	0.789	0.796	4.1	
Bromochloromethane	0.662	0.629	0.656	0.589	0.586	0.579	0.617	6	
Chloroform	1.400	1.413	1.489	1.286	1.227	1.278	1.349	7.4	
1,1,1-Trichloroethane	0.927	0.946	0.985	0.873	0.852	0.869	0.909	5.7	
Methylcyclohexane	0.507	0.545	0.596	0.569	0.584	0.564	0.561	5.7	
Benzene	1.503	1.545	1.639	1.516	1.515	1.438	1.526	4.3	
1,2-Dichloroethane	0.545	0.518	0.537	0.486	0.488	0.470	0.507	6	
Trichloroethene	0.343	0.371	0.382	0.346	0.359	0.339	0.357	4.7	
1,2-Dichloropropane	0.391	0.408	0.423	0.393	0.384	0.372	0.395	4.5	
Bromodichloromethane	0.549	0.544	0.577	0.558	0.557	0.541	0.554	2.4	
4-Methyl-2-Pentanone	0.327	0.346	0.370	0.324	0.338	0.342	0.341	4.8	
Toluene	0.894	0.955	1.010	0.937	0.963	0.916	0.946	4.3	

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



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: YANN01
 Lab Code: ACE SDG No.: Q3238
 Instrument ID: MSVOA_W Calibration Date(s): 09/25/2025 09/25/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 10:45 13:08
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VW032258.D		RRF010 = VW032259.D		RRF020 = VW032260.D			
		RRF050 = VW032261.D		RRF100 = VW032262.D		RRF150 = VW032263.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.440	0.478	0.521	0.507	0.554	0.547	0.508	8.5	
cis-1,3-Dichloropropene	0.525	0.558	0.618	0.590	0.614	0.611	0.586	6.4	
1,1,2-Trichloroethane	0.343	0.339	0.359	0.316	0.316	0.318	0.332	5.4	
2-Hexanone	0.215	0.224	0.255	0.225	0.236	0.243	0.233	6.1	
Dibromochloromethane	0.354	0.352	0.371	0.369	0.377	0.364	0.364	2.7	
1,2-Dibromoethane	0.310	0.313	0.337	0.308	0.308	0.309	0.314	3.6	
Tetrachloroethene	0.297	0.331	0.323	0.301	0.288	0.288	0.305	6	
Chlorobenzene	1.146	1.205	1.234	1.126	1.109	1.091	1.152	4.9	
Ethyl Benzene	1.710	1.890	1.993	1.882	1.927	1.908	1.885	5	
m/p-Xylenes	0.647	0.728	0.793	0.721	0.729	0.717	0.723	6.4	
o-Xylene	0.590	0.670	0.711	0.704	0.707	0.694	0.679	6.8	
Styrene	0.977	1.180	1.315	1.247	1.223	1.204	1.191	9.6	
Bromoform	0.186	0.222	0.219	0.210	0.214	0.223	0.212	6.5	
Isopropylbenzene	3.005	3.296	3.600	3.704	3.535	3.740	3.480	8.1	
1,1,2,2-Tetrachloroethane	0.955	0.945	0.943	0.886	0.843	0.902	0.912	4.7	
1,3-Dichlorobenzene	1.700	1.684	1.659	1.737	1.656	1.722	1.693	1.9	
1,4-Dichlorobenzene	1.811	1.770	1.807	1.674	1.631	1.685	1.730	4.4	
1,2-Dichlorobenzene	1.587	1.636	1.663	1.630	1.465	1.524	1.584	4.8	
1,2-Dibromo-3-Chloropropane	0.167	0.156	0.156	0.144	0.148	0.166	0.156	5.8	
1,2,4-Trichlorobenzene	0.850	0.888	0.943	0.960	0.961	1.035	0.940	6.8	
1,2,3-Trichlorobenzene	0.807	0.849	0.861	0.892	0.881	0.953	0.874	5.6	
1,2-Dichloroethane-d4	0.886	0.863	0.864	0.708	0.703	0.714	0.789	11.3	
Dibromofluoromethane	0.393	0.364	0.379	0.347	0.342	0.332	0.360	6.5	
Toluene-d8	1.334	1.339	1.372	1.252	1.274	1.205	1.296	4.9	
4-Bromofluorobenzene	0.505	0.491	0.511	0.482	0.486	0.458	0.489	3.8	

* 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 : 82W092525S.M
 Title : SW846 8260
 Last Update : Fri Sep 26 07:11:42 2025
 Response Via : Initial Calibration

Calibration Files

5 =VW032258.D 10 =VW032259.D 20 =VW032260.D 50 =VW032261.D 100 =VW032262.D 150 =VW032263.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.388	0.399	0.397	0.295	0.295	0.299	0.345	15.60
3) P	Chloromethane	0.540	0.557	0.548	0.423	0.439	0.459	0.494	12.26
4) C	Vinyl Chloride	0.611	0.628	0.654	0.537	0.514	0.522	0.578	10.47#
5) T	Bromomethane	0.403	0.424	0.435	0.367	0.360	0.377	0.394	7.91
6) T	Chloroethane	0.416	0.408	0.434	0.359	0.356	0.376	0.391	8.26
7) T	Trichlorofluor...	0.399	0.417	0.519	0.383	0.438	0.455	0.435	11.18
8) T	Diethyl Ether	0.475	0.440	0.436	0.368	0.366	0.384	0.412	10.97
9) T	1,1,2-Trichlor...	0.593	0.587	0.625	0.526	0.495	0.508	0.556	9.48
10) T	Methyl Iodide	0.748	0.763	0.840	0.712	0.721	0.725	0.751	6.30
11) T	Tert butyl alc...	0.061	0.060	0.057	0.046	0.049	0.057	0.055	11.16
12) CM	1,1-Dichloroet...	0.595	0.633	0.670	0.551	0.550	0.565	0.594	8.20#
13) T	Acrolein	0.108	0.106	0.106	0.090	0.085	0.089	0.098	10.90
14) T	Allyl chloride	0.911	0.933	1.006	0.879	0.880	0.921	0.922	5.06
15) T	Acrylonitrile	0.216	0.220	0.232	0.189	0.197	0.218	0.212	7.60
16) T	Acetone	0.216	0.252	0.242	0.164	0.162	0.180	0.203	19.64
17) T	Carbon Disulfide	1.364	1.439	1.543	1.260	1.262	1.324	1.365	8.07
18) T	Methyl Acetate	0.637	0.602	0.639	0.738	0.749	0.818	0.697	11.98
19) T	Methyl tert-bu...	1.055	1.094	1.201	1.071	1.060	1.123	1.101	5.01
20) T	Methylene Chlo...	1.758	1.269	0.843	0.747	0.661	0.666	0.991	44.29
21) T	trans-1,2-Dich...	0.633	0.668	0.703	0.605	0.602	0.630	0.640	6.01
22) T	Diisopropyl ether	1.893	2.067	2.306	2.003	1.989	2.030	2.048	6.79
23) T	Vinyl Acetate	1.220	1.347	1.501	1.216	1.263	1.358	1.317	8.26
24) P	1,1-Dichloroet...	1.313	1.343	1.418	1.232	1.201	1.250	1.293	6.25
25) T	2-Butanone	0.282	0.300	0.307	0.252	0.260	0.296	0.283	7.92
26) T	2,2-Dichloropr...	0.660	0.686	0.672	0.598	0.596	0.610	0.637	6.27
27) T	cis-1,2-Dichlo...	0.803	0.821	0.843	0.763	0.760	0.789	0.796	4.10
28) T	Bromochloromet...	0.662	0.629	0.656	0.589	0.586	0.579	0.617	6.03
29) T	Tetrahydrofuran	0.179	0.189	0.200	0.166	0.173	0.194	0.183	7.14
30) C	Chloroform	1.400	1.413	1.489	1.286	1.227	1.278	1.349	7.41#
31) T	Cyclohexane	1.132	1.088	1.139	0.912	0.912	0.933	1.019	10.93
32) T	1,1,1-Trichlor...	0.927	0.946	0.985	0.873	0.852	0.869	0.909	5.74
33) S	1,2-Dichloroet...	0.886	0.863	0.864	0.708	0.703	0.714	0.789	11.32
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.393	0.364	0.379	0.347	0.342	0.332	0.360	6.54
36) T	1,1-Dichloropr...	0.481	0.486	0.524	0.483	0.479	0.456	0.485	4.50
37) T	Ethyl Acetate	0.313	0.326	0.356	0.300	0.314	0.321	0.322	5.90
38) T	Carbon Tetrach...	0.442	0.462	0.505	0.447	0.452	0.429	0.456	5.77
39) T	Methylcyclohexane	0.507	0.545	0.596	0.569	0.584	0.564	0.561	5.68
40) TM	Benzene	1.503	1.545	1.639	1.516	1.515	1.438	1.526	4.31
41) T	Methacrylonitrile	0.168	0.182	0.200	0.177	0.177	0.203	0.184	7.56
42) TM	1,2-Dichloroet...	0.545	0.518	0.537	0.486	0.488	0.470	0.507	5.99
43) T	Isopropyl Acetate	0.553	0.575	0.604	0.548	0.578	0.596	0.576	3.89
44) TM	Trichloroethene	0.343	0.371	0.382	0.346	0.359	0.339	0.357	4.73
45) C	1,2-Dichloropr...	0.391	0.408	0.423	0.393	0.384	0.372	0.395	4.53#
46) T	Dibromomethane	0.257	0.250	0.255	0.235	0.235	0.227	0.243	5.10
47) T	Bromodichlorom...	0.549	0.544	0.577	0.558	0.557	0.541	0.554	2.37
48) T	Methyl methacr...	0.236	0.257	0.279	0.269	0.288	0.296	0.271	8.11
49) T	1,4-Dioxane	0.003	0.003	0.004	0.003	0.003	0.004	0.003	10.32
50) S	Toluene-d8	1.334	1.339	1.372	1.252	1.274	1.205	1.296	4.86
51) T	4-Methyl-2-Pen...	0.327	0.346	0.370	0.324	0.338	0.342	0.341	4.79
52) CM	Toluene	0.894	0.955	1.010	0.937	0.963	0.916	0.946	4.26#
53) T	t-1,3-Dichloro...	0.440	0.478	0.521	0.507	0.554	0.547	0.508	8.51
54) T	cis-1,3-Dichlo...	0.525	0.558	0.618	0.590	0.614	0.611	0.586	6.36
55) T	1,1,2-Trichlor...	0.343	0.339	0.359	0.316	0.316	0.318	0.332	5.41
56) T	Ethyl methacry...	0.362	0.405	0.462	0.438	0.475	0.480	0.437	10.51

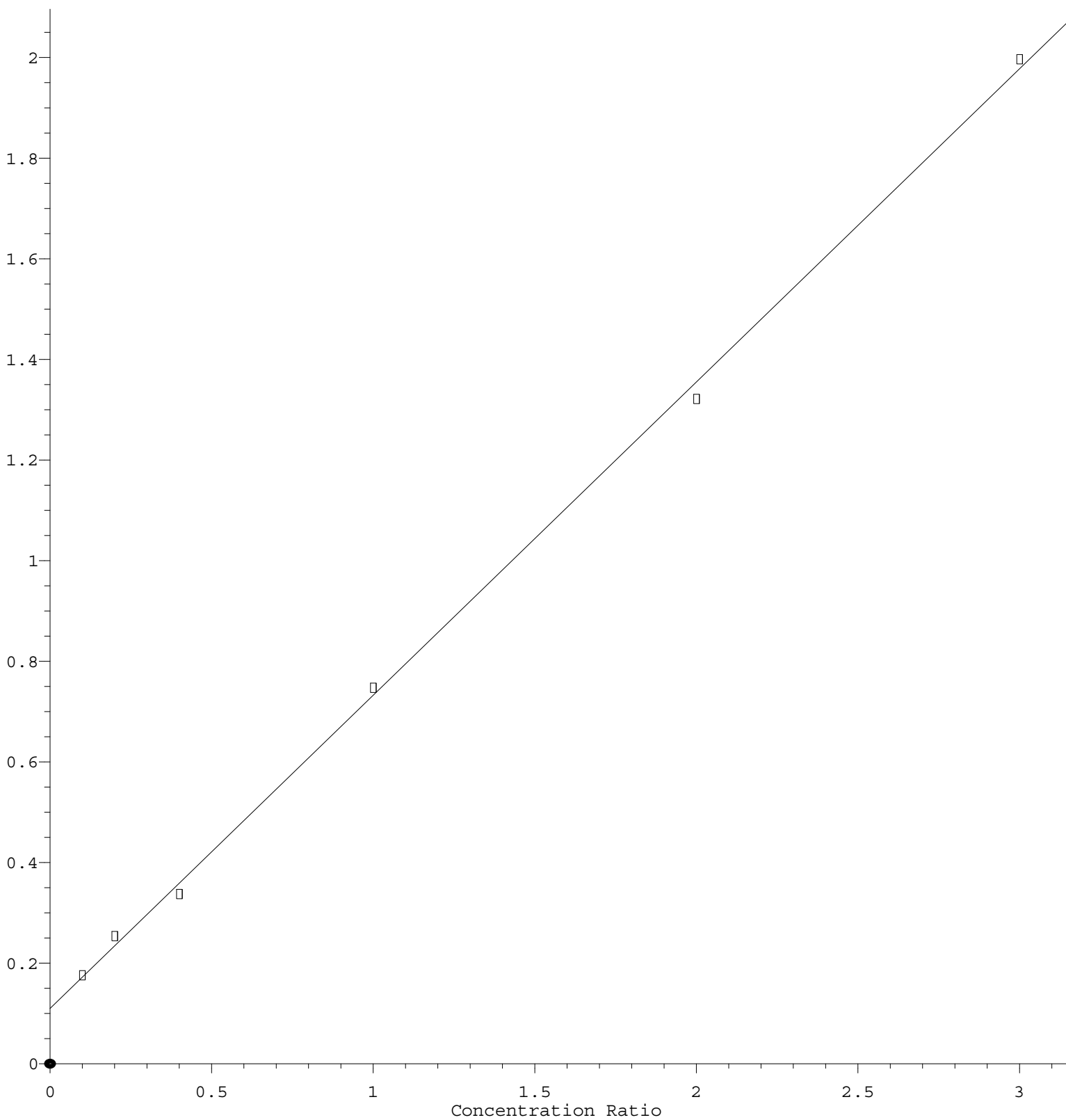
Method Path : Z:\voasrv\HPCHEM1\MSVOA_W\Method\
 Method File : 82W092525S.M

57)	T	1,3-Dichloropr...	0.562	0.580	0.617	0.568	0.562	0.548	0.573	4.22
58)	T	2-Chloroethyl ...	0.206	0.220	0.236	0.252	0.264	0.261	0.240	9.74
59)	T	2-Hexanone	0.215	0.224	0.255	0.225	0.236	0.243	0.233	6.15
60)	T	Dibromochlorom...	0.354	0.352	0.371	0.369	0.377	0.364	0.364	2.66
61)	T	1,2-Dibromoethane	0.310	0.313	0.337	0.308	0.308	0.309	0.314	3.64
62)	S	4-Bromofluorob...	0.505	0.491	0.511	0.482	0.486	0.458	0.489	3.83
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.297	0.331	0.323	0.301	0.288	0.288	0.305	5.98
65)	PM	Chlorobenzene	1.146	1.205	1.234	1.126	1.109	1.091	1.152	4.89
66)	T	1,1,1,2-Tetrac...	0.354	0.367	0.377	0.360	0.366	0.361	0.364	2.20
67)	C	Ethyl Benzene	1.710	1.890	1.993	1.882	1.927	1.908	1.885	5.02#
68)	T	m/p-Xylenes	0.647	0.728	0.793	0.721	0.729	0.717	0.723	6.44
69)	T	o-Xylene	0.590	0.670	0.711	0.704	0.707	0.694	0.679	6.79
70)	T	Styrene	0.977	1.180	1.315	1.247	1.223	1.204	1.191	9.61
71)	P	Bromoform	0.186	0.222	0.219	0.210	0.214	0.223	0.212	6.52
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.005	3.296	3.600	3.704	3.535	3.740	3.480	8.07
74)	T	N-amyl acetate	0.995	1.051	1.158	1.082	1.086	1.203	1.096	6.80
75)	P	1,1,2,2-Tetrac...	0.955	0.945	0.943	0.886	0.843	0.902	0.912	4.75
76)	T	1,2,3-Trichlor...	0.752	0.709	0.701	0.665	0.631	0.670	0.688	6.09
77)	T	Bromobenzene	0.832	0.813	0.868	0.917	0.837	0.869	0.856	4.31
78)	T	n-propylbenzene	3.941	4.225	4.466	4.685	4.428	4.483	4.371	5.88
79)	T	2-Chlorotoluene	2.428	2.616	2.716	2.777	2.628	2.724	2.648	4.68
80)	T	1,3,5-Trimethy...	2.544	2.923	3.068	3.175	3.026	3.117	2.975	7.66
81)	T	trans-1,4-Dich...	0.229	0.241	0.256	0.270	0.278	0.315	0.265	11.53
82)	T	4-Chlorotoluene	2.530	2.844	2.867	2.928	2.752	2.870	2.799	5.12
83)	T	tert-Butylbenzene	2.196	2.346	2.559	2.617	2.538	2.674	2.488	7.28
84)	T	1,2,4-Trimethy...	2.557	2.971	3.151	3.202	3.108	3.136	3.021	7.94
85)	T	sec-Butylbenzene	3.324	3.569	3.851	3.989	3.738	3.949	3.737	6.77
86)	T	p-Isopropyltol...	2.720	3.012	3.145	3.380	3.116	3.193	3.095	7.10
87)	T	1,3-Dichlorobe...	1.700	1.684	1.659	1.737	1.656	1.722	1.693	1.94
88)	T	1,4-Dichlorobe...	1.811	1.770	1.807	1.674	1.631	1.685	1.730	4.42
89)	T	n-Butylbenzene	2.754	3.054	3.129	3.307	3.112	3.277	3.106	6.38
90)	T	Hexachloroethane	0.564	0.548	0.586	0.575	0.579	0.608	0.577	3.49
91)	T	1,2-Dichlorobe...	1.587	1.636	1.663	1.630	1.465	1.524	1.584	4.79
92)	T	1,2-Dibromo-3-...	0.167	0.156	0.156	0.144	0.148	0.166	0.156	5.78
93)	T	1,2,4-Trichlor...	0.850	0.888	0.943	0.960	0.961	1.035	0.940	6.83
94)	T	Hexachlorobuta...	0.461	0.436	0.474	0.391	0.405	0.422	0.432	7.41
95)	T	Naphthalene	1.847	2.080	2.252	2.318	2.369	2.665	2.255	12.25
96)	T	1,2,3-Trichlor...	0.807	0.849	0.861	0.892	0.881	0.953	0.874	5.57

(#) = Out of Range

Methylene Chloride

Response Ratio



$$\text{Response} = 6.223\text{e-}001 * \text{Amt} + 1.105\text{e-}001$$

Coef of Det (r^2) = 0.999012 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA W\Method\82W092525S.M

Calibration Table Last Updated: Fri Sep 26 07:11:42 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032258.D
 Acq On : 25 Sep 2025 10:45
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 09/29/2025
 Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:46:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 06:41:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	238142	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	445366	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	431495	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.555	152	209227	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.319	65	21096	5.610	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	11.220%#
35) Dibromofluoromethane	7.904	113	17518	5.469	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	10.940%#
50) Toluene-d8	10.330	98	59424	5.148	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	10.300%#
62) 4-Bromofluorobenzene	12.617	95	22506	5.169	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	10.340%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.045	85	9243	5.618	ug/l	93
3) Chloromethane	2.259	50	12861	5.462	ug/l	92
4) Vinyl Chloride	2.411	62	14540	5.285	ug/l #	88
5) Bromomethane	2.826	94	9604	5.112	ug/l	99
6) Chloroethane	2.972	64	9905	5.313	ug/l	98
7) Trichlorofluoromethane	3.307	101	9495	4.581	ug/l #	82
8) Diethyl Ether	3.722	74	11315	5.773	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.106	101	14114	5.334	ug/l	96
10) Methyl Iodide	4.319	142	17823	4.980	ug/l	98
11) Tert butyl alcohol	5.228	59	7211	27.627	ug/l	95
12) 1,1-Dichloroethene	4.082	96	14162	5.007	ug/l	93
13) Acrolein	3.935	56	12892	27.751	ug/l	94
14) Allyl chloride	4.703	41	21706	4.945	ug/l	98
15) Acrylonitrile	5.417	53	25755	25.513	ug/l	96
16) Acetone	4.167	43	25773	26.689	ug/l	97
17) Carbon Disulfide	4.423	76	32473	4.994	ug/l	98
18) Methyl Acetate	4.716	43	15180	4.571	ug/l	97
19) Methyl tert-butyl Ether	5.465	73	25133	4.794	ug/l	98
20) Methylene Chloride	4.966	84	41876	5.253	ug/l	96
21) trans-1,2-Dichloroethene	5.465	96	15086	4.946	ug/l	89
22) Diisopropyl ether	6.343	45	45086	4.622	ug/l #	86
23) Vinyl Acetate	6.289	43	145249	23.148	ug/l	96
24) 1,1-Dichloroethane	6.246	63	31274	5.079	ug/l	99
25) 2-Butanone	7.197	43	33552	24.927	ug/l	91
26) 2,2-Dichloropropane	7.185	77	15711	5.178	ug/l	97
27) cis-1,2-Dichloroethene	7.191	96	19129	5.043	ug/l	99
28) Bromochloromethane	7.532	49	15762	5.365	ug/l #	100
29) Tetrahydrofuran	7.563	42	21353	24.436	ug/l	95
30) Chloroform	7.691	83	33349	5.191	ug/l	91
31) Cyclohexane	7.965	56	26952	5.551	ug/l #	82
32) 1,1,1-Trichloroethane	7.886	97	22073	5.100	ug/l #	75
36) 1,1-Dichloropropene	8.093	75	21420	4.960	ug/l	96
37) Ethyl Acetate	7.288	43	13922	4.861	ug/l #	80
38) Carbon Tetrachloride	8.087	117	19674	4.843	ug/l #	87
39) Methylcyclohexane	9.343	83	22561	4.515	ug/l	97
40) Benzene	8.337	78	66943	4.925	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032258.D
 Acq On : 25 Sep 2025 10:45
 Operator : SY/MD
 Sample : VSTDICC005
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 09/29/2025
 Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:46:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 06:41:54 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	7461	4.549	ug/l	93
42) 1,2-Dichloroethane	8.416	62	24254	5.368	ug/l	100
43) Isopropyl Acetate	8.441	43	24619	4.802	ug/l	99
44) Trichloroethene	9.099	130	15290	4.813	ug/l	98
45) 1,2-Dichloropropane	9.373	63	17431	4.951	ug/l	95
46) Dibromomethane	9.471	93	11428	5.280	ug/l	96
47) Bromodichloromethane	9.654	83	24435	4.950	ug/l	96
48) Methyl methacrylate	9.446	41	10520	4.362	ug/l	92
49) 1,4-Dioxane	9.471	88	2525	87.105	ug/l #	99
51) 4-Methyl-2-Pentanone	10.215	43	72902	23.984	ug/l	96
52) Toluene	10.391	92	39810	4.725	ug/l	97
53) t-1,3-Dichloropropene	10.611	75	19584	4.330	ug/l	94
54) cis-1,3-Dichloropropene	10.081	75	23388	4.479	ug/l	97
55) 1,1,2-Trichloroethane	10.788	97	15277	5.171	ug/l	98
56) Ethyl methacrylate	10.647	69	16129	4.145	ug/l	97
57) 1,3-Dichloropropane	10.934	76	25050	4.908	ug/l	94
58) 2-Chloroethyl Vinyl ether	9.928	63	45909	21.490	ug/l	99
59) 2-Hexanone	10.971	43	47919	23.086	ug/l	93
60) Dibromochloromethane	11.129	129	15750	4.854	ug/l	99
61) 1,2-Dibromoethane	11.239	107	13807	4.933	ug/l	97
64) Tetrachloroethene	10.861	164	12819	4.875	ug/l #	89
65) Chlorobenzene	11.659	112	49447	4.975	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.733	131	15257	4.854	ug/l	99
67) Ethyl Benzene	11.733	91	73779	4.535	ug/l	98
68) m/p-Xylenes	11.842	106	55830	8.952	ug/l	93
69) o-Xylene	12.166	106	25456	4.343	ug/l	98
70) Styrene	12.178	104	42166	4.102	ug/l	97
71) Bromoform	12.348	173	8018	4.377	ug/l #	86
73) Isopropylbenzene	12.464	105	62880	4.318	ug/l	98
74) N-amyl acetate	12.269	43	20827	4.541	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.714	83	19979	5.233	ug/l	100
76) 1,2,3-Trichloropropane	12.763	75	15732m	4.781	ug/l	
77) Bromobenzene	12.745	156	17400	4.858	ug/l	93
78) n-propylbenzene	12.800	91	82458	4.508	ug/l	99
79) 2-Chlorotoluene	12.891	91	50795	4.584	ug/l	96
80) 1,3,5-Trimethylbenzene	12.940	105	53227	4.275	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.507	75	4797	4.329	ug/l	87
82) 4-Chlorotoluene	12.989	91	52940	4.521	ug/l	98
83) tert-Butylbenzene	13.202	119	45943	4.412	ug/l	98
84) 1,2,4-Trimethylbenzene	13.251	105	53509	4.233	ug/l	96
85) sec-Butylbenzene	13.379	105	69549	4.448	ug/l	99
86) p-Isopropyltoluene	13.495	119	56914	4.395	ug/l	97
87) 1,3-Dichlorobenzene	13.495	146	35563	5.020	ug/l	98
88) 1,4-Dichlorobenzene	13.574	146	37891	5.235	ug/l	96
89) n-Butylbenzene	13.818	91	57629	4.434	ug/l	97
90) Hexachloroethane	14.086	117	11800	4.889	ug/l	96
91) 1,2-Dichlorobenzene	13.866	146	33197	5.009	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.476	75	3485	5.336	ug/l	82
93) 1,2,4-Trichlorobenzene	15.122	180	17792	4.525	ug/l	98
94) Hexachlorobutadiene	15.232	225	9652	5.345	ug/l	89
95) Naphthalene	15.360	128	38646	4.095	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	16886	4.619	ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
Data File : VW032258.D
Acq On : 25 Sep 2025 10:45
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:46:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 06:41:54 2025
Response via : Initial Calibration

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

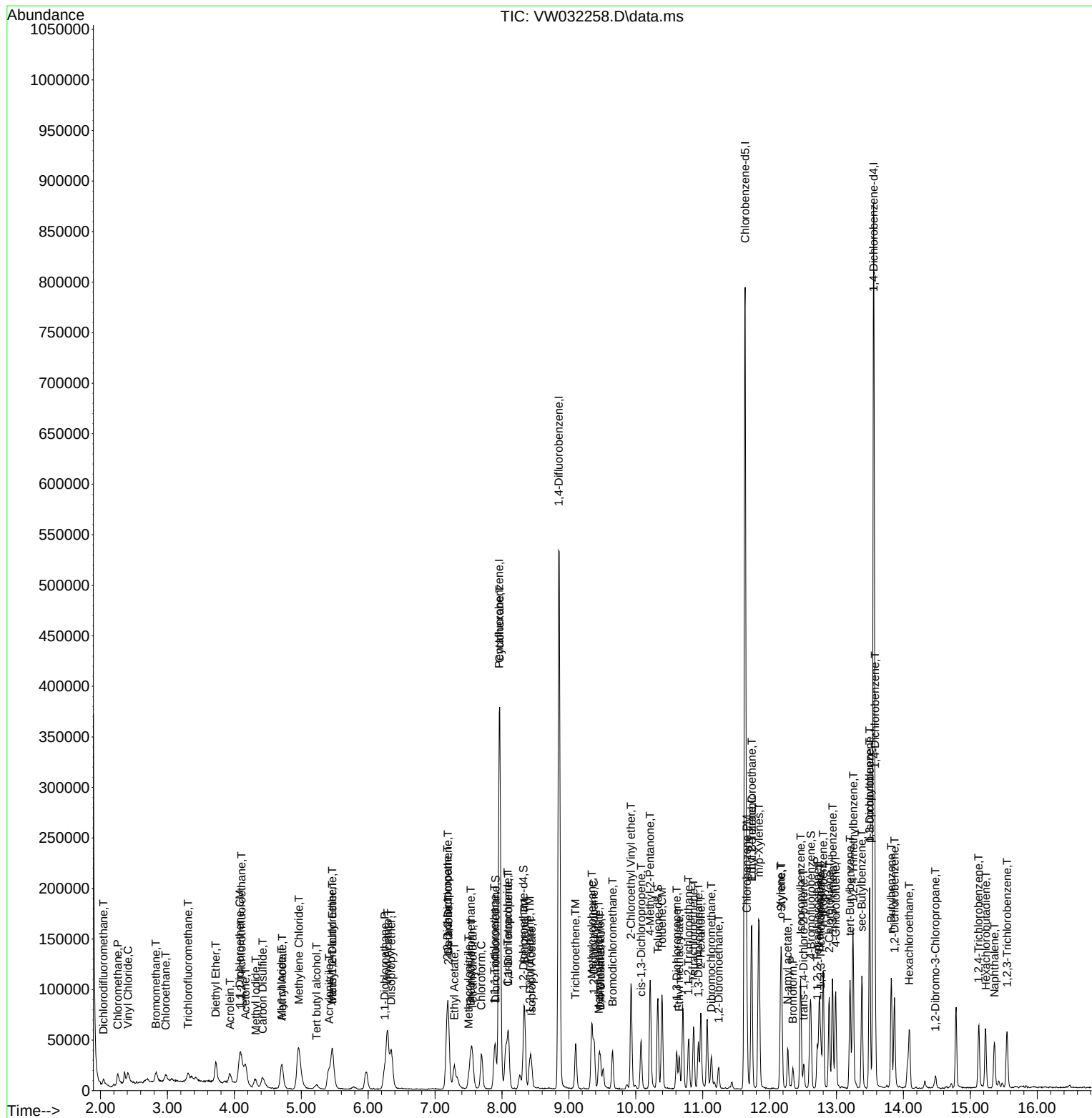
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Data File : VW032258.D
Acq On : 25 Sep 2025 10:45
Operator : SY/MD
Sample : VSTDIC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:46:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 06:41:54 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032259.D
 Acq On : 25 Sep 2025 11:30
 Operator : SY/MD
 Sample : VSTDIC010
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 09/29/2025
 Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:47:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 06:41:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	248065	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	468360	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	429928	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	222948	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	42794	10.926	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	21.860%#		
35) Dibromofluoromethane	7.898	113	34108	10.126	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	20.260%#		
50) Toluene-d8	10.331	98	125406	10.331	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	20.660%#		
62) 4-Bromofluorobenzene	12.617	95	45948	10.035	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	20.060%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.046	85	19773	11.537	ug/l	98
3) Chloromethane	2.253	50	27657	11.276	ug/l	93
4) Vinyl Chloride	2.405	62	31161	10.874	ug/l	99
5) Bromomethane	2.826	94	21051	10.757	ug/l	94
6) Chloroethane	2.978	64	20229	10.417	ug/l	96
7) Trichlorofluoromethane	3.302	101	20665	9.570	ug/l	97
8) Diethyl Ether	3.728	74	21842	10.698	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.100	101	29104	10.560	ug/l	95
10) Methyl Iodide	4.308	142	37859	10.156	ug/l	98
11) Tert butyl alcohol	5.228	59	14898	54.794	ug/l	99
12) 1,1-Dichloroethene	4.082	96	31390	10.654	ug/l	89
13) Acrolein	3.930	56	26417	54.589	ug/l	99
14) Allyl chloride	4.704	41	46273	10.120	ug/l	98
15) Acrylonitrile	5.405	53	54484	51.814	ug/l	99
16) Acetone	4.161	43	62561	62.193	ug/l	98
17) Carbon Disulfide	4.423	76	71415	10.543	ug/l	98
18) Methyl Acetate	4.716	43	29862	8.632	ug/l	96
19) Methyl tert-butyl Ether	5.460	73	54291	9.941	ug/l	95
20) Methylene Chloride	4.954	84	62968	11.520	ug/l	96
21) trans-1,2-Dichloroethene	5.460	96	33128	10.428	ug/l	90
22) Diisopropyl ether	6.344	45	102543	10.093	ug/l	96
23) Vinyl Acetate	6.289	43	334126	51.119	ug/l	97
24) 1,1-Dichloroethane	6.240	63	66637	10.390	ug/l	98
25) 2-Butanone	7.197	43	74330	53.014	ug/l	97
26) 2,2-Dichloropropane	7.191	77	34033	10.768	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	40710	10.303	ug/l	98
28) Bromochloromethane	7.533	49	31230	10.204	ug/l #	97
29) Tetrahydrofuran	7.563	42	46844	51.463	ug/l	98
30) Chloroform	7.697	83	70085	10.473	ug/l	99
31) Cyclohexane	7.971	56	53996	10.677	ug/l #	92
32) 1,1,1-Trichloroethane	7.886	97	46942	10.413	ug/l	97
36) 1,1-Dichloropropene	8.100	75	45535	10.027	ug/l	99
37) Ethyl Acetate	7.283	43	30498	10.126	ug/l	96
38) Carbon Tetrachloride	8.081	117	43230	10.118	ug/l	87
39) Methylcyclohexane	9.343	83	51092	9.723	ug/l	98
40) Benzene	8.337	78	144721	10.124	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032259.D
 Acq On : 25 Sep 2025 11:30
 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 :Mahesh Dadoda 09/29/2025
 Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:47:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 06:41:54 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	17016	9.865	ug/l	92
42) 1,2-Dichloroethane	8.417	62	48566	10.222	ug/l	98
43) Isopropyl Acetate	8.435	43	53838	9.986	ug/l	99
44) Trichloroethene	9.099	130	34730	10.395	ug/l	89
45) 1,2-Dichloropropane	9.374	63	38213	10.322	ug/l	97
46) Dibromomethane	9.465	93	23384	10.273	ug/l	98
47) Bromodichloromethane	9.648	83	50969	9.818	ug/l	97
48) Methyl methacrylate	9.441	41	24046	9.481	ug/l	98
49) 1,4-Dioxane	9.465	88	5391	176.842	ug/l #	96
51) 4-Methyl-2-Pentanone	10.215	43	162030	50.689	ug/l	96
52) Toluene	10.392	92	89443	10.096	ug/l	99
53) t-1,3-Dichloropropene	10.611	75	44781	9.415	ug/l	97
54) cis-1,3-Dichloropropene	10.081	75	52304	9.525	ug/l	96
55) 1,1,2-Trichloroethane	10.788	97	31763	10.223	ug/l	97
56) Ethyl methacrylate	10.648	69	37918	9.265	ug/l	98
57) 1,3-Dichloropropane	10.934	76	54352	10.126	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.928	63	102960	45.830	ug/l	100
59) 2-Hexanone	10.971	43	105087	48.141	ug/l	95
60) Dibromochloromethane	11.129	129	33001	9.672	ug/l	99
61) 1,2-Dibromoethane	11.233	107	29299	9.954	ug/l	95
64) Tetrachloroethene	10.861	164	28481	10.870	ug/l	89
65) Chlorobenzene	11.660	112	103607	10.462	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.727	131	31543	10.071	ug/l	98
67) Ethyl Benzene	11.733	91	162514	10.026	ug/l	98
68) m/p-Xylenes	11.837	106	125268	20.160	ug/l	98
69) o-Xylene	12.166	106	57588	9.862	ug/l	97
70) Styrene	12.178	104	101464	9.908	ug/l	98
71) Bromoform	12.349	173	19072	10.450	ug/l	98
73) Isopropylbenzene	12.465	105	146979	9.472	ug/l	99
74) N-amyl acetate	12.270	43	46865	9.590	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.715	83	42129	10.355	ug/l	99
76) 1,2,3-Trichloropropane	12.763	75	31615m	9.017	ug/l	
77) Bromobenzene	12.745	156	36258	9.500	ug/l	86
78) n-propylbenzene	12.800	91	188377	9.665	ug/l	99
79) 2-Chlorotoluene	12.891	91	116645	9.879	ug/l	100
80) 1,3,5-Trimethylbenzene	12.940	105	130321	9.823	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.513	75	10751	9.104	ug/l	89
82) 4-Chlorotoluene	12.989	91	126800	10.161	ug/l	98
83) tert-Butylbenzene	13.202	119	104621	9.429	ug/l	99
84) 1,2,4-Trimethylbenzene	13.245	105	132488	9.836	ug/l	95
85) sec-Butylbenzene	13.379	105	159160	9.553	ug/l	99
86) p-Isopropyltoluene	13.495	119	134315	9.734	ug/l	98
87) 1,3-Dichlorobenzene	13.495	146	75097	9.947	ug/l	98
88) 1,4-Dichlorobenzene	13.574	146	78941	10.235	ug/l	96
89) n-Butylbenzene	13.818	91	136190	9.835	ug/l	98
90) Hexachloroethane	14.086	117	24456	9.509	ug/l	98
91) 1,2-Dichlorobenzene	13.867	146	72927	10.326	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.483	75	6957	9.997	ug/l	91
93) 1,2,4-Trichlorobenzene	15.129	180	39615	9.455	ug/l	98
94) Hexachlorobutadiene	15.232	225	19426	10.095	ug/l	92
95) Naphthalene	15.360	128	92765	9.225	ug/l	100
96) 1,2,3-Trichlorobenzene	15.549	180	37857	9.717	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
Data File : VW032259.D
Acq On : 25 Sep 2025 11:30
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 :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:47:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 06:41:54 2025
Response via : Initial Calibration

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032259.D
 Acq On : 25 Sep 2025 11:30
 Operator : SY/MD
 Sample : VSTDIC010
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC010

Manual Integrations

APPROVED

Reviewed By : Mahesh Dadoda 09/29/2025
 Supervised By : Semsettin Yesilyurt 09/29/2025

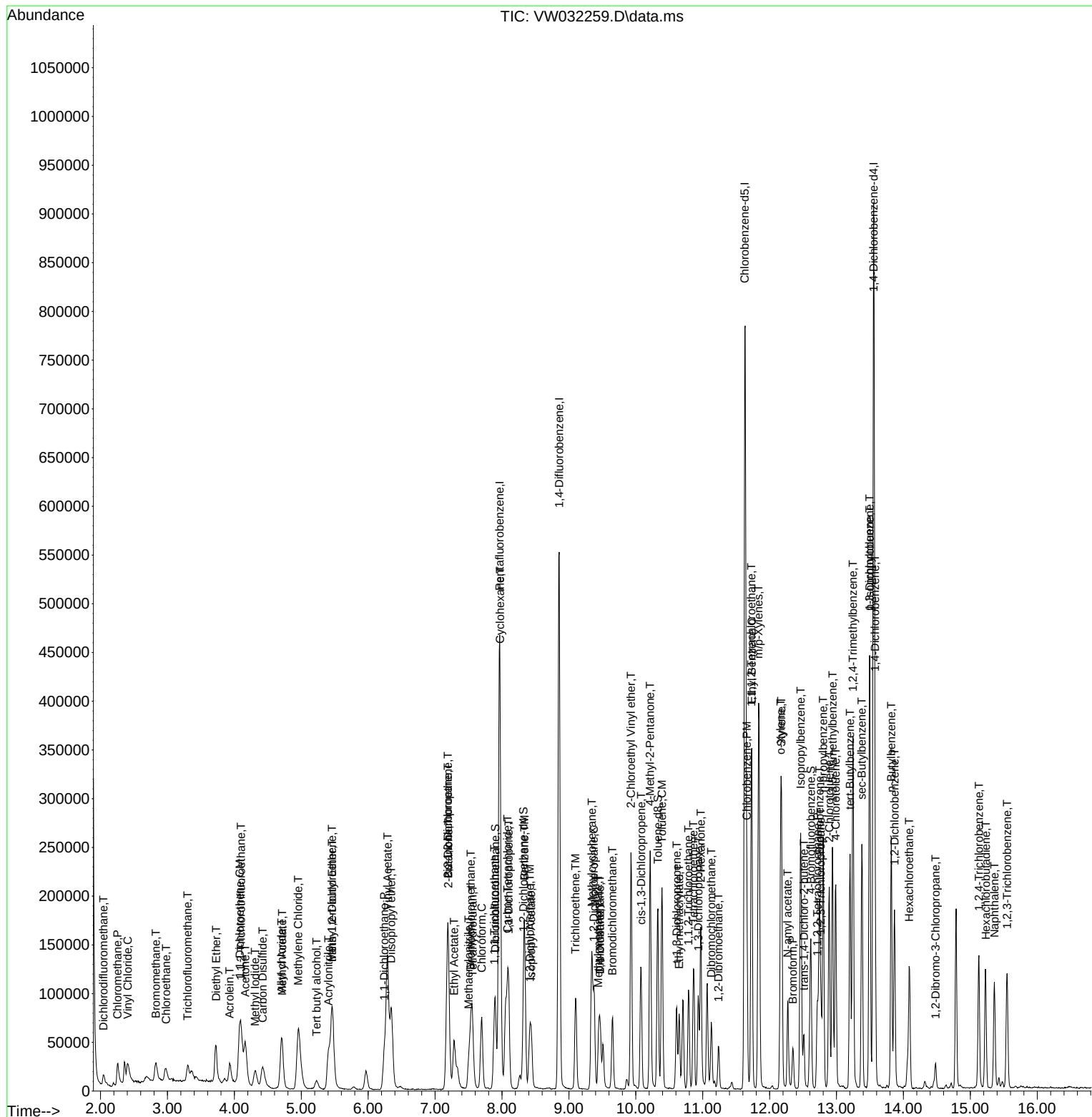
Quant Time: Sep 26 06:47:16 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M

Quant Title : SW846 8260

QLast Update : Fri Sep 26 06:41:54 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032260.D
 Acq On : 25 Sep 2025 11:52
 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 :Mahesh Dadoda 09/29/2025
 Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:48:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 06:41:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	243729	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	461392	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	434624	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	226451	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.325	65	84184	21.875	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	43.740%#		
35) Dibromofluoromethane	7.898	113	69983	21.091	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	42.180%#		
50) Toluene-d8	10.331	98	253179	21.171	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	42.340%#		
62) 4-Bromofluorobenzene	12.617	95	94235	20.891	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	41.780%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.046	85	38695	22.979	ug/l	96
3) Chloromethane	2.259	50	53411	22.164	ug/l	94
4) Vinyl Chloride	2.405	62	63783	22.653	ug/l	100
5) Bromomethane	2.820	94	42423	22.064	ug/l	87
6) Chloroethane	2.966	64	42305	22.173	ug/l	98
7) Trichlorofluoromethane	3.302	101	50606	23.853	ug/l	93
8) Diethyl Ether	3.722	74	42486	21.179	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.100	101	60885	22.484	ug/l	99
10) Methyl Iodide	4.308	142	81878	22.355	ug/l	100
11) Tert butyl alcohol	5.222	59	27601	103.322	ug/l #	86
12) 1,1-Dichloroethene	4.076	96	65285	22.553	ug/l	100
13) Acrolein	3.930	56	51881	109.117	ug/l	94
14) Allyl chloride	4.710	41	98036	21.823	ug/l	100
15) Acrylonitrile	5.405	53	113227	109.593	ug/l	98
16) Acetone	4.161	43	118108	119.503	ug/l	95
17) Carbon Disulfide	4.423	76	150468	22.608	ug/l	99
18) Methyl Acetate	4.710	43	62340	18.340	ug/l	97
19) Methyl tert-butyl Ether	5.466	73	117064	21.817	ug/l	100
20) Methylene Chloride	4.960	84	82214	18.228	ug/l	98
21) trans-1,2-Dichloroethene	5.454	96	68490	21.942	ug/l	100
22) Diisopropyl ether	6.344	45	224788	22.518	ug/l	99
23) Vinyl Acetate	6.289	43	731805	113.954	ug/l	98
24) 1,1-Dichloroethane	6.240	63	138225	21.935	ug/l	100
25) 2-Butanone	7.197	43	149616	108.608	ug/l	99
26) 2,2-Dichloropropane	7.185	77	65482	21.087	ug/l	97
27) cis-1,2-Dichloroethene	7.191	96	82208	21.175	ug/l	98
28) Bromochloromethane	7.533	49	63972	21.275	ug/l #	99
29) Tetrahydrofuran	7.557	42	97668	109.208	ug/l	100
30) Chloroform	7.691	83	145120	22.072	ug/l	99
31) Cyclohexane	7.971	56	111011	22.340	ug/l	98
32) 1,1,1-Trichloroethane	7.892	97	96016	21.677	ug/l	98
36) 1,1-Dichloropropene	8.093	75	96645	21.603	ug/l	99
37) Ethyl Acetate	7.276	43	65684	22.138	ug/l	100
38) Carbon Tetrachloride	8.081	117	93252	22.156	ug/l	98
39) Methylcyclohexane	9.343	83	110069	21.264	ug/l	97
40) Benzene	8.337	78	302446	21.478	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032260.D
 Acq On : 25 Sep 2025 11:52
 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 :Mahesh Dadoda 09/29/2025
 Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:48:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 06:41:54 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.508	41	36840	21.680	ug/l	96
42) 1,2-Dichloroethane	8.410	62	99043	21.160	ug/l	99
43) Isopropyl Acetate	8.441	43	111547	21.003	ug/l	99
44) Trichloroethene	9.105	130	70450	21.404	ug/l	85
45) 1,2-Dichloropropane	9.374	63	78048	21.400	ug/l	97
46) Dibromomethane	9.465	93	47056	20.986	ug/l	98
47) Bromodichloromethane	9.654	83	106511	20.826	ug/l #	97
48) Methyl methacrylate	9.447	41	51409	20.575	ug/l	96
49) 1,4-Dioxane	9.471	88	13201	439.575	ug/l #	96
51) 4-Methyl-2-Pentanone	10.215	43	341323	108.392	ug/l	99
52) Toluene	10.392	92	186350	21.351	ug/l	99
53) t-1,3-Dichloropropene	10.611	75	96092	20.507	ug/l	96
54) cis-1,3-Dichloropropene	10.075	75	114070	21.086	ug/l	96
55) 1,1,2-Trichloroethane	10.788	97	66195	21.627	ug/l	98
56) Ethyl methacrylate	10.648	69	85321	21.163	ug/l	97
57) 1,3-Dichloropropane	10.934	76	113957	21.552	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.928	63	217872	98.444	ug/l	99
59) 2-Hexanone	10.971	43	234851	109.212	ug/l	97
60) Dibromochloromethane	11.129	129	68381	20.343	ug/l	98
61) 1,2-Dibromoethane	11.239	107	62256	21.470	ug/l	98
64) Tetrachloroethene	10.861	164	56103	21.182	ug/l	94
65) Chlorobenzene	11.660	112	214538	21.430	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.727	131	65613	20.723	ug/l	98
67) Ethyl Benzene	11.733	91	346566	21.149	ug/l	98
68) m/p-Xylenes	11.837	106	275886	43.920	ug/l	94
69) o-Xylene	12.166	106	123539	20.927	ug/l	96
70) Styrene	12.178	104	228628	22.084	ug/l	98
71) Bromoform	12.349	173	38000	20.596	ug/l #	96
73) Isopropylbenzene	12.465	105	326048	20.686	ug/l	97
74) N-amyl acetate	12.270	43	104936	21.142	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.715	83	85459	20.680	ug/l	99
76) 1,2,3-Trichloropropane	12.769	75	63465m	17.820	ug/l	
77) Bromobenzene	12.745	156	78661	20.291	ug/l	92
78) n-propylbenzene	12.800	91	404504	20.432	ug/l	100
79) 2-Chlorotoluene	12.891	91	245976	20.510	ug/l	99
80) 1,3,5-Trimethylbenzene	12.940	105	277878	20.621	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.513	75	23150	19.301	ug/l	90
82) 4-Chlorotoluene	12.989	91	259722	20.491	ug/l	99
83) tert-Butylbenzene	13.202	119	231761	20.565	ug/l	97
84) 1,2,4-Trimethylbenzene	13.245	105	285414	20.861	ug/l	100
85) sec-Butylbenzene	13.379	105	348797	20.611	ug/l	99
86) p-Isopropyltoluene	13.495	119	284908	20.328	ug/l	98
87) 1,3-Dichlorobenzene	13.495	146	150306	19.601	ug/l	95
88) 1,4-Dichlorobenzene	13.574	146	163717	20.899	ug/l	97
89) n-Butylbenzene	13.818	91	283445	20.152	ug/l	99
90) Hexachloroethane	14.092	117	53076	20.318	ug/l	91
91) 1,2-Dichlorobenzene	13.867	146	150614	20.996	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.476	75	14130	19.991	ug/l	96
93) 1,2,4-Trichlorobenzene	15.129	180	85426	20.074	ug/l	99
94) Hexachlorobutadiene	15.232	225	42929	21.964	ug/l	86
95) Naphthalene	15.360	128	203984	19.971	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	78000	19.712	ug/l	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
Data File : VW032260.D
Acq On : 25 Sep 2025 11:52
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 :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:48:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 06:41:54 2025
Response via : Initial Calibration

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

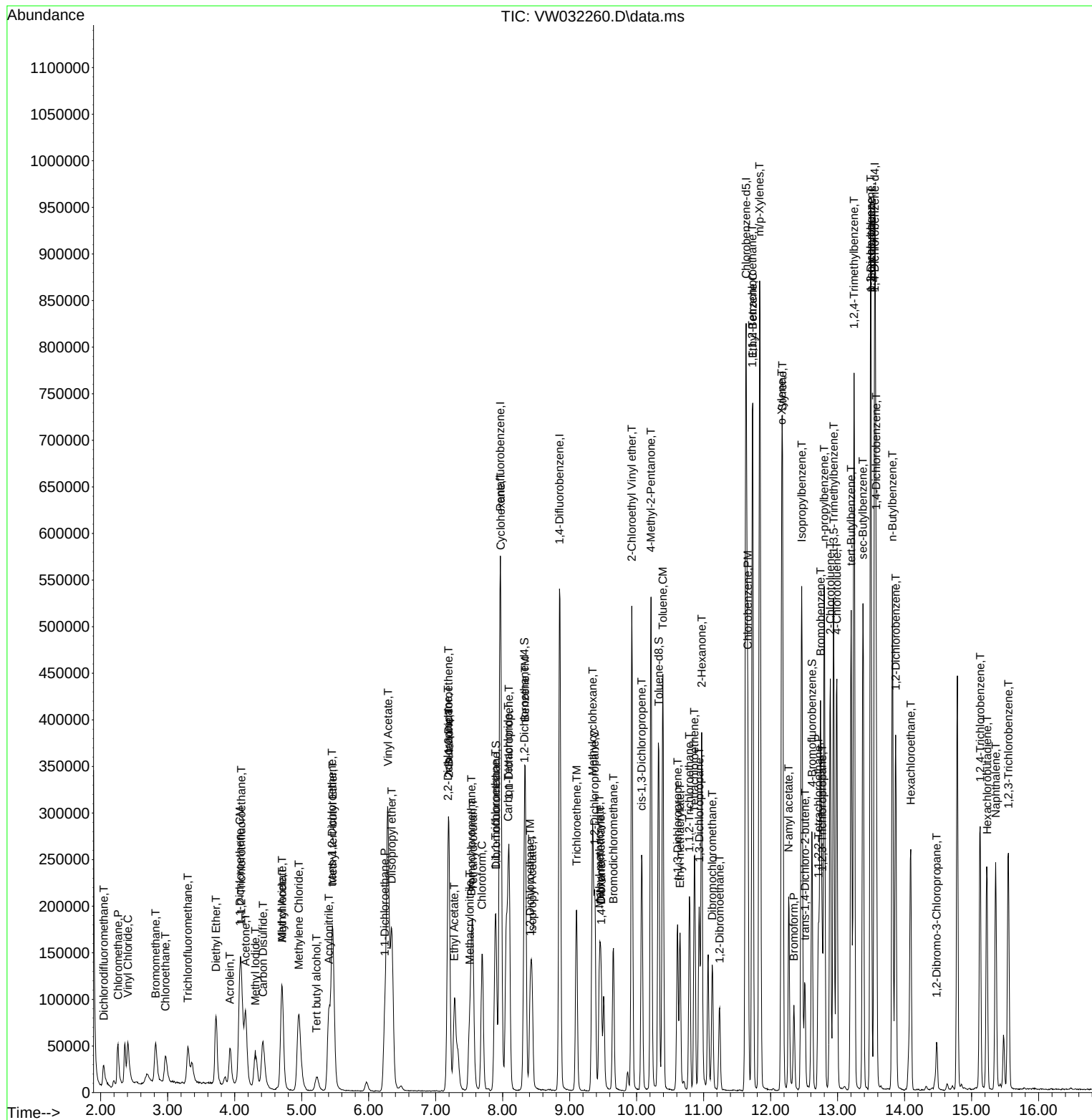
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
Data File : VW032260.D
Acq On : 25 Sep 2025 11:52
Operator : SY/MD
Sample : VSTDIC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:48:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 06:41:54 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032261.D
 Acq On : 25 Sep 2025 12:24
 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 :Mahesh Dadoda 09/29/2025
 Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:49:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 06:41:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	263419	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	461173	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	443387	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	213560	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	186598	44.863	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	89.720%		
35) Dibromofluoromethane	7.904	113	159800	48.182	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	96.360%		
50) Toluene-d8	10.325	98	577472	48.312	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	96.620%		
62) 4-Bromofluorobenzene	12.617	95	222382	49.323	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	98.640%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.039	85	77732	42.711	ug/l	100
3) Chloromethane	2.253	50	111388	42.767	ug/l	100
4) Vinyl Chloride	2.405	62	141381	46.459	ug/l	100
5) Bromomethane	2.820	94	96600	46.487	ug/l	100
6) Chloroethane	2.966	64	94674	45.912	ug/l	100
7) Trichlorofluoromethane	3.301	101	100937	44.021	ug/l	100
8) Diethyl Ether	3.716	74	96887	44.687	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.100	101	138524	47.331	ug/l	100
10) Methyl Iodide	4.301	142	187435	47.349	ug/l	100
11) Tert butyl alcohol	5.216	59	60028	207.913	ug/l	100
12) 1,1-Dichloroethene	4.076	96	145223	46.418	ug/l	100
13) Acrolein	3.929	56	118954	231.485	ug/l	100
14) Allyl chloride	4.698	41	231447	47.669	ug/l	100
15) Acrylonitrile	5.399	53	248561	222.601	ug/l	100
16) Acetone	4.161	43	215356	201.612	ug/l	100
17) Carbon Disulfide	4.417	76	331845	46.133	ug/l	100
18) Methyl Acetate	4.710	43	194479	52.938	ug/l	100
19) Methyl tert-butyl Ether	5.460	73	282181	48.658	ug/l	100
20) Methylene Chloride	4.954	84	196832	51.165	ug/l	100
21) trans-1,2-Dichloroethene	5.453	96	159500	47.279	ug/l	100
22) Diisopropyl ether	6.337	45	527651	48.907	ug/l	100
23) Vinyl Acetate	6.283	43	1601259	230.704	ug/l	100
24) 1,1-Dichloroethane	6.246	63	324470	47.641	ug/l	100
25) 2-Butanone	7.191	43	332100	223.055	ug/l	100
26) 2,2-Dichloropropane	7.185	77	157515	46.933	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	200886	47.877	ug/l	100
28) Bromochloromethane	7.526	49	155192	47.753	ug/l #	100
29) Tetrahydrofuran	7.551	42	218311	225.860	ug/l	100
30) Chloroform	7.691	83	338865	47.686	ug/l	100
31) Cyclohexane	7.971	56	240167	44.720	ug/l	100
32) 1,1,1-Trichloroethane	7.886	97	230079	48.061	ug/l	100
36) 1,1-Dichloropropene	8.093	75	222842	49.836	ug/l	100
37) Ethyl Acetate	7.276	43	138317	46.641	ug/l	100
38) Carbon Tetrachloride	8.087	117	206044	48.978	ug/l	100
39) Methylcyclohexane	9.343	83	262496	50.734	ug/l	100
40) Benzene	8.331	78	699089	49.669	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032261.D
 Acq On : 25 Sep 2025 12:24
 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 :Mahesh Dadoda 09/29/2025
 Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:49:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 06:41:54 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	81434	47.946	ug/l	100
42) 1,2-Dichloroethane	8.410	62	224207	47.924	ug/l	100
43) Isopropyl Acetate	8.435	43	252816	47.624	ug/l	100
44) Trichloroethene	9.099	130	159555	48.499	ug/l	100
45) 1,2-Dichloropropane	9.373	63	181112	49.683	ug/l	100
46) Dibromomethane	9.465	93	108241	48.295	ug/l	100
47) Bromodichloromethane	9.648	83	257273	50.329	ug/l	100
48) Methyl methacrylate	9.441	41	123924	49.620	ug/l	100
49) 1,4-Dioxane	9.465	88	30020	1000.100	ug/l #	100
51) 4-Methyl-2-Pentanone	10.215	43	747705	237.557	ug/l	100
52) Toluene	10.386	92	432072	49.529	ug/l	100
53) t-1,3-Dichloropropene	10.611	75	234010	49.964	ug/l	100
54) cis-1,3-Dichloropropene	10.075	75	272276	50.355	ug/l	100
55) 1,1,2-Trichloroethane	10.788	97	145639	47.606	ug/l	100
56) Ethyl methacrylate	10.648	69	201819	50.082	ug/l	100
57) 1,3-Dichloropropane	10.934	76	262086	49.590	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	581038	262.662	ug/l	100
59) 2-Hexanone	10.971	43	518965	241.448	ug/l	100
60) Dibromochloromethane	11.129	129	170115	50.633	ug/l	100
61) 1,2-Dibromoethane	11.239	107	141919	48.966	ug/l	100
64) Tetrachloroethene	10.867	164	133631	49.455	ug/l	100
65) Chlorobenzene	11.660	112	499320	48.890	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.727	131	159711	49.447	ug/l	100
67) Ethyl Benzene	11.727	91	834567	49.923	ug/l	100
68) m/p-Xylenes	11.836	106	639320	99.765	ug/l	100
69) o-Xylene	12.166	106	312144	51.830	ug/l	100
70) Styrene	12.178	104	552922	52.353	ug/l	100
71) Bromoform	12.349	173	93158	49.493	ug/l #	100
73) Isopropylbenzene	12.464	105	791099	53.222	ug/l	100
74) N-amyl acetate	12.269	43	231039	49.357	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.714	83	189180	48.542	ug/l	100
76) 1,2,3-Trichloropropane	12.763	75	141938m	42.260	ug/l	
77) Bromobenzene	12.745	156	195785	53.552	ug/l	100
78) n-propylbenzene	12.800	91	1000628	53.593	ug/l	100
79) 2-Chlorotoluene	12.891	91	592976	52.428	ug/l	100
80) 1,3,5-Trimethylbenzene	12.940	105	678131	53.361	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.507	75	57637	50.954	ug/l	100
82) 4-Chlorotoluene	12.983	91	625344	52.316	ug/l	100
83) tert-Butylbenzene	13.202	119	558898	52.587	ug/l	100
84) 1,2,4-Trimethylbenzene	13.245	105	683724	52.990	ug/l	100
85) sec-Butylbenzene	13.379	105	851810	53.372	ug/l	100
86) p-Isopropyltoluene	13.495	119	721846	54.612	ug/l	100
87) 1,3-Dichlorobenzene	13.495	146	371057	51.310	ug/l	100
88) 1,4-Dichlorobenzene	13.574	146	357426	48.381	ug/l	100
89) n-Butylbenzene	13.818	91	706203	53.238	ug/l	100
90) Hexachloroethane	14.092	117	122891	49.885	ug/l	100
91) 1,2-Dichlorobenzene	13.867	146	348041	51.447	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.476	75	30775	46.167	ug/l	100
93) 1,2,4-Trichlorobenzene	15.129	180	204990	51.077	ug/l	100
94) Hexachlorobutadiene	15.232	225	83590	45.350	ug/l	100
95) Naphthalene	15.360	128	494973	51.385	ug/l	100
96) 1,2,3-Trichlorobenzene	15.543	180	190435	51.031	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
Data File : VW032261.D
Acq On : 25 Sep 2025 12:24
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 :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:49:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 06:41:54 2025
Response via : Initial Calibration

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

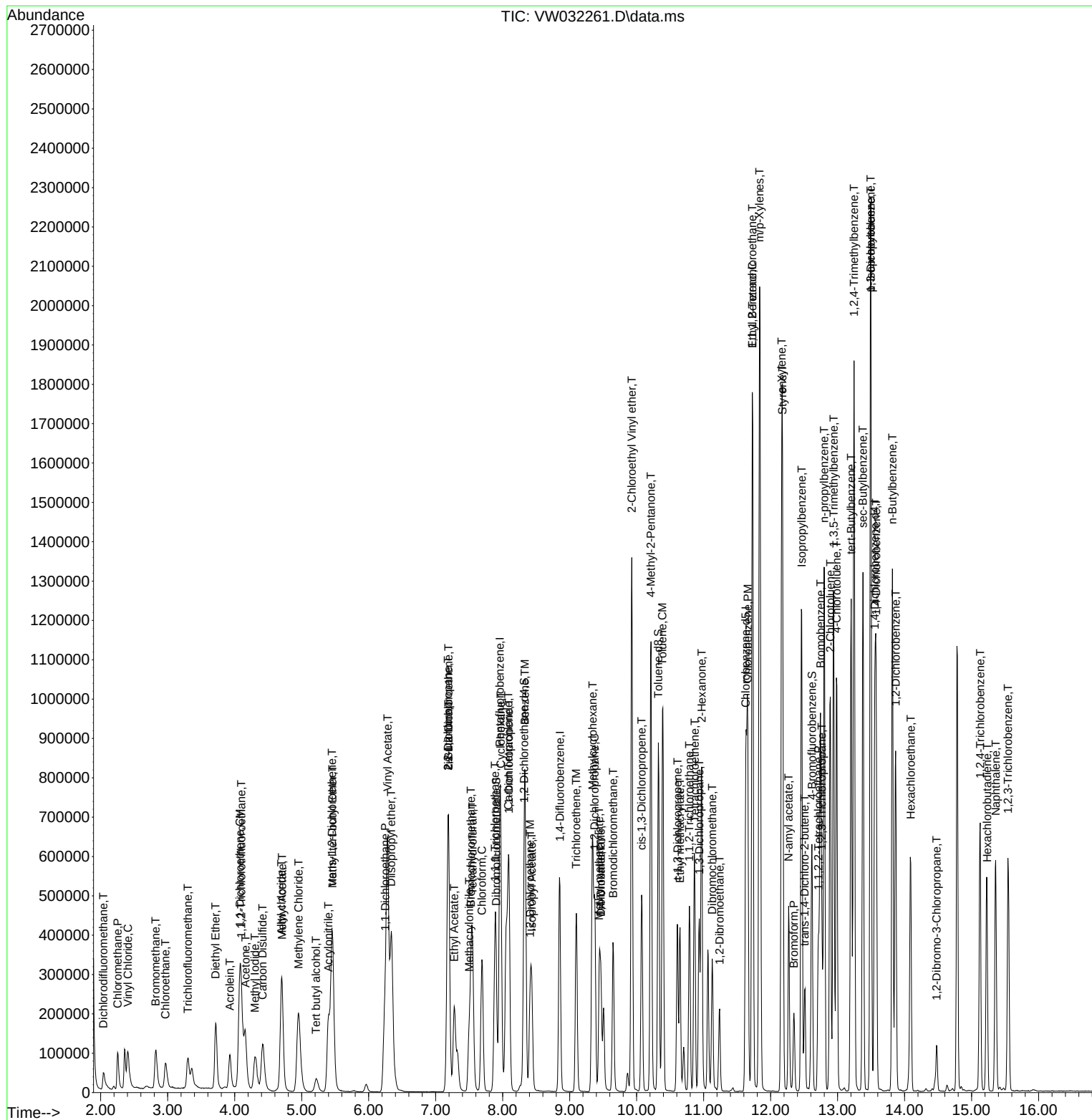

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\  
Data File : VW032261.D  
Acq On    : 25 Sep 2025 12:24  
Operator  : SY/MD  
Sample    : VSTDICCC050  
Misc      : 5.00g/5mL/MSVOA_W/SOIL  
ALS Vial  : 7 Sample Multiplier: 1
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Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:49:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 06:41:54 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032262.D
 Acq On : 25 Sep 2025 12:46
 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 :Mahesh Dadoda 09/29/2025
 Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:50:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 06:41:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	270060	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	469392	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	452792	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	225531	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	379535	89.005	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 178.020%#			
35) Dibromofluoromethane	7.904	113	320954	95.077	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 190.160%#			
50) Toluene-d8	10.325	98	1195947	98.302	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 196.600%#			
62) 4-Bromofluorobenzene	12.617	95	456586	99.494	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 198.980%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.046	85	159187	85.317	ug/l	98
3) Chloromethane	2.253	50	236913	88.725	ug/l	93
4) Vinyl Chloride	2.405	62	277540	88.959	ug/l	96
5) Bromomethane	2.820	94	194678	91.381	ug/l	89
6) Chloroethane	2.972	64	192034	90.836	ug/l	98
7) Trichlorofluoromethane	3.301	101	236771	100.722	ug/l	97
8) Diethyl Ether	3.722	74	197656	88.924	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.106	101	267494	89.149	ug/l	99
10) Methyl Iodide	4.319	142	389172	95.893	ug/l	97
11) Tert butyl alcohol	5.228	59	132448	447.465	ug/l	98
12) 1,1-Dichloroethene	4.082	96	296922	92.573	ug/l	97
13) Acrolein	3.929	56	228335	433.414	ug/l	95
14) Allyl chloride	4.704	41	475222	95.469	ug/l	99
15) Acrylonitrile	5.405	53	531479	464.265	ug/l	99
16) Acetone	4.161	43	436453	398.550	ug/l	100
17) Carbon Disulfide	4.423	76	681761	92.447	ug/l	100
18) Methyl Acetate	4.716	43	404654	107.440	ug/l	99
19) Methyl tert-butyl Ether	5.466	73	572270	96.254	ug/l	98
20) Methylene Chloride	4.954	84	356808	97.287	ug/l	97
21) trans-1,2-Dichloroethene	5.453	96	325375	94.076	ug/l	95
22) Diisopropyl ether	6.344	45	1074108	97.109	ug/l	100
23) Vinyl Acetate	6.283	43	3409679	479.176	ug/l	98
24) 1,1-Dichloroethane	6.246	63	648524	92.880	ug/l	99
25) 2-Butanone	7.197	43	701086	459.305	ug/l	100
26) 2,2-Dichloropropane	7.191	77	322157	93.629	ug/l	99
27) cis-1,2-Dichloroethene	7.191	96	410677	95.469	ug/l	99
28) Bromochloromethane	7.532	49	316521	95.000	ug/l #	98
29) Tetrahydrofuran	7.557	42	467041	471.309	ug/l	100
30) Chloroform	7.697	83	662900	90.992	ug/l	98
31) Cyclohexane	7.971	56	492754	89.496	ug/l	99
32) 1,1,1-Trichloroethane	7.886	97	460229	93.772	ug/l	100
36) 1,1-Dichloropropene	8.099	75	449330	98.728	ug/l	99
37) Ethyl Acetate	7.276	43	294907	97.703	ug/l	98
38) Carbon Tetrachloride	8.087	117	424225	99.075	ug/l	100
39) Methylcyclohexane	9.343	83	548695	104.193	ug/l	96
40) Benzene	8.337	78	1422633	99.306	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032262.D
 Acq On : 25 Sep 2025 12:46
 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 :Mahesh Dadoda 09/29/2025
 Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:50:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 06:41:54 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	166119	96.094	ug/l	98
42) 1,2-Dichloroethane	8.416	62	457918	96.165	ug/l	100
43) Isopropyl Acetate	8.441	43	542177	100.345	ug/l	99
44) Trichloroethene	9.105	130	336963	100.631	ug/l	87
45) 1,2-Dichloropropane	9.373	63	360778	97.236	ug/l	100
46) Dibromomethane	9.465	93	221052	96.902	ug/l	97
47) Bromodichloromethane	9.654	83	522751	100.472	ug/l	96
48) Methyl methacrylate	9.441	41	270335	106.349	ug/l	100
49) 1,4-Dioxane	9.465	88	63276	2071.095	ug/l #	100
51) 4-Methyl-2-Pentanone	10.215	43	1586527	495.237	ug/l	99
52) Toluene	10.392	92	904359	101.852	ug/l	97
53) t-1,3-Dichloropropene	10.611	75	519907	109.064	ug/l	100
54) cis-1,3-Dichloropropene	10.081	75	576534	104.759	ug/l	98
55) 1,1,2-Trichloroethane	10.788	97	296466	95.211	ug/l	96
56) Ethyl methacrylate	10.648	69	445747	108.677	ug/l	98
57) 1,3-Dichloropropane	10.934	76	527430	98.049	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.928	63	1240539	550.975	ug/l	100
59) 2-Hexanone	10.971	43	1108386	506.646	ug/l	100
60) Dibromochloromethane	11.129	129	353508	103.376	ug/l	97
61) 1,2-Dibromoethane	11.239	107	289333	98.079	ug/l	98
64) Tetrachloroethene	10.867	164	260649	94.460	ug/l #	89
65) Chlorobenzene	11.660	112	1003942	96.257	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.733	131	331436	100.481	ug/l	99
67) Ethyl Benzene	11.733	91	1744976	102.215	ug/l	95
68) m/p-Xylenes	11.836	106	1319678	201.657	ug/l	95
69) o-Xylene	12.166	106	640114	104.080	ug/l	99
70) Styrene	12.178	104	1107088	102.647	ug/l	99
71) Bromoform	12.349	173	193866	100.857	ug/l #	96
73) Isopropylbenzene	12.464	105	1594475	101.576	ug/l	99
74) N-amyl acetate	12.269	43	489840	99.091	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.714	83	380449	92.439	ug/l	99
76) 1,2,3-Trichloropropane	12.763	75	284709m	80.269	ug/l	
77) Bromobenzene	12.745	156	377479	97.769	ug/l	93
78) n-propylbenzene	12.800	91	1997481	101.306	ug/l	99
79) 2-Chlorotoluene	12.891	91	1185558	99.258	ug/l	99
80) 1,3,5-Trimethylbenzene	12.940	105	1364777	101.693	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.513	75	125300	104.893	ug/l	97
82) 4-Chlorotoluene	12.989	91	1241413	98.344	ug/l	99
83) tert-Butylbenzene	13.202	119	1144817	101.999	ug/l	99
84) 1,2,4-Trimethylbenzene	13.245	105	1402022	102.892	ug/l	97
85) sec-Butylbenzene	13.379	105	1686020	100.034	ug/l	99
86) p-Isopropyltoluene	13.495	119	1405656	100.702	ug/l	98
87) 1,3-Dichlorobenzene	13.495	146	747138	97.831	ug/l	100
88) 1,4-Dichlorobenzene	13.574	146	735529	94.276	ug/l	94
89) n-Butylbenzene	13.818	91	1403783	100.210	ug/l	97
90) Hexachloroethane	14.092	117	261127	100.372	ug/l	98
91) 1,2-Dichlorobenzene	13.867	146	660780	92.492	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.482	75	66815	94.913	ug/l	98
93) 1,2,4-Trichlorobenzene	15.129	180	433343	102.243	ug/l	99
94) Hexachlorobutadiene	15.232	225	182643	93.830	ug/l	90
95) Naphthalene	15.360	128	1068790	105.067	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	397191	100.785	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
Data File : VW032262.D
Acq On : 25 Sep 2025 12:46
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 :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:50:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 06:41:54 2025
Response via : Initial Calibration

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

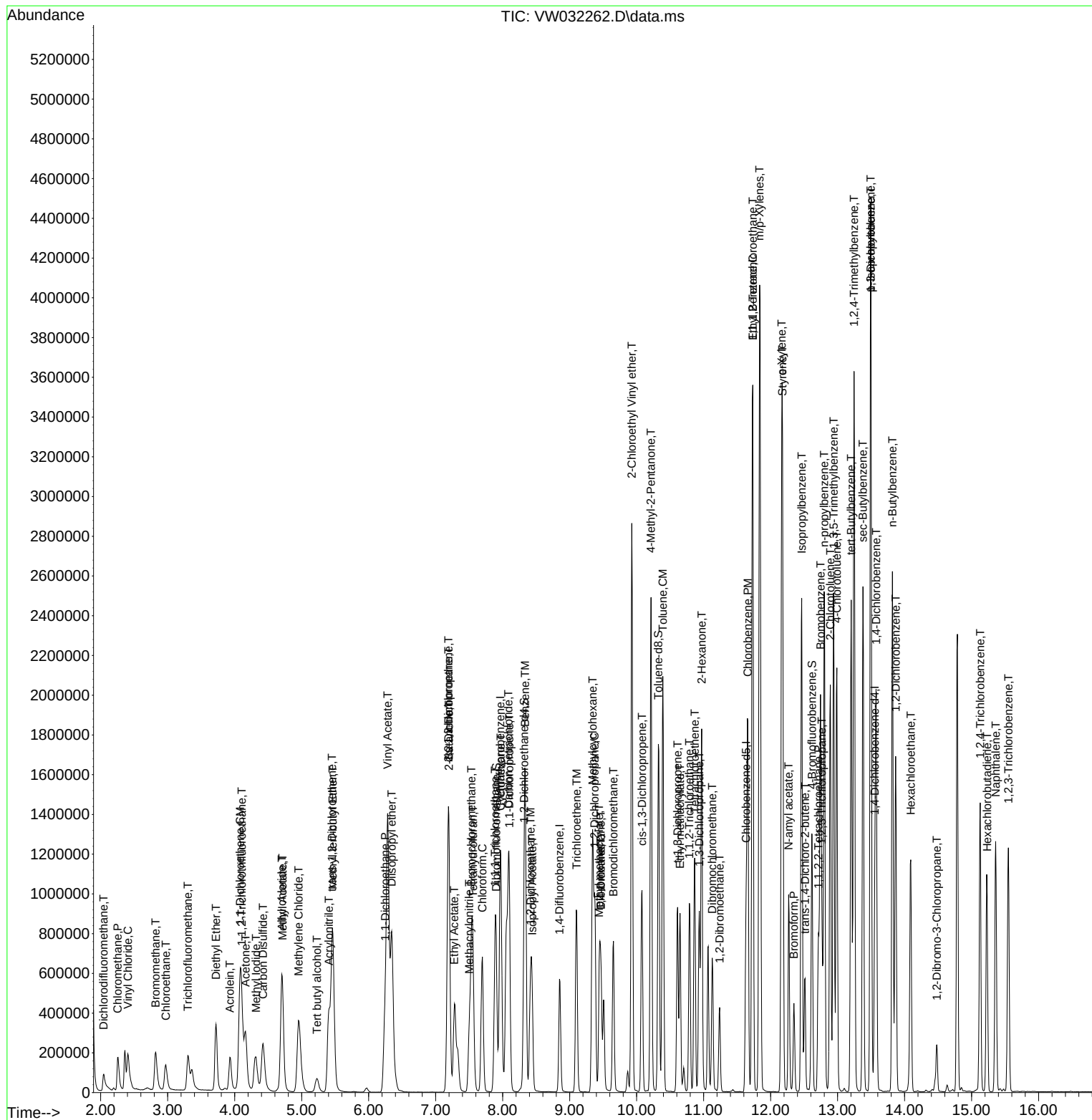
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
Data File : VW032262.D
Acq On : 25 Sep 2025 12:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:50:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 06:41:54 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032263.D
 Acq On : 25 Sep 2025 13:08
 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 :Mahesh Dadoda 09/29/2025
 Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:51:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 06:41:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	268103	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	503264	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	471325	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	221054	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	574246	135.650	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 271.300%#			
35) Dibromofluoromethane	7.898	113	501948	138.686	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 277.380%#			
50) Toluene-d8	10.331	98	1818751	139.432	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 278.860%#			
62) 4-Bromofluorobenzene	12.617	95	691432	140.528	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 281.060%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.039	85	240712	129.953	ug/l	98
3) Chloromethane	2.259	50	369476	139.381	ug/l	92
4) Vinyl Chloride	2.405	62	420083	135.631	ug/l	100
5) Bromomethane	2.814	94	302978	143.255	ug/l	96
6) Chloroethane	2.960	64	302351	144.062	ug/l	98
7) Trichlorofluoromethane	3.301	101	366348	156.982	ug/l	96
8) Diethyl Ether	3.722	74	309062	140.059	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.100	101	408786	137.233	ug/l	99
10) Methyl Iodide	4.307	142	583039	144.711	ug/l	99
11) Tert butyl alcohol	5.228	59	229035	779.425	ug/l	99
12) 1,1-Dichloroethene	4.082	96	454400	142.705	ug/l	97
13) Acrolein	3.929	56	358621	685.685	ug/l	95
14) Allyl chloride	4.704	41	741086	149.967	ug/l	99
15) Acrylonitrile	5.405	53	876508	771.249	ug/l	99
16) Acetone	4.161	43	725678	667.495	ug/l	100
17) Carbon Disulfide	4.423	76	1064701	145.428	ug/l	99
18) Methyl Acetate	4.710	43	657620	175.880	ug/l	98
19) Methyl tert-butyl Ether	5.466	73	903547	153.083	ug/l	99
20) Methylene Chloride	4.954	84	535268	151.547	ug/l	98
21) trans-1,2-Dichloroethene	5.460	96	507076	147.681	ug/l	89
22) Diisopropyl ether	6.344	45	1632431	148.663	ug/l	98
23) Vinyl Acetate	6.283	43	5462201	773.228	ug/l	99
24) 1,1-Dichloroethane	6.246	63	1005238	145.019	ug/l	99
25) 2-Butanone	7.197	43	1188481	784.297	ug/l	98
26) 2,2-Dichloropropane	7.185	77	490986	143.738	ug/l	98
27) cis-1,2-Dichloroethene	7.197	96	634273	148.524	ug/l	100
28) Bromochloromethane	7.532	49	465294	140.671	ug/l #	100
29) Tetrahydrofuran	7.551	42	778509	791.357	ug/l	100
30) Chloroform	7.691	83	1027625	142.085	ug/l	99
31) Cyclohexane	7.971	56	750802	137.359	ug/l	97
32) 1,1,1-Trichloroethane	7.886	97	698636	143.387	ug/l	99
36) 1,1-Dichloropropene	8.093	75	688774	141.154	ug/l	99
37) Ethyl Acetate	7.276	43	484636	149.754	ug/l	99
38) Carbon Tetrachloride	8.081	117	648359	141.229	ug/l	95
39) Methylcyclohexane	9.343	83	851000	150.722	ug/l	95
40) Benzene	8.337	78	2170741	141.329	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032263.D
 Acq On : 25 Sep 2025 13:08
 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 :Mahesh Dadoda 09/29/2025
 Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:51:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 06:41:54 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	305799	164.987	ug/l	94
42) 1,2-Dichloroethane	8.410	62	709201	138.911	ug/l	100
43) Isopropyl Acetate	8.441	43	899258	155.231	ug/l	99
44) Trichloroethene	9.099	130	512412	142.728	ug/l	95
45) 1,2-Dichloropropane	9.374	63	561821	141.229	ug/l	99
46) Dibromomethane	9.465	93	342097	139.871	ug/l	99
47) Bromodichloromethane	9.654	83	816402	146.351	ug/l #	99
48) Methyl methacrylate	9.441	41	447621	164.241	ug/l	97
49) 1,4-Dioxane	9.459	88	109095	3330.471	ug/l #	95
51) 4-Methyl-2-Pentanone	10.215	43	2581810	751.674	ug/l	99
52) Toluene	10.392	92	1383297	145.306	ug/l	97
53) t-1,3-Dichloropropene	10.611	75	825886	161.590	ug/l	99
54) cis-1,3-Dichloropropene	10.081	75	922892	156.407	ug/l	96
55) 1,1,2-Trichloroethane	10.788	97	479692	143.686	ug/l	99
56) Ethyl methacrylate	10.648	69	724292	164.704	ug/l	98
57) 1,3-Dichloropropane	10.934	76	826934	143.381	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.928	63	1967595	815.074	ug/l	100
59) 2-Hexanone	10.971	43	1834008	781.907	ug/l	99
60) Dibromochloromethane	11.135	129	549090	149.762	ug/l	100
61) 1,2-Dibromoethane	11.239	107	467063	147.671	ug/l	100
64) Tetrachloroethene	10.867	164	407222	141.775	ug/l	91
65) Chlorobenzene	11.660	112	1542105	142.042	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.733	131	511003	148.829	ug/l	99
67) Ethyl Benzene	11.727	91	2698460	151.851	ug/l	96
68) m/p-Xylenes	11.837	106	2029004	297.855	ug/l	95
69) o-Xylene	12.166	106	980912	153.220	ug/l	100
70) Styrene	12.178	104	1702538	151.648	ug/l	99
71) Bromoform	12.349	173	315558	157.711	ug/l #	99
73) Isopropylbenzene	12.464	105	2480347	161.210	ug/l	100
74) N-amyl acetate	12.269	43	797679	164.633	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.714	83	598288	148.312	ug/l	100
76) 1,2,3-Trichloropropane	12.763	75	444249m	127.785	ug/l	
77) Bromobenzene	12.745	156	576269	152.279	ug/l	89
78) n-propylbenzene	12.800	91	2972678	153.818	ug/l	99
79) 2-Chlorotoluene	12.891	91	1806322	154.293	ug/l	99
80) 1,3,5-Trimethylbenzene	12.940	105	2066765	157.118	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.513	75	209132	178.617	ug/l	95
82) 4-Chlorotoluene	12.989	91	1903051	153.811	ug/l	98
83) tert-Butylbenzene	13.202	119	1773318	161.195	ug/l	98
84) 1,2,4-Trimethylbenzene	13.245	105	2079611	155.710	ug/l	100
85) sec-Butylbenzene	13.379	105	2618834	158.526	ug/l	99
86) p-Isopropyltoluene	13.495	119	2117769	154.791	ug/l	98
87) 1,3-Dichlorobenzene	13.495	146	1141699	152.522	ug/l	99
88) 1,4-Dichlorobenzene	13.574	146	1117378	146.119	ug/l	94
89) n-Butylbenzene	13.818	91	2173243	158.280	ug/l	99
90) Hexachloroethane	14.092	117	403116	158.088	ug/l	97
91) 1,2-Dichlorobenzene	13.867	146	1010379	144.291	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.482	75	109812	159.151	ug/l	98
93) 1,2,4-Trichlorobenzene	15.129	180	686602	165.278	ug/l	94
94) Hexachlorobutadiene	15.226	225	279873	146.692	ug/l	94
95) Naphthalene	15.360	128	1767143	177.236	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	631845	163.575	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
Data File : VW032263.D
Acq On : 25 Sep 2025 13:08
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 :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 06:51:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 06:41:54 2025
Response via : Initial Calibration

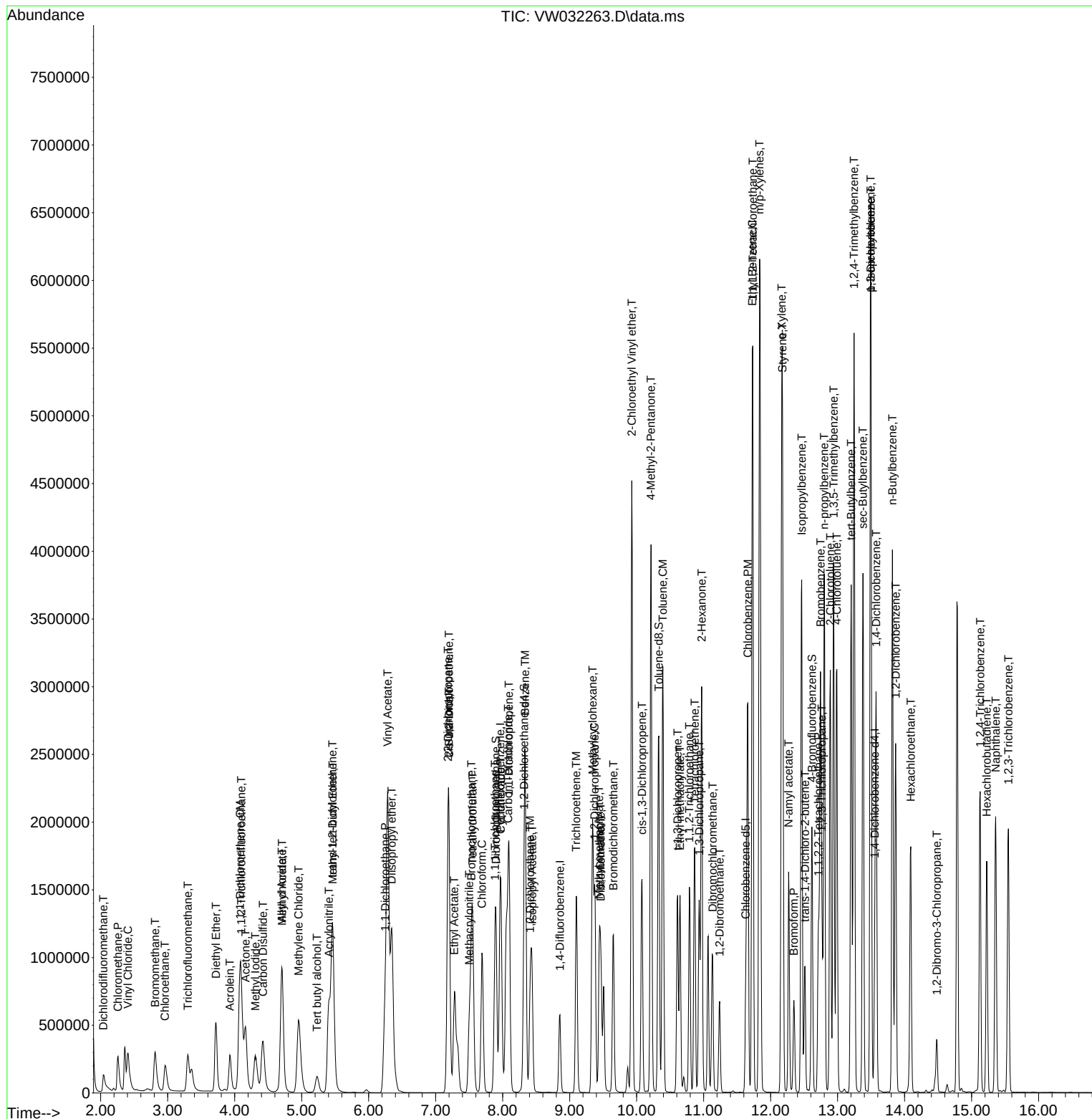
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032265.D
 Acq On : 25 Sep 2025 14:41
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ICVVW092525

Quant Time: Sep 26 07:14:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/29/2025
 Supervised By :Semsettin Yesilyurt 09/29/2025

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	275381	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	493743	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	451873	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	222449	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	192251	44.214	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	88.420%		
35) Dibromofluoromethane	7.898	113	160415	45.177	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	90.360%		
50) Toluene-d8	10.324	98	599404	46.839	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	93.680%		
62) 4-Bromofluorobenzene	12.617	95	224886	46.588	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	93.180%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.045	85	77331	40.645	ug/l	97
3) Chloromethane	2.253	50	115143	42.288	ug/l	93
4) Vinyl Chloride	2.405	62	142880	44.912	ug/l	99
5) Bromomethane	2.820	94	99519	45.811	ug/l	94
6) Chloroethane	2.972	64	98382	45.637	ug/l	98
7) Trichlorofluoromethane	3.301	101	101896	42.509	ug/l	100
8) Diethyl Ether	3.716	74	98989	43.674	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.100	101	138798	45.364	ug/l	98
10) Methyl Iodide	4.313	142	192131	46.427	ug/l	97
11) Tert butyl alcohol	5.216	59	70266	232.801	ug/l	99
12) 1,1-Dichloroethene	4.082	96	147736	45.171	ug/l	96
13) Acrolein	3.929	56	118579	220.732	ug/l	94
14) Allyl chloride	4.703	41	238823	47.051	ug/l	99
15) Acrylonitrile	5.398	53	268385	229.914	ug/l	100
16) Acetone	4.161	43	275365	246.593	ug/l	99
17) Carbon Disulfide	4.417	76	341149	45.366	ug/l	99
18) Methyl Acetate	4.703	43	197694	51.476	ug/l	98
19) Methyl tert-butyl Ether	5.459	73	303552	50.070	ug/l	98
20) Methylene Chloride	4.947	84	175238	42.256	ug/l	98
21) trans-1,2-Dichloroethene	5.453	96	162872	46.181	ug/l	91
22) Diisopropyl ether	6.343	45	540578	47.929	ug/l	97
23) Vinyl Acetate	6.282	43	1729901	238.412	ug/l	99
24) 1,1-Dichloroethane	6.240	63	327611	46.013	ug/l	99
25) 2-Butanone	7.191	43	380974	244.766	ug/l	96
26) 2,2-Dichloropropane	7.191	77	165803	47.257	ug/l	99
27) cis-1,2-Dichloroethene	7.191	96	203186	46.321	ug/l	98
28) Bromochloromethane	7.532	49	157473	46.350	ug/l #	98
29) Tetrahydrofuran	7.551	42	235105	232.669	ug/l	99
30) Chloroform	7.691	83	338340	45.544	ug/l	96
31) Cyclohexane	7.971	56	242682	43.225	ug/l	96
32) 1,1,1-Trichloroethane	7.886	97	230793	46.116	ug/l	99
36) 1,1-Dichloropropene	8.093	75	227191	47.457	ug/l	100
37) Ethyl Acetate	7.270	43	148163	46.666	ug/l	99
38) Carbon Tetrachloride	8.081	117	211869	47.040	ug/l	98
39) Methylcyclohexane	9.343	83	268585	48.487	ug/l	96
40) Benzene	8.331	78	707587	46.957	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032265.D
 Acq On : 25 Sep 2025 14:41
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ICVVW092525

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 09/29/2025
 Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 07:14:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.496	41	88790	48.829	ug/l	96
42) 1,2-Dichloroethane	8.410	62	234326	46.783	ug/l	99
43) Isopropyl Acetate	8.435	43	277465	48.820	ug/l	99
44) Trichloroethene	9.099	130	165536	46.998	ug/l	88
45) 1,2-Dichloropropane	9.373	63	179584	46.014	ug/l	99
46) Dibromomethane	9.465	93	111930	46.647	ug/l	98
47) Bromodichloromethane	9.648	83	254445	46.492	ug/l	100
48) Methyl methacrylate	9.440	41	134674	50.368	ug/l	98
49) 1,4-Dioxane	9.459	88	31181	970.255	ug/l #	96
51) 4-Methyl-2-Pentanone	10.215	43	818368	242.856	ug/l	99
52) Toluene	10.391	92	453815	48.589	ug/l	97
53) t-1,3-Dichloropropene	10.605	75	251526	50.162	ug/l	99
54) cis-1,3-Dichloropropene	10.074	75	282634	48.823	ug/l	99
55) 1,1,2-Trichloroethane	10.788	97	150225	45.866	ug/l	97
56) Ethyl methacrylate	10.648	69	217909	50.508	ug/l	98
57) 1,3-Dichloropropane	10.934	76	267442	47.265	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.928	63	630192	266.090	ug/l	99
59) 2-Hexanone	10.971	43	580772	252.380	ug/l	99
60) Dibromochloromethane	11.129	129	168649	46.885	ug/l	97
61) 1,2-Dibromoethane	11.233	107	146339	47.160	ug/l	96
64) Tetrachloroethene	10.867	164	135242	49.112	ug/l	95
65) Chlorobenzene	11.660	112	499921	48.030	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.727	131	163293	49.606	ug/l	97
67) Ethyl Benzene	11.733	91	856675	50.283	ug/l	100
68) m/p-Xylenes	11.836	106	661932	101.354	ug/l	94
69) o-Xylene	12.166	106	311812	50.802	ug/l	99
70) Styrene	12.178	104	561475	52.165	ug/l	99
71) Bromoform	12.348	173	92649	48.298	ug/l #	96
73) Isopropylbenzene	12.464	105	813069	52.514	ug/l	98
74) N-amyl acetate	12.269	43	250576	51.392	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.714	83	198553	48.912	ug/l	100
76) 1,2,3-Trichloropropane	12.763	75	146151m	47.756	ug/l	
77) Bromobenzene	12.745	156	187660	49.278	ug/l	91
78) n-propylbenzene	12.800	91	1000306	51.435	ug/l	99
79) 2-Chlorotoluene	12.891	91	602382	51.132	ug/l	99
80) 1,3,5-Trimethylbenzene	12.940	105	673147	50.853	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.513	75	60514	51.360	ug/l	99
82) 4-Chlorotoluene	12.982	91	637484	51.201	ug/l	99
83) tert-Butylbenzene	13.196	119	576966	52.118	ug/l	96
84) 1,2,4-Trimethylbenzene	13.245	105	689694	51.317	ug/l	99
85) sec-Butylbenzene	13.379	105	883354	53.137	ug/l	99
86) p-Isopropyltoluene	13.495	119	738513	53.640	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	369709	49.081	ug/l	99
88) 1,4-Dichlorobenzene	13.574	146	385587	50.107	ug/l	94
89) n-Butylbenzene	13.818	91	717557	51.933	ug/l	98
90) Hexachloroethane	14.092	117	127284	49.603	ug/l	100
91) 1,2-Dichlorobenzene	13.866	146	338162	47.990	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.482	75	33822	48.711	ug/l	96
93) 1,2,4-Trichlorobenzene	15.128	180	208974	49.989	ug/l	99
94) Hexachlorobutadiene	15.226	225	92899	48.387	ug/l	87
95) Naphthalene	15.360	128	524950	52.320	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	198272	51.008	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
Data File : VW032265.D
Acq On : 25 Sep 2025 14:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVWVW092525

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 07:14:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 2025
Response via : Initial Calibration

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

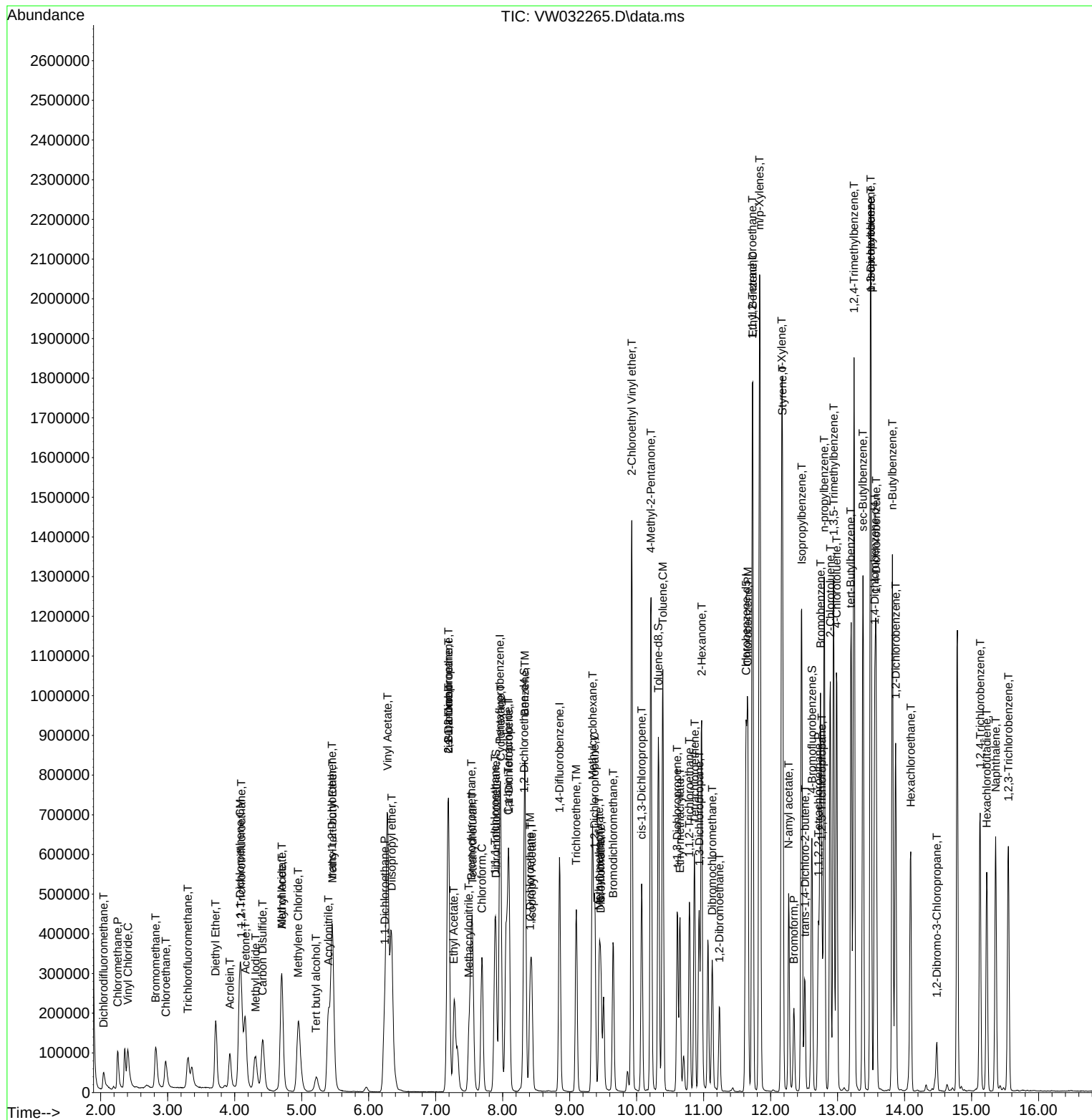
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032265.D
 Acq On : 25 Sep 2025 14:41
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ICVVW092525

Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 09/29/2025
 Supervised By : Semsettin Yesilyurt 09/29/2025

Quant Time: Sep 26 07:14:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032265.D
 Acq On : 25 Sep 2025 14:41
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
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Instrument :
 MSVOA_W
 ClientSampleId :
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Quant Time: Sep 26 07:14:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 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	105	0.00
2 T	Dichlorodifluoromethane	0.345	0.281	18.6	99	0.00
3 P	Chloromethane	0.494	0.418	15.4	103	0.00
4 C	Vinyl Chloride	0.578	0.519	10.2#	101	0.00
5 T	Bromomethane	0.394	0.361	8.4	103	0.00
6 T	Chloroethane	0.391	0.357	8.7	104	0.00
7 T	Trichlorofluoromethane	0.435	0.370	14.9	101	0.00
8 T	Diethyl Ether	0.412	0.359	12.9	102	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.556	0.504	9.4	100	0.00
10 T	Methyl Iodide	0.751	0.698	7.1	103	0.01
11 T	Tert butyl alcohol	0.055	0.051	7.3	117	0.00
12 CM	1,1-Dichloroethene	0.594	0.536	9.8#	102	0.00
13 T	Acrolein	0.098	0.086	12.2	100	0.00
14 T	Allyl chloride	0.922	0.867	6.0	103	0.00
15 T	Acrylonitrile	0.212	0.195	8.0	108	0.00
16 T	Acetone	0.203	0.200	1.5	128	0.00
17 T	Carbon Disulfide	1.365	1.239	9.2	103	0.00
18 T	Methyl Acetate	0.697	0.718	-3.0	102	0.00
19 T	Methyl tert-butyl Ether	1.101	1.102	-0.1	108	0.00
20 T	Methylene Chloride	0.991	0.636	35.8#	89	0.00
21 T	trans-1,2-Dichloroethene	0.640	0.591	7.7	102	0.00
22 T	Diisopropyl ether	2.048	1.963	4.2	102	0.00
23 T	Vinyl Acetate	1.317	1.256	4.6	108	0.00
24 P	1,1-Dichloroethane	1.293	1.190	8.0	101	0.00
25 T	2-Butanone	0.283	0.277	2.1	115	0.00
26 T	2,2-Dichloropropane	0.637	0.602	5.5	105	0.00
27 T	cis-1,2-Dichloroethene	0.796	0.738	7.3	101	0.00
28 T	Bromochloromethane	0.617	0.572	7.3	101	0.00
29 T	Tetrahydrofuran	0.183	0.171	6.6	108	0.00
30 C	Chloroform	1.349	1.229	8.9#	100	0.00
31 T	Cyclohexane	1.019	0.881	13.5	101	0.00
32 T	1,1,1-Trichloroethane	0.909	0.838	7.8	100	0.00
33 S	1,2-Dichloroethane-d4	0.789	0.698	11.5	103	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	107	0.00
35 S	Dibromofluoromethane	0.360	0.325	9.7	100	0.00
36 T	1,1-Dichloropropene	0.485	0.460	5.2	102	0.00
37 T	Ethyl Acetate	0.322	0.300	6.8	107	0.00
38 T	Carbon Tetrachloride	0.456	0.429	5.9	103	0.00
39 T	Methylcyclohexane	0.561	0.544	3.0	102	0.00
40 TM	Benzene	1.526	1.433	6.1	101	0.00
41 T	Methacrylonitrile	0.184	0.180	2.2	109	0.00
42 TM	1,2-Dichloroethane	0.507	0.475	6.3	105	0.00
43 T	Isopropyl Acetate	0.576	0.562	2.4	110	0.00
44 TM	Trichloroethene	0.357	0.335	6.2	104	0.00
45 C	1,2-Dichloropropane	0.395	0.364	7.8#	99	0.00
46 T	Dibromomethane	0.243	0.227	6.6	103	0.00
47 T	Bromodichloromethane	0.554	0.515	7.0	99	0.00
48 T	Methyl methacrylate	0.271	0.273	-0.7	109	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032265.D
 Acq On : 25 Sep 2025 14:41
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ICVVW092525

Quant Time: Sep 26 07:14:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 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	104	0.00
50 S	Toluene-d8	1.296	1.214	6.3	104	0.00
51 T	4-Methyl-2-Pentanone	0.341	0.331	2.9	109	0.00
52 CM	Toluene	0.946	0.919	2.9#	105	0.00
53 T	t-1,3-Dichloropropene	0.508	0.509	-0.2	107	0.00
54 T	cis-1,3-Dichloropropene	0.586	0.572	2.4	104	0.00
55 T	1,1,2-Trichloroethane	0.332	0.304	8.4	103	0.00
56 T	Ethyl methacrylate	0.437	0.441	-0.9	108	0.00
57 T	1,3-Dichloropropane	0.573	0.542	5.4	102	0.00
58 T	2-Chloroethyl Vinyl ether	0.240	0.255	-6.3	108	0.00
59 T	2-Hexanone	0.233	0.235	-0.9	112	0.00
60 T	Dibromochloromethane	0.364	0.342	6.0	99	0.00
61 T	1,2-Dibromoethane	0.314	0.296	5.7	103	0.00
62 S	4-Bromofluorobenzene	0.489	0.455	7.0	101	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
64 T	Tetrachloroethene	0.305	0.299	2.0	101	0.00
65 PM	Chlorobenzene	1.152	1.106	4.0	100	0.00
66 T	1,1,1,2-Tetrachloroethane	0.364	0.361	0.8	102	0.00
67 C	Ethyl Benzene	1.885	1.896	-0.6#	103	0.00
68 T	m/p-Xylenes	0.723	0.732	-1.2	104	0.00
69 T	o-Xylene	0.679	0.690	-1.6	100	0.00
70 T	Styrene	1.191	1.243	-4.4	102	0.00
71 P	Bromoform	0.212	0.205	3.3	99	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
73 T	Isopropylbenzene	3.480	3.655	-5.0	103	0.00
74 T	N-amyl acetate	1.096	1.126	-2.7	108	0.00
75 P	1,1,2,2-Tetrachloroethane	0.912	0.893	2.1	105	0.00
76 T	1,2,3-Trichloropropane	0.688	0.657	4.5	103	0.00
77 T	Bromobenzene	0.856	0.844	1.4	96	0.00
78 T	n-propylbenzene	4.371	4.497	-2.9	100	0.00
79 T	2-Chlorotoluene	2.648	2.708	-2.3	102	0.00
80 T	1,3,5-Trimethylbenzene	2.975	3.026	-1.7	99	0.00
81 T	trans-1,4-Dichloro-2-butene	0.265	0.272	-2.6	105	0.00
82 T	4-Chlorotoluene	2.799	2.866	-2.4	102	0.00
83 T	tert-Butylbenzene	2.488	2.594	-4.3	103	0.00
84 T	1,2,4-Trimethylbenzene	3.021	3.100	-2.6	101	0.00
85 T	sec-Butylbenzene	3.737	3.971	-6.3	104	0.00
86 T	p-Isopropyltoluene	3.095	3.320	-7.3	102	0.00
87 T	1,3-Dichlorobenzene	1.693	1.662	1.8	100	0.00
88 T	1,4-Dichlorobenzene	1.730	1.733	-0.2	108	0.00
89 T	n-Butylbenzene	3.106	3.226	-3.9	102	0.00
90 T	Hexachloroethane	0.577	0.572	0.9	104	0.00
91 T	1,2-Dichlorobenzene	1.584	1.520	4.0	97	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.156	0.152	2.6	110	0.00
93 T	1,2,4-Trichlorobenzene	0.940	0.939	0.1	102	0.00
94 T	Hexachlorobutadiene	0.432	0.418	3.2	111	0.00
95 T	Naphthalene	2.255	2.360	-4.7	106	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
Data File : VW032265.D
Acq On : 25 Sep 2025 14:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVWVW092525

Quant Time: Sep 26 07:14:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 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	0.891	-1.9	104	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032265.D
 Acq On : 25 Sep 2025 14:41
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ICVVW092525

Quant Time: Sep 26 07:14:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 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	105	0.00
2 T	Dichlorodifluoromethane	50.000	40.645	18.7	99	0.00
3 P	Chloromethane	50.000	42.288	15.4	103	0.00
4 C	Vinyl Chloride	50.000	44.912	10.2#	101	0.00
5 T	Bromomethane	50.000	45.811	8.4	103	0.00
6 T	Chloroethane	50.000	45.637	8.7	104	0.00
7 T	Trichlorofluoromethane	50.000	42.509	15.0	101	0.00
8 T	Diethyl Ether	50.000	43.674	12.7	102	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	45.364	9.3	100	0.00
10 T	Methyl Iodide	50.000	46.427	7.1	103	0.01
11 T	Tert butyl alcohol	250.000	232.801	6.9	117	0.00
12 CM	1,1-Dichloroethene	50.000	45.171	9.7#	102	0.00
13 T	Acrolein	250.000	220.732	11.7	100	0.00
14 T	Allyl chloride	50.000	47.051	5.9	103	0.00
15 T	Acrylonitrile	250.000	229.914	8.0	108	0.00
16 T	Acetone	250.000	246.593	1.4	128	0.00
17 T	Carbon Disulfide	50.000	45.366	9.3	103	0.00
18 T	Methyl Acetate	50.000	51.476	-3.0	102	0.00
19 T	Methyl tert-butyl Ether	50.000	50.070	-0.1	108	0.00
20 T	Methylene Chloride	50.000	42.256	15.5	89	0.00
21 T	trans-1,2-Dichloroethene	50.000	46.181	7.6	102	0.00
22 T	Diisopropyl ether	50.000	47.929	4.1	102	0.00
23 T	Vinyl Acetate	250.000	238.412	4.6	108	0.00
24 P	1,1-Dichloroethane	50.000	46.013	8.0	101	0.00
25 T	2-Butanone	250.000	244.766	2.1	115	0.00
26 T	2,2-Dichloropropane	50.000	47.257	5.5	105	0.00
27 T	cis-1,2-Dichloroethene	50.000	46.321	7.4	101	0.00
28 T	Bromochloromethane	50.000	46.350	7.3	101	0.00
29 T	Tetrahydrofuran	250.000	232.669	6.9	108	0.00
30 C	Chloroform	50.000	45.544	8.9#	100	0.00
31 T	Cyclohexane	50.000	43.225	13.5	101	0.00
32 T	1,1,1-Trichloroethane	50.000	46.116	7.8	100	0.00
33 S	1,2-Dichloroethane-d4	50.000	44.214	11.6	103	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	107	0.00
35 S	Dibromofluoromethane	50.000	45.177	9.6	100	0.00
36 T	1,1-Dichloropropene	50.000	47.457	5.1	102	0.00
37 T	Ethyl Acetate	50.000	46.666	6.7	107	0.00
38 T	Carbon Tetrachloride	50.000	47.040	5.9	103	0.00
39 T	Methylcyclohexane	50.000	48.487	3.0	102	0.00
40 TM	Benzene	50.000	46.957	6.1	101	0.00
41 T	Methacrylonitrile	50.000	48.829	2.3	109	0.00
42 TM	1,2-Dichloroethane	50.000	46.783	6.4	105	0.00
43 T	Isopropyl Acetate	50.000	48.820	2.4	110	0.00
44 TM	Trichloroethene	50.000	46.998	6.0	104	0.00
45 C	1,2-Dichloropropane	50.000	46.014	8.0#	99	0.00
46 T	Dibromomethane	50.000	46.647	6.7	103	0.00
47 T	Bromodichloromethane	50.000	46.492	7.0	99	0.00
48 T	Methyl methacrylate	50.000	50.368	-0.7	109	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
 Data File : VW032265.D
 Acq On : 25 Sep 2025 14:41
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ICVVW092525

Quant Time: Sep 26 07:14:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 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	970.255	3.0	104	0.00
50 S	Toluene-d8	50.000	46.839	6.3	104	0.00
51 T	4-Methyl-2-Pentanone	250.000	242.856	2.9	109	0.00
52 CM	Toluene	50.000	48.589	2.8#	105	0.00
53 T	t-1,3-Dichloropropene	50.000	50.162	-0.3	107	0.00
54 T	cis-1,3-Dichloropropene	50.000	48.823	2.4	104	0.00
55 T	1,1,2-Trichloroethane	50.000	45.866	8.3	103	0.00
56 T	Ethyl methacrylate	50.000	50.508	-1.0	108	0.00
57 T	1,3-Dichloropropane	50.000	47.265	5.5	102	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	266.090	-6.4	108	0.00
59 T	2-Hexanone	250.000	252.380	-1.0	112	0.00
60 T	Dibromochloromethane	50.000	46.885	6.2	99	0.00
61 T	1,2-Dibromoethane	50.000	47.160	5.7	103	0.00
62 S	4-Bromofluorobenzene	50.000	46.588	6.8	101	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	102	0.00
64 T	Tetrachloroethene	50.000	49.112	1.8	101	0.00
65 PM	Chlorobenzene	50.000	48.030	3.9	100	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.606	0.8	102	0.00
67 C	Ethyl Benzene	50.000	50.283	-0.6#	103	0.00
68 T	m/p-Xylenes	100.000	101.354	-1.4	104	0.00
69 T	o-Xylene	50.000	50.802	-1.6	100	0.00
70 T	Styrene	50.000	52.165	-4.3	102	0.00
71 P	Bromoform	50.000	48.298	3.4	99	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	104	0.00
73 T	Isopropylbenzene	50.000	52.514	-5.0	103	0.00
74 T	N-ethyl acetate	50.000	51.392	-2.8	108	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.912	2.2	105	0.00
76 T	1,2,3-Trichloropropane	50.000	47.756	4.5	103	0.00
77 T	Bromobenzene	50.000	49.278	1.4	96	0.00
78 T	n-propylbenzene	50.000	51.435	-2.9	100	0.00
79 T	2-Chlorotoluene	50.000	51.132	-2.3	102	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.853	-1.7	99	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	51.360	-2.7	105	0.00
82 T	4-Chlorotoluene	50.000	51.201	-2.4	102	0.00
83 T	tert-Butylbenzene	50.000	52.118	-4.2	103	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.317	-2.6	101	0.00
85 T	sec-Butylbenzene	50.000	53.137	-6.3	104	0.00
86 T	p-Isopropyltoluene	50.000	53.640	-7.3	102	0.00
87 T	1,3-Dichlorobenzene	50.000	49.081	1.8	100	0.00
88 T	1,4-Dichlorobenzene	50.000	50.107	-0.2	108	0.00
89 T	n-Butylbenzene	50.000	51.933	-3.9	102	0.00
90 T	Hexachloroethane	50.000	49.603	0.8	104	0.00
91 T	1,2-Dichlorobenzene	50.000	47.990	4.0	97	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	48.711	2.6	110	0.00
93 T	1,2,4-Trichlorobenzene	50.000	49.989	0.0	102	0.00
94 T	Hexachlorobutadiene	50.000	48.387	3.2	111	0.00
95 T	Naphthalene	50.000	52.320	-4.6	106	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
Data File : VW032265.D
Acq On : 25 Sep 2025 14:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVWVW092525

Quant Time: Sep 26 07:14:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.008	-2.0	104	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>YANN01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3238</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>09/29/2025</u> <u>09:18</u>
Lab File ID:	<u>VW032288.D</u>	Init. Calib. Date(s):	<u>09/25/2025</u> <u>09/25/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>10:45</u> <u>13:08</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.345	0.282		-18.26	20
Chloromethane	0.494	0.409	0.1	-17.21	20
Vinyl Chloride	0.578	0.509		-11.94	20
Bromomethane	0.394	0.342		-13.2	20
Chloroethane	0.391	0.341		-12.79	20
Trichlorofluoromethane	0.435	0.347		-20.23	20
1,1,2-Trichlorotrifluoroethane	0.556	0.510		-8.27	20
1,1-Dichloroethene	0.594	0.549		-7.58	20
Acetone	0.203	0.181		-10.84	20
Carbon Disulfide	1.365	1.266		-7.25	20
Methyl tert-butyl Ether	1.101	1.093		-0.73	20
Methyl Acetate	0.697	0.827		18.65	20
Methylene Chloride	0.991	0.681		-31.28	20
trans-1,2-Dichloroethene	0.640	0.602		-5.94	20
1,1-Dichloroethane	1.293	1.211	0.1	-6.34	20
Cyclohexane	1.019	0.935		-8.24	20
2-Butanone	0.283	0.278		-1.77	20
Carbon Tetrachloride	0.456	0.468		2.63	20
cis-1,2-Dichloroethene	0.796	0.751		-5.65	20
Bromochloromethane	0.617	0.580		-6	20
Chloroform	1.349	1.253		-7.12	20
1,1,1-Trichloroethane	0.909	0.869		-4.4	20
Methylcyclohexane	0.561	0.572		1.96	20
Benzene	1.526	1.524		-0.13	20
1,2-Dichloroethane	0.507	0.494		-2.56	20
Trichloroethene	0.357	0.347		-2.8	20
1,2-Dichloropropane	0.395	0.391		-1.01	20
Bromodichloromethane	0.554	0.565		1.99	20
4-Methyl-2-Pentanone	0.341	0.363		6.45	20
Toluene	0.946	0.949		0.32	20
t-1,3-Dichloropropene	0.508	0.540		6.3	20
cis-1,3-Dichloropropene	0.586	0.610		4.1	20
1,1,2-Trichloroethane	0.332	0.319		-3.92	20
2-Hexanone	0.233	0.253		8.58	20
Dibromochloromethane	0.364	0.379		4.12	20
1,2-Dibromoethane	0.314	0.309		-1.59	20
Tetrachloroethene	0.305	0.306		0.33	20
Chlorobenzene	1.152	1.156	0.3	0.35	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>YANN01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3238</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>09/29/2025</u> <u>09:18</u>
Lab File ID:	<u>VW032288.D</u>	Init. Calib. Date(s):	<u>09/25/2025</u> <u>09/25/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>10:45</u> <u>13:08</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.885	2.025		7.43	20
m/p-Xylenes	0.723	0.759		4.98	20
o-Xylene	0.679	0.731		7.66	20
Styrene	1.191	1.300		9.15	20
Bromoform	0.212	0.232	0.1	9.43	20
Isopropylbenzene	3.480	3.642		4.66	20
1,1,2,2-Tetrachloroethane	0.912	0.904	0.3	-0.88	20
1,3-Dichlorobenzene	1.693	1.637		-3.31	20
1,4-Dichlorobenzene	1.730	1.732		0.12	20
1,2-Dichlorobenzene	1.584	1.589		0.32	20
1,2-Dibromo-3-Chloropropane	0.156	0.166		6.41	20
1,2,4-Trichlorobenzene	0.940	0.999		6.28	20
1,2,3-Trichlorobenzene	0.874	0.880		0.69	20
1,2-Dichloroethane-d4	0.789	0.707		-10.39	20
Dibromofluoromethane	0.360	0.340		-5.56	20
Toluene-d8	1.296	1.231		-5.01	20
4-Bromofluorobenzene	0.489	0.487		-0.41	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\VW092925\
 Data File : VW032288.D
 Acq On : 29 Sep 2025 09:18
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : Semsettin
 Yesilyurt

10/03/2025
 Supervised By : Mahesh
 Dadoda

Quant Time: Sep 30 02:29:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	268675	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	467141	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	421624	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	216076	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	189828	44.746	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	89.500%
35) Dibromofluoromethane	7.898	113	158830	47.277	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	94.560%
50) Toluene-d8	10.325	98	575073	47.496	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	95.000%
62) 4-Bromofluorobenzene	12.617	95	227412	49.794	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	99.580%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.046	85	75877	40.876	ug/l	100
3) Chloromethane	2.259	50	109875	41.361	ug/l	95
4) Vinyl Chloride	2.405	62	136837	44.086	ug/l	99
5) Bromomethane	2.826	94	91965	43.391	ug/l	92
6) Chloroethane	2.972	64	91616	43.559	ug/l	96
7) Trichlorofluoromethane	3.301	101	93341	39.912	ug/l	96
8) Diethyl Ether	3.722	74	96673	43.716	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.100	101	137054	45.912	ug/l	98
10) Methyl Iodide	4.314	142	188858	46.775	ug/l	99
11) Tert butyl alcohol	5.228	59	74772	253.914	ug/l	100
12) 1,1-Dichloroethene	4.082	96	147441	46.206	ug/l	97
13) Acrolein	3.929	56	89741	171.220	ug/l	98
14) Allyl chloride	4.698	41	239390	48.340	ug/l	99
15) Acrylonitrile	5.405	53	271860	238.703	ug/l	99
16) Acetone	4.161	43	242573	222.649	ug/l	99
17) Carbon Disulfide	4.417	76	340239	46.374	ug/l	99
18) Methyl Acetate	4.704	43	222255	59.315	ug/l	99
19) Methyl tert-butyl Ether	5.466	73	293604	49.638	ug/l	98
20) Methylene Chloride	4.954	84	183003	45.854	ug/l	98
21) trans-1,2-Dichloroethene	5.454	96	161722	47.000	ug/l	95
22) Diisopropyl ether	6.338	45	551529	50.120	ug/l	97
23) Vinyl Acetate	6.283	43	1749173	247.085	ug/l	98
24) 1,1-Dichloroethane	6.240	63	325437	46.849	ug/l	98
25) 2-Butanone	7.191	43	373319	245.835	ug/l	96
26) 2,2-Dichloropropane	7.185	77	168640	49.265	ug/l	99
27) cis-1,2-Dichloroethene	7.191	96	201703	47.131	ug/l	98
28) Bromochloromethane	7.526	49	155963	47.052	ug/l #	98
29) Tetrahydrofuran	7.551	42	247647	251.198	ug/l	98
30) Chloroform	7.685	83	336700	46.455	ug/l	91
31) Cyclohexane	7.971	56	251157	45.851	ug/l	96
32) 1,1,1-Trichloroethane	7.886	97	233427	47.806	ug/l	98
36) 1,1-Dichloropropene	8.093	75	229284	50.622	ug/l	99
37) Ethyl Acetate	7.270	43	151660	50.487	ug/l	100
38) Carbon Tetrachloride	8.081	117	218438	51.261	ug/l	98
39) Methylcyclohexane	9.343	83	267298	51.002	ug/l	98
40) Benzene	8.337	78	711714	49.920	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
 Data File : VW032288.D
 Acq On : 29 Sep 2025 09:18
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Semsettin

Yesilyurt

10/03/2025

Supervised By :Mahesh
Dadoda

10/03/2025

Quant Time: Sep 30 02:29:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.496	41	90924	52.850	ug/l	96
42) 1,2-Dichloroethane	8.410	62	230706	48.683	ug/l	100
43) Isopropyl Acetate	8.435	43	285674	53.127	ug/l	98
44) Trichloroethene	9.099	130	161959	48.601	ug/l	99
45) 1,2-Dichloropropane	9.374	63	182651	49.465	ug/l	98
46) Dibromomethane	9.465	93	110775	48.794	ug/l	99
47) Bromodichloromethane	9.648	83	264163	51.016	ug/l	98
48) Methyl methacrylate	9.441	41	135950	53.740	ug/l	98
49) 1,4-Dioxane	9.459	88	33030	1086.319	ug/l #	99
51) 4-Methyl-2-Pentanone	10.209	43	847818	265.923	ug/l	98
52) Toluene	10.392	92	443327	50.170	ug/l	100
53) t-1,3-Dichloropropene	10.605	75	252066	53.132	ug/l	97
54) cis-1,3-Dichloropropene	10.081	75	284928	52.022	ug/l	98
55) 1,1,2-Trichloroethane	10.788	97	149223	48.154	ug/l	95
56) Ethyl methacrylate	10.648	69	221823	54.343	ug/l	99
57) 1,3-Dichloropropane	10.934	76	263928	49.301	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.928	63	608876	271.730	ug/l	100
59) 2-Hexanone	10.971	43	590687	271.306	ug/l	98
60) Dibromochloromethane	11.129	129	176856	51.967	ug/l	99
61) 1,2-Dibromoethane	11.233	107	144351	49.168	ug/l	100
64) Tetrachloroethene	10.861	164	128984	50.200	ug/l #	91
65) Chlorobenzene	11.654	112	487313	50.177	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.727	131	163026	53.078	ug/l	99
67) Ethyl Benzene	11.727	91	853905	53.716	ug/l	99
68) m/p-Xylenes	11.837	106	639810	104.995	ug/l	98
69) o-Xylene	12.166	106	308080	53.795	ug/l	100
70) Styrene	12.178	104	548303	54.596	ug/l	99
71) Bromoform	12.349	173	98017	54.762	ug/l #	98
73) Isopropylbenzene	12.458	105	786889	52.322	ug/l	100
74) N-amyl acetate	12.269	43	259511	54.794	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.714	83	195317	49.534	ug/l	99
76) 1,2,3-Trichloropropane	12.763	75	144253m	48.526	ug/l	
77) Bromobenzene	12.745	156	184851	49.972	ug/l	90
78) n-propylbenzene	12.800	91	994588	52.650	ug/l	100
79) 2-Chlorotoluene	12.891	91	595261	52.018	ug/l	95
80) 1,3,5-Trimethylbenzene	12.940	105	689618	53.634	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.507	75	64829	56.645	ug/l	99
82) 4-Chlorotoluene	12.989	91	622181	51.445	ug/l	99
83) tert-Butylbenzene	13.202	119	579281	53.870	ug/l	96
84) 1,2,4-Trimethylbenzene	13.245	105	687968	52.698	ug/l	99
85) sec-Butylbenzene	13.379	105	861115	53.327	ug/l	100
86) p-Isopropyltoluene	13.489	119	716321	53.563	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	353632	48.331	ug/l	97
88) 1,4-Dichlorobenzene	13.574	146	374202	50.062	ug/l	95
89) n-Butylbenzene	13.818	91	702793	52.364	ug/l	99
90) Hexachloroethane	14.086	117	134713	54.047	ug/l	96
91) 1,2-Dichlorobenzene	13.867	146	343285	50.154	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.476	75	35804	53.086	ug/l	94
93) 1,2,4-Trichlorobenzene	15.129	180	215775	53.138	ug/l	90
94) Hexachlorobutadiene	15.226	225	99085	53.131	ug/l	86
95) Naphthalene	15.360	128	520310	53.387	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	190054	50.335	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
Data File : VW032288.D
Acq On : 29 Sep 2025 09:18
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

10/03/2025
Supervised By :Mahesh
Dadoda

10/03/2025

Quant Time: Sep 30 02:29:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 2025
Response via : Initial Calibration

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

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
Data File : VW032288.D
Acq On    : 29 Sep 2025  09:18
Operator  : SY/MD
Sample    : VSTDCCC050
Misc      : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial  : 2    Sample Multiplier: 1
```

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

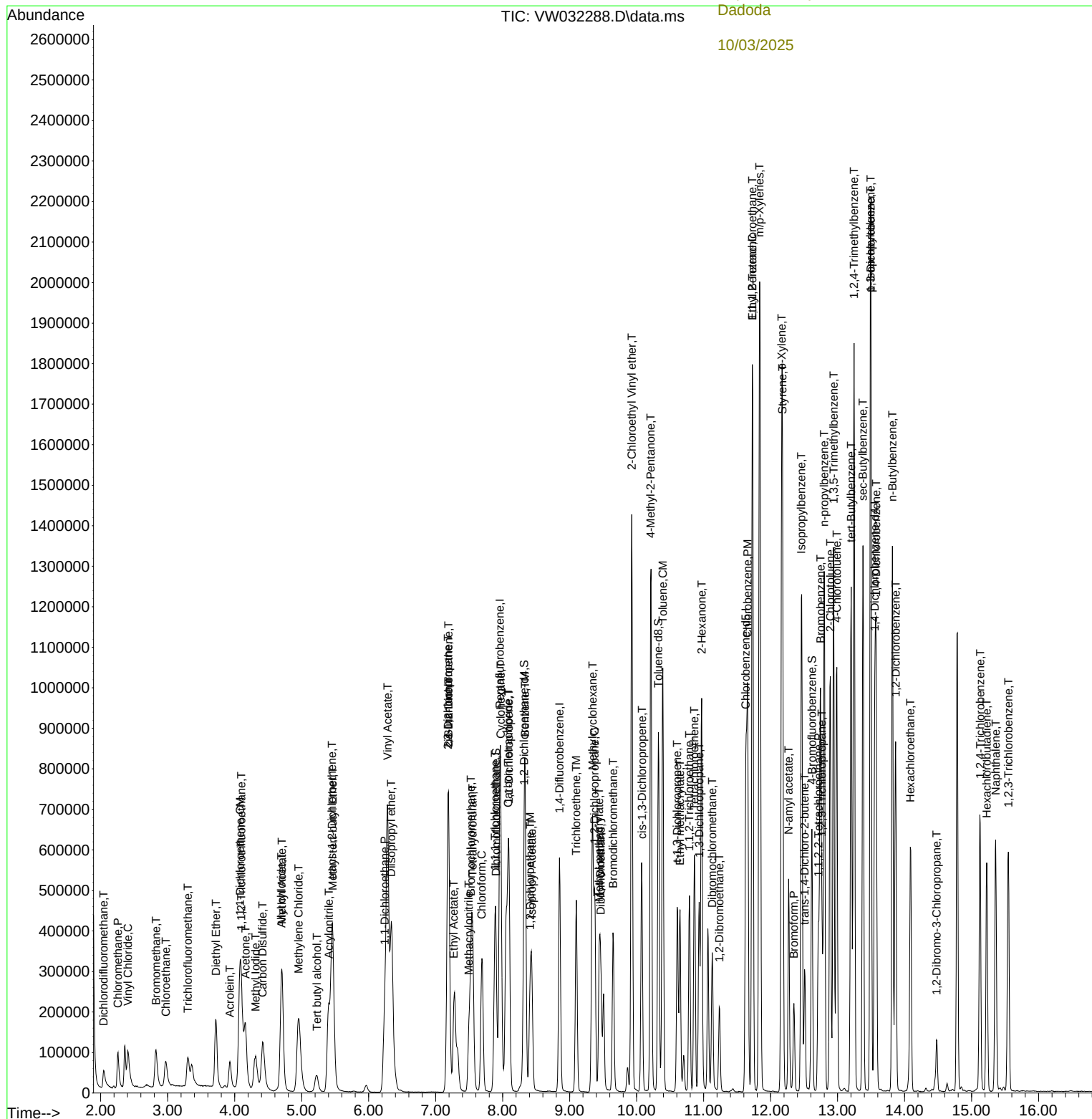
Quant Time: Sep 30 02:29:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 2025
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Semsettin
Yesilyurt

10/03/2025
Supervised By :Mahesh
Dadoda

10/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
 Data File : VW032288.D
 Acq On : 29 Sep 2025 09:18
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 LabSampleId :
 VSTDCCC050

Quant Time: Sep 30 02:29:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 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	102	0.00
2 T	Dichlorodifluoromethane	0.345	0.282	18.3	98	0.00
3 P	Chloromethane	0.494	0.409	17.2	99	0.00
4 C	Vinyl Chloride	0.578	0.509	11.9#	97	0.00
5 T	Bromomethane	0.394	0.342	13.2	95	0.00
6 T	Chloroethane	0.391	0.341	12.8	97	0.00
7 T	Trichlorofluoromethane	0.435	0.347	20.2	92	0.00
8 T	Diethyl Ether	0.412	0.360	12.6	100	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.556	0.510	8.3	99	0.00
10 T	Methyl Iodide	0.751	0.703	6.4	101	0.01
11 T	Tert butyl alcohol	0.055	0.056	-1.8	125	0.01
12 CM	1,1-Dichloroethene	0.594	0.549	7.6#	102	0.00
13 T	Acrolein	0.098	0.067	31.6#	75	0.00
14 T	Allyl chloride	0.922	0.891	3.4	103	0.00
15 T	Acrylonitrile	0.212	0.202	4.7	109	0.00
16 T	Acetone	0.203	0.181	10.8	113	0.00
17 T	Carbon Disulfide	1.365	1.266	7.3	103	0.00
18 T	Methyl Acetate	0.697	0.827	-18.7	114	0.00
19 T	Methyl tert-butyl Ether	1.101	1.093	0.7	104	0.00
20 T	Methylene Chloride	0.991	0.681	31.3#	93	0.00
21 T	trans-1,2-Dichloroethene	0.640	0.602	5.9	101	0.00
22 T	Diisopropyl ether	2.048	2.053	-0.2	105	0.00
23 T	Vinyl Acetate	1.317	1.302	1.1	109	0.00
24 P	1,1-Dichloroethane	1.293	1.211	6.3	100	0.00
25 T	2-Butanone	0.283	0.278	1.8	112	0.00
26 T	2,2-Dichloropropane	0.637	0.628	1.4	107	0.00
27 T	cis-1,2-Dichloroethene	0.796	0.751	5.7	100	0.00
28 T	Bromochloromethane	0.617	0.580	6.0	100	0.00
29 T	Tetrahydrofuran	0.183	0.184	-0.5	113	0.00
30 C	Chloroform	1.349	1.253	7.1#	99	0.00
31 T	Cyclohexane	1.019	0.935	8.2	105	0.00
32 T	1,1,1-Trichloroethane	0.909	0.869	4.4	101	0.00
33 S	1,2-Dichloroethane-d4	0.789	0.707	10.4	102	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	101	0.00
35 S	Dibromofluoromethane	0.360	0.340	5.6	99	0.00
36 T	1,1-Dichloropropene	0.485	0.491	-1.2	103	0.00
37 T	Ethyl Acetate	0.322	0.325	-0.9	110	0.00
38 T	Carbon Tetrachloride	0.456	0.468	-2.6	106	0.00
39 T	Methylcyclohexane	0.561	0.572	-2.0	102	0.00
40 TM	Benzene	1.526	1.524	0.1	102	0.00
41 T	Methacrylonitrile	0.184	0.195	-6.0	112	0.00
42 TM	1,2-Dichloroethane	0.507	0.494	2.6	103	0.00
43 T	Isopropyl Acetate	0.576	0.612	-6.3	113	0.00
44 TM	Trichloroethene	0.357	0.347	2.8	102	0.00
45 C	1,2-Dichloropropane	0.395	0.391	1.0#	101	0.00
46 T	Dibromomethane	0.243	0.237	2.5	102	0.00
47 T	Bromodichloromethane	0.554	0.565	-2.0	103	0.00
48 T	Methyl methacrylate	0.271	0.291	-7.4	110	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
 Data File : VW032288.D
 Acq On : 29 Sep 2025 09:18
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 LabSampleId :
 VSTDCCC050

Quant Time: Sep 30 02:29:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 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	0.004	-33.3#	110	0.00
50 S	Toluene-d8	1.296	1.231	5.0	100	0.00
51 T	4-Methyl-2-Pentanone	0.341	0.363	-6.5	113	0.00
52 CM	Toluene	0.946	0.949	-0.3#	103	0.00
53 T	t-1,3-Dichloropropene	0.508	0.540	-6.3	108	0.00
54 T	cis-1,3-Dichloropropene	0.586	0.610	-4.1	105	0.00
55 T	1,1,2-Trichloroethane	0.332	0.319	3.9	102	0.00
56 T	Ethyl methacrylate	0.437	0.475	-8.7	110	0.00
57 T	1,3-Dichloropropane	0.573	0.565	1.4	101	0.00
58 T	2-Chloroethyl Vinyl ether	0.240	0.261	-8.8	105	0.00
59 T	2-Hexanone	0.233	0.253	-8.6	114	0.00
60 T	Dibromochloromethane	0.364	0.379	-4.1	104	0.00
61 T	1,2-Dibromoethane	0.314	0.309	1.6	102	0.00
62 S	4-Bromofluorobenzene	0.489	0.487	0.4	102	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
64 T	Tetrachloroethene	0.305	0.306	-0.3	97	0.00
65 PM	Chlorobenzene	1.152	1.156	-0.3	98	0.00
66 T	1,1,1,2-Tetrachloroethane	0.364	0.387	-6.3	102	0.00
67 C	Ethyl Benzene	1.885	2.025	-7.4#	102	0.00
68 T	m/p-Xylenes	0.723	0.759	-5.0	100	0.00
69 T	o-Xylene	0.679	0.731	-7.7	99	0.00
70 T	Styrene	1.191	1.300	-9.2	99	0.00
71 P	Bromoform	0.212	0.232	-9.4	105	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
73 T	Isopropylbenzene	3.480	3.642	-4.7	99	0.00
74 T	N-amyl acetate	1.096	1.201	-9.6	112	0.00
75 P	1,1,2,2-Tetrachloroethane	0.912	0.904	0.9	103	0.00
76 T	1,2,3-Trichloropropane	0.688	0.668	2.9	102	0.00
77 T	Bromobenzene	0.856	0.855	0.1	94	0.00
78 T	n-propylbenzene	4.371	4.603	-5.3	99	0.00
79 T	2-Chlorotoluene	2.648	2.755	-4.0	100	0.00
80 T	1,3,5-Trimethylbenzene	2.975	3.192	-7.3	102	0.00
81 T	trans-1,4-Dichloro-2-butene	0.265	0.300	-13.2	112	0.00
82 T	4-Chlorotoluene	2.799	2.879	-2.9	99	0.00
83 T	tert-Butylbenzene	2.488	2.681	-7.8	104	0.00
84 T	1,2,4-Trimethylbenzene	3.021	3.184	-5.4	101	0.00
85 T	sec-Butylbenzene	3.737	3.985	-6.6	101	0.00
86 T	p-Isopropyltoluene	3.095	3.315	-7.1	99	0.00
87 T	1,3-Dichlorobenzene	1.693	1.637	3.3	95	0.00
88 T	1,4-Dichlorobenzene	1.730	1.732	-0.1	105	0.00
89 T	n-Butylbenzene	3.106	3.253	-4.7	100	0.00
90 T	Hexachloroethane	0.577	0.623	-8.0	110	0.00
91 T	1,2-Dichlorobenzene	1.584	1.589	-0.3	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.156	0.166	-6.4	116	0.00
93 T	1,2,4-Trichlorobenzene	0.940	0.999	-6.3	105	0.00
94 T	Hexachlorobutadiene	0.432	0.459	-6.3	119	0.00
95 T	Naphthalene	2.255	2.408	-6.8	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
Data File : VW032288.D
Acq On : 29 Sep 2025 09:18
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Sep 30 02:29:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 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	0.880	-0.7	100	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
 Data File : VW032288.D
 Acq On : 29 Sep 2025 09:18
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 LabSampleId :
 VSTDCCC050

Quant Time: Sep 30 02:29:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 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	102	0.00
2 T	Dichlorodifluoromethane	50.000	40.876	18.2	98	0.00
3 P	Chloromethane	50.000	41.361	17.3	99	0.00
4 C	Vinyl Chloride	50.000	44.086	11.8#	97	0.00
5 T	Bromomethane	50.000	43.391	13.2	95	0.00
6 T	Chloroethane	50.000	43.559	12.9	97	0.00
7 T	Trichlorofluoromethane	50.000	39.912	20.2	92	0.00
8 T	Diethyl Ether	50.000	43.716	12.6	100	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	45.912	8.2	99	0.00
10 T	Methyl Iodide	50.000	46.775	6.5	101	0.01
11 T	Tert butyl alcohol	250.000	253.914	-1.6	125	0.01
12 CM	1,1-Dichloroethene	50.000	46.206	7.6#	102	0.00
13 T	Acrolein	250.000	171.220	31.5#	75	0.00
14 T	Allyl chloride	50.000	48.340	3.3	103	0.00
15 T	Acrylonitrile	250.000	238.703	4.5	109	0.00
16 T	Acetone	250.000	222.649	10.9	113	0.00
17 T	Carbon Disulfide	50.000	46.374	7.3	103	0.00
18 T	Methyl Acetate	50.000	59.315	-18.6	114	0.00
19 T	Methyl tert-butyl Ether	50.000	49.638	0.7	104	0.00
20 T	Methylene Chloride	50.000	45.854	8.3	93	0.00
21 T	trans-1,2-Dichloroethene	50.000	47.000	6.0	101	0.00
22 T	Diisopropyl ether	50.000	50.120	-0.2	105	0.00
23 T	Vinyl Acetate	250.000	247.085	1.2	109	0.00
24 P	1,1-Dichloroethane	50.000	46.849	6.3	100	0.00
25 T	2-Butanone	250.000	245.835	1.7	112	0.00
26 T	2,2-Dichloropropane	50.000	49.265	1.5	107	0.00
27 T	cis-1,2-Dichloroethene	50.000	47.131	5.7	100	0.00
28 T	Bromochloromethane	50.000	47.052	5.9	100	0.00
29 T	Tetrahydrofuran	250.000	251.198	-0.5	113	0.00
30 C	Chloroform	50.000	46.455	7.1#	99	0.00
31 T	Cyclohexane	50.000	45.851	8.3	105	0.00
32 T	1,1,1-Trichloroethane	50.000	47.806	4.4	101	0.00
33 S	1,2-Dichloroethane-d4	50.000	44.746	10.5	102	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	101	0.00
35 S	Dibromofluoromethane	50.000	47.277	5.4	99	0.00
36 T	1,1-Dichloropropene	50.000	50.622	-1.2	103	0.00
37 T	Ethyl Acetate	50.000	50.487	-1.0	110	0.00
38 T	Carbon Tetrachloride	50.000	51.261	-2.5	106	0.00
39 T	Methylcyclohexane	50.000	51.002	-2.0	102	0.00
40 TM	Benzene	50.000	49.920	0.2	102	0.00
41 T	Methacrylonitrile	50.000	52.850	-5.7	112	0.00
42 TM	1,2-Dichloroethane	50.000	48.683	2.6	103	0.00
43 T	Isopropyl Acetate	50.000	53.127	-6.3	113	0.00
44 TM	Trichloroethene	50.000	48.601	2.8	102	0.00
45 C	1,2-Dichloropropane	50.000	49.465	1.1#	101	0.00
46 T	Dibromomethane	50.000	48.794	2.4	102	0.00
47 T	Bromodichloromethane	50.000	51.016	-2.0	103	0.00
48 T	Methyl methacrylate	50.000	53.740	-7.5	110	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
 Data File : VW032288.D
 Acq On : 29 Sep 2025 09:18
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 LabSampleId :
 VSTDCCC050

Quant Time: Sep 30 02:29:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 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	1086.319	-8.6	110	0.00
50 S	Toluene-d8	50.000	47.496	5.0	100	0.00
51 T	4-Methyl-2-Pentanone	250.000	265.923	-6.4	113	0.00
52 CM	Toluene	50.000	50.170	-0.3#	103	0.00
53 T	t-1,3-Dichloropropene	50.000	53.132	-6.3	108	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.022	-4.0	105	0.00
55 T	1,1,2-Trichloroethane	50.000	48.154	3.7	102	0.00
56 T	Ethyl methacrylate	50.000	54.343	-8.7	110	0.00
57 T	1,3-Dichloropropane	50.000	49.301	1.4	101	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	271.730	-8.7	105	0.00
59 T	2-Hexanone	250.000	271.306	-8.5	114	0.00
60 T	Dibromochloromethane	50.000	51.967	-3.9	104	0.00
61 T	1,2-Dibromoethane	50.000	49.168	1.7	102	0.00
62 S	4-Bromofluorobenzene	50.000	49.794	0.4	102	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	95	0.00
64 T	Tetrachloroethene	50.000	50.200	-0.4	97	0.00
65 PM	Chlorobenzene	50.000	50.177	-0.4	98	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	53.078	-6.2	102	0.00
67 C	Ethyl Benzene	50.000	53.716	-7.4#	102	0.00
68 T	m/p-Xylenes	100.000	104.995	-5.0	100	0.00
69 T	o-Xylene	50.000	53.795	-7.6	99	0.00
70 T	Styrene	50.000	54.596	-9.2	99	0.00
71 P	Bromoform	50.000	54.762	-9.5	105	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	101	0.00
73 T	Isopropylbenzene	50.000	52.322	-4.6	99	0.00
74 T	N-amyl acetate	50.000	54.794	-9.6	112	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.534	0.9	103	0.00
76 T	1,2,3-Trichloropropane	50.000	48.526	2.9	102	0.00
77 T	Bromobenzene	50.000	49.972	0.1	94	0.00
78 T	n-propylbenzene	50.000	52.650	-5.3	99	0.00
79 T	2-Chlorotoluene	50.000	52.018	-4.0	100	0.00
80 T	1,3,5-Trimethylbenzene	50.000	53.634	-7.3	102	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	56.645	-13.3	112	0.00
82 T	4-Chlorotoluene	50.000	51.445	-2.9	99	0.00
83 T	tert-Butylbenzene	50.000	53.870	-7.7	104	0.00
84 T	1,2,4-Trimethylbenzene	50.000	52.698	-5.4	101	0.00
85 T	sec-Butylbenzene	50.000	53.327	-6.7	101	0.00
86 T	p-Isopropyltoluene	50.000	53.563	-7.1	99	0.00
87 T	1,3-Dichlorobenzene	50.000	48.331	3.3	95	0.00
88 T	1,4-Dichlorobenzene	50.000	50.062	-0.1	105	0.00
89 T	n-Butylbenzene	50.000	52.364	-4.7	100	0.00
90 T	Hexachloroethane	50.000	54.047	-8.1	110	0.00
91 T	1,2-Dichlorobenzene	50.000	50.154	-0.3	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	53.086	-6.2	116	0.00
93 T	1,2,4-Trichlorobenzene	50.000	53.138	-6.3	105	0.00
94 T	Hexachlorobutadiene	50.000	53.131	-6.3	119	0.00
95 T	Naphthalene	50.000	53.387	-6.8	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
Data File : VW032288.D
Acq On : 29 Sep 2025 09:18
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Sep 30 02:29:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 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	50.335	-0.7	100	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>YANN01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3238</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>09/30/2025 12:54</u>
Lab File ID:	<u>VW032298.D</u>	Init. Calib. Date(s):	<u>09/25/2025 09/25/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>10:45 13:08</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.345	0.276		-20	20
Chloromethane	0.494	0.401	0.1	-18.83	20
Vinyl Chloride	0.578	0.536		-7.27	20
Bromomethane	0.394	0.369		-6.34	20
Chloroethane	0.391	0.367		-6.14	20
Trichlorofluoromethane	0.435	0.387		-11.03	20
1,1,2-Trichlorotrifluoroethane	0.556	0.529		-4.86	20
1,1-Dichloroethene	0.594	0.577		-2.86	20
Acetone	0.203	0.201		-0.99	20
Carbon Disulfide	1.365	1.269		-7.03	20
Methyl tert-butyl Ether	1.101	1.161		5.45	20
Methyl Acetate	0.697	0.766		9.9	20
Methylene Chloride	0.991	0.730		-26.34	20
trans-1,2-Dichloroethene	0.640	0.620		-3.13	20
1,1-Dichloroethane	1.293	1.253	0.1	-3.09	20
Cyclohexane	1.019	0.958		-5.99	20
2-Butanone	0.283	0.288		1.77	20
Carbon Tetrachloride	0.456	0.469		2.85	20
cis-1,2-Dichloroethene	0.796	0.784		-1.51	20
Bromochloromethane	0.617	0.590		-4.38	20
Chloroform	1.349	1.303		-3.41	20
1,1,1-Trichloroethane	0.909	0.905		-0.44	20
Methylcyclohexane	0.561	0.565		0.71	20
Benzene	1.526	1.500		-1.7	20
1,2-Dichloroethane	0.507	0.490		-3.35	20
Trichloroethene	0.357	0.358		0.28	20
1,2-Dichloropropane	0.395	0.385		-2.53	20
Bromodichloromethane	0.554	0.547		-1.26	20
4-Methyl-2-Pentanone	0.341	0.349		2.35	20
Toluene	0.946	0.936		-1.06	20
t-1,3-Dichloropropene	0.508	0.533		4.92	20
cis-1,3-Dichloropropene	0.586	0.614		4.78	20
1,1,2-Trichloroethane	0.332	0.324		-2.41	20
2-Hexanone	0.233	0.248		6.44	20
Dibromochloromethane	0.364	0.376		3.3	20
1,2-Dibromoethane	0.314	0.305		-2.87	20
Tetrachloroethene	0.305	0.308		0.98	20
Chlorobenzene	1.152	1.121	0.3	-2.69	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>YANN01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3238</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>09/30/2025 12:54</u>
Lab File ID:	<u>VW032298.D</u>	Init. Calib. Date(s):	<u>09/25/2025 09/25/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>10:45 13:08</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.885	1.951		3.5	20
m/p-Xylenes	0.723	0.768		6.22	20
o-Xylene	0.679	0.737		8.54	20
Styrene	1.191	1.263		6.05	20
Bromoform	0.212	0.214	0.1	0.94	20
Isopropylbenzene	3.480	3.743		7.56	20
1,1,2,2-Tetrachloroethane	0.912	0.915	0.3	0.33	20
1,3-Dichlorobenzene	1.693	1.811		6.97	20
1,4-Dichlorobenzene	1.730	1.781		2.95	20
1,2-Dichlorobenzene	1.584	1.598		0.88	20
1,2-Dibromo-3-Chloropropane	0.156	0.155		-0.64	20
1,2,4-Trichlorobenzene	0.940	0.962		2.34	20
1,2,3-Trichlorobenzene	0.874	0.932		6.64	20
1,2-Dichloroethane-d4	0.789	0.731		-7.35	20
Dibromofluoromethane	0.360	0.338		-6.11	20
Toluene-d8	1.296	1.244		-4.01	20
4-Bromofluorobenzene	0.489	0.469		-4.09	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
 Data File : VW032298.D
 Acq On : 30 Sep 2025 12:54
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
 Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 01 00:48:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	244399	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	443869	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	407884	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.550	152	203513	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	178769	46.325	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	92.660%		
35) Dibromofluoromethane	7.898	113	149962	46.978	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	93.960%		
50) Toluene-d8	10.325	98	552080	47.988	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	95.980%		
62) 4-Bromofluorobenzene	12.617	95	208032	47.939	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	95.880%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.040	85	67567	40.015	ug/l	98
3) Chloromethane	2.253	50	97887	40.508	ug/l	92
4) Vinyl Chloride	2.405	62	130982	46.391	ug/l	97
5) Bromomethane	2.820	94	90146	46.757	ug/l	97
6) Chloroethane	2.966	64	89722	46.896	ug/l	96
7) Trichlorofluoromethane	3.302	101	94638	44.486	ug/l	99
8) Diethyl Ether	3.716	74	94025	46.742	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.094	101	129343	47.633	ug/l	98
10) Methyl Iodide	4.307	142	174142	47.414	ug/l	100
11) Tert butyl alcohol	5.222	59	66344	247.672	ug/l	99
12) 1,1-Dichloroethene	4.076	96	140972	48.566	ug/l	99
13) Acrolein	3.930	56	70769	148.434	ug/l	92
14) Allyl chloride	4.698	41	229358	50.915	ug/l	99
15) Acrylonitrile	5.399	53	253314	244.512	ug/l	99
16) Acetone	4.161	43	245069	247.283	ug/l	99
17) Carbon Disulfide	4.417	76	310084	46.462	ug/l	98
18) Methyl Acetate	4.704	43	187166	54.912	ug/l	99
19) Methyl tert-butyl Ether	5.466	73	283866	52.758	ug/l	98
20) Methylene Chloride	4.954	84	178524	49.818	ug/l	99
21) trans-1,2-Dichloroethene	5.454	96	151550	48.418	ug/l	99
22) Diisopropyl ether	6.338	45	512878	51.237	ug/l	97
23) Vinyl Acetate	6.283	43	1631916	253.419	ug/l	98
24) 1,1-Dichloroethane	6.240	63	306345	48.481	ug/l	99
25) 2-Butanone	7.191	43	351973	254.800	ug/l	97
26) 2,2-Dichloropropane	7.185	77	157524	50.588	ug/l	99
27) cis-1,2-Dichloroethene	7.191	96	191666	49.234	ug/l	98
28) Bromochloromethane	7.526	49	144156	47.809	ug/l #	98
29) Tetrahydrofuran	7.551	42	223485	249.207	ug/l	99
30) Chloroform	7.691	83	318541	48.315	ug/l	95
31) Cyclohexane	7.971	56	234100	46.982	ug/l	98
32) 1,1,1-Trichloroethane	7.886	97	221280	49.820	ug/l	98
36) 1,1-Dichloropropene	8.093	75	213755	49.668	ug/l	99
37) Ethyl Acetate	7.270	43	140379	49.182	ug/l	99
38) Carbon Tetrachloride	8.081	117	208112	51.398	ug/l	95
39) Methylcyclohexane	9.343	83	250807	50.365	ug/l	98
40) Benzene	8.331	78	665837	49.151	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
 Data File : VW032298.D
 Acq On : 30 Sep 2025 12:54
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025

Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 01 00:48:53 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M

Quant Title : SW846 8260

QLast Update : Fri Sep 26 07:11:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	83693	51.197	ug/l	97
42) 1,2-Dichloroethane	8.410	62	217444	48.290	ug/l	100
43) Isopropyl Acetate	8.435	43	259612	50.811	ug/l	98
44) Trichloroethene	9.093	130	158767	50.141	ug/l	94
45) 1,2-Dichloropropane	9.374	63	170934	48.719	ug/l	96
46) Dibromomethane	9.465	93	103219	47.850	ug/l	98
47) Bromodichloromethane	9.648	83	242757	49.340	ug/l	97
48) Methyl methacrylate	9.441	41	124530	51.807	ug/l	97
49) 1,4-Dioxane	9.465	88	29687	1027.562	ug/l #	99
51) 4-Methyl-2-Pentanone	10.215	43	773987	255.493	ug/l	99
52) Toluene	10.392	92	415584	49.496	ug/l	100
53) t-1,3-Dichloropropene	10.605	75	236447	52.453	ug/l	99
54) cis-1,3-Dichloropropene	10.075	75	272601	52.381	ug/l	98
55) 1,1,2-Trichloroethane	10.788	97	143608	48.772	ug/l	96
56) Ethyl methacrylate	10.648	69	207121	53.402	ug/l	98
57) 1,3-Dichloropropane	10.934	76	245199	48.204	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.928	63	572372	268.832	ug/l	100
59) 2-Hexanone	10.965	43	550061	265.892	ug/l	98
60) Dibromochloromethane	11.129	129	166916	51.618	ug/l	98
61) 1,2-Dibromoethane	11.233	107	135245	48.482	ug/l	99
64) Tetrachloroethene	10.861	164	125447	50.468	ug/l #	87
65) Chlorobenzene	11.654	112	457165	48.659	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.727	131	155571	52.357	ug/l	97
67) Ethyl Benzene	11.727	91	795652	51.738	ug/l	100
68) m/p-Xylenes	11.837	106	626390	106.255	ug/l	94
69) o-Xylene	12.166	106	300494	54.238	ug/l	98
70) Styrene	12.178	104	515087	53.016	ug/l	99
71) Bromoform	12.349	173	87392	50.470	ug/l	99
73) Isopropylbenzene	12.458	105	761675	53.772	ug/l	97
74) N-amyl acetate	12.269	43	238170	53.393	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.715	83	186268	50.155	ug/l	99
76) 1,2,3-Trichloropropane	12.763	75	130261m	46.524	ug/l	
77) Bromobenzene	12.745	156	177146	50.845	ug/l	94
78) n-propylbenzene	12.800	91	931527	52.355	ug/l	98
79) 2-Chlorotoluene	12.891	91	578344	53.659	ug/l	97
80) 1,3,5-Trimethylbenzene	12.940	105	640637	52.900	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.507	75	56938	52.821	ug/l	97
82) 4-Chlorotoluene	12.983	91	605026	53.115	ug/l	97
83) tert-Butylbenzene	13.202	119	546404	53.949	ug/l	98
84) 1,2,4-Trimethylbenzene	13.245	105	663668	53.975	ug/l	98
85) sec-Butylbenzene	13.379	105	826541	54.345	ug/l	99
86) p-Isopropyltoluene	13.495	119	686522	54.504	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	368604	53.487	ug/l	98
88) 1,4-Dichlorobenzene	13.574	146	362408	51.477	ug/l	94
89) n-Butylbenzene	13.818	91	684321	54.136	ug/l	99
90) Hexachloroethane	14.092	117	123003	52.395	ug/l	97
91) 1,2-Dichlorobenzene	13.867	146	325169	50.439	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.482	75	31518	49.616	ug/l	96
93) 1,2,4-Trichlorobenzene	15.129	180	195707	51.171	ug/l	98
94) Hexachlorobutadiene	15.226	225	96233	54.787	ug/l	82
95) Naphthalene	15.360	128	492563	53.660	ug/l	100
96) 1,2,3-Trichlorobenzene	15.549	180	189772	53.363	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
Data File : VW032298.D
Acq On : 30 Sep 2025 12:54
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 01 00:48:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 2025
Response via : Initial Calibration

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
Data File : VW032298.D
Acq On : 30 Sep 2025 12:54
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

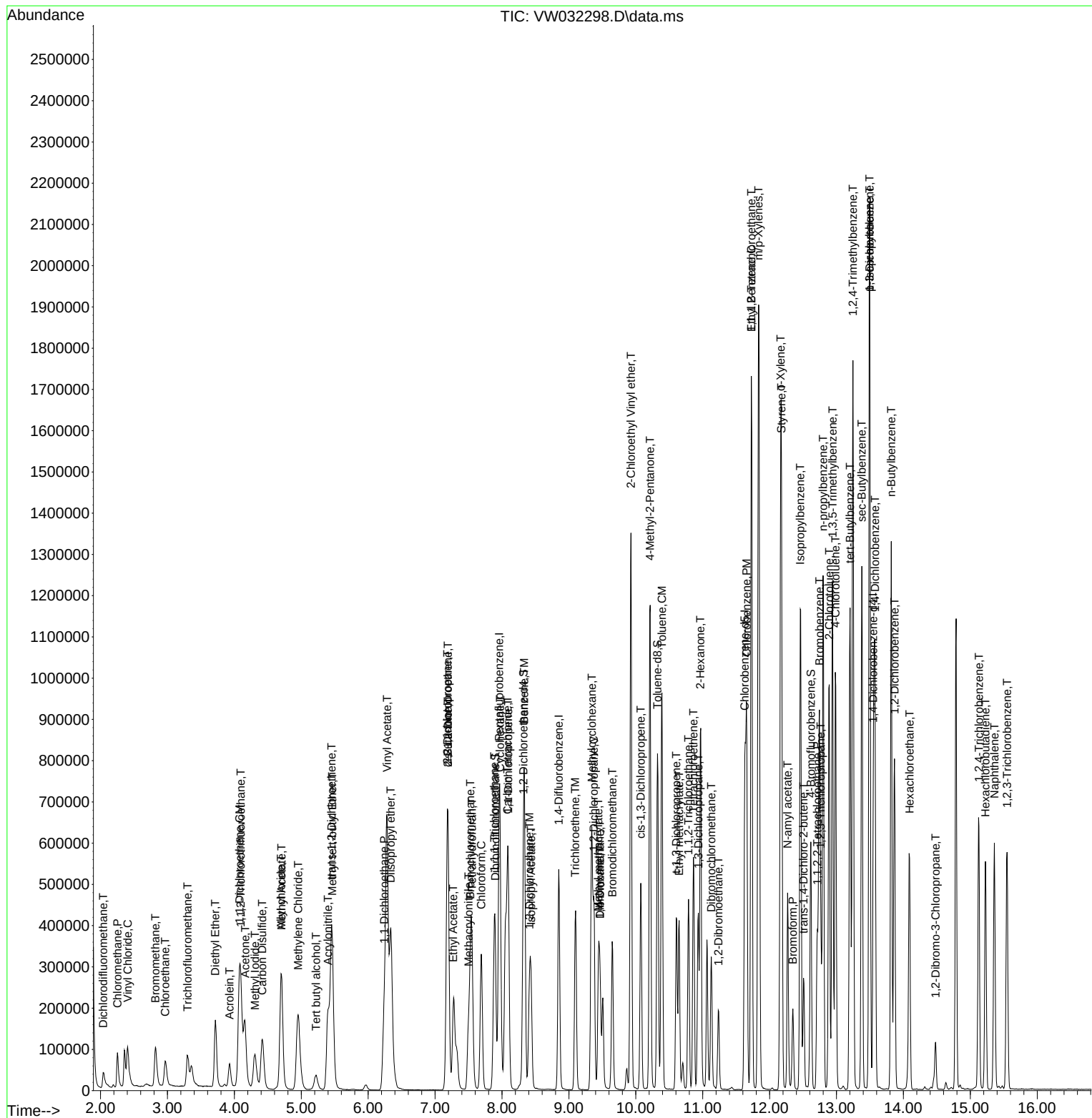
Quant Time: Oct 01 00:48:53 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M

Quant Title : SW846 8260

QLast Update : Fri Sep 26 07:11:42 2025

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 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	93	0.00
2 T	Dichlorodifluoromethane	0.345	0.276	20.0	87	0.00
3 P	Chloromethane	0.494	0.401	18.8	88	0.00
4 C	Vinyl Chloride	0.578	0.536	7.3#	93	0.00
5 T	Bromomethane	0.394	0.369	6.3	93	0.00
6 T	Chloroethane	0.391	0.367	6.1	95	0.00
7 T	Trichlorofluoromethane	0.435	0.387	11.0	94	0.00
8 T	Diethyl Ether	0.412	0.385	6.6	97	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.556	0.529	4.9	93	0.00
10 T	Methyl Iodide	0.751	0.713	5.1	93	0.00
11 T	Tert butyl alcohol	0.055	0.054	1.8	111	0.00
12 CM	1,1-Dichloroethene	0.594	0.577	2.9#	97	0.00
13 T	Acrolein	0.098	0.058	40.8#	59	0.00
14 T	Allyl chloride	0.922	0.938	-1.7	99	0.00
15 T	Acrylonitrile	0.212	0.207	2.4	102	0.00
16 T	Acetone	0.203	0.201	1.0	114	0.00
17 T	Carbon Disulfide	1.365	1.269	7.0	93	0.00
18 T	Methyl Acetate	0.697	0.766	-9.9	96	0.00
19 T	Methyl tert-butyl Ether	1.101	1.161	-5.4	101	0.00
20 T	Methylene Chloride	0.991	0.730	26.3#	91	0.00
21 T	trans-1,2-Dichloroethene	0.640	0.620	3.1	95	0.00
22 T	Diisopropyl ether	2.048	2.099	-2.5	97	0.00
23 T	Vinyl Acetate	1.317	1.335	-1.4	102	0.00
24 P	1,1-Dichloroethane	1.293	1.253	3.1	94	0.00
25 T	2-Butanone	0.283	0.288	-1.8	106	0.00
26 T	2,2-Dichloropropane	0.637	0.645	-1.3	100	0.00
27 T	cis-1,2-Dichloroethene	0.796	0.784	1.5	95	0.00
28 T	Bromochloromethane	0.617	0.590	4.4	93	0.00
29 T	Tetrahydrofuran	0.183	0.183	0.0	102	0.00
30 C	Chloroform	1.349	1.303	3.4#	94	0.00
31 T	Cyclohexane	1.019	0.958	6.0	97	0.00
32 T	1,1,1-Trichloroethane	0.909	0.905	0.4	96	0.00
33 S	1,2-Dichloroethane-d4	0.789	0.731	7.4	96	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
35 S	Dibromofluoromethane	0.360	0.338	6.1	94	0.00
36 T	1,1-Dichloropropene	0.485	0.482	0.6	96	0.00
37 T	Ethyl Acetate	0.322	0.316	1.9	101	0.00
38 T	Carbon Tetrachloride	0.456	0.469	-2.9	101	0.00
39 T	Methylcyclohexane	0.561	0.565	-0.7	96	0.00
40 TM	Benzene	1.526	1.500	1.7	95	0.00
41 T	Methacrylonitrile	0.184	0.189	-2.7	103	0.00
42 TM	1,2-Dichloroethane	0.507	0.490	3.4	97	0.00
43 T	Isopropyl Acetate	0.576	0.585	-1.6	103	0.00
44 TM	Trichloroethene	0.357	0.358	-0.3	100	0.00
45 C	1,2-Dichloropropane	0.395	0.385	2.5#	94	0.00
46 T	Dibromomethane	0.243	0.233	4.1	95	0.00
47 T	Bromodichloromethane	0.554	0.547	1.3	94	0.00
48 T	Methyl methacrylate	0.271	0.281	-3.7	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
 Data File : VW032298.D
 Acq On : 30 Sep 2025 12:54
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 01 00:48:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 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	99	0.00
50 S	Toluene-d8	1.296	1.244	4.0	96	0.00
51 T	4-Methyl-2-Pentanone	0.341	0.349	-2.3	104	0.00
52 CM	Toluene	0.946	0.936	1.1#	96	0.00
53 T	t-1,3-Dichloropropene	0.508	0.533	-4.9	101	0.00
54 T	cis-1,3-Dichloropropene	0.586	0.614	-4.8	100	0.00
55 T	1,1,2-Trichloroethane	0.332	0.324	2.4	99	0.00
56 T	Ethyl methacrylate	0.437	0.467	-6.9	103	0.00
57 T	1,3-Dichloropropane	0.573	0.552	3.7	94	0.00
58 T	2-Chloroethyl Vinyl ether	0.240	0.258	-7.5	99	0.00
59 T	2-Hexanone	0.233	0.248	-6.4	106	0.00
60 T	Dibromochloromethane	0.364	0.376	-3.3	98	0.00
61 T	1,2-Dibromoethane	0.314	0.305	2.9	95	0.00
62 S	4-Bromofluorobenzene	0.489	0.469	4.1	94	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
64 T	Tetrachloroethene	0.305	0.308	-1.0	94	0.00
65 PM	Chlorobenzene	1.152	1.121	2.7	92	0.00
66 T	1,1,1,2-Tetrachloroethane	0.364	0.381	-4.7	97	0.00
67 C	Ethyl Benzene	1.885	1.951	-3.5#	95	0.00
68 T	m/p-Xylenes	0.723	0.768	-6.2	98	0.00
69 T	o-Xylene	0.679	0.737	-8.5	96	0.00
70 T	Styrene	1.191	1.263	-6.0	93	0.00
71 P	Bromoform	0.212	0.214	-0.9	94	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00
73 T	Isopropylbenzene	3.480	3.743	-7.6	96	0.00
74 T	N-amyl acetate	1.096	1.170	-6.8	103	0.00
75 P	1,1,2,2-Tetrachloroethane	0.912	0.915	-0.3	98	0.00
76 T	1,2,3-Trichloropropane	0.688	0.640	7.0	92	0.00
77 T	Bromobenzene	0.856	0.870	-1.6	90	0.00
78 T	n-propylbenzene	4.371	4.577	-4.7	93	0.00
79 T	2-Chlorotoluene	2.648	2.842	-7.3	98	0.00
80 T	1,3,5-Trimethylbenzene	2.975	3.148	-5.8	94	0.00
81 T	trans-1,4-Dichloro-2-butene	0.265	0.280	-5.7	99	0.00
82 T	4-Chlorotoluene	2.799	2.973	-6.2	97	0.00
83 T	tert-Butylbenzene	2.488	2.685	-7.9	98	0.00
84 T	1,2,4-Trimethylbenzene	3.021	3.261	-7.9	97	0.00
85 T	sec-Butylbenzene	3.737	4.061	-8.7	97	0.00
86 T	p-Isopropyltoluene	3.095	3.373	-9.0	95	0.00
87 T	1,3-Dichlorobenzene	1.693	1.811	-7.0	99	0.00
88 T	1,4-Dichlorobenzene	1.730	1.781	-2.9	101	0.00
89 T	n-Butylbenzene	3.106	3.363	-8.3	97	0.00
90 T	Hexachloroethane	0.577	0.604	-4.7	100	0.00
91 T	1,2-Dichlorobenzene	1.584	1.598	-0.9	93	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.156	0.155	0.6	102	0.00
93 T	1,2,4-Trichlorobenzene	0.940	0.962	-2.3	95	0.00
94 T	Hexachlorobutadiene	0.432	0.473	-9.5	115	0.00
95 T	Naphthalene	2.255	2.420	-7.3	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
Data File : VW032298.D
Acq On : 30 Sep 2025 12:54
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Oct 01 00:48:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 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	0.932	-6.6	100	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
 Data File : VW032298.D
 Acq On : 30 Sep 2025 12:54
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 01 00:48:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 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	93	0.00
2 T	Dichlorodifluoromethane	50.000	40.015	20.0	87	0.00
3 P	Chloromethane	50.000	40.508	19.0	88	0.00
4 C	Vinyl Chloride	50.000	46.391	7.2#	93	0.00
5 T	Bromomethane	50.000	46.757	6.5	93	0.00
6 T	Chloroethane	50.000	46.896	6.2	95	0.00
7 T	Trichlorofluoromethane	50.000	44.486	11.0	94	0.00
8 T	Diethyl Ether	50.000	46.742	6.5	97	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	47.633	4.7	93	0.00
10 T	Methyl Iodide	50.000	47.414	5.2	93	0.00
11 T	Tert butyl alcohol	250.000	247.672	0.9	111	0.00
12 CM	1,1-Dichloroethene	50.000	48.566	2.9#	97	0.00
13 T	Acrolein	250.000	148.434	40.6#	59	0.00
14 T	Allyl chloride	50.000	50.915	-1.8	99	0.00
15 T	Acrylonitrile	250.000	244.512	2.2	102	0.00
16 T	Acetone	250.000	247.283	1.1	114	0.00
17 T	Carbon Disulfide	50.000	46.462	7.1	93	0.00
18 T	Methyl Acetate	50.000	54.912	-9.8	96	0.00
19 T	Methyl tert-butyl Ether	50.000	52.758	-5.5	101	0.00
20 T	Methylene Chloride	50.000	49.818	0.4	91	0.00
21 T	trans-1,2-Dichloroethene	50.000	48.418	3.2	95	0.00
22 T	Diisopropyl ether	50.000	51.237	-2.5	97	0.00
23 T	Vinyl Acetate	250.000	253.419	-1.4	102	0.00
24 P	1,1-Dichloroethane	50.000	48.481	3.0	94	0.00
25 T	2-Butanone	250.000	254.800	-1.9	106	0.00
26 T	2,2-Dichloropropane	50.000	50.588	-1.2	100	0.00
27 T	cis-1,2-Dichloroethene	50.000	49.234	1.5	95	0.00
28 T	Bromochloromethane	50.000	47.809	4.4	93	0.00
29 T	Tetrahydrofuran	250.000	249.207	0.3	102	0.00
30 C	Chloroform	50.000	48.315	3.4#	94	0.00
31 T	Cyclohexane	50.000	46.982	6.0	97	0.00
32 T	1,1,1-Trichloroethane	50.000	49.820	0.4	96	0.00
33 S	1,2-Dichloroethane-d4	50.000	46.325	7.3	96	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	96	0.00
35 S	Dibromofluoromethane	50.000	46.978	6.0	94	0.00
36 T	1,1-Dichloropropene	50.000	49.668	0.7	96	0.00
37 T	Ethyl Acetate	50.000	49.182	1.6	101	0.00
38 T	Carbon Tetrachloride	50.000	51.398	-2.8	101	0.00
39 T	Methylcyclohexane	50.000	50.365	-0.7	96	0.00
40 TM	Benzene	50.000	49.151	1.7	95	0.00
41 T	Methacrylonitrile	50.000	51.197	-2.4	103	0.00
42 TM	1,2-Dichloroethane	50.000	48.290	3.4	97	0.00
43 T	Isopropyl Acetate	50.000	50.811	-1.6	103	0.00
44 TM	Trichloroethene	50.000	50.141	-0.3	100	0.00
45 C	1,2-Dichloropropane	50.000	48.719	2.6#	94	0.00
46 T	Dibromomethane	50.000	47.850	4.3	95	0.00
47 T	Bromodichloromethane	50.000	49.340	1.3	94	0.00
48 T	Methyl methacrylate	50.000	51.807	-3.6	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
 Data File : VW032298.D
 Acq On : 30 Sep 2025 12:54
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 LabSampleId :
 VSTDCCC050

Quant Time: Oct 01 00:48:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 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	1027.562	-2.8	99	0.00
50 S	Toluene-d8	50.000	47.988	4.0	96	0.00
51 T	4-Methyl-2-Pentanone	250.000	255.493	-2.2	104	0.00
52 CM	Toluene	50.000	49.496	1.0#	96	0.00
53 T	t-1,3-Dichloropropene	50.000	52.453	-4.9	101	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.381	-4.8	100	0.00
55 T	1,1,2-Trichloroethane	50.000	48.772	2.5	99	0.00
56 T	Ethyl methacrylate	50.000	53.402	-6.8	103	0.00
57 T	1,3-Dichloropropane	50.000	48.204	3.6	94	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	268.832	-7.5	99	0.00
59 T	2-Hexanone	250.000	265.892	-6.4	106	0.00
60 T	Dibromochloromethane	50.000	51.618	-3.2	98	0.00
61 T	1,2-Dibromoethane	50.000	48.482	3.0	95	0.00
62 S	4-Bromofluorobenzene	50.000	47.939	4.1	94	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	92	0.00
64 T	Tetrachloroethene	50.000	50.468	-0.9	94	0.00
65 PM	Chlorobenzene	50.000	48.659	2.7	92	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	52.357	-4.7	97	0.00
67 C	Ethyl Benzene	50.000	51.738	-3.5#	95	0.00
68 T	m/p-Xylenes	100.000	106.255	-6.3	98	0.00
69 T	o-Xylene	50.000	54.238	-8.5	96	0.00
70 T	Styrene	50.000	53.016	-6.0	93	0.00
71 P	Bromoform	50.000	50.470	-0.9	94	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	95	0.00
73 T	Isopropylbenzene	50.000	53.772	-7.5	96	0.00
74 T	N-ethyl acetate	50.000	53.393	-6.8	103	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	50.155	-0.3	98	0.00
76 T	1,2,3-Trichloropropane	50.000	46.524	7.0	92	0.00
77 T	Bromobenzene	50.000	50.845	-1.7	90	0.00
78 T	n-propylbenzene	50.000	52.355	-4.7	93	0.00
79 T	2-Chlorotoluene	50.000	53.659	-7.3	98	0.00
80 T	1,3,5-Trimethylbenzene	50.000	52.900	-5.8	94	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.821	-5.6	99	0.00
82 T	4-Chlorotoluene	50.000	53.115	-6.2	97	0.00
83 T	tert-Butylbenzene	50.000	53.949	-7.9	98	0.00
84 T	1,2,4-Trimethylbenzene	50.000	53.975	-8.0	97	0.00
85 T	sec-Butylbenzene	50.000	54.345	-8.7	97	0.00
86 T	p-Isopropyltoluene	50.000	54.504	-9.0	95	0.00
87 T	1,3-Dichlorobenzene	50.000	53.487	-7.0	99	0.00
88 T	1,4-Dichlorobenzene	50.000	51.477	-3.0	101	0.00
89 T	n-Butylbenzene	50.000	54.136	-8.3	97	0.00
90 T	Hexachloroethane	50.000	52.395	-4.8	100	0.00
91 T	1,2-Dichlorobenzene	50.000	50.439	-0.9	93	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.616	0.8	102	0.00
93 T	1,2,4-Trichlorobenzene	50.000	51.171	-2.3	95	0.00
94 T	Hexachlorobutadiene	50.000	54.787	-9.6	115	0.00
95 T	Naphthalene	50.000	53.660	-7.3	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
Data File : VW032298.D
Acq On : 30 Sep 2025 12:54
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Oct 01 00:48:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 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	53.363	-6.7	100	0.00

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



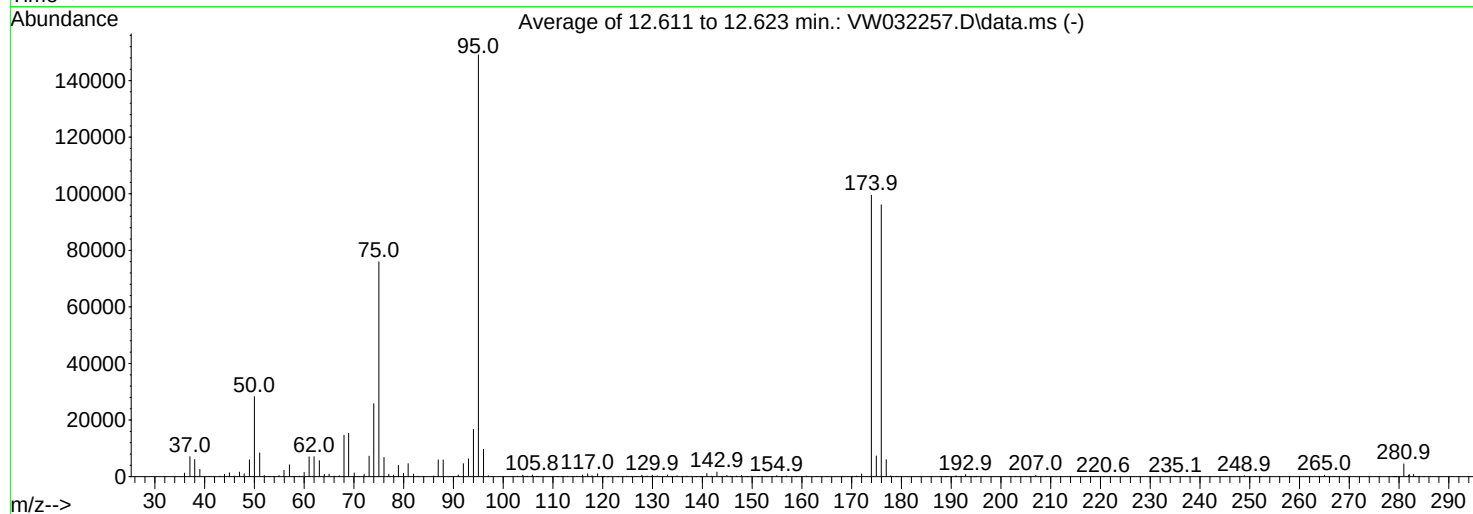
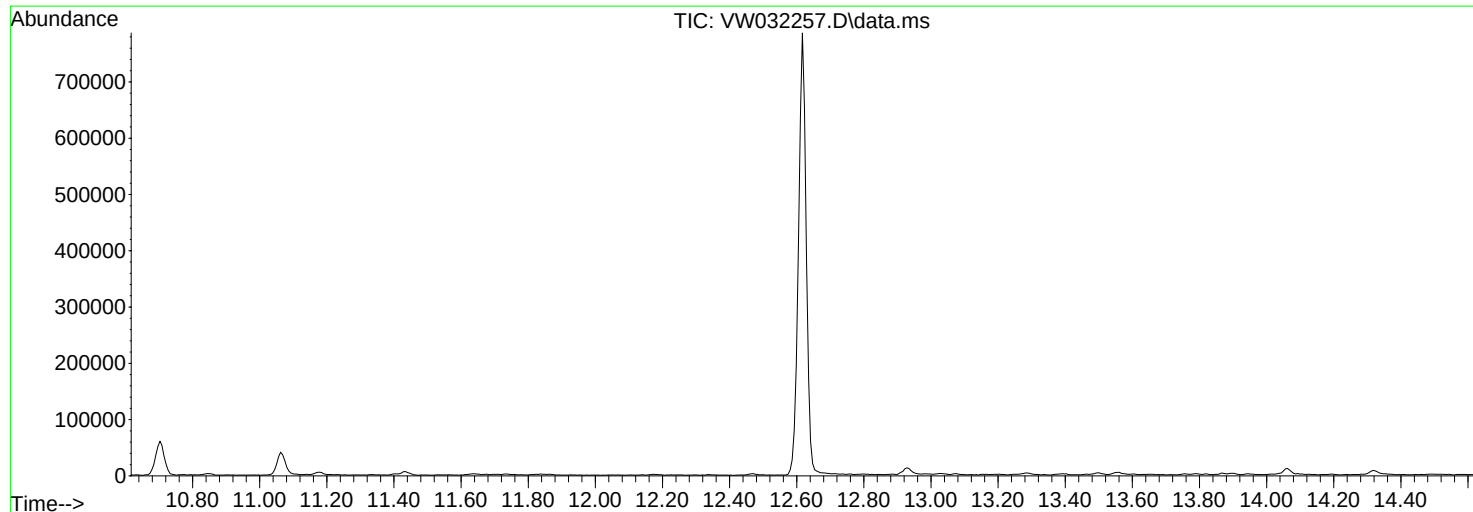
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092525\
Data File : VW032257.D
Acq On : 25 Sep 2025 10:01
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Title : SW846 8260
Last Update : Fri Sep 26 07:11:42 2025



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

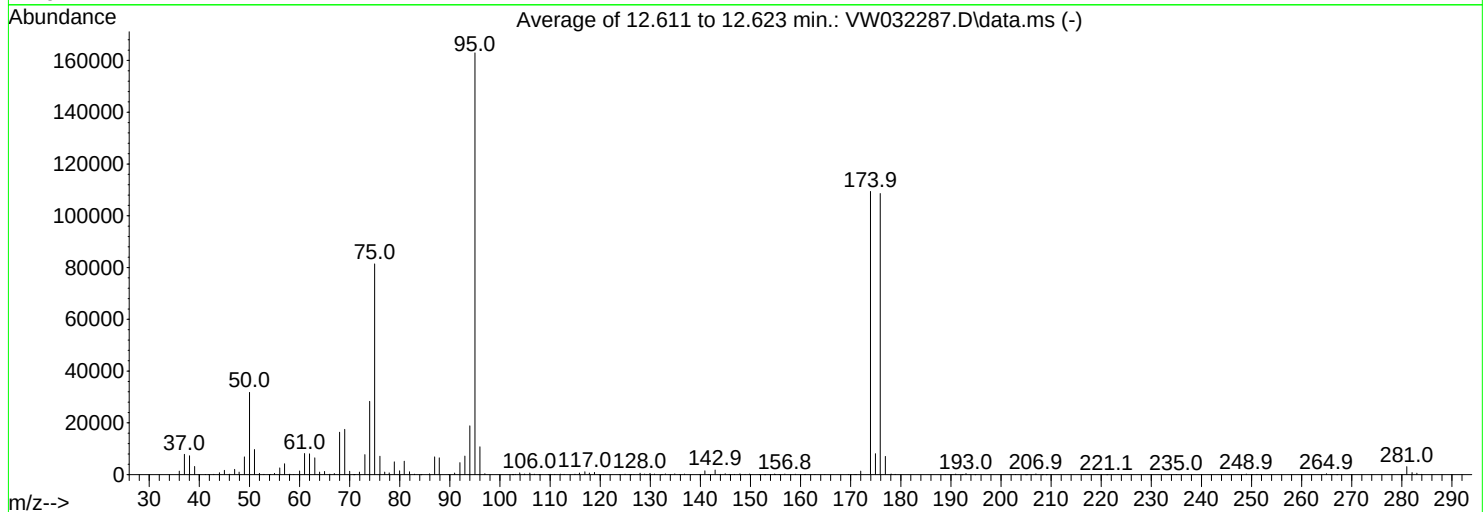
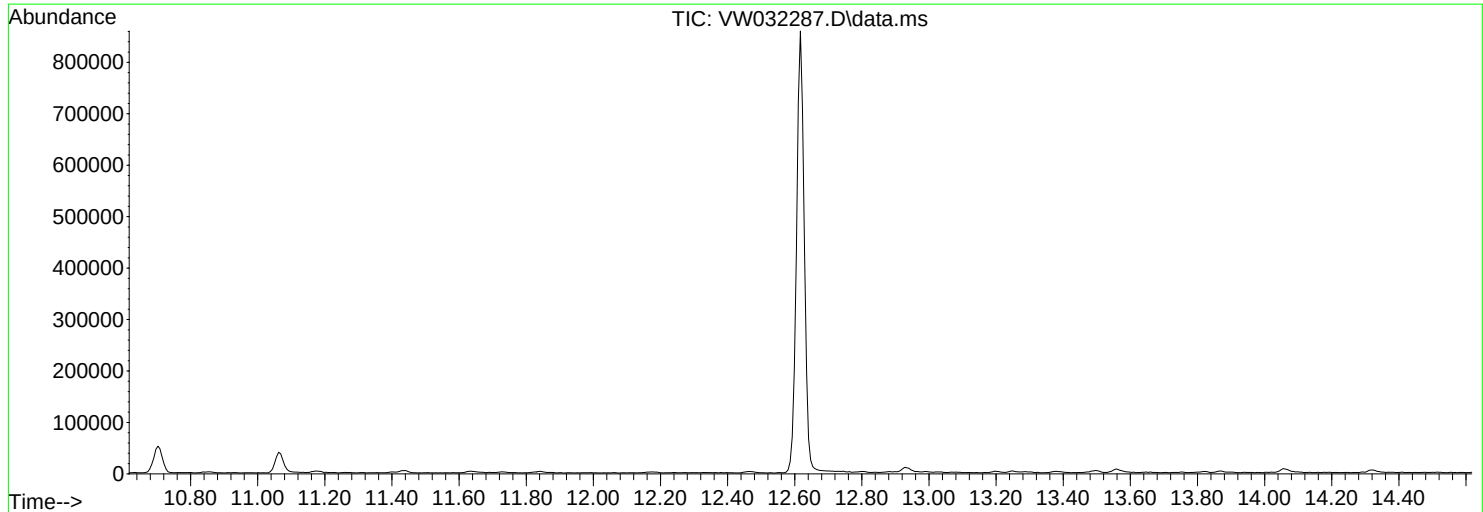
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	28296	PASS
75	95	30	60	51.0	75976	PASS
95	95	100	100	100.0	149099	PASS
96	95	5	9	6.5	9671	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	66.7	99464	PASS
175	174	5	9	7.4	7318	PASS
176	174	95	101	96.6	96075	PASS
177	176	5	9	6.2	5983	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
Data File : VW032287.D
Acq On : 29 Sep 2025 08:46
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Title : SW846 8260
Last Update : Fri Sep 26 07:11:42 2025



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

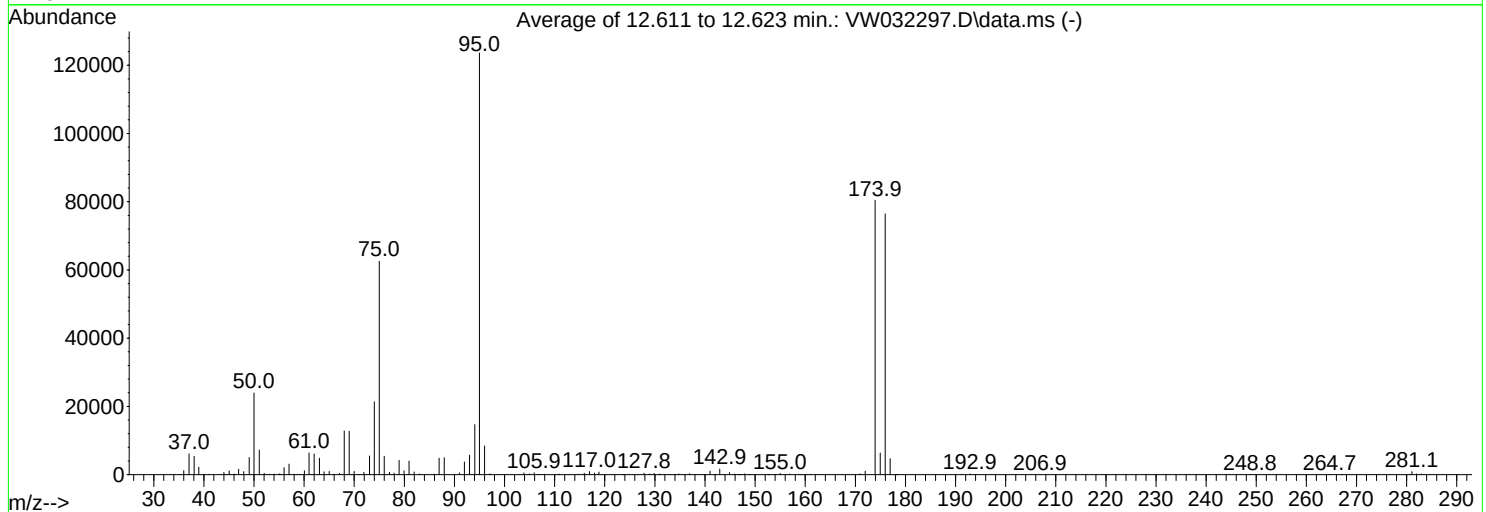
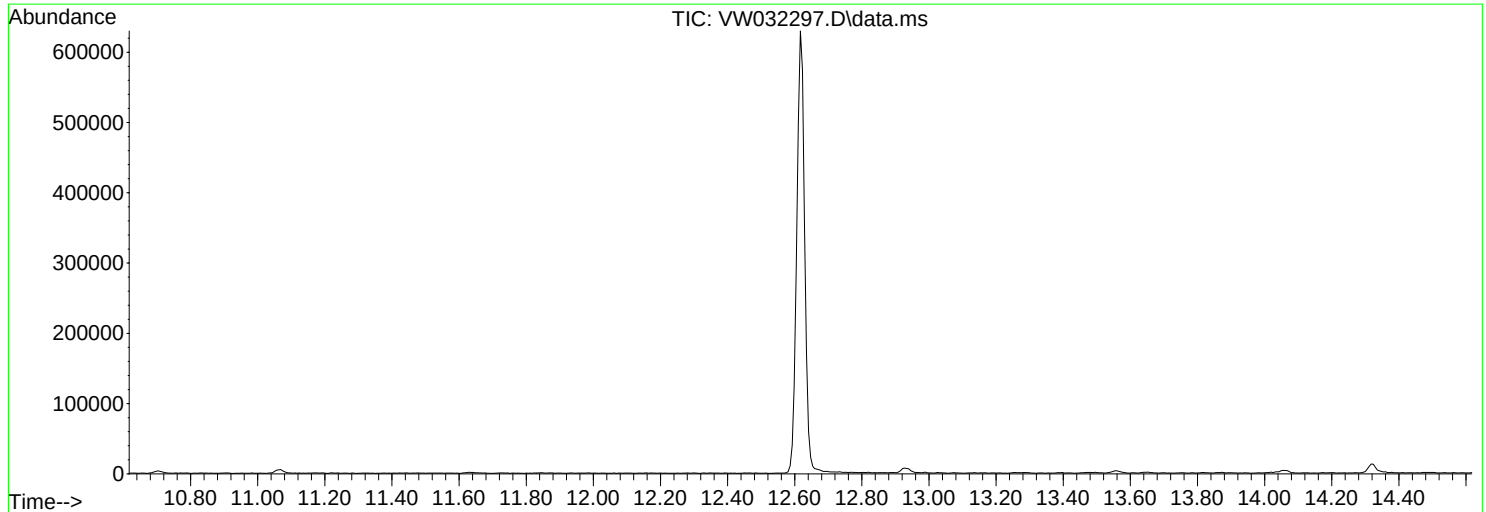
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	31792	PASS
75	95	30	60	50.0	81432	PASS
95	95	100	100	100.0	162944	PASS
96	95	5	9	6.6	10770	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	67.1	109376	PASS
175	174	5	9	7.4	8113	PASS
176	174	95	101	99.3	108616	PASS
177	176	5	9	6.5	7068	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
Data File : VW032297.D
Acq On : 30 Sep 2025 10:43
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\82W092525S.M
Title : SW846 8260
Last Update : Fri Sep 26 07:11:42 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	19.4	23928	PASS
75	95	30	60	50.6	62544	PASS
95	95	100	100	100.0	123635	PASS
96	95	5	9	6.8	8381	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	65.0	80373	PASS
175	174	5	9	7.9	6327	PASS
176	174	95	101	95.1	76451	PASS
177	176	5	9	6.2	4708	PASS

Report of Analysis

Client:	Yannuzzi Group, Inc.	Date Collected:	
Project:	Edison Yard	Date Received:	
Client Sample ID:	VW0929SBL01	SDG No.:	Q3238
Lab Sample ID:	VW0929SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032289.D	1	09/29/25 10:18	VW092925

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

Report of Analysis

Client:	Yannuzzi Group, Inc.	Date Collected:	
Project:	Edison Yard	Date Received:	
Client Sample ID:	VW0929SBL01	SDG No.:	Q3238
Lab Sample ID:	VW0929SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
	ID :	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032289.D	1	09/29/25 10:18	VW092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	62.9		70 (63) - 130 (155)	126%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		70 (70) - 130 (134)	102%	SPK: 50
2037-26-5	Toluene-d8	51.9		70 (74) - 130 (123)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		70 (17) - 130 (146)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	171000	7.953			
540-36-3	1,4-Difluorobenzene	367000	8.849			
3114-55-4	Chlorobenzene-d5	375000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	185000	13.556			

Report of Analysis

Client:	Yannuzzi Group, Inc.	Date Collected:	
Project:	Edison Yard	Date Received:	
Client Sample ID:	VW0929SBL01	SDG No.:	Q3238
Lab Sample ID:	VW0929SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032289.D	1	09/29/25 10:18	VW092925

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

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
 Data File : VW032289.D
 Acq On : 29 Sep 2025 10:18
 Operator : SY/MD
 Sample : VW0929SBL01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0929SBL01

Quant Time: Sep 30 02:34:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.953	168	170986	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	366797	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	375398	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	185238	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	169881	62.923	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	125.840%
35) Dibromofluoromethane	7.898	113	134272	50.901	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	101.800%
50) Toluene-d8	10.325	98	493728	51.934	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	103.860%
62) 4-Bromofluorobenzene	12.617	95	177961	49.626	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	99.260%

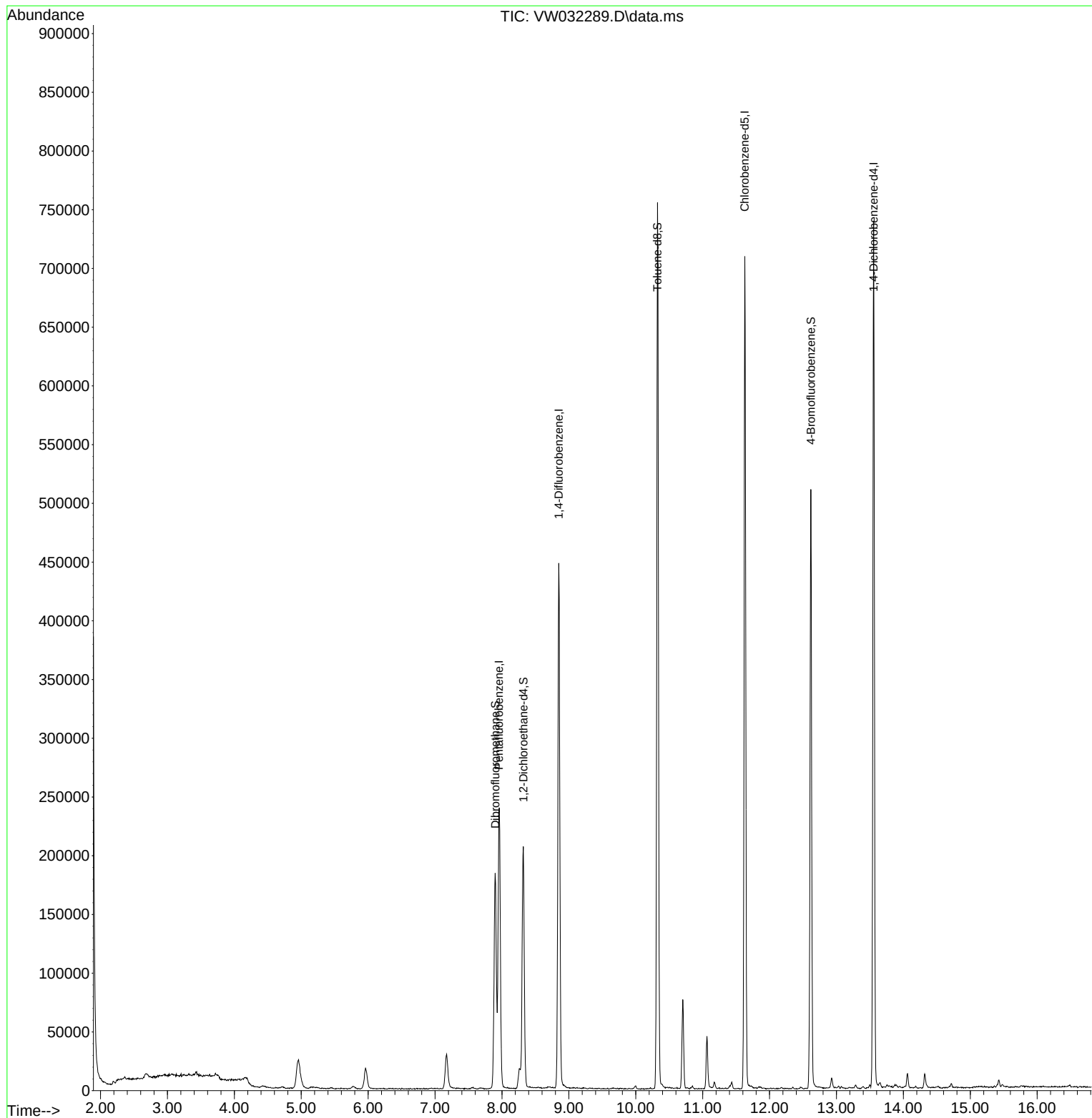
Target Compounds	Qvalue

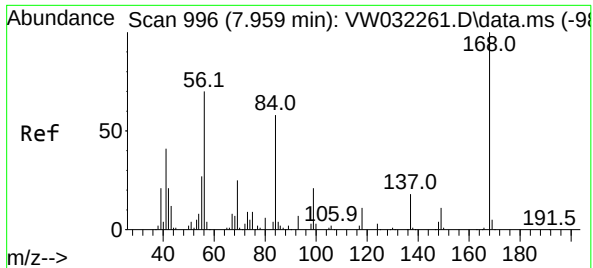
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
Data File : VW032289.D
Acq On : 29 Sep 2025 10:18
Operator : SY/MD
Sample : VW0929SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0929SBL01

Quant Time: Sep 30 02:34:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 2025
Response via : Initial Calibration

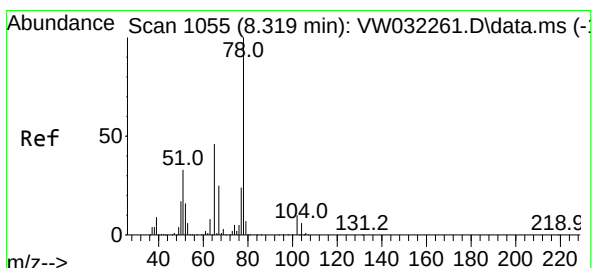
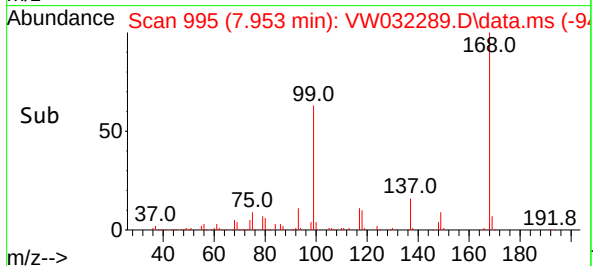
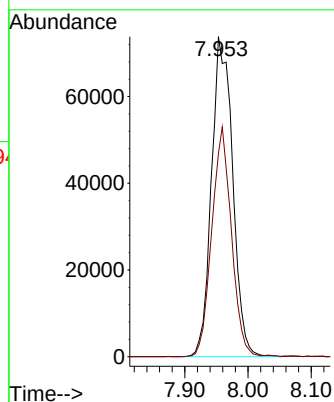
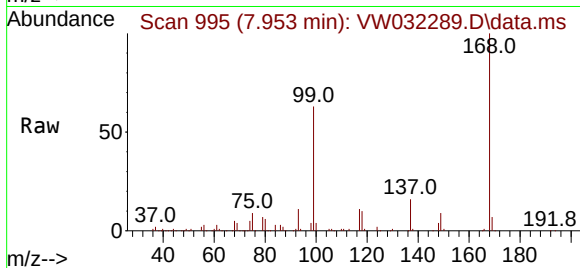




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.953 min Scan# 99
Delta R.T. -0.006 min
Lab File: VW032289.D
Acq: 29 Sep 2025 10:18

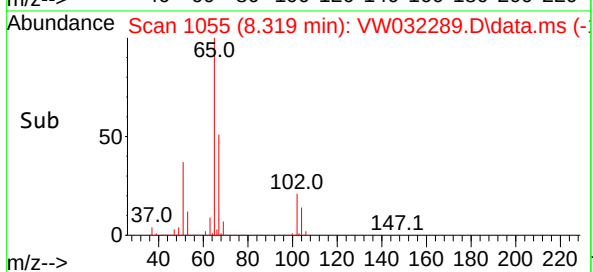
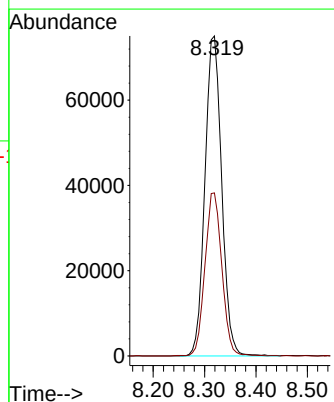
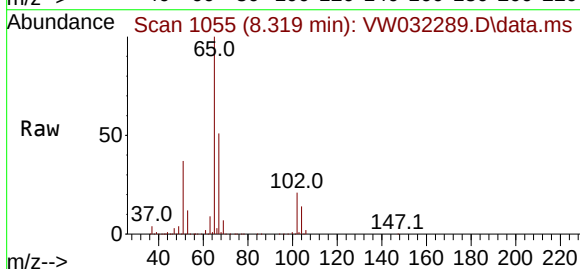
Instrument :
MSVOA_W
ClientSampleId :
VW0929SBL01

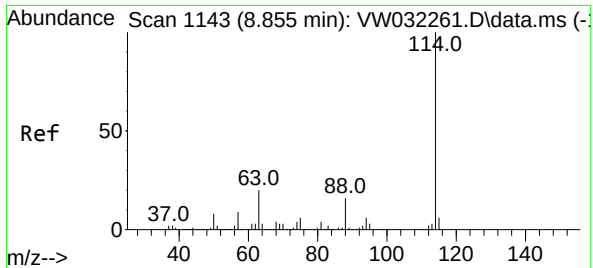
Tgt Ion:168 Resp: 170986
Ion Ratio Lower Upper
168 100
99 63.5 55.0 82.4



#33
1,2-Dichloroethane-d4
Concen: 62.923 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032289.D
Acq: 29 Sep 2025 10:18

Tgt Ion: 65 Resp: 169881
Ion Ratio Lower Upper
65 100
67 51.4 0.0 105.8

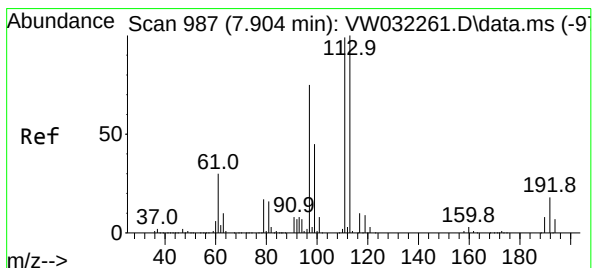
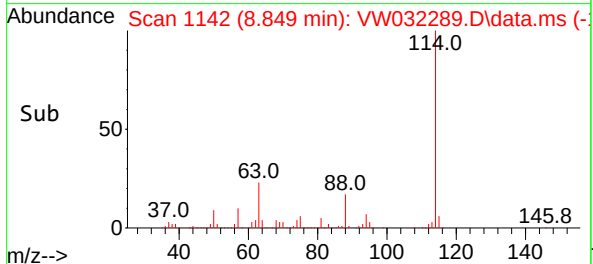
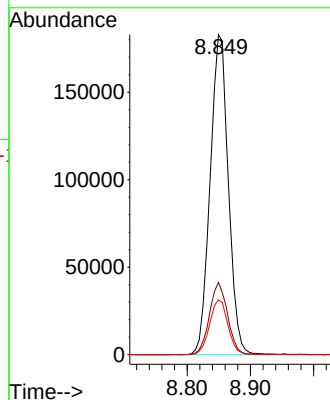
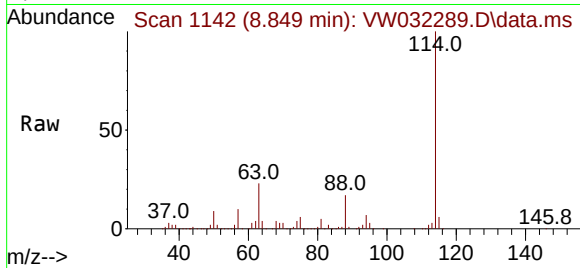




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1143
Delta R.T. -0.006 min
Lab File: VW032289.D
Acq: 29 Sep 2025 10:18

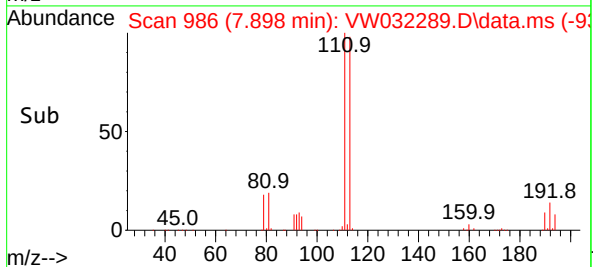
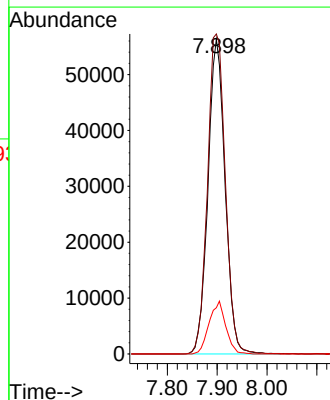
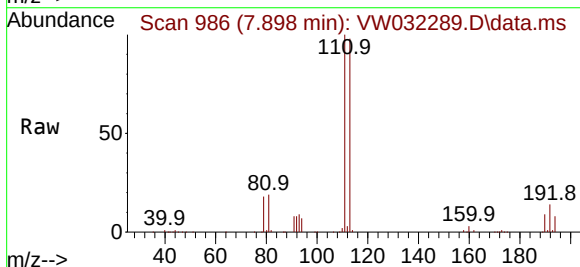
Instrument :
MSVOA_W
ClientSampleId :
VW0929SBL01

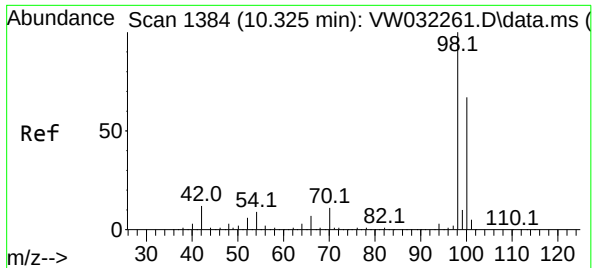
Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	40.2
88	17.1	0.0	32.0



#35
Dibromofluoromethane
Concen: 50.901 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032289.D
Acq: 29 Sep 2025 10:18

Tgt Ion	Ratio	Lower	Upper
113	100		
111	106.2	81.8	122.8
192	16.3	13.0	19.4

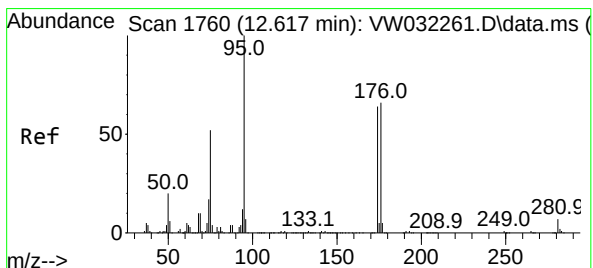
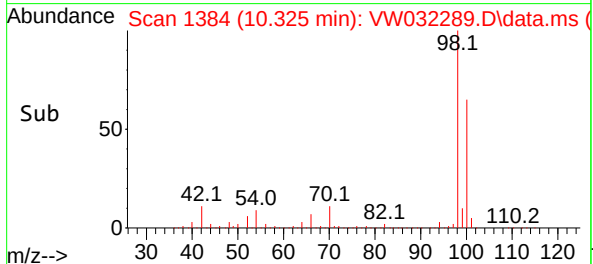
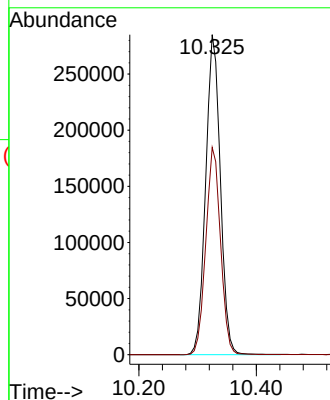
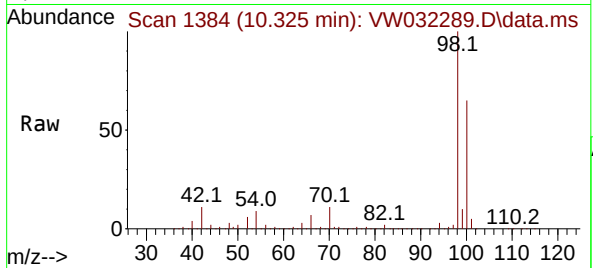




#50
Toluene-d8
Concen: 51.934 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032289.D
Acq: 29 Sep 2025 10:18

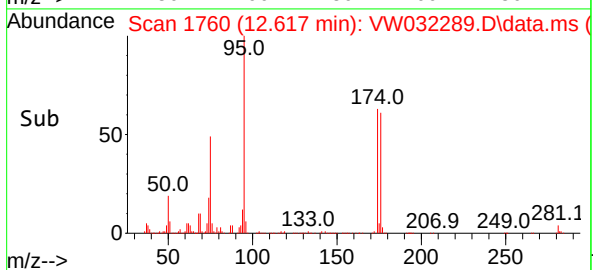
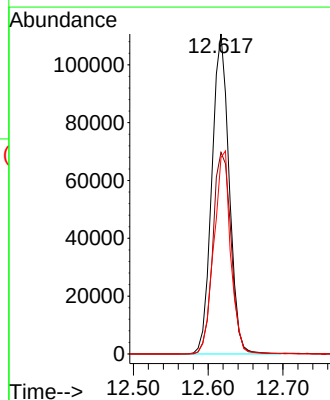
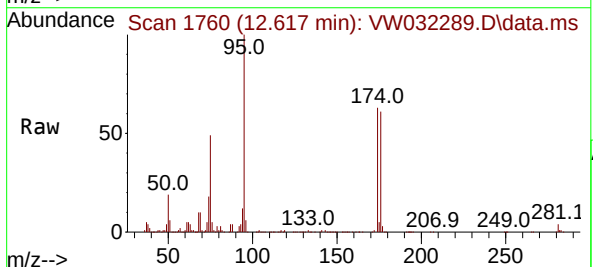
Instrument :
MSVOA_W
ClientSampleId :
VW0929SBL01

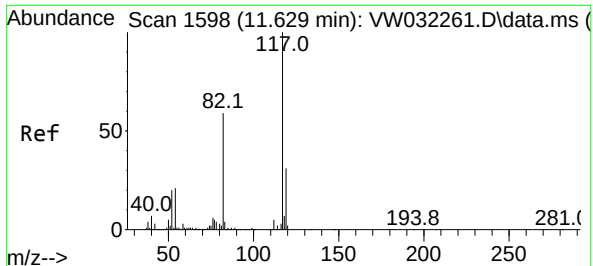
Tgt Ion: 98 Resp: 493728
Ion Ratio Lower Upper
98 100
100 65.0 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 49.626 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032289.D
Acq: 29 Sep 2025 10:18

Tgt Ion: 95 Resp: 177961
Ion Ratio Lower Upper
95 100
174 66.3 0.0 130.6
176 61.8 0.0 127.0

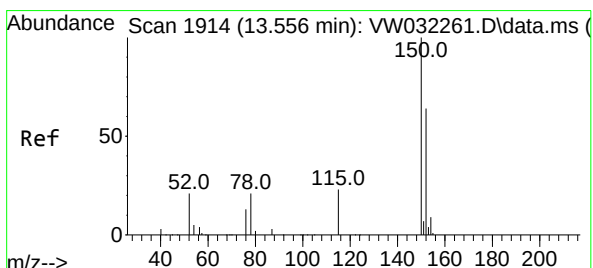
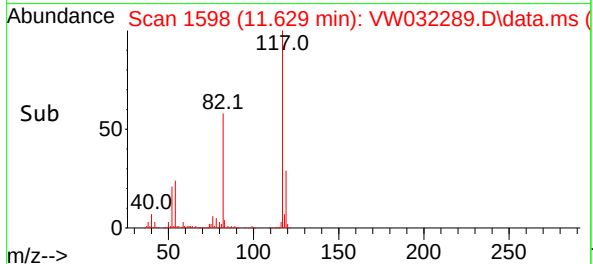
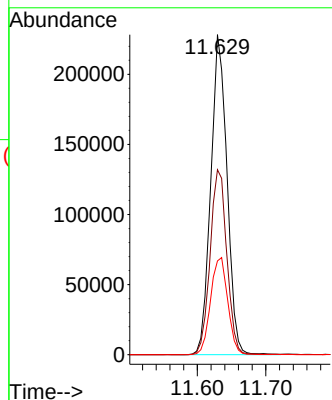
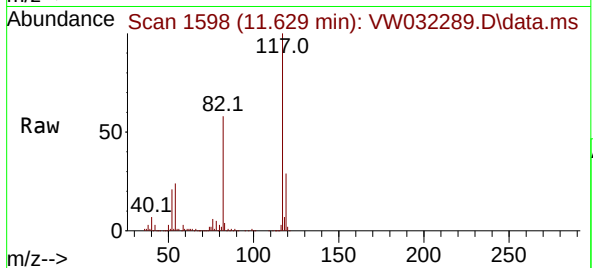




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VW032289.D
Acq: 29 Sep 2025 10:18

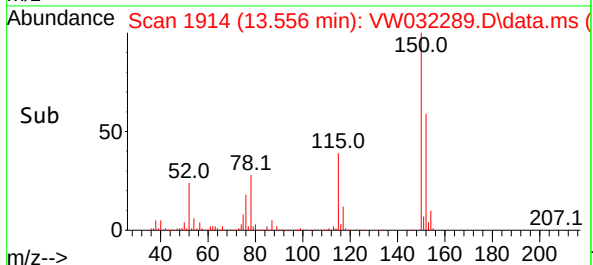
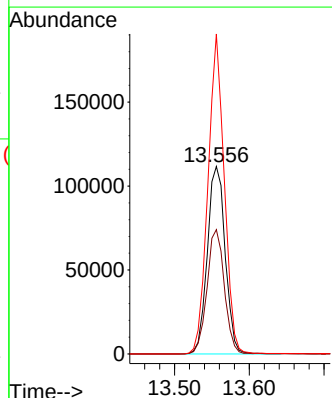
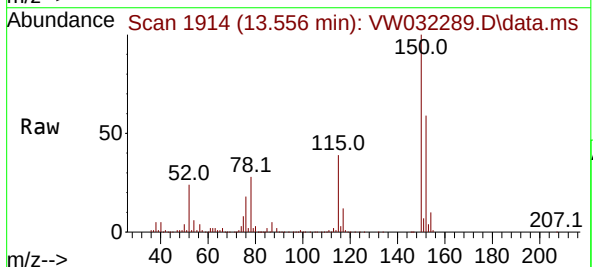
Instrument :
MSVOA_W
ClientSampleId :
VW0929SBL01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.8	46.9	70.3
119	29.3	24.9	37.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032289.D
Acq: 29 Sep 2025 10:18

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.5	32.5	97.5
150	156.0	0.0	370.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
 Data File : VW032289.D
 Acq On : 29 Sep 2025 10:18
 Operator : SY/MD
 Sample : VW0929SBL01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0929SBL01

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\82W092525S.M
 Title : SW846 8260

Signal : TIC: VW032289.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.960	489	504	517	rBV2	24443	101635	7.66%	1.357%
2	5.960	655	668	681	rBV2	17473	55920	4.22%	0.747%
3	7.173	855	867	881	rBV	29441	86819	6.55%	1.159%
4	7.898	973	986	991	rBV2	183386	452662	34.13%	6.043%
5	7.959	991	996	1014	rVB2	238825	551654	41.59%	7.365%
6	8.264	1038	1046	1048	rBV	16655	37413	2.82%	0.500%
7	8.319	1048	1055	1065	rVB	204585	457514	34.49%	6.108%
8	8.849	1133	1142	1153	rBV	446895	903899	68.15%	12.068%
9	10.325	1376	1384	1403	rBV	754065	1326412	100.00%	17.709%
10	10.703	1438	1446	1454	rBV	75734	133564	10.07%	1.783%
11	11.062	1497	1505	1512	rBV	44810	78947	5.95%	1.054%
12	11.629	1590	1598	1608	rBV	708696	1196534	90.21%	15.975%
13	12.617	1751	1760	1778	rBV2	510133	865701	65.27%	11.558%
14	12.928	1806	1811	1817	rVB4	8289	14527	1.10%	0.194%
15	13.556	1907	1914	1925	rBV	737592	1181773	89.10%	15.778%
16	14.062	1993	1997	2003	rVB2	12177	20013	1.51%	0.267%
17	14.318	2032	2039	2049	rBV4	12111	25079	1.89%	0.335%

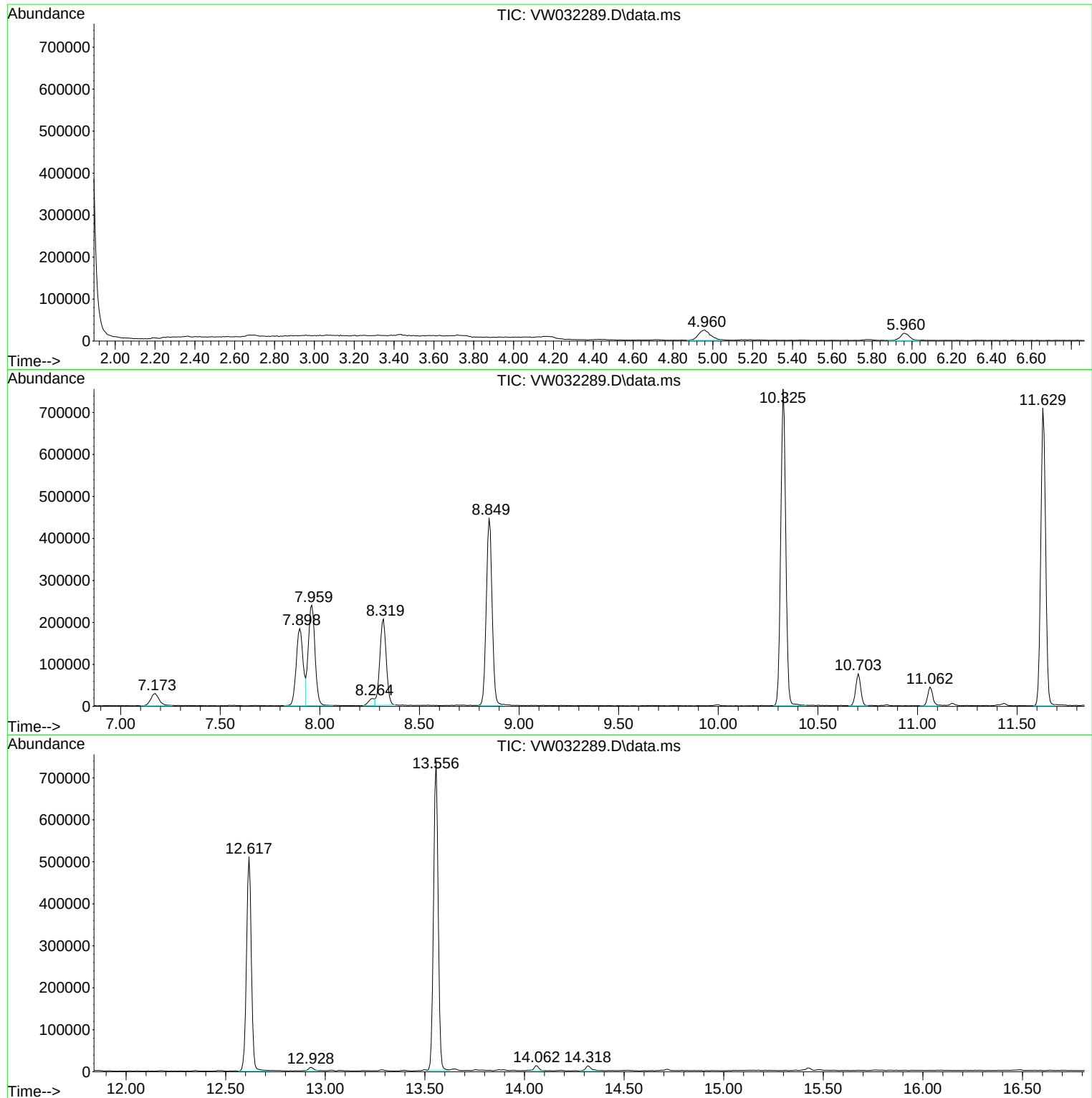
Sum of corrected areas: 7490066

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
Data File : VW032289.D
Acq On : 29 Sep 2025 10:18
Operator : SY/MD
Sample : VW0929SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0929SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
Data File : VW032289.D
Acq On : 29 Sep 2025 10:18
Operator : SY/MD
Sample : VW0929SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0929SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.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\VW092925\
Data File : VW032289.D
Acq On : 29 Sep 2025 10:18
Operator : SY/MD
Sample : VW0929SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0929SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260

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

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

Client:	Yannuzzi Group, Inc.	Date Collected:	
Project:	Edison Yard	Date Received:	
Client Sample ID:	VW0930SBL01	SDG No.:	Q3238
Lab Sample ID:	VW0930SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
	ID :	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032299.D	1	09/30/25 13:25	VW093025

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

Report of Analysis

Client:	Yannuzzi Group, Inc.	Date Collected:	
Project:	Edison Yard	Date Received:	
Client Sample ID:	VW0930SBL01	SDG No.:	Q3238
Lab Sample ID:	VW0930SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
	ID :	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032299.D	1	09/30/25 13:25	VW093025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.0		70 (63) - 130 (155)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		70 (70) - 130 (134)	100%	SPK: 50
2037-26-5	Toluene-d8	51.1		70 (74) - 130 (123)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.1		70 (17) - 130 (146)	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	182000	7.959			
540-36-3	1,4-Difluorobenzene	392000	8.849			
3114-55-4	Chlorobenzene-d5	388000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	183000	13.556			

Report of Analysis

Client:	Yannuzzi Group, Inc.	Date Collected:	
Project:	Edison Yard	Date Received:	
Client Sample ID:	VW0930SBL01	SDG No.:	Q3238
Lab Sample ID:	VW0930SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032299.D	1	09/30/25 13:25	VW093025

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

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
 Data File : VW032299.D
 Acq On : 30 Sep 2025 13:25
 Operator : SY/MD
 Sample : VW0930SBL01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0930SBL01

Quant Time: Oct 01 00:52:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	181583	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	391867	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	387829	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	182932	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	163409	56.993	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	113.980%
35) Dibromofluoromethane	7.898	113	141566	50.233	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	100.460%
50) Toluene-d8	10.325	98	519053	51.104	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	102.200%
62) 4-Bromofluorobenzene	12.617	95	176634	46.105	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	92.200%

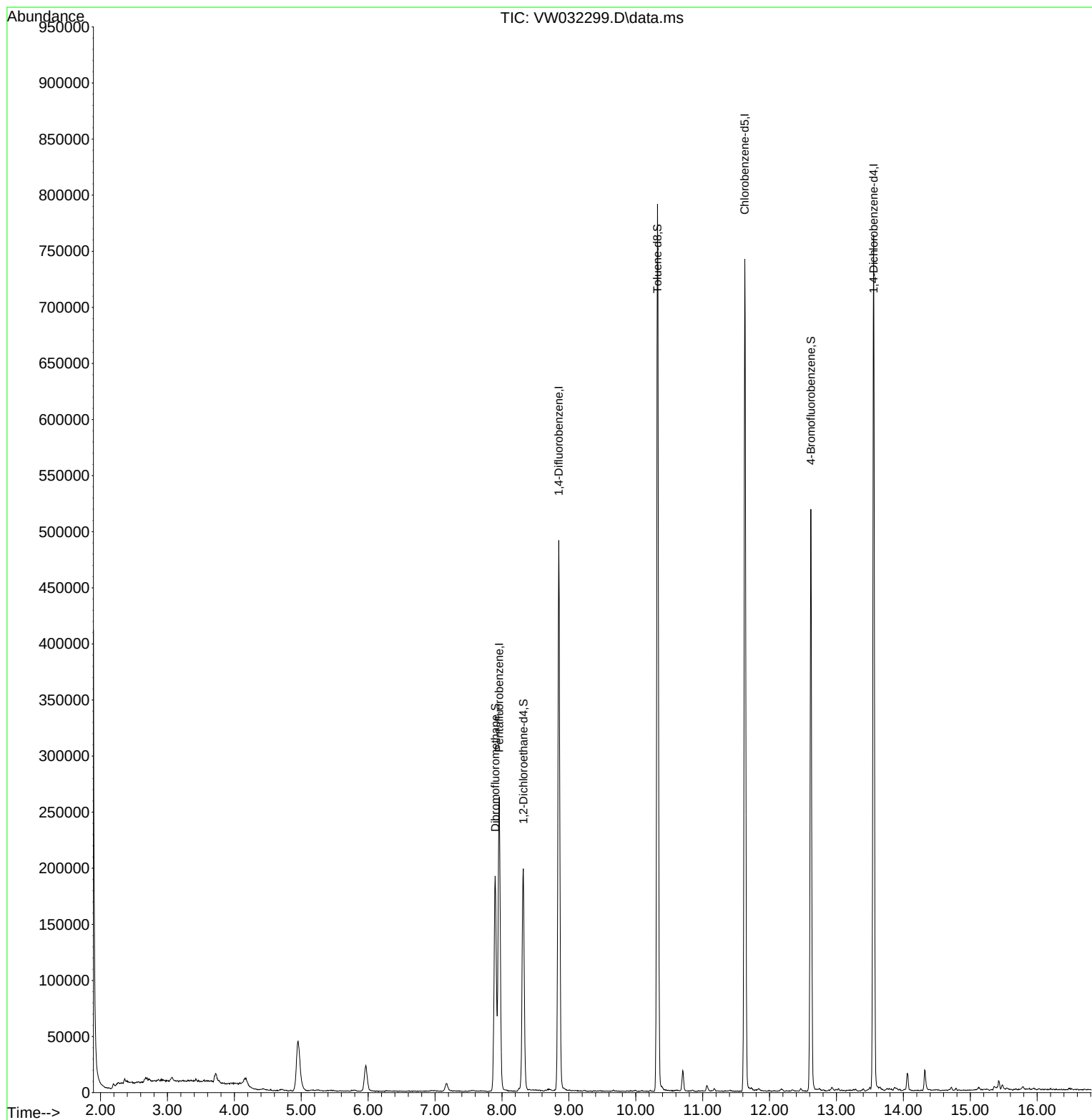
Target Compounds	Qvalue

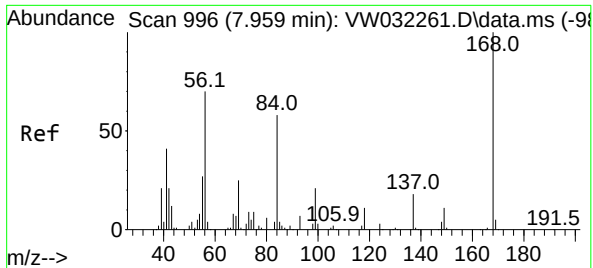
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
Data File : VW032299.D
Acq On : 30 Sep 2025 13:25
Operator : SY/MD
Sample : VW0930SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBL01

Quant Time: Oct 01 00:52:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 2025
Response via : Initial Calibration

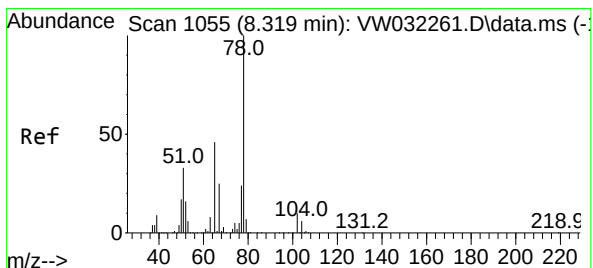
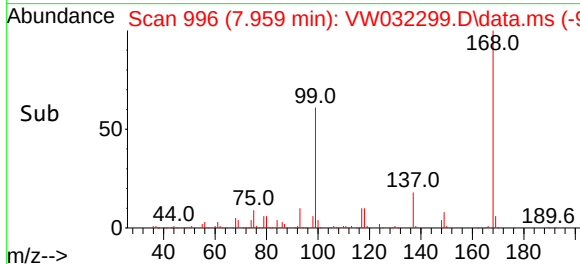
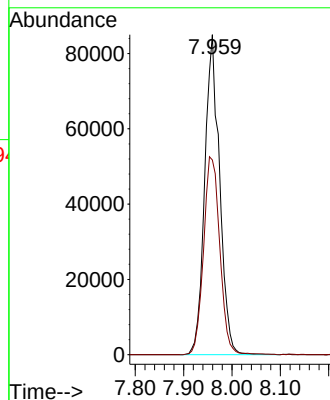
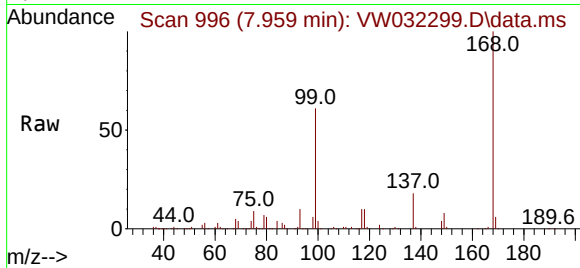




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. 0.000 min
Lab File: VW032299.D
Acq: 30 Sep 2025 13:25

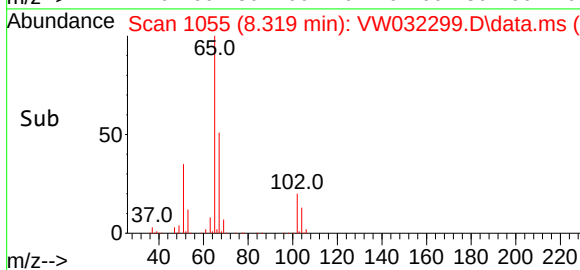
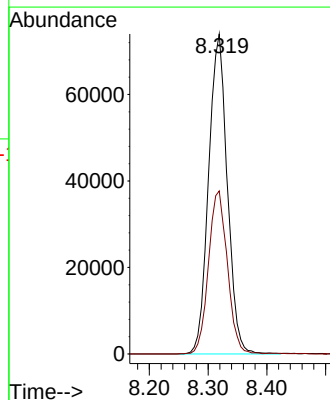
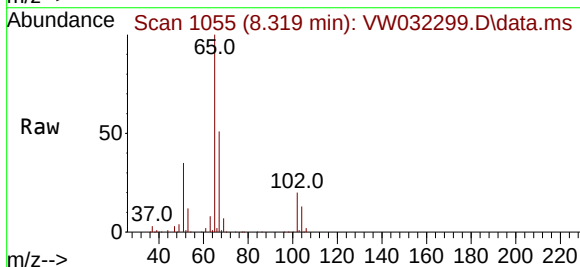
Instrument :
MSVOA_W
ClientSampleId :
VW0930SBL01

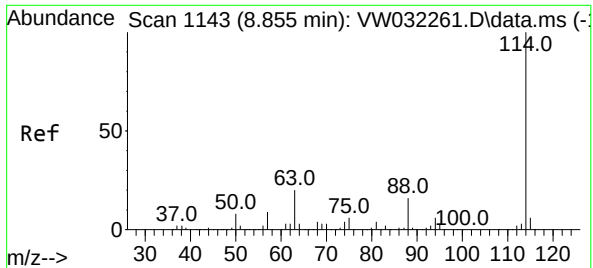
Tgt Ion:168 Resp: 181583
Ion Ratio Lower Upper
168 100
99 60.9 55.0 82.4



#33
1,2-Dichloroethane-d4
Concen: 56.993 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032299.D
Acq: 30 Sep 2025 13:25

Tgt Ion: 65 Resp: 163409
Ion Ratio Lower Upper
65 100
67 51.6 0.0 105.8

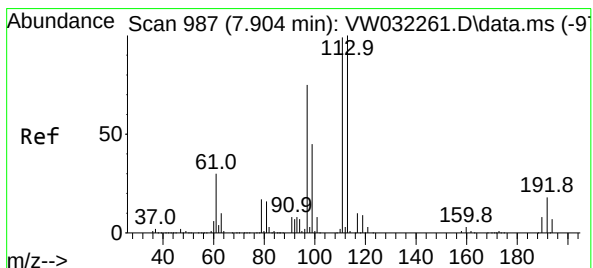
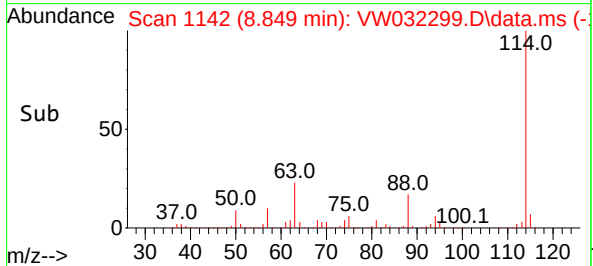
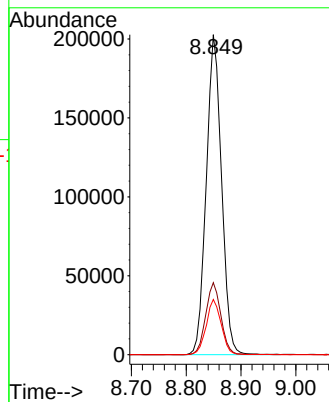
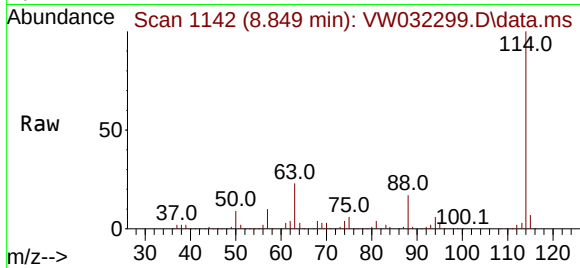




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1143
Delta R.T. -0.006 min
Lab File: VW032299.D
Acq: 30 Sep 2025 13:25

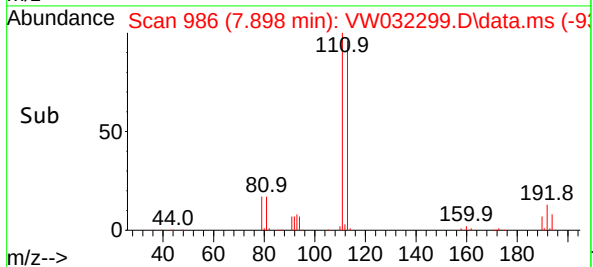
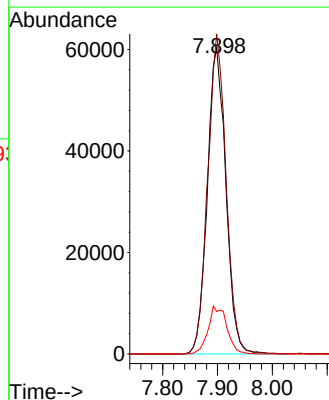
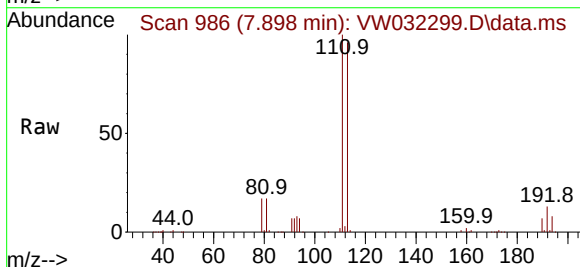
Instrument :
MSVOA_W
ClientSampleId :
VW0930SBL01

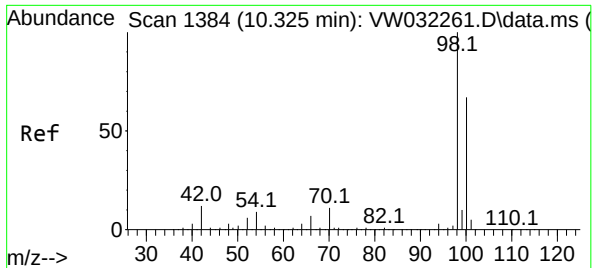
Tgt Ion:114 Resp: 391867
Ion Ratio Lower Upper
114 100
63 22.5 0.0 40.2
88 17.3 0.0 32.0



#35
Dibromofluoromethane
Concen: 50.233 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032299.D
Acq: 30 Sep 2025 13:25

Tgt Ion:113 Resp: 141566
Ion Ratio Lower Upper
113 100
111 103.7 81.8 122.8
192 15.8 13.0 19.4

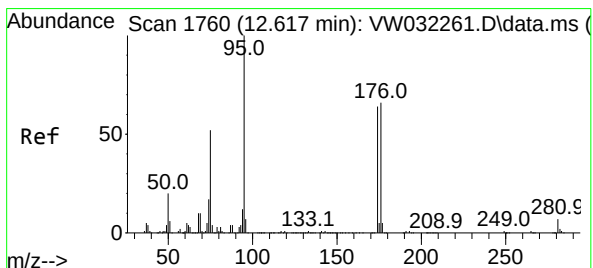
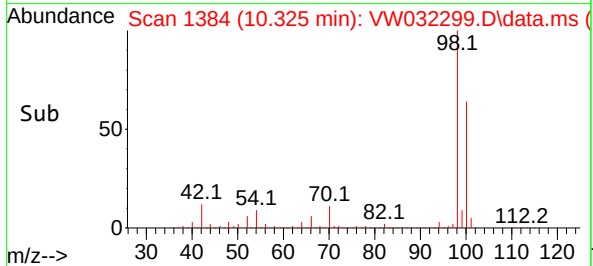
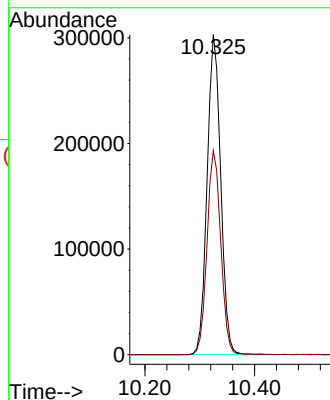
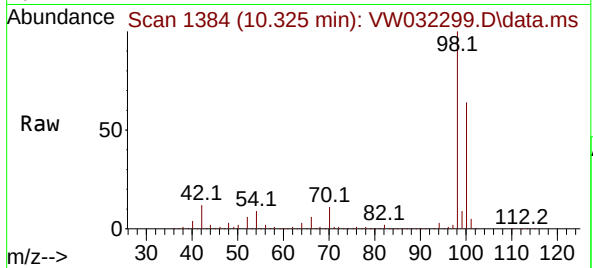




#50
Toluene-d8
Concen: 51.104 ug/l
RT: 10.325 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032299.D
Acq: 30 Sep 2025 13:25

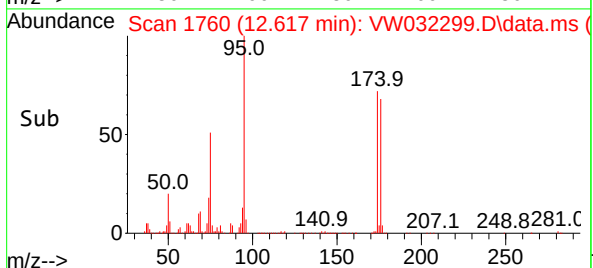
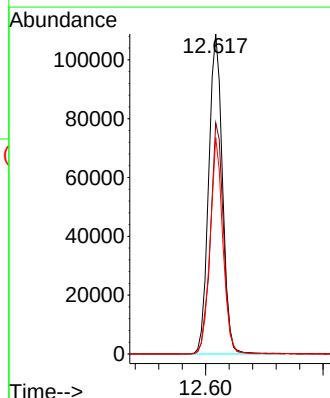
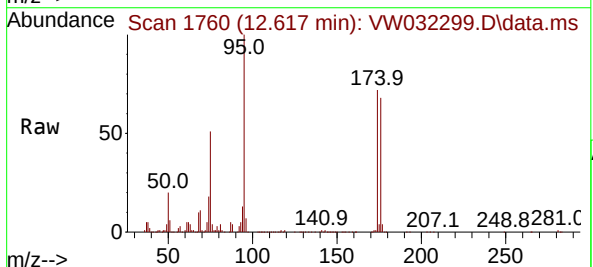
Instrument :
MSVOA_W
ClientSampleId :
VW0930SBL01

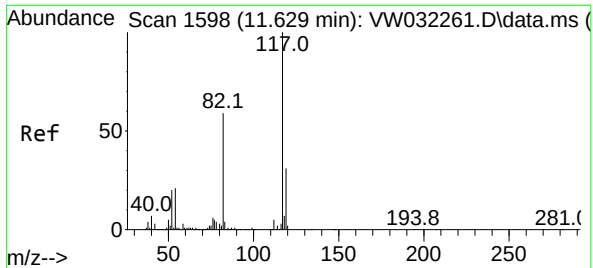
Tgt Ion: 98 Resp: 519053
Ion Ratio Lower Upper
98 100
100 64.4 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 46.105 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032299.D
Acq: 30 Sep 2025 13:25

Tgt Ion: 95 Resp: 176634
Ion Ratio Lower Upper
95 100
174 68.8 0.0 130.6
176 62.6 0.0 127.0

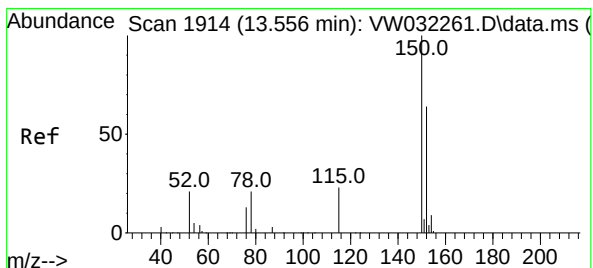
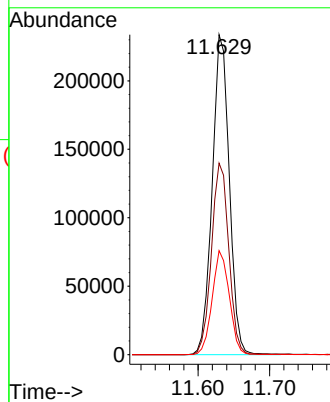
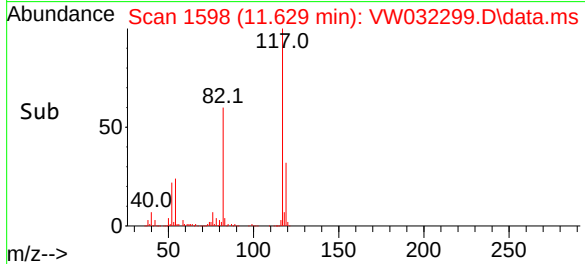
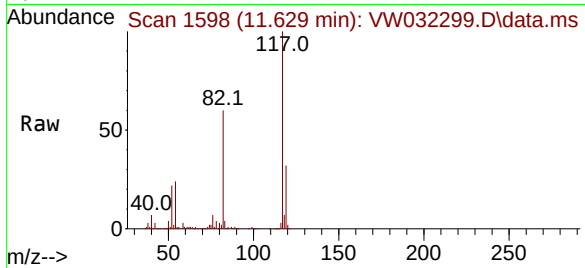




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1159
Delta R.T. 0.000 min
Lab File: VW032299.D
Acq: 30 Sep 2025 13:25

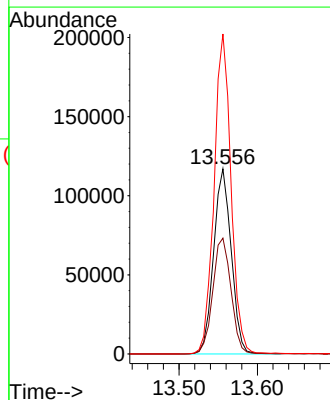
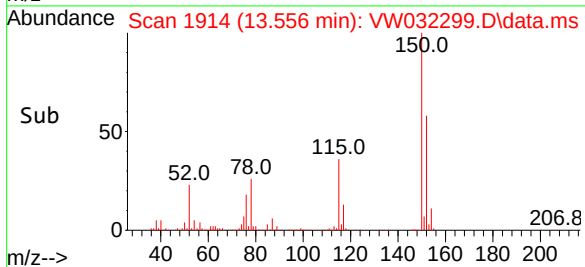
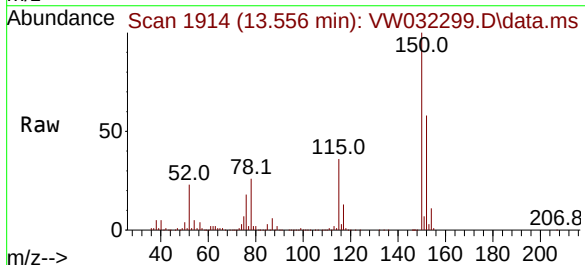
Instrument :
MSVOA_W
ClientSampleId :
VW0930SBL01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	59.9	46.9	70.3
119	32.5	24.9	37.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032299.D
Acq: 30 Sep 2025 13:25

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.6	32.5	97.5
150	166.5	0.0	370.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
 Data File : VW032299.D
 Acq On : 30 Sep 2025 13:25
 Operator : SY/MD
 Sample : VW0930SBL01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0930SBL01

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\82W092525S.M
 Title : SW846 8260

Signal : TIC: VW032299.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.722	295	301	307	rBV2	7728	19005	1.38%	0.254%
2	4.954	489	503	523	rBV2	44629	178296	12.94%	2.387%
3	5.966	656	669	679	rBV3	22922	71121	5.16%	0.952%
4	7.167	858	866	876	rBV2	6699	19457	1.41%	0.260%
5	7.898	976	986	991	rBV	191611	465011	33.75%	6.225%
6	7.959	991	996	1013	rVB	261934	579572	42.07%	7.759%
7	8.319	1046	1055	1066	rVB	197125	440046	31.94%	5.891%
8	8.849	1132	1142	1152	rBV	490279	957877	69.53%	12.823%
9	10.325	1375	1384	1394	rBV	790846	1377678	100.00%	18.443%
10	10.703	1439	1446	1453	rVB2	17864	31211	2.27%	0.418%
11	11.629	1591	1598	1611	rBV	741656	1248718	90.64%	16.717%
12	12.617	1752	1760	1770	rBV	518690	826654	60.00%	11.066%
13	13.556	1907	1914	1926	rBV	761403	1196924	86.88%	16.023%
14	14.056	1990	1996	2002	rVB2	14743	24713	1.79%	0.331%
15	14.318	2034	2039	2049	rBV2	18305	33647	2.44%	0.450%

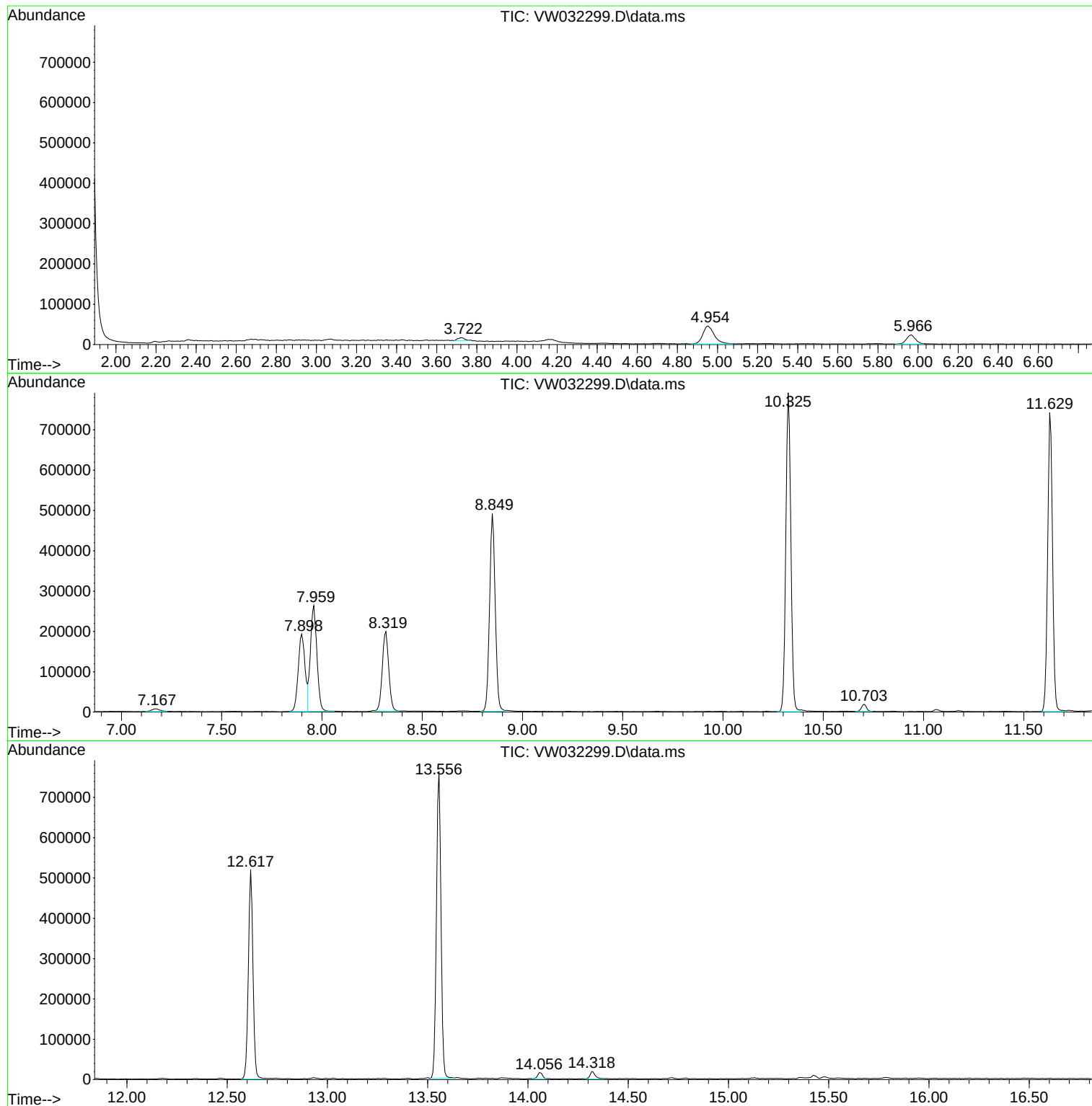
Sum of corrected areas: 7469930

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
Data File : VW032299.D
Acq On : 30 Sep 2025 13:25
Operator : SY/MD
Sample : VW0930SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
Data File : VW032299.D
Acq On : 30 Sep 2025 13:25
Operator : SY/MD
Sample : VW0930SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.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\VW093025\
Data File : VW032299.D
Acq On : 30 Sep 2025 13:25
Operator : SY/MD
Sample : VW0930SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260

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

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

Client:	Yannuzzi Group, Inc.	Date Collected:	
Project:	Edison Yard	Date Received:	
Client Sample ID:	VW0929SBS01	SDG No.:	Q3238
Lab Sample ID:	VW0929SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
Prep Method :	ID : 0.25	Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032290.D	1	09/29/25 10:46	VW092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	23.1		1.10	5.00	ug/Kg
74-87-3	Chloromethane	20.7		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	22.3		0.79	5.00	ug/Kg
74-83-9	Bromomethane	22.5		1.10	5.00	ug/Kg
75-00-3	Chloroethane	20.9		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	17.3		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.4		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.3		1.00	5.00	ug/Kg
67-64-1	Acetone	110		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	22.5		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.3		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	18.5		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.5		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.8		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.8		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	21.7		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.7		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.3		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	21.5		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.8		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.5		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.9		0.91	5.00	ug/Kg
71-43-2	Benzene	21.4		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.3		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	21.1		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.0		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.0		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	21.5		0.78	5.00	ug/Kg

Report of Analysis

Client:	Yannuzzi Group, Inc.	Date Collected:	
Project:	Edison Yard	Date Received:	
Client Sample ID:	VW0929SBS01	SDG No.:	Q3238
Lab Sample ID:	VW0929SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
	ID :	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032290.D	1	09/29/25 10:46	VW092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	21.5		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.7		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.4		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	100		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.1		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.7		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.6		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.9		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.1		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.6		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.9		0.82	5.00	ug/Kg
100-42-5	Styrene	21.9		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.3		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.9		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.1		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.2		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.2		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.7		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.0		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.3		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.5		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.1		70 (63) - 130 (155)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		70 (70) - 130 (134)	97%	SPK: 50
2037-26-5	Toluene-d8	50.3		70 (74) - 130 (123)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		70 (17) - 130 (146)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	225000	7.959			
540-36-3	1,4-Difluorobenzene	420000	8.849			
3114-55-4	Chlorobenzene-d5	397000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	200000	13.556			

Report of Analysis

Client:	Yannuzzi Group, Inc.	Date Collected:	
Project:	Edison Yard	Date Received:	
Client Sample ID:	VW0929SBS01	SDG No.:	Q3238
Lab Sample ID:	VW0929SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Final Vol:	5000
Prep Method :	ID : 0.25	Test:	VOC-TCLVOA-10
		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032290.D	1	09/29/25 10:46	VW092925

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

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
 Data File : VW032290.D
 Acq On : 29 Sep 2025 10:46
 Operator : SY/MD
 Sample : VW0929SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0929SBS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/03/2025
 Supervised By : Mahesh Dadoda 10/03/2025

Quant Time: Sep 30 02:34:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	225036	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	419951	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	396829	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	199844	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	174381	49.076	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	98.160%		
35) Dibromofluoromethane	7.898	113	146844	48.621	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	97.240%		
50) Toluene-d8	10.325	98	547373	50.289	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	100.580%		
62) 4-Bromofluorobenzene	12.617	95	211722	51.568	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	103.140%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.046	85	35934	23.112	ug/l	94
3) Chloromethane	2.253	50	46136	20.735	ug/l	92
4) Vinyl Chloride	2.405	62	58074	22.339	ug/l	94
5) Bromomethane	2.814	94	39894	22.473	ug/l	90
6) Chloroethane	2.960	64	36805	20.893	ug/l	93
7) Trichlorofluoromethane	3.296	101	33837	17.274	ug/l	96
8) Diethyl Ether	3.716	74	37416	20.201	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.100	101	53553	21.419	ug/l	98
10) Methyl Iodide	4.308	142	73935	21.863	ug/l	99
11) Tert butyl alcohol	5.216	59	25705	104.217	ug/l	98
12) 1,1-Dichloroethene	4.076	96	56798	21.251	ug/l	96
13) Acrolein	3.930	56	38342	87.340	ug/l	94
14) Allyl chloride	4.698	41	89568	21.594	ug/l	97
15) Acrylonitrile	5.399	53	96474	101.134	ug/l	99
16) Acetone	4.161	43	104593	114.619	ug/l	97
17) Carbon Disulfide	4.423	76	138489	22.536	ug/l	100
18) Methyl Acetate	4.710	43	58076	18.505	ug/l	100
19) Methyl tert-butyl Ether	5.460	73	105620	21.319	ug/l	99
20) Methylene Chloride	4.954	84	79471	19.500	ug/l	98
21) trans-1,2-Dichloroethene	5.454	96	62775	21.781	ug/l	95
22) Diisopropyl ether	6.338	45	207535	22.517	ug/l	94
23) Vinyl Acetate	6.283	43	667299	112.541	ug/l	97
24) 1,1-Dichloroethane	6.240	63	126769	21.788	ug/l	99
25) 2-Butanone	7.191	43	135022	106.156	ug/l	95
26) 2,2-Dichloropropane	7.185	77	63987	22.317	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	76415	21.318	ug/l	97
28) Bromochloromethane	7.527	49	59681	21.496	ug/l #	100
29) Tetrahydrofuran	7.551	42	83164	100.715	ug/l	96
30) Chloroform	7.691	83	132134	21.766	ug/l	99
31) Cyclohexane	7.965	56	99613	21.712	ug/l	96
32) 1,1,1-Trichloroethane	7.886	97	87971	21.510	ug/l	97
36) 1,1-Dichloropropene	8.094	75	87432	21.473	ug/l	99
37) Ethyl Acetate	7.277	43	56626	20.969	ug/l	99
38) Carbon Tetrachloride	8.075	117	83171	21.711	ug/l	98
39) Methylcyclohexane	9.343	83	98289	20.862	ug/l	98
40) Benzene	8.331	78	274657	21.429	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
 Data File : VW032290.D
 Acq On : 29 Sep 2025 10:46
 Operator : SY/MD
 Sample : VW0929SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0929SBS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
 Supervised By :Mahesh Dadoda 10/03/2025

Quant Time: Sep 30 02:34:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	34551	22.339	ug/l	92
42) 1,2-Dichloroethane	8.411	62	90701	21.290	ug/l	100
43) Isopropyl Acetate	8.435	43	101568	21.011	ug/l	97
44) Trichloroethene	9.099	130	63086	21.058	ug/l	96
45) 1,2-Dichloropropane	9.374	63	69590	20.964	ug/l	100
46) Dibromomethane	9.465	93	41939	20.549	ug/l	97
47) Bromodichloromethane	9.648	83	97961	21.045	ug/l	93
48) Methyl methacrylate	9.441	41	46601	20.491	ug/l	98
49) 1,4-Dioxane	9.465	88	11516	421.308	ug/l #	99
51) 4-Methyl-2-Pentanone	10.215	43	295039	102.939	ug/l	97
52) Toluene	10.392	92	170779	21.498	ug/l	99
53) t-1,3-Dichloropropene	10.605	75	91672	21.495	ug/l	100
54) cis-1,3-Dichloropropene	10.075	75	106963	21.724	ug/l	97
55) 1,1,2-Trichloroethane	10.788	97	56727	20.363	ug/l	99
56) Ethyl methacrylate	10.648	69	74550	20.316	ug/l	97
57) 1,3-Dichloropropane	10.934	76	100057	20.790	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.929	63	192606	95.616	ug/l	100
59) 2-Hexanone	10.971	43	201668	103.036	ug/l	96
60) Dibromochloromethane	11.130	129	64477	21.075	ug/l	98
61) 1,2-Dibromoethane	11.233	107	54662	20.711	ug/l	98
64) Tetrachloroethene	10.861	164	52193	21.582	ug/l	98
65) Chlorobenzene	11.660	112	191009	20.897	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.727	131	60877	21.059	ug/l	98
67) Ethyl Benzene	11.727	91	315928	21.116	ug/l	99
68) m/p-Xylenes	11.837	106	244433	42.619	ug/l	99
69) o-Xylene	12.166	106	112852	20.937	ug/l	99
70) Styrene	12.178	104	207347	21.936	ug/l	99
71) Bromoform	12.349	173	34201	20.302	ug/l #	100
73) Isopropylbenzene	12.465	105	290328	20.873	ug/l	96
74) N-amyl acetate	12.270	43	92369	21.087	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.715	83	73266	20.090	ug/l	99
76) 1,2,3-Trichloropropane	12.763	75	53671m	19.521	ug/l	
77) Bromobenzene	12.745	156	71084	20.778	ug/l	89
78) n-propylbenzene	12.800	91	369686	21.159	ug/l	99
79) 2-Chlorotoluene	12.891	91	227323	21.478	ug/l	99
80) 1,3,5-Trimethylbenzene	12.940	105	255690	21.501	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.507	75	21861	20.653	ug/l	93
82) 4-Chlorotoluene	12.989	91	240171	21.472	ug/l	95
83) tert-Butylbenzene	13.202	119	208923	21.007	ug/l	96
84) 1,2,4-Trimethylbenzene	13.245	105	257248	21.306	ug/l	99
85) sec-Butylbenzene	13.379	105	317730	21.274	ug/l	99
86) p-Isopropyltoluene	13.495	119	268457	21.704	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	143653	21.228	ug/l	99
88) 1,4-Dichlorobenzene	13.574	146	146708	21.221	ug/l	94
89) n-Butylbenzene	13.818	91	257774	20.767	ug/l	98
90) Hexachloroethane	14.086	117	48662	21.109	ug/l	100
91) 1,2-Dichlorobenzene	13.861	146	130834	20.667	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.477	75	12474	19.997	ug/l	94
93) 1,2,4-Trichlorobenzene	15.123	180	72470	19.296	ug/l	97
94) Hexachlorobutadiene	15.226	225	36536	21.182	ug/l	93
95) Naphthalene	15.360	128	176140	19.541	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	71468	20.466	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
Data File : VW032290.D
Acq On : 29 Sep 2025 10:46
Operator : SY/MD
Sample : VW0929SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0929SBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/03/2025

Quant Time: Sep 30 02:34:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 2025
Response via : Initial Calibration

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

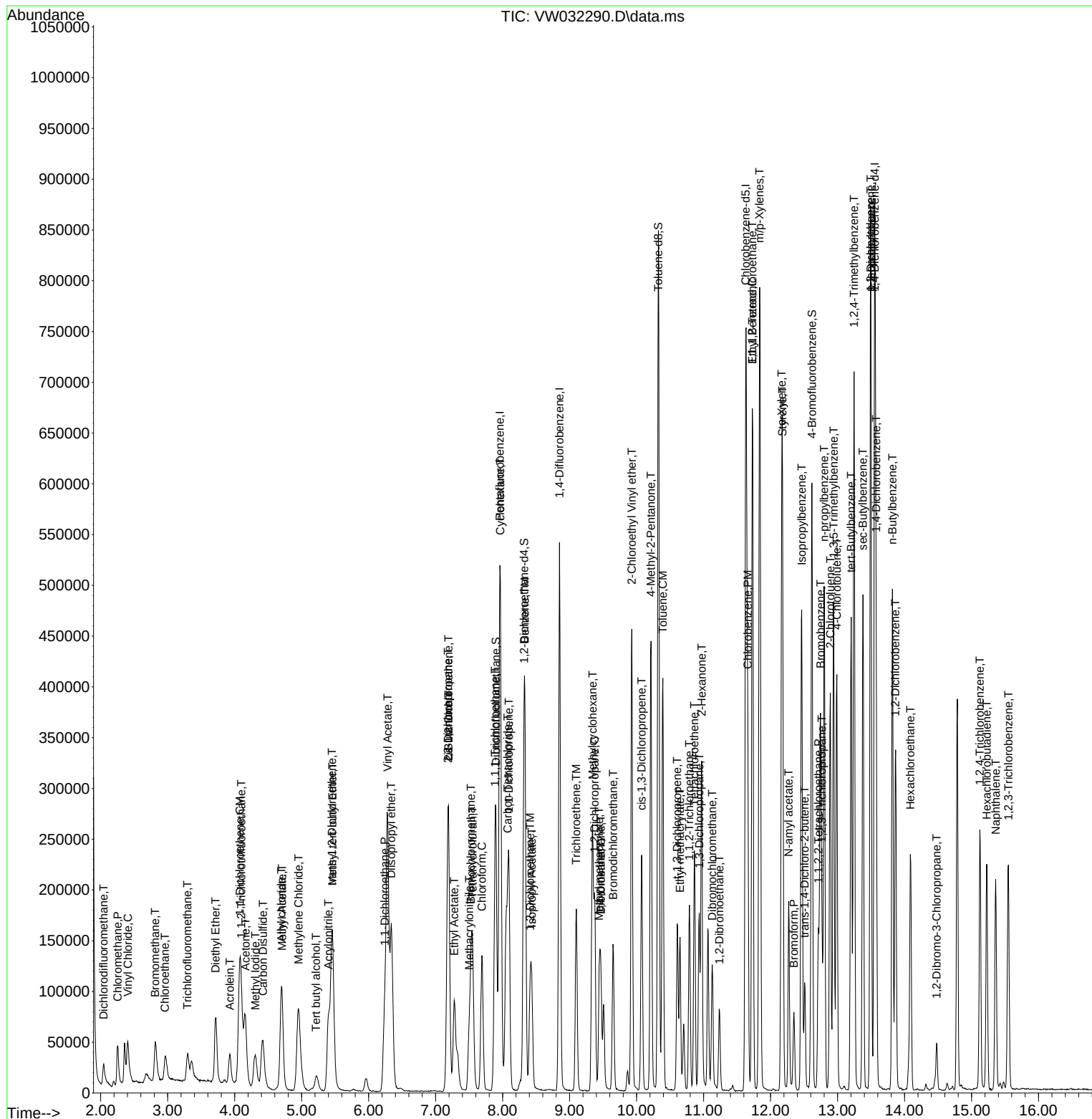
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
Data File : VW032290.D
Acq On : 29 Sep 2025 10:46
Operator : SY/MD
Sample : VW0929SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0929SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/03/2025

Quant Time: Sep 30 02:34:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 2025
Response via : Initial Calibration



Report of Analysis

Client:	Yannuzzi Group, Inc.	Date Collected:	
Project:	Edison Yard	Date Received:	
Client Sample ID:	VW0930SBS01	SDG No.:	Q3238
Lab Sample ID:	VW0930SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032300.D	1	09/30/25 13:51	VW093025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	21.5		1.10	5.00	ug/Kg
74-87-3	Chloromethane	21.9		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	22.4		0.79	5.00	ug/Kg
74-83-9	Bromomethane	22.8		1.10	5.00	ug/Kg
75-00-3	Chloroethane	21.6		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	17.6		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.2		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.9		1.00	5.00	ug/Kg
67-64-1	Acetone	110		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.8		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	22.6		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	21.8		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	20.2		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.8		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.8		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.6		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.3		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.5		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	21.9		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.7		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.9		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.2		0.91	5.00	ug/Kg
71-43-2	Benzene	20.5		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.6		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.5		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.5		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.3		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	20.6		0.78	5.00	ug/Kg

Report of Analysis

Client:	Yannuzzi Group, Inc.	Date Collected:	
Project:	Edison Yard	Date Received:	
Client Sample ID:	VW0930SBS01	SDG No.:	Q3238
Lab Sample ID:	VW0930SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032300.D	1	09/30/25 13:51	VW093025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.5		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.3		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.4		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.0		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.2		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.3		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.5		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.0		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.4		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.3		0.82	5.00	ug/Kg
100-42-5	Styrene	21.0		0.71	5.00	ug/Kg
75-25-2	Bromoform	18.9		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.4		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.8		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.7		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.7		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.8		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.6		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.6		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.9		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.9		70 (63) - 130 (155)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	46.7		70 (70) - 130 (134)	93%	SPK: 50
2037-26-5	Toluene-d8	46.7		70 (74) - 130 (123)	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.6		70 (17) - 130 (146)	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	217000	7.965			
540-36-3	1,4-Difluorobenzene	424000	8.849			
3114-55-4	Chlorobenzene-d5	400000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	207000	13.556			

Report of Analysis

Client:	Yannuzzi Group, Inc.	Date Collected:	
Project:	Edison Yard	Date Received:	
Client Sample ID:	VW0930SBS01	SDG No.:	Q3238
Lab Sample ID:	VW0930SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032300.D	1	09/30/25 13:51	VW093025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
 Data File : VW032300.D
 Acq On : 30 Sep 2025 13:51
 Operator : SY/MD
 Sample : VW0930SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0930SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
 Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 01 00:52:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	217107	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	424498	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	400367	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	206719	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	171101	49.912	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	99.820%		
35) Dibromofluoromethane	7.898	113	142591	46.707	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	93.420%		
50) Toluene-d8	10.325	98	513278	46.651	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	93.300%		
62) 4-Bromofluorobenzene	12.617	95	193357	46.590	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	93.180%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.040	85	32317	21.545	ug/l	96
3) Chloromethane	2.253	50	46917	21.856	ug/l	91
4) Vinyl Chloride	2.399	62	56151	22.388	ug/l	95
5) Bromomethane	2.814	94	39047	22.799	ug/l	96
6) Chloroethane	2.966	64	36649	21.564	ug/l	100
7) Trichlorofluoromethane	3.302	101	33180	17.557	ug/l	97
8) Diethyl Ether	3.722	74	38280	21.422	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.100	101	51158	21.208	ug/l	98
10) Methyl Iodide	4.301	142	72553	22.238	ug/l	99
11) Tert butyl alcohol	5.216	59	29760	125.064	ug/l #	85
12) 1,1-Dichloroethene	4.076	96	56597	21.949	ug/l	98
13) Acrolein	3.936	56	36984	87.323	ug/l	97
14) Allyl chloride	4.698	41	88952	22.228	ug/l	99
15) Acrylonitrile	5.405	53	102289	111.146	ug/l	97
16) Acetone	4.155	43	96955	110.129	ug/l	98
17) Carbon Disulfide	4.423	76	128947	21.750	ug/l	100
18) Methyl Acetate	4.710	43	66026	21.806	ug/l	99
19) Methyl tert-butyl Ether	5.466	73	108064	22.609	ug/l	99
20) Methylene Chloride	4.948	84	78589	20.210	ug/l	95
21) trans-1,2-Dichloroethene	5.454	96	60594	21.793	ug/l	91
22) Diisopropyl ether	6.338	45	201564	22.668	ug/l	95
23) Vinyl Acetate	6.283	43	640056	111.889	ug/l	98
24) 1,1-Dichloroethane	6.240	63	122456	21.815	ug/l	98
25) 2-Butanone	7.191	43	137593	112.128	ug/l	97
26) 2,2-Dichloropropane	7.185	77	57072	20.633	ug/l	99
27) cis-1,2-Dichloroethene	7.185	96	74491	21.540	ug/l	98
28) Bromochloromethane	7.526	49	58717	21.921	ug/l #	98
29) Tetrahydrofuran	7.551	42	87782	110.190	ug/l	97
30) Chloroform	7.691	83	127270	21.730	ug/l	100
31) Cyclohexane	7.965	56	91180	20.600	ug/l	96
32) 1,1,1-Trichloroethane	7.886	97	86401	21.898	ug/l	100
36) 1,1-Dichloropropene	8.093	75	82800	20.117	ug/l	99
37) Ethyl Acetate	7.277	43	56323	20.633	ug/l	99
38) Carbon Tetrachloride	8.081	117	78595	20.297	ug/l	98
39) Methylcyclohexane	9.343	83	91606	19.235	ug/l	95
40) Benzene	8.337	78	265801	20.516	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
 Data File : VW032300.D
 Acq On : 30 Sep 2025 13:51
 Operator : SY/MD
 Sample : VW0930SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0930SBS01

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 Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 01 00:52:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.502	41	30237	19.341	ug/l	97
42) 1,2-Dichloroethane	8.410	62	88787	20.618	ug/l	100
43) Isopropyl Acetate	8.435	43	102367	20.949	ug/l	98
44) Trichloroethene	9.099	130	61945	20.456	ug/l	91
45) 1,2-Dichloropropane	9.374	63	68627	20.452	ug/l	99
46) Dibromomethane	9.465	93	40961	19.855	ug/l	98
47) Bromodichloromethane	9.648	83	95521	20.301	ug/l	98
48) Methyl methacrylate	9.441	41	48650	21.163	ug/l	99
49) 1,4-Dioxane	9.459	88	10743	388.818	ug/l #	86
51) 4-Methyl-2-Pentanone	10.215	43	302045	104.255	ug/l	98
52) Toluene	10.392	92	165196	20.573	ug/l	99
53) t-1,3-Dichloropropene	10.611	75	88266	20.474	ug/l	99
54) cis-1,3-Dichloropropene	10.075	75	100883	20.270	ug/l	98
55) 1,1,2-Trichloroethane	10.788	97	57572	20.445	ug/l	97
56) Ethyl methacrylate	10.648	69	74646	20.124	ug/l	99
57) 1,3-Dichloropropane	10.934	76	100952	20.752	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.928	63	206010	101.174	ug/l	100
59) 2-Hexanone	10.971	43	209711	105.997	ug/l	97
60) Dibromochloromethane	11.129	129	61887	20.011	ug/l	97
61) 1,2-Dibromoethane	11.233	107	53988	20.237	ug/l	97
64) Tetrachloroethene	10.861	164	51942	21.289	ug/l	93
65) Chlorobenzene	11.660	112	188722	20.464	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.727	131	59658	20.455	ug/l	98
67) Ethyl Benzene	11.733	91	302232	20.022	ug/l	99
68) m/p-Xylenes	11.837	106	239515	41.392	ug/l	97
69) o-Xylene	12.166	106	110318	20.286	ug/l	98
70) Styrene	12.178	104	200334	21.007	ug/l	100
71) Bromoform	12.349	173	32178	18.932	ug/l #	95
73) Isopropylbenzene	12.465	105	279227	19.407	ug/l	100
74) N-amyl acetate	12.270	43	90017	19.867	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.715	83	74693	19.800	ug/l	100
76) 1,2,3-Trichloropropane	12.763	75	55630m	19.561	ug/l	
77) Bromobenzene	12.745	156	69347	19.596	ug/l	89
78) n-propylbenzene	12.800	91	352235	19.490	ug/l	100
79) 2-Chlorotoluene	12.891	91	220158	20.110	ug/l	98
80) 1,3,5-Trimethylbenzene	12.940	105	248065	20.166	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.507	75	20023	18.287	ug/l	93
82) 4-Chlorotoluene	12.983	91	230598	19.930	ug/l	99
83) tert-Butylbenzene	13.202	119	198391	19.284	ug/l	97
84) 1,2,4-Trimethylbenzene	13.245	105	251417	20.130	ug/l	99
85) sec-Butylbenzene	13.379	105	304113	19.685	ug/l	99
86) p-Isopropyltoluene	13.495	119	254644	19.903	ug/l	99
87) 1,3-Dichlorobenzene	13.495	146	145063	20.723	ug/l	98
88) 1,4-Dichlorobenzene	13.574	146	141131	19.735	ug/l	98
89) n-Butylbenzene	13.818	91	248350	19.342	ug/l	99
90) Hexachloroethane	14.086	117	45381	19.031	ug/l	100
91) 1,2-Dichlorobenzene	13.867	146	129580	19.788	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.476	75	12672	19.639	ug/l	95
93) 1,2,4-Trichlorobenzene	15.123	180	75989	19.560	ug/l	97
94) Hexachlorobutadiene	15.226	225	36478	20.445	ug/l	85
95) Naphthalene	15.360	128	176967	18.980	ug/l	100
96) 1,2,3-Trichlorobenzene	15.549	180	71958	19.921	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
Data File : VW032300.D
Acq On : 30 Sep 2025 13:51
Operator : SY/MD
Sample : VW0930SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBS01

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Reviewed By :Mahesh Dadoda 10/03/2025
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Quant Time: Oct 01 00:52:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 2025
Response via : Initial Calibration

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

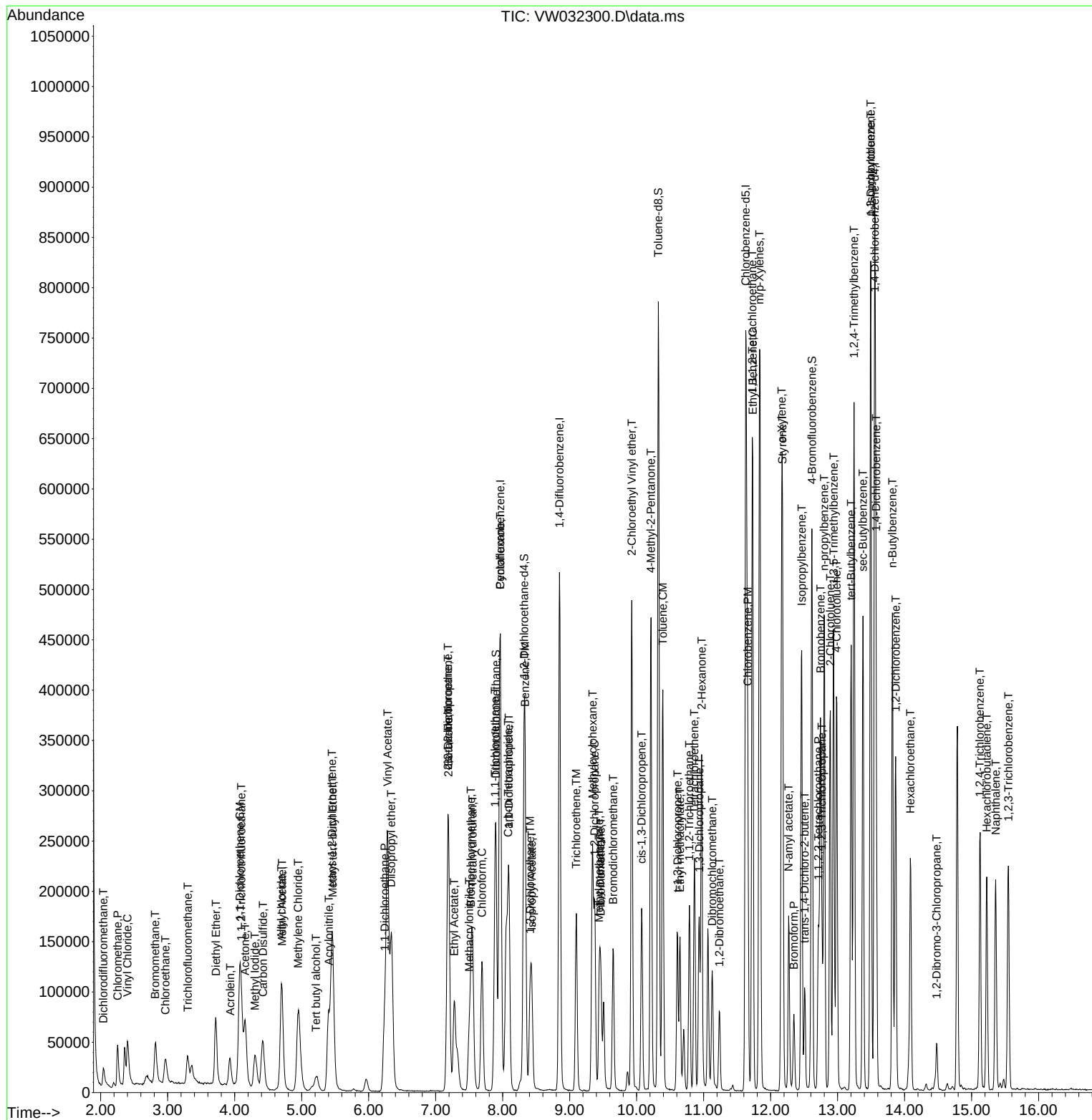
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW093025\
Data File : VW032300.D
Acq On : 30 Sep 2025 13:51
Operator : SY/MD
Sample : VW0930SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0930SBS01

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Quant Time: Oct 01 00:52:31 2025
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Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 2025
Response via : Initial Calibration



Report of Analysis

Client:	Yannuzzi Group, Inc.	Date Collected:	
Project:	Edison Yard	Date Received:	
Client Sample ID:	VW0929SBSD01	SDG No.:	Q3238
Lab Sample ID:	VW0929SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032291.D	1	09/29/25 11:09	VW092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	22.9		1.10	5.00	ug/Kg
74-87-3	Chloromethane	20.7		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	21.0		0.79	5.00	ug/Kg
74-83-9	Bromomethane	20.5		1.10	5.00	ug/Kg
75-00-3	Chloroethane	20.8		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	18.9		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.4		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.5		1.00	5.00	ug/Kg
67-64-1	Acetone	100		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.7		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.4		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	18.4		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	15.7		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.5		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.9		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	21.1		0.79	5.00	ug/Kg
78-93-3	2-Butanone	98.2		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.0		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.4		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.8		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.8		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.7		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.4		0.91	5.00	ug/Kg
71-43-2	Benzene	20.7		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.2		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	21.0		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.5		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.3		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	20.5		0.78	5.00	ug/Kg

Report of Analysis

Client:	Yannuzzi Group, Inc.	Date Collected:	
Project:	Edison Yard	Date Received:	
Client Sample ID:	VW0929SBSD01	SDG No.:	Q3238
Lab Sample ID:	VW0929SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	Test:	VOC-TCLVOA-10
	ID :	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032291.D	1	09/29/25 11:09	VW092925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.3		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.9		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.9		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	100		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.8		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.9		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.8		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	21.9		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.6		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	43.7		1.20	10.0	ug/Kg
95-47-6	o-Xylene	21.9		0.82	5.00	ug/Kg
100-42-5	Styrene	22.4		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.9		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.6		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.2		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	22.2		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	22.8		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	22.2		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	21.2		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.7		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	21.0		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.9		70 (63) - 130 (155)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	47.0		70 (70) - 130 (134)	94%	SPK: 50
2037-26-5	Toluene-d8	48.7		70 (74) - 130 (123)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		70 (17) - 130 (146)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	236000	7.965			
540-36-3	1,4-Difluorobenzene	436000	8.855			
3114-55-4	Chlorobenzene-d5	387000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	192000	13.556			

Report of Analysis

Client:	Yannuzzi Group, Inc.	Date Collected:	
Project:	Edison Yard	Date Received:	
Client Sample ID:	VW0929SBSD01	SDG No.:	Q3238
Lab Sample ID:	VW0929SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW032291.D	1	09/29/25 11:09	VW092925

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

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
 Data File : VW032291.D
 Acq On : 29 Sep 2025 11:09
 Operator : SY/MD
 Sample : VW0929SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0929SBS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
 Supervised By :Mahesh Dadoda 10/03/2025

Quant Time: Sep 30 02:35:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	235838	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	436378	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	387451	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	191625	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	181976	48.868	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	97.740%		
35) Dibromofluoromethane	7.904	113	147580	47.026	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	94.060%		
50) Toluene-d8	10.325	98	551350	48.747	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	97.500%		
62) 4-Bromofluorobenzene	12.617	95	208290	48.822	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	97.640%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.046	85	37302	22.893	ug/l	98
3) Chloromethane	2.253	50	48171	20.658	ug/l	91
4) Vinyl Chloride	2.405	62	57116	20.964	ug/l	93
5) Bromomethane	2.820	94	38148	20.505	ug/l	95
6) Chloroethane	2.966	64	38309	20.750	ug/l	95
7) Trichlorofluoromethane	3.301	101	38732	18.867	ug/l	98
8) Diethyl Ether	3.716	74	38676	19.925	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.094	101	53405	20.381	ug/l	98
10) Methyl Iodide	4.314	142	71702	20.231	ug/l	99
11) Tert butyl alcohol	5.234	59	25566	98.906	ug/l	99
12) 1,1-Dichloroethene	4.076	96	54583	19.487	ug/l	99
13) Acrolein	3.936	56	38407	83.481	ug/l	95
14) Allyl chloride	4.704	41	90813	20.891	ug/l	98
15) Acrylonitrile	5.405	53	98066	98.095	ug/l	98
16) Acetone	4.161	43	96919	101.345	ug/l	99
17) Carbon Disulfide	4.423	76	133549	20.737	ug/l	98
18) Methyl Acetate	4.710	43	60367	18.354	ug/l	99
19) Methyl tert-butyl Ether	5.472	73	106162	20.447	ug/l	98
20) Methylene Chloride	4.954	84	71995	15.653	ug/l	98
21) trans-1,2-Dichloroethene	5.454	96	61877	20.487	ug/l	95
22) Diisopropyl ether	6.344	45	209902	21.731	ug/l	98
23) Vinyl Acetate	6.289	43	677309	108.997	ug/l	96
24) 1,1-Dichloroethane	6.246	63	127350	20.885	ug/l	98
25) 2-Butanone	7.197	43	130879	98.185	ug/l	94
26) 2,2-Dichloropropane	7.185	77	62759	20.887	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	76780	20.439	ug/l	98
28) Bromochloromethane	7.532	49	60580	20.821	ug/l #	99
29) Tetrahydrofuran	7.557	42	87815	101.477	ug/l	96
30) Chloroform	7.691	83	132458	20.820	ug/l	93
31) Cyclohexane	7.971	56	101659	21.143	ug/l	95
32) 1,1,1-Trichloroethane	7.886	97	88799	20.718	ug/l	97
36) 1,1-Dichloropropene	8.093	75	86323	20.402	ug/l	98
37) Ethyl Acetate	7.276	43	57255	20.404	ug/l	98
38) Carbon Tetrachloride	8.081	117	83700	21.027	ug/l	97
39) Methylcyclohexane	9.343	83	99706	20.366	ug/l	96
40) Benzene	8.337	78	276063	20.728	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
 Data File : VW032291.D
 Acq On : 29 Sep 2025 11:09
 Operator : SY/MD
 Sample : VW0929SBS01
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0929SBS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/03/2025
 Supervised By : Mahesh Dadoda 10/03/2025

Quant Time: Sep 30 02:35:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.508	41	32988	20.526	ug/l	96
42) 1,2-Dichloroethane	8.416	62	89380	20.190	ug/l	100
43) Isopropyl Acetate	8.441	43	104356	20.775	ug/l	97
44) Trichloroethene	9.099	130	65460	21.028	ug/l	92
45) 1,2-Dichloropropane	9.380	63	70794	20.524	ug/l	96
46) Dibromomethane	9.471	93	42317	19.954	ug/l	100
47) Bromodichloromethane	9.654	83	98428	20.349	ug/l	96
48) Methyl methacrylate	9.447	41	48419	20.489	ug/l	97
49) 1,4-Dioxane	9.465	88	9941	349.997	ug/l #	80
51) 4-Methyl-2-Pentanone	10.215	43	302807	101.673	ug/l	96
52) Toluene	10.392	92	168841	20.454	ug/l	98
53) t-1,3-Dichloropropene	10.611	75	90013	20.311	ug/l	98
54) cis-1,3-Dichloropropene	10.081	75	107162	20.945	ug/l	99
55) 1,1,2-Trichloroethane	10.788	97	57625	19.906	ug/l	97
56) Ethyl methacrylate	10.648	69	75392	19.772	ug/l	97
57) 1,3-Dichloropropane	10.934	76	100526	20.102	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.928	63	209371	100.026	ug/l	99
59) 2-Hexanone	10.971	43	205343	100.964	ug/l	95
60) Dibromochloromethane	11.129	129	62908	19.788	ug/l	98
61) 1,2-Dibromoethane	11.233	107	54534	19.885	ug/l	99
64) Tetrachloroethene	10.861	164	51357	21.751	ug/l	88
65) Chlorobenzene	11.660	112	195381	21.892	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.733	131	62404	22.110	ug/l	98
67) Ethyl Benzene	11.733	91	315693	21.611	ug/l	99
68) m/p-Xylenes	11.837	106	244735	43.704	ug/l	96
69) o-Xylene	12.166	106	115365	21.921	ug/l	99
70) Styrene	12.184	104	206724	22.399	ug/l	99
71) Bromoform	12.349	173	34350	20.884	ug/l #	98
73) Isopropylbenzene	12.464	105	288468	21.628	ug/l	99
74) N-amyl acetate	12.269	43	93996	22.379	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.714	83	74264	21.237	ug/l	99
76) 1,2,3-Trichloropropane	12.763	75	54881m	20.817	ug/l	
77) Bromobenzene	12.745	156	69335	21.136	ug/l	87
78) n-propylbenzene	12.800	91	371108	22.152	ug/l	100
79) 2-Chlorotoluene	12.891	91	223844	22.057	ug/l	100
80) 1,3,5-Trimethylbenzene	12.940	105	254716	22.338	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.507	75	21484	21.167	ug/l	94
82) 4-Chlorotoluene	12.983	91	241948	22.558	ug/l	95
83) tert-Butylbenzene	13.202	119	209737	21.993	ug/l	98
84) 1,2,4-Trimethylbenzene	13.245	105	260904	22.535	ug/l	97
85) sec-Butylbenzene	13.379	105	314117	21.935	ug/l	100
86) p-Isopropyltoluene	13.495	119	259467	21.877	ug/l	98
87) 1,3-Dichlorobenzene	13.495	146	144010	22.193	ug/l	97
88) 1,4-Dichlorobenzene	13.574	146	151158	22.803	ug/l	93
89) n-Butylbenzene	13.818	91	259636	21.814	ug/l	99
90) Hexachloroethane	14.086	117	49590	22.434	ug/l	96
91) 1,2-Dichlorobenzene	13.867	146	134572	22.169	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.482	75	12655	21.158	ug/l	93
93) 1,2,4-Trichlorobenzene	15.123	180	74440	20.671	ug/l	97
94) Hexachlorobutadiene	15.226	225	36514	22.078	ug/l	93
95) Naphthalene	15.360	128	181145	20.958	ug/l	99
96) 1,2,3-Trichlorobenzene	15.549	180	70332	21.004	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
Data File : VW032291.D
Acq On : 29 Sep 2025 11:09
Operator : SY/MD
Sample : VW0929SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0929SBSD01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/03/2025

Quant Time: Sep 30 02:35:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 2025
Response via : Initial Calibration

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

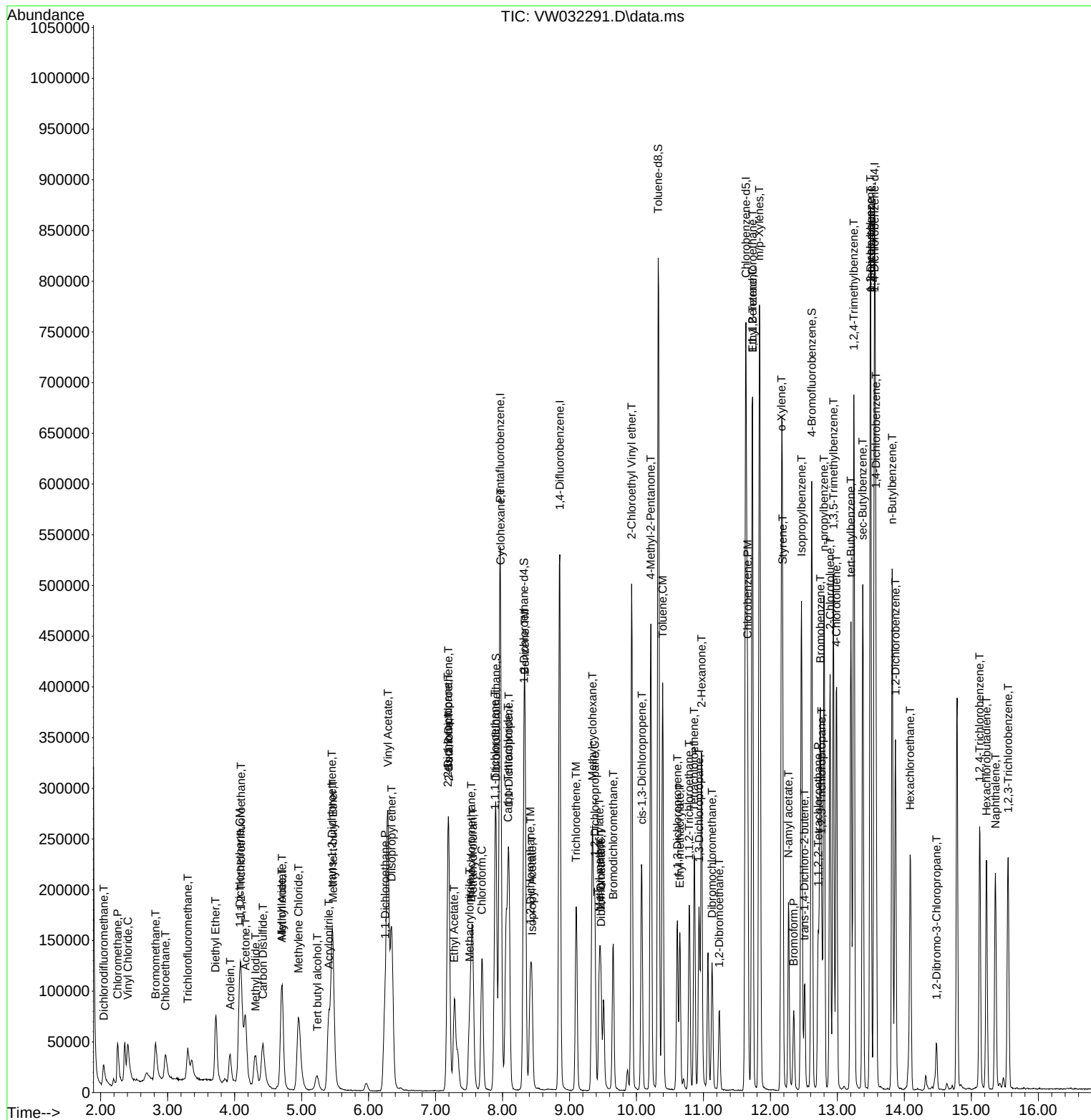
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092925\
Data File : VW032291.D
Acq On : 29 Sep 2025 11:09
Operator : SY/MD
Sample : VW0929SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0929SBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
Supervised By :Mahesh Dadoda 10/03/2025

Quant Time: Sep 30 02:35:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:

VW092525

Instrument

MSVOA_w

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VW032258.D	1,2,3-Trichloropropane	MMdadod a	9/29/2025 12:53:23 AM	sam	9/29/2025 1:04:57 AM	Peak Integrated by Software
VSTDICC010	VW032259.D	1,2,3-Trichloropropane	MMdadod a	9/29/2025 12:53:28 AM	sam	9/29/2025 1:05:07 AM	Peak Integrated by Software
VSTDICC020	VW032260.D	1,2,3-Trichloropropane	MMdadod a	9/29/2025 12:53:34 AM	sam	9/29/2025 1:05:14 AM	Peak Integrated by Software
VSTDICCC050	VW032261.D	1,2,3-Trichloropropane	MMdadod a	9/29/2025 12:53:41 AM	sam	9/29/2025 1:05:24 AM	Peak Integrated by Software
VSTDICC100	VW032262.D	1,2,3-Trichloropropane	MMdadod a	9/29/2025 12:53:48 AM	sam	9/29/2025 1:05:28 AM	Peak Integrated by Software
VSTDICC150	VW032263.D	1,2,3-Trichloropropane	MMdadod a	9/29/2025 12:53:53 AM	sam	9/29/2025 1:05:38 AM	Peak Integrated by Software
VSTDICV050	VW032265.D	1,2,3-Trichloropropane	MMdadod a	9/29/2025 12:53:58 AM	sam	9/29/2025 1:05:42 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VW092925

Instrument

MSVOA_w

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VW032288.D	1,2,3-Trichloropropane	SAM	10/3/2025 2:29:19 AM	MMDadoda	10/3/2025 2:32:35 AM	Peak Integrated by Software
VW0929SBS01	VW032290.D	1,2,3-Trichloropropane	SAM	10/3/2025 2:29:21 AM	MMDadoda	10/3/2025 2:32:37 AM	Peak Integrated by Software
VW0929SBSD01	VW032291.D	1,2,3-Trichloropropane	SAM	10/3/2025 2:29:22 AM	MMDadoda	10/3/2025 2:32:38 AM	Peak Integrated by Software
VSTDCCC050	VW032296.D	1,2,3-Trichloropropane	SAM	10/3/2025 2:29:24 AM	MMDadoda	10/3/2025 2:32:41 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:	VW093025	Instrument	MSVOA_w
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VW032298.D	1,2,3-Trichloropropane	MMDadoda	10/3/2025 2:25:25 AM	SAM	10/3/2025 2:30:09 AM	Peak Integrated by Software
VW0930SBS01	VW032300.D	1,2,3-Trichloropropane	MMDadoda	10/3/2025 2:25:27 AM	SAM	10/3/2025 2:30:11 AM	Peak Integrated by Software

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QC Batch ID # VW092525

Review By	Mahesh Dadoda	Review On	9/29/2025 1:07:01 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/29/2025 1:07:30 AM		
SubDirectory	VW092525	HP Acquire Method	MSVOA_W	HP Processing Method	82w092525s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP135637			
Initial Calibration Stds		VP135638,VP135639,VP135641,VP135642,VP135643,VP135644			
CCC					
Internal Standard/PEM		VP133934			
ICV/I.BLK		VP135645			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VW032257.D	25 Sep 2025 10:01	SY/MD	Ok
2	VSTDIC005	VW032258.D	25 Sep 2025 10:45	SY/MD	Ok,M
3	VSTDIC010	VW032259.D	25 Sep 2025 11:30	SY/MD	Ok,M
4	VSTDIC020	VW032260.D	25 Sep 2025 11:52	SY/MD	Ok,M
5	VSTDIC050	VW032261.D	25 Sep 2025 12:24	SY/MD	Ok,M
6	VSTDIC100	VW032262.D	25 Sep 2025 12:46	SY/MD	Ok,M
7	VSTDIC150	VW032263.D	25 Sep 2025 13:08	SY/MD	Ok,M
8	VIBLK	VW032264.D	25 Sep 2025 13:46	SY/MD	Ok
9	VSTDICV050	VW032265.D	25 Sep 2025 14:41	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QC Batch ID # VW092925

Review By	Semsettin Yesilyurt	Review On	10/3/2025 2:29:37 AM		
Supervise By	Maresh Dadoda	Supervise On	10/3/2025 2:32:52 AM		
SubDirectory	VW092925	HP Acquire Method	MSVOA_W	HP Processing Method	82w092525s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP135691			
CCC		VP135692,VP135693			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VW032287.D	29 Sep 2025 08:46	SY/MD	Ok
2	VSTDCCC050	VW032288.D	29 Sep 2025 09:18	SY/MD	Ok,M
3	VW0929SBL01	VW032289.D	29 Sep 2025 10:18	SY/MD	Ok
4	VW0929SBS01	VW032290.D	29 Sep 2025 10:46	SY/MD	Ok,M
5	VW0929SBSD01	VW032291.D	29 Sep 2025 11:09	SY/MD	Ok,M
6	Q3221-01RE	VW032292.D	29 Sep 2025 11:52	SY/MD	Confirms
7	Q3220-01RE	VW032293.D	29 Sep 2025 12:15	SY/MD	Confirms
8	Q3238-01	VW032294.D	29 Sep 2025 14:16	SY/MD	ReRun
9	VIBLK	VW032295.D	29 Sep 2025 14:38	SY/MD	Ok
10	VSTDCCC050	VW032296.D	29 Sep 2025 15:00	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_W**

Daily Analysis Runlog For Sequence/QC Batch ID # VW093025

Review By	Mahesh Dadoda	Review On	10/3/2025 2:25:38 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/3/2025 2:30:21 AM		
SubDirectory	VW093025	HP Acquire Method	MSVOA_W	HP Processing Method	82w092525s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP135700			
CCC		VP135701,VP135702			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VW032297.D	30 Sep 2025 10:43	SY/MD	Ok
2	VSTDCCC050	VW032298.D	30 Sep 2025 12:54	SY/MD	Ok,M
3	VW0930SBL01	VW032299.D	30 Sep 2025 13:25	SY/MD	Ok
4	VW0930SBS01	VW032300.D	30 Sep 2025 13:51	SY/MD	Ok,M
5	VW0930SBSD01	VW032301.D	30 Sep 2025 14:14	SY/MD	Ok,M
6	Q3238-01RE	VW032302.D	30 Sep 2025 14:52	SY/MD	Confirms
7	Q3150-04	VW032303.D	30 Sep 2025 15:14	SY/MD	ReRun
8	Q3253-01	VW032304.D	30 Sep 2025 15:36	SY/MD	Ok
9	Q3245-02	VW032305.D	30 Sep 2025 15:57	SY/MD	Ok
10	Q3245-10	VW032306.D	30 Sep 2025 16:19	SY/MD	Ok
11	Q3245-18	VW032307.D	30 Sep 2025 16:41	SY/MD	Ok
12	Q3240-01	VW032308.D	30 Sep 2025 17:04	SY/MD	Ok
13	Q3256-03	VW032309.D	30 Sep 2025 17:26	SY/MD	Ok
14	Q3256-07	VW032310.D	30 Sep 2025 17:48	SY/MD	Ok
15	VIBLK	VW032311.D	30 Sep 2025 18:10	SY/MD	Ok

M : Manual Integration

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW092525

Review By	Maresh Dadoda	Review On	9/29/2025 1:07:01 AM
Supervise By	Semsettin Yesilyurt	Supervise On	9/29/2025 1:07:30 AM
SubDirectory	VW092525	HP Acquire Method	MSVOA_W HP Processing Method 82w092525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135637
Initial Calibration Stds	VP135638,VP135639,VP135641,VP135642,VP135643,VP135644
CCC	
Internal Standard/PEM	VP133934
ICV/I.BLK	VP135645
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VW032257.D	25 Sep 2025 10:01		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VW032258.D	25 Sep 2025 10:45	LR-20	SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VW032259.D	25 Sep 2025 11:30		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VW032260.D	25 Sep 2025 11:52		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VW032261.D	25 Sep 2025 12:24		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VW032262.D	25 Sep 2025 12:46		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VW032263.D	25 Sep 2025 13:08		SY/MD	Ok,M
8	VIBLK	VIBLK	VW032264.D	25 Sep 2025 13:46		SY/MD	Ok
9	VSTDICV050	ICVVW092525	VW032265.D	25 Sep 2025 14:41		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW092925

Review By	Semsettin Yesilyurt	Review On	10/3/2025 2:29:37 AM
Supervise By	Maresh Dadoda	Supervise On	10/3/2025 2:32:52 AM
SubDirectory	VW092925	HP Acquire Method	MSVOA_W HP Processing Method 82w092525s.m

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP135691
CCC	VP135692,VP135693
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VW032287.D	29 Sep 2025 08:46		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VW032288.D	29 Sep 2025 09:18		SY/MD	Ok,M
3	VW0929SBL01	VW0929SBL01	VW032289.D	29 Sep 2025 10:18		SY/MD	Ok
4	VW0929SBS01	VW0929SBS01	VW032290.D	29 Sep 2025 10:46		SY/MD	Ok,M
5	VW0929SBSD01	VW0929SBSD01	VW032291.D	29 Sep 2025 11:09		SY/MD	Ok,M
6	Q3221-01RE	HD-01-092625RE	VW032292.D	29 Sep 2025 11:52	vial-B Internal Standard Fail	SY/MD	Confirms
7	Q3220-01RE	OR-03-092625RE	VW032293.D	29 Sep 2025 12:15	vial-B Internal Standard Fail	SY/MD	Confirms
8	Q3238-01	RCA	VW032294.D	29 Sep 2025 14:16	vial-A Surrogate Fail	SY/MD	ReRun
9	VIBLK	VIBLK	VW032295.D	29 Sep 2025 14:38		SY/MD	Ok
10	VSTDCCC050	VSTDCCC050EC	VW032296.D	29 Sep 2025 15:00		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QC Batch ID # VW093025

Review By	Maresh Dadoda	Review On	10/3/2025 2:25:38 AM
Supervise By	Semsettin Yesilyurt	Supervise On	10/3/2025 2:30:21 AM
SubDirectory	VW093025	HP Acquire Method	MSVOA_W HP Processing Method 82w092525s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135700		
CCC	VP135701,VP135702		
Internal Standard/PEM	VP133934		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VW032297.D	30 Sep 2025 10:43		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VW032298.D	30 Sep 2025 12:54		SY/MD	Ok,M
3	VW0930SBL01	VW0930SBL01	VW032299.D	30 Sep 2025 13:25		SY/MD	Ok
4	VW0930SBS01	VW0930SBS01	VW032300.D	30 Sep 2025 13:51		SY/MD	Ok,M
5	VW0930SBSD01	VW0930SBSD01	VW032301.D	30 Sep 2025 14:14		SY/MD	Ok,M
6	Q3238-01RE	RCARE	VW032302.D	30 Sep 2025 14:52	vial-B Surrogate fail	SY/MD	Confirms
7	Q3150-04	Mid Site Grid 5-7	VW032303.D	30 Sep 2025 15:14	vial-A Internal Standard Fail	SY/MD	ReRun
8	Q3253-01	ARS20-0009	VW032304.D	30 Sep 2025 15:36	vial-A	SY/MD	Ok
9	Q3245-02	13-1	VW032305.D	30 Sep 2025 15:57	vial-A	SY/MD	Ok
10	Q3245-10	12-8	VW032306.D	30 Sep 2025 16:19	vial-A	SY/MD	Ok
11	Q3245-18	12-1	VW032307.D	30 Sep 2025 16:41	vial-A	SY/MD	Ok
12	Q3240-01	OK-02-092925	VW032308.D	30 Sep 2025 17:04	vial-A	SY/MD	Ok
13	Q3256-03	SOIL-PILE-1-WC-VOC	VW032309.D	30 Sep 2025 17:26	vial-A	SY/MD	Ok
14	Q3256-07	SOIL-PILE-2-WC-VOC	VW032310.D	30 Sep 2025 17:48	vial-A	SY/MD	Ok
15	VIBLK	VIBLK	VW032311.D	30 Sep 2025 18:10		SY/MD	Ok

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 9/30/2025

OVENTEMP IN Celsius(°C): 104
Time IN: 16:30
In Date: 09/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:37
Out Date: 09/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137353

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
Q3238-01	RCA	1	1.00	1.00	2.00	2.00	100.0	concreate sample
Q3239-01	92325	2	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3240-01	OK-02-092925	3	1.13	10.20	11.33	10.9	95.8	
Q3240-02	OK-02-092925-E2	4	1.15	10.03	11.18	10.66	94.8	
Q3242-01	92325	5	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3243-01	91825AB	6	1.00	1.00	2.00	2.00	100.0	WOOD
Q3244-01	80625	7	1.00	1.00	2.00	2.00	100.0	OIL
Q3245-01	13-1	8	1.16	9.94	11.1	10.49	93.9	
Q3245-02	13-1	9	1.15	10.43	11.58	10.9	93.5	
Q3245-03	13-1-EPH-A	10	1.12	10.06	11.18	10.21	90.4	
Q3245-04	13-1-EPH-B	11	1.14	10.89	12.03	11.29	93.2	
Q3245-05	13-1-EPH-C	12	1.12	10.16	11.28	10.7	94.3	
Q3245-06	13-1-EPH-D	13	1.11	11.15	12.26	11.5	93.2	
Q3245-07	13-1-EPH-E	14	1.14	10.78	11.92	11.12	92.6	
Q3245-09	12-8	15	1.15	10.54	11.69	10.87	92.2	
Q3245-10	12-8	16	1.15	10.59	11.74	10.96	92.6	
Q3245-11	12-8-EPH-A	17	1.12	10.14	11.26	10.19	89.4	
Q3245-12	12-8-EPH-B	18	1.14	10.38	11.52	10.9	94.0	
Q3245-13	12-8-EPH-C	19	1.15	10.11	11.26	10.44	91.9	
Q3245-14	12-8-EPH-D	20	1.13	10.59	11.72	10.96	92.8	
Q3245-15	12-8-EPH-E	21	1.14	10.73	11.87	11.12	93.0	
Q3245-17	12-1	22	1.13	10.53	11.66	10.58	89.7	
Q3245-18	12-1	23	1.14	10.67	11.81	10.8	90.5	
Q3245-19	12-1-EPH-A	24	1.11	10.03	11.14	10.33	91.9	
Q3245-20	12-1-EPH-B	25	1.13	10.31	11.44	10.36	89.5	
Q3245-21	12-1-EPH-C	26	1.14	10.05	11.19	10.28	90.9	
Q3245-22	12-1-EPH-D	27	1.13	9.97	11.1	10.09	89.9	
Q3245-23	12-1-EPH-E	28	1.15	10.67	11.82	10.8	90.4	

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

WORKLIST(Hardcopy Internal Chain)

LB 137353

WorkList Name : % SOLID -092925 WorkList ID : 192155 Department : Wet-Chemistry Date : 09-29-2025 15:47:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3238-01	RCA	Solid	Percent Solids	Cool 4 deg C	YANN01	D31	09/18/2025	Chemtech -SO
Q3239-01	92325	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3240-01	OK-02-092925	Solid	Percent Solids	Cool 4 deg C	PSEG05	D21	09/29/2025	Chemtech -SO
Q3240-02	OK-02-092925-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D21	09/29/2025	Chemtech -SO
Q3242-01	92325	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3243-01	91825AB	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3244-01	80625	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-01	13-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-02	13-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-03	13-1-EPH-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-04	13-1-EPH-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-05	13-1-EPH-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-06	13-1-EPH-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-07	13-1-EPH-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-09	12-8	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-10	12-8	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-11	12-8-EPH-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-12	12-8-EPH-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-13	12-8-EPH-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-14	12-8-EPH-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-15	12-8-EPH-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO

Date/Time 09/29/25 16:00 Date/Time 09/29/25 16:45
 Raw Sample Received by: 12CWC Raw Sample Received by: 12CWC
 Raw Sample Relinquished by: 12CWC Raw Sample Relinquished by: 12CWC

WORKLIST(Hardcopy Internal Chain)

WorkList Name : % SOLID -092925
 WorkList ID : 192155
 Department : Wet-Chemistry
 Date : 09-29-2025 15:47:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3245-17	12-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-18	12-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-19	12-1-EPH-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-20	12-1-EPH-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-21	12-1-EPH-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-22	12-1-EPH-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-23	12-1-EPH-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO

Date/Time 09/29/25 16:00
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 09/29/25 16:45
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Prep Standard - Chemical Standard Summary

Order ID : Q3238

Test : VOC-TCLVOA-10

Prepbatch ID :

Sequence ID/Qc Batch ID: VW092925,VW093025,

Standard ID :

VP133934,VP134147,VP134149,VP134150,VP134934,VP134957,VP135480,VP135481,VP135552,VP135553,VP135691,VP135692,VP135693,VP135700,VP135701,VP135702,

Chemical ID :

V13391,V14200,V14204,V14205,V14290,V14509,V14510,V14531,V14532,V14625,V14636,V14637,V14638,V14639,V14673,V14727,V14728,V14803,V14815,V14844,V14906,V14921,V14928,V14929,V14951,V14952,V15066,V15067,V15068,W3112,

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1917	8260 Internal standard 50 ppm	VP133934	05/16/2025	11/12/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								05/21/2025

FROM 0.10000ml of V14290 + 49.90000ml of V14921 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
252	8260 Working STD (BCM)-First source, 100PPM	VP134147	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/10/2025

FROM 1.00000ml of V14673 + 19.00000ml of V14929 = Final Quantity: 20.000 ml



VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025
<u>FROM</u>	1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final Quantity: 50.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1811	8260 Working Std(2-CVE)-500ppm	VP134150	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025
<u>FROM</u> 7.50000ml of V14929 + 12.50000ml of VP134149 = Final Quantity: 20.000 ml								

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
249	8260 Surrogate, 100PPM	VP134934	07/29/2025	01/29/2026	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/06/2025

FROM 0.10000ml of V14906 + 24.90000ml of V14625 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
218	BFB, 25PPM	VP134957	08/01/2025	11/22/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/06/2025

FROM 0.50000ml of V13391 + 49.50000ml of V14625 = Final Quantity: 50.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP135480	09/16/2025	10/15/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								09/19/2025

FROM 1.00000ml of V15066 + 1.50000ml of V15067 + 1.50000ml of V15068 + 21.00000ml of V14625 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
56	8260 Working STD (Acrolein) -first source, 500PPM	VP135481	09/16/2025	10/15/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								09/19/2025

FROM 5.62500ml of V14625 + 9.37500ml of VP135480 = Final Quantity: 15.000 ml

[illegible]

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
244	8260 Calibration Working STD Mix-First source, 100PPM	VP135553	09/22/2025	11/03/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/26/2025
<u>FROM</u> 5.62500ml of V14928 + 9.37500ml of VP135552 = Final Quantity: 15.000 ml								

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
732	BFB TUNE CHECK - SOIL	VP135691	09/29/2025	09/30/2025	Amit Patel	None	None	Maresh Dadoda
								10/02/2025

FROM 4.99800ml of W3112 + 0.00200ml of VP134957 = Final Quantity: 5.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
773	50 PPB CCC, 8260-SOIL	VP135692	09/29/2025	09/30/2025	Amit Patel	None	None	Maresh Dadoda
								10/02/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134934 + 0.00250ml of VP135481
+ 0.00250ml of VP135553 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

[illegible]

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
732	BFB TUNE CHECK - SOIL	VP135700	09/30/2025	10/01/2025	Amit Patel	None	None	Mahesh Dadoda 10/02/2025
<u>FROM</u> 4.99800ml of W3112 + 0.00200ml of VP134957 = Final Quantity: 5.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
773	50 PPB CCC, 8260-SOIL	VP135701	09/30/2025	10/01/2025	Amit Patel	None	None	Mahesh Dadoda
FROM 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134934 + 0.00250ml of VP135481 + 0.00250ml of VP135553 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
773	50 PPB CCC, 8260-SOIL	VP135702	09/30/2025	10/01/2025	Amit Patel	None	None	Mahesh Dadoda 10/02/2025
<u>FROM</u> 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134934 + 0.00250ml of VP135481 + 0.00250ml of VP135553 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14204

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14205

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14509

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14510

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14531

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14532

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	2310762004	01/29/2026	07/29/2025 / SAM	11/26/2024 / SAM	V14625

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14636

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14637

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14638

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14639

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14673

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14727

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14728

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14803

LOTS

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14815

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	03/22/2026	09/22/2025 / sam	01/21/2025 / SAM	V14844

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0223904	07/29/2026	07/29/2025 / SAM	03/24/2025 / SAM	V14906

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	11/12/2025	05/12/2025 / SAM	05/09/2025 / SAM	V14921

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	03/22/2026	09/22/2025 / sam	05/09/2025 / SAM	V14928

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	12/06/2025	06/06/2025 / SAM	05/09/2025 / SAM	V14929

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14951

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14952

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15066

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15067

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15068

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance



Ree 03117/24

CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Balance Uncertainty
Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

Compound	(KMe)	Lot	Dir.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information				
	Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	Uncertainty	(+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	CASE	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)			or-rat 2450mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)			or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)			or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21056	0.21069	2001.1	8.5	1478-11-5	NA			N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	NA			N/A
6. Diethyl ether	(0153)	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	NA			N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	NA			or-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)			or-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)			or-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H)(skin)			or-rat 120mg/kg
11. Methyl acrylate	(0755)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)			or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)			or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	99-95-3	1 ppm (5mg/m3/8H)(skin)			or-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (30mg/m3/8H)			or-rat 720mg/kg
15. Perchloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	NA			N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)			or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	NA			or-rat 915mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	NA			or-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	NA			N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	NA			N/A
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm			or-rat 1235mg/kg
22. 1,1-Dichloroethane	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)			or-rat 820mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)			or-rat 200mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)			or-rat 933mg/kg
25. Chloroform	95321	020724	0.10	10.00	20004.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)			or-rat 2350mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	NA			or-rat 908mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	NA			or-rat 108mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm			or-rat 725mg/kg
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	NA			N/A
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)			or-rat 2629mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)			or-rat 10300mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm			or-rat 170mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)			or-rat 108mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)			or-rat 670mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)			or-rat 1947mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	NA			or-rat 3600mg/kg
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	NA			N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	NA			N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	NA			N/A
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)			or-rat 82mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	NA			or-rat 670mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)			or-rat 800mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)			or-rat 936mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)			or-rat 3402mg/kg
45. Benzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)			or-rat 149.8mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm			or-rat 4894mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-1	NA			or-rat 2699mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	NA			N/A
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)			or-rat >2000mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	NA			or-rat 4750mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)			or-rat 490mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm			or-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-98-3	200 ppm			or-rat 5000mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	NA			or-rat 1390mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)			or-rat 756mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	NA			or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	NA			or-rat 5000mg/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)			or-rat 5g/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	NA			N/A
60. Chlorobenzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	NA			or-rat 2240mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)			or-rat 2290mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA										

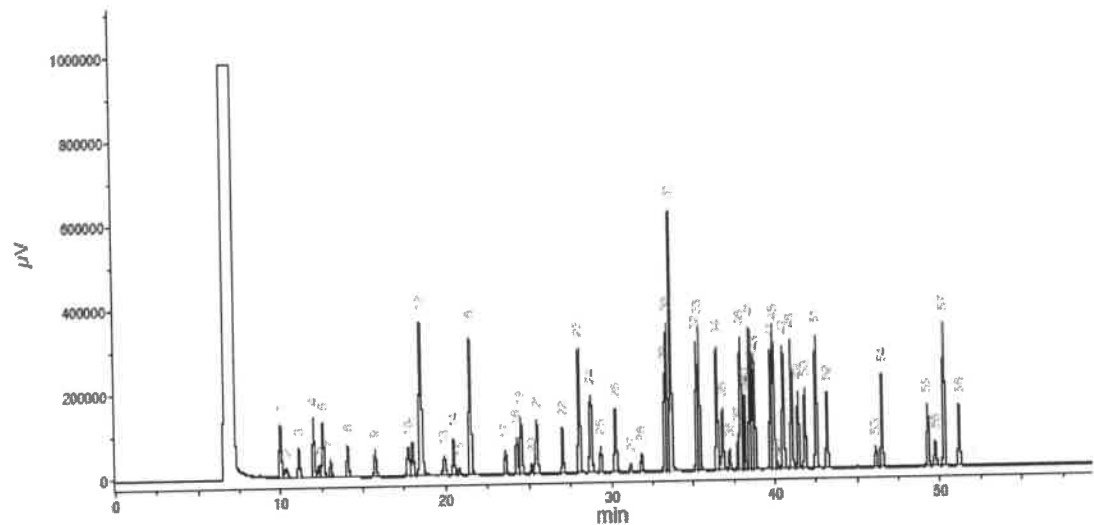


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.21
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethane	18.00
12	Hexamethylcyclotrisiloxane/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromodichloromethane	25.46
21	Dibromomethane/2-Pentopropane	27.07
22	cis-1,2-Dichloroethane	28.03
23	Toluene	28.73
24	Ethyl methacrylate/trans-1,2-Dichloroethane	29.34
25	1,1,2-Trichloroethane	30.34
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	32.84
28	1,2-Dibromomethane	33.26
29	Chlorobenzene	33.40
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.85
31	m-Xylene/p-Xylene	35.33
32	o-Xylene	35.70
33	Styrene	35.70
34	Isopropylbenzene/Bromofarm	36.48
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2-Trichloropropane	37.23
37	n-Propylbenzene	37.77
38	trans-1,4-Dichloro-3-butene	37.92
39	Bromobenzene	38.05
40	1,3,5-Trimethylbenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Trichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trifluorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water
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Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		
Methanol	METHYL ALCOHOL	CAS#: 67-56-1
		% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Ree 03117/24

CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Balance Uncertainty
Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

Compound	(K049)	Lot	Dil.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Expanded	SDS Information			
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight (g)	Weight (g)	Actual	Uncertainty	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2480mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1478-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	or-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 75mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 2480mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Perchloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18990	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	78-13-1	1000 ppm (7600mg/m3/8H)	or-rat 435g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 915mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	158-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.2	2000	NA	NA	0.017	NA	NA	1999.6	23.0	158-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethane	32261	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.8	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	58-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20004.0	2000	NA	NA	0.042	NA	NA	2001.3	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 108mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	or-rat 725mg/kg
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	86-12-8	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-93-4	20 ppm (8H)	or-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1847mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	or-rat 3600mg/kg
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	N/A	or-rat 3600mg/kg
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H) (skin)	or-rat 936mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	98-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg
45. Benzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.9	22.9	71-43-2	1 ppm	or-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	104-51-8	N/A	or-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40005.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	N/A	or-rat 1390mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	N/A	or-rat 5000mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	109-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-rat 1062mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-46-7	75 ppm (450mg/m3/8H)	or-rat 500mg/kg
65. 1,4-Dichlorobenzene</																

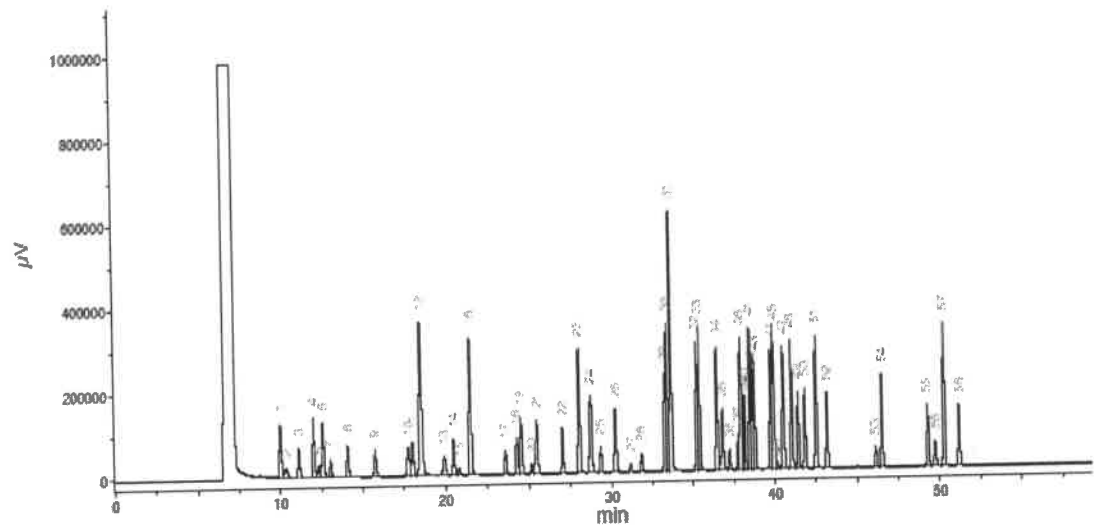


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.21
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethane	18.00
12	Hexamethylcyclotrisiloxane/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromodichloromethane	25.46
21	Dibromomethane/2-Pentopropane	27.07
22	cis-1,2-Dichloropropane	28.03
23	Toluene	28.73
24	Ethyl methacrylate/trans-1,2-Dichloropropane	29.34
25	1,1,2-Trichloroethane	30.34
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	32.84
28	1,2-Dibromomethane	33.26
29	Chlorobenzene	33.40
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.85
31	m-Xylene/p-Xylene	35.53
32	o-Xylene	35.70
33	Styrene	35.70
34	Isopropylbenzene/Bromofarm	36.48
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2-Trichloropropane	37.23
37	n-Propylbenzene	37.77
38	trans-1,4-Dichloro-3-butene	37.92
39	Bromobenzene	38.05
40	1,3,5-Trimethylbenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Trichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trifluorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water
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Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol METHYL ALCOHOL	67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



Dec 09/17/24

CERTIFIED WEIGHT REPORT

Part Number:

91980

Lot Number:

091424

Description:

Acrolein

Solvent(s):

Water

Lot#

072324Q

Expiration Date:

101424

Recommended Storage:

Refrigerate (4 °C)

Nominal Concentration (µg/mL):

5000

NIST Test ID#:

6UTB

5E-05 Balance Uncertainty

0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL):

10.0

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50
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1. Acrolein	5	103755V10F	5000	97	0.5	0.05186	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg
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Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode). Columns: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 0min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas, NOTE: Due to the instability of acrolein in solution, all solutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D

Abundance

27

250000

8.93

200000

50000

56

150000

40000

30000

20000

50000

10000

37

Time-->

0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

m/z-->

0

20

30

40

50

60

70

80

85

119

158

169

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM



Dec 09/17/24

CERTIFIED WEIGHT REPORT

Part Number:

91980

Lot Number:

091424

Description:

Acrolein

Solvent(s):

Water

Lot#

072324Q

Expiration Date:

101424

Recommended Storage:

Refrigerate (4 °C)

Nominal Concentration (µg/mL):

5000

NIST Test ID#:

6UTB

5E-05 Balance Uncertainty

0.001 Flask Uncertainty

10.0

Weight(s) shown below were combined and diluted to (mL):

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
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1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg
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Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode). Columns: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 0min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas, NOTE: Due to the instability of acrolein in solution, all solutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D

Abundance

27

250000

8.93

200000

C=CC=O

50000

56

150000

40000

30000

20000

10000

37

Time-->

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

m/z-->

0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

44 65 75 85 119 158 169

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

95318
120524
2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

120527
Refrigerate (4 °C)
10000
6UTB

Weight(s) shown below were combined and diluted to (mL):

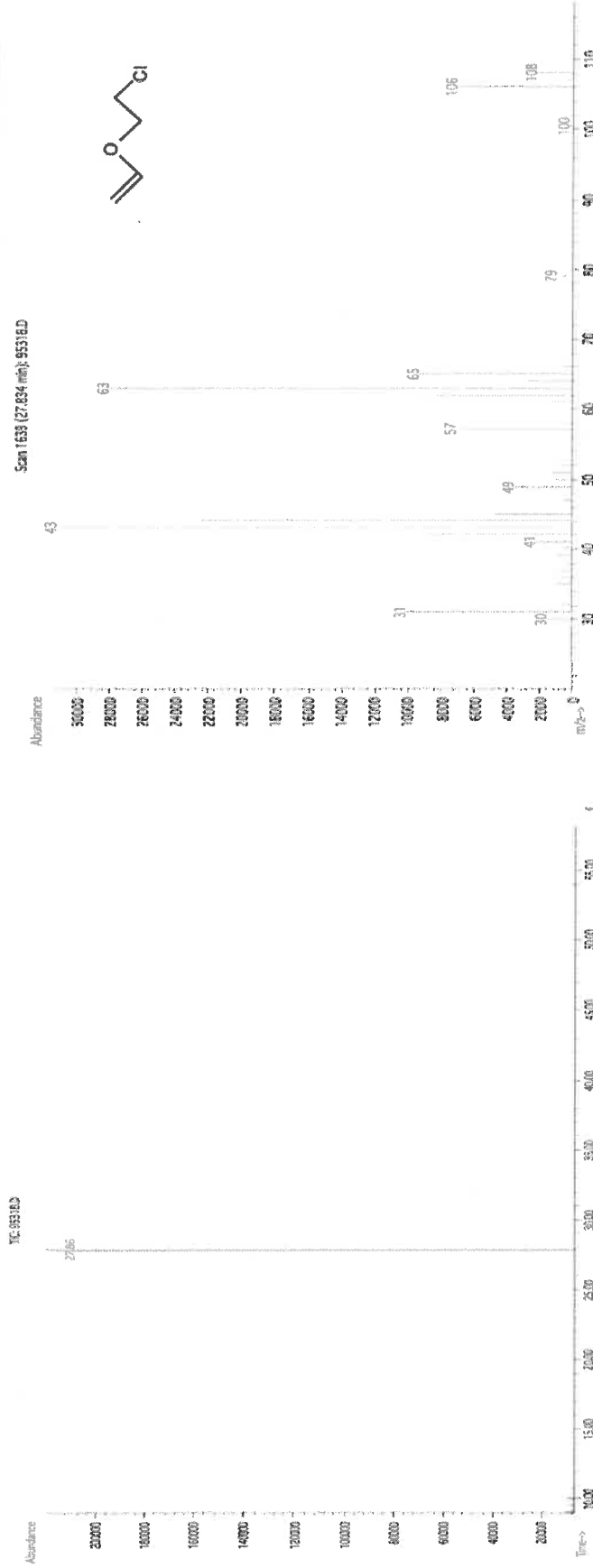
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524	DATE
Reviewed By:	Pedro L. Rentas	120524	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50
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1. 2-Chloroethyl vinyl ether 74 MKCD0033 10000 99 0.2 0.50536 0.50550 10002.9 40.5 110-75-8 N/A or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



See 1216124
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL):

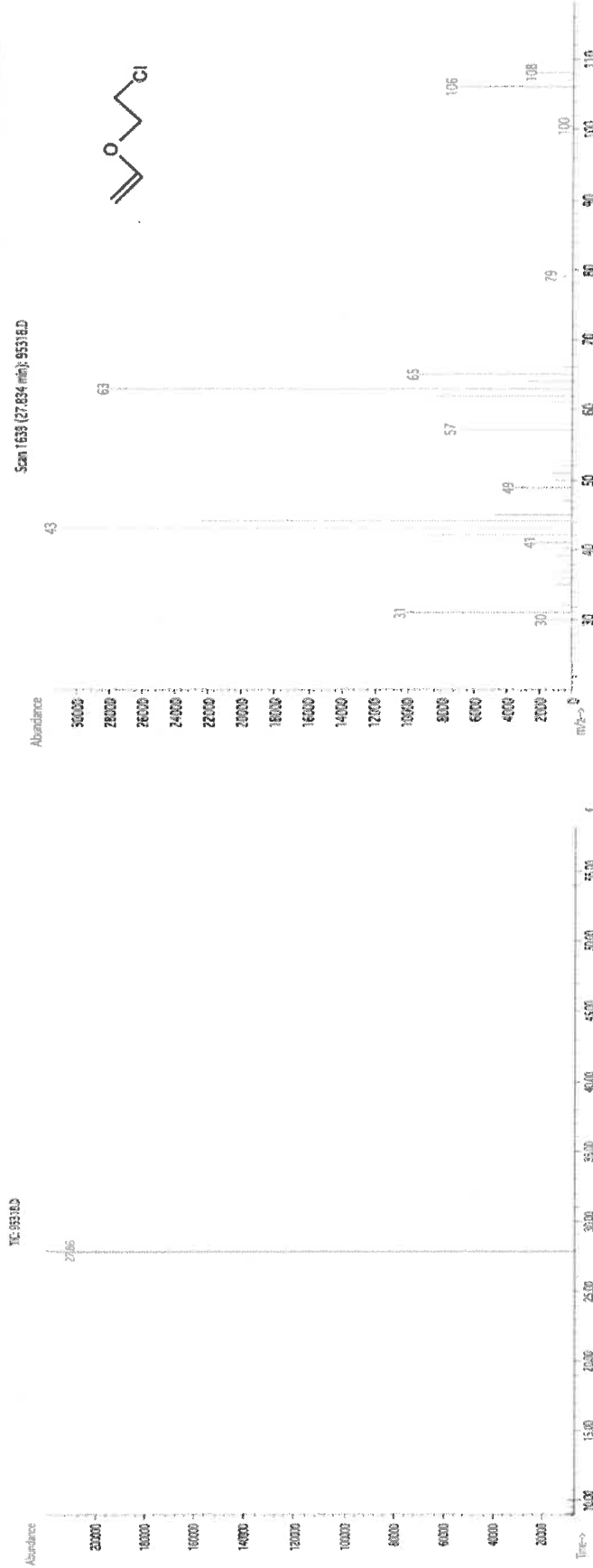
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By: Prashant Chauhan 120524
Reviewed By: Pedro L. Rentas 120524

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
										(Solvent Safety Info. On Attached pg.)	LD50

1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	or-rat 250mg/kg
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Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	67-56-1	TWA 200 ppm
Skin notation			TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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See 1216124
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

✓ 14630 to
✓ 14649

Weight(s) shown below were combined and diluted to (mL):

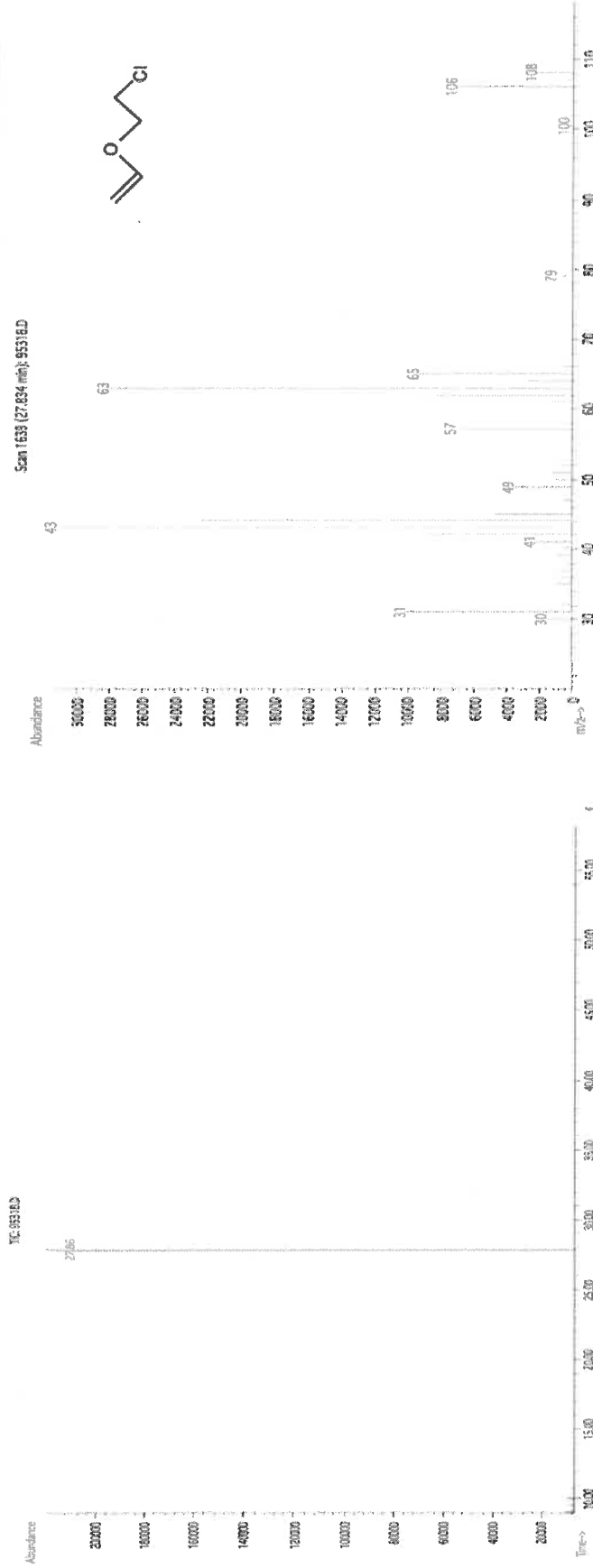
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Expanded Uncertainty (Solvent Safety Info. On Attached pg.)
Uncertainty (±) (µg/mL) CAS# OSHA PEL (TWA) LDSO

SDS Information

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	or-rat 250mg/kg
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	N/A

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
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Safety Data Sheet (SDS)

GHS/OSHA Compliant

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	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

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H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
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If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

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Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
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Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

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Methanol	67-56-1	67-56-1	TWA 200 ppm
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Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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Dec 12/6/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

✓ 14630 to
✓ 14649

Weight(s) shown below were combined and diluted to (mL):

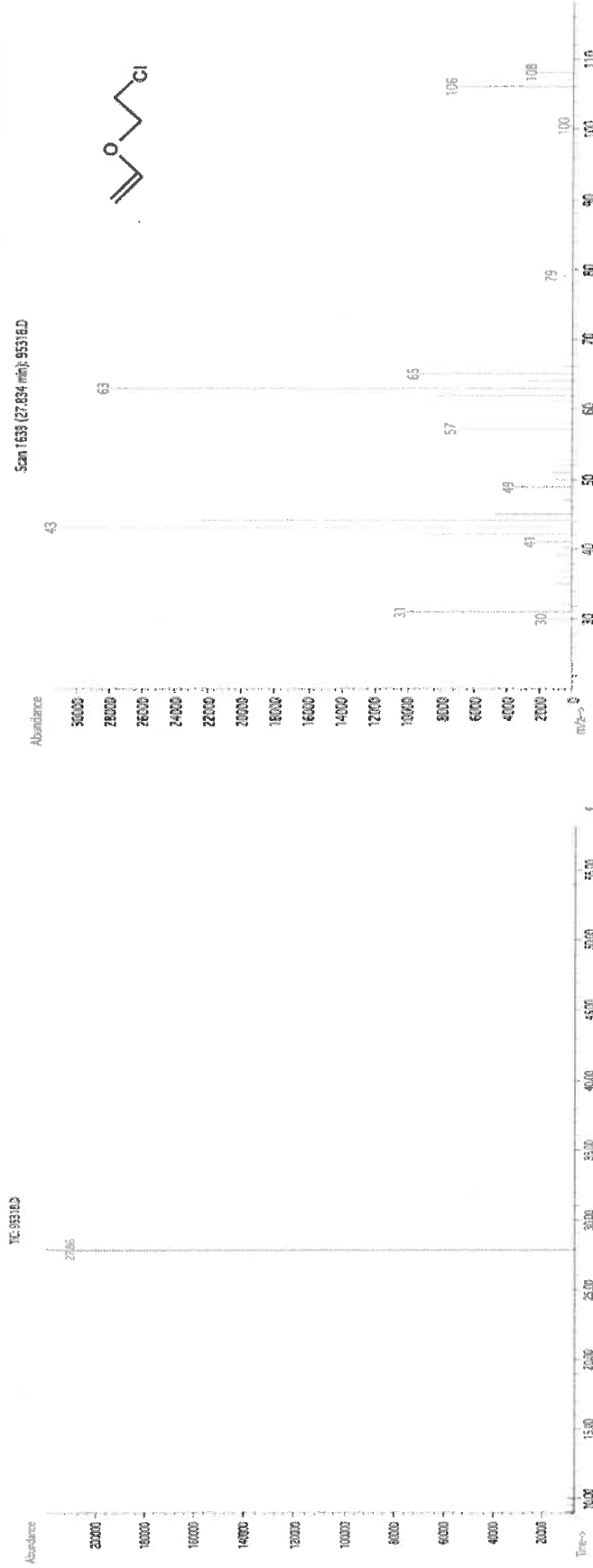
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Expanded Uncertainty (Solvent Safety Info. On Attached pg.)
Uncertainty (±) (µg/mL) CAS# OSHA PEL (TWA) LDSO

SDS Information

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	CAS#	OSHA PEL (TWA)	LDSO
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



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GHS/OSHA Compliant

Printed: 12/5/24

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
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Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
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LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

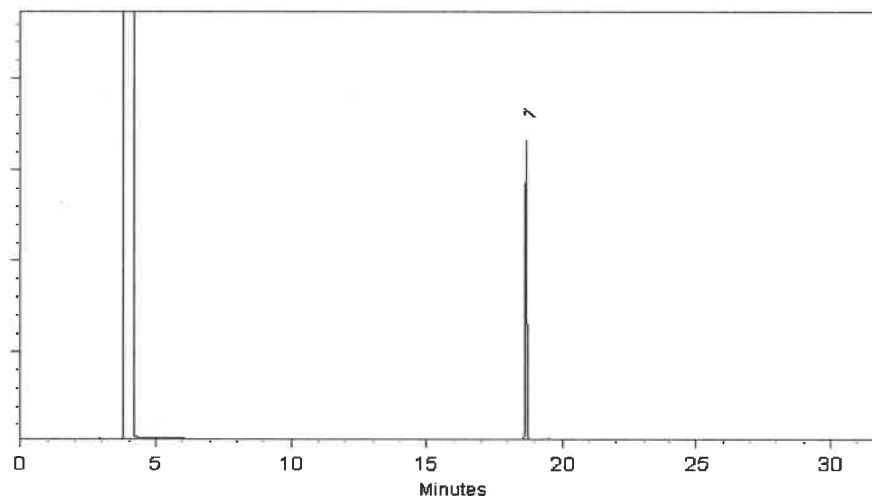
FID

Split Vent:

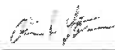
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

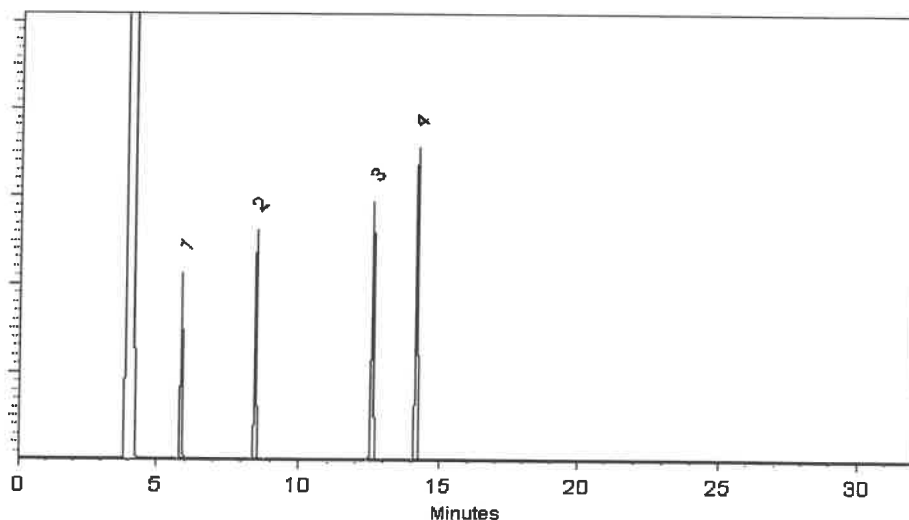
FID

Split Vent:

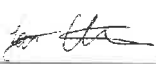
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

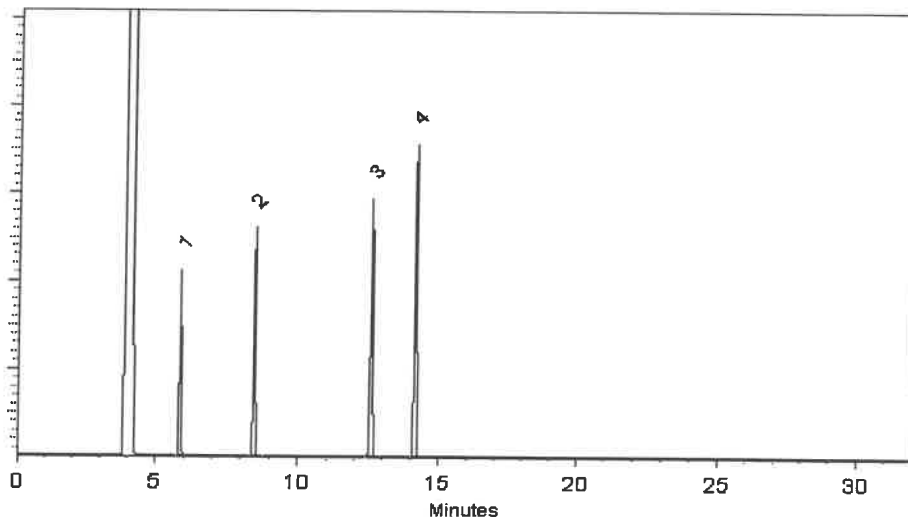
FID

Split Vent:

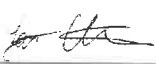
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

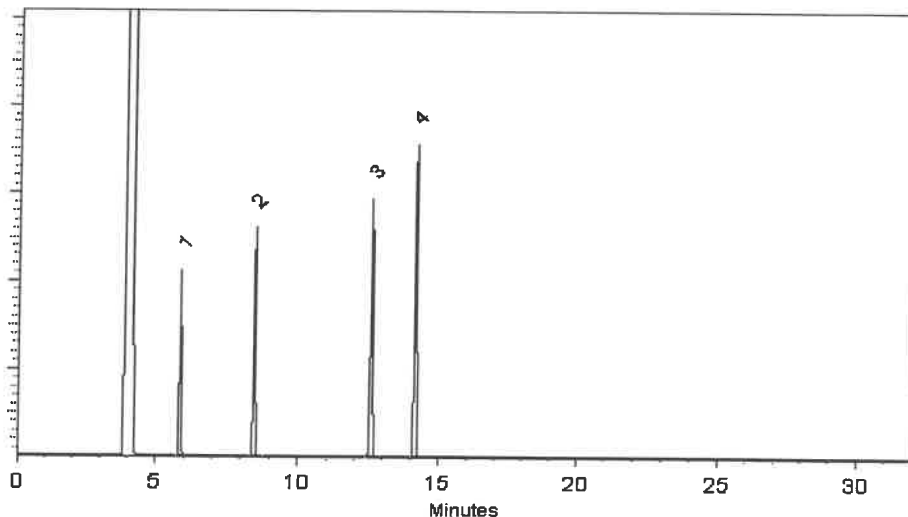
FID

Split Vent:

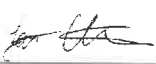
40 ml/min

Inj. Vol

1µl



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Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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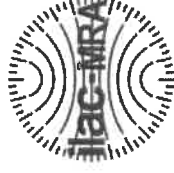
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CERTIFIED REFERENCE MATERIAL

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gravimetric



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 555581 **Lot No.:** A0210184

Description: Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size: 2 mL **Pkg Amt:** > 1 mL

Expiration Date: April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 11275.10105



Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Handling Notes:

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10 vial.
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Dec: 12/09/24

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V14667-5

V14676



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

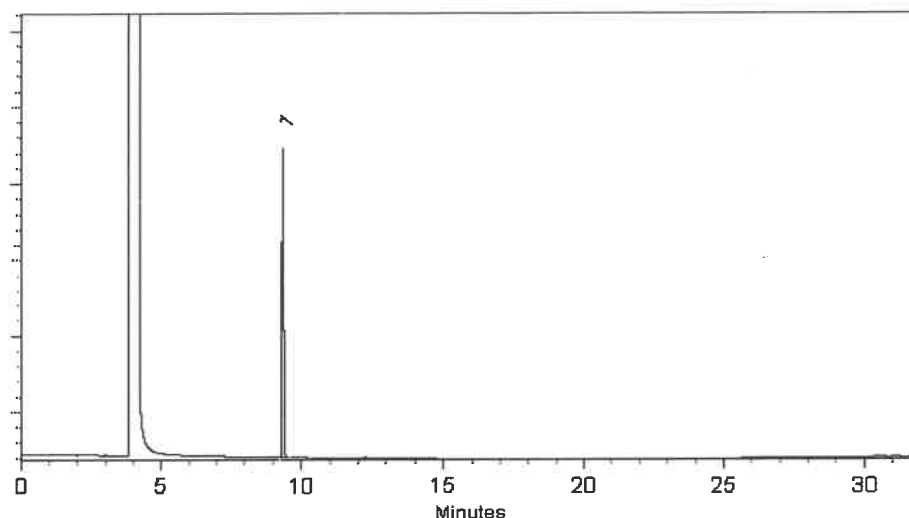
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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Rec 12/17/24
CERTIFIED REFERENCE MATERIAL

30 ml
Certificate of Analysis
chromatographic plus

V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

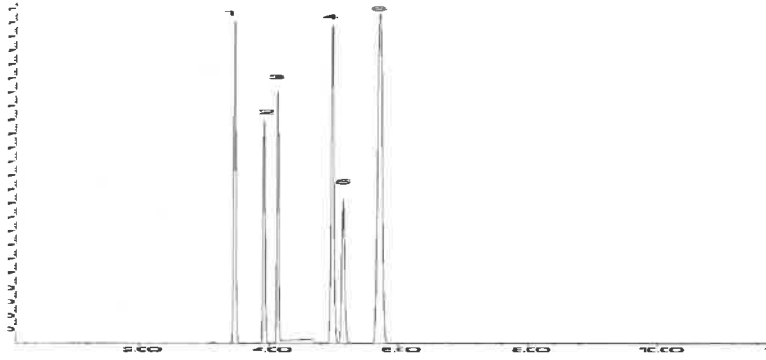
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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30 ml
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V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

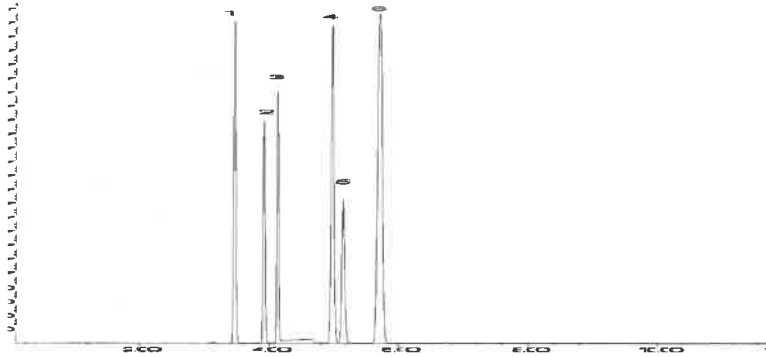
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.



Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271



Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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chromatographic plus

✓ 14842 to 14846



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : October 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

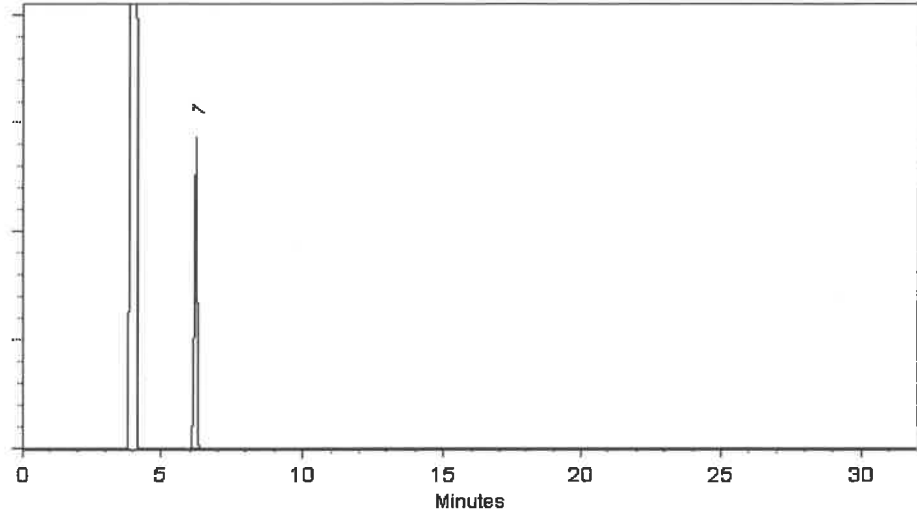
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A. O. E.
Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024

Balance Serial # B251644995

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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2014 Dec 01/08/21
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chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

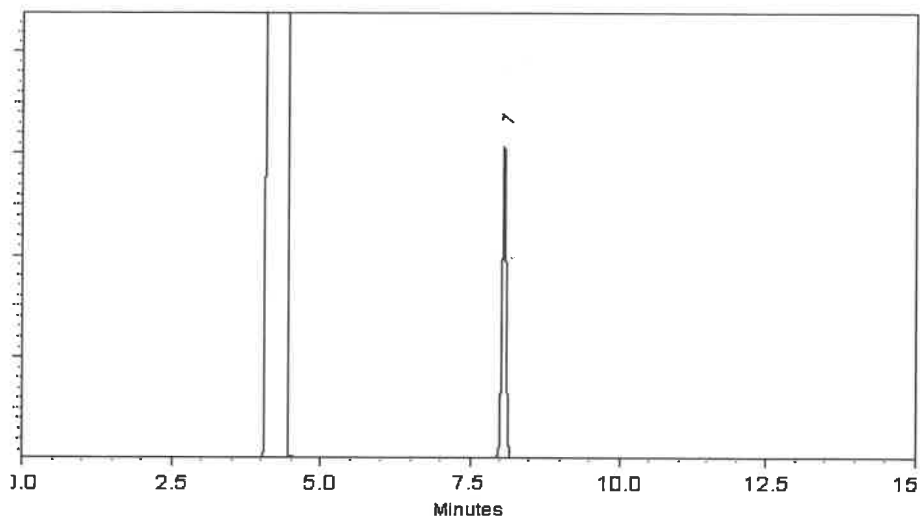
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

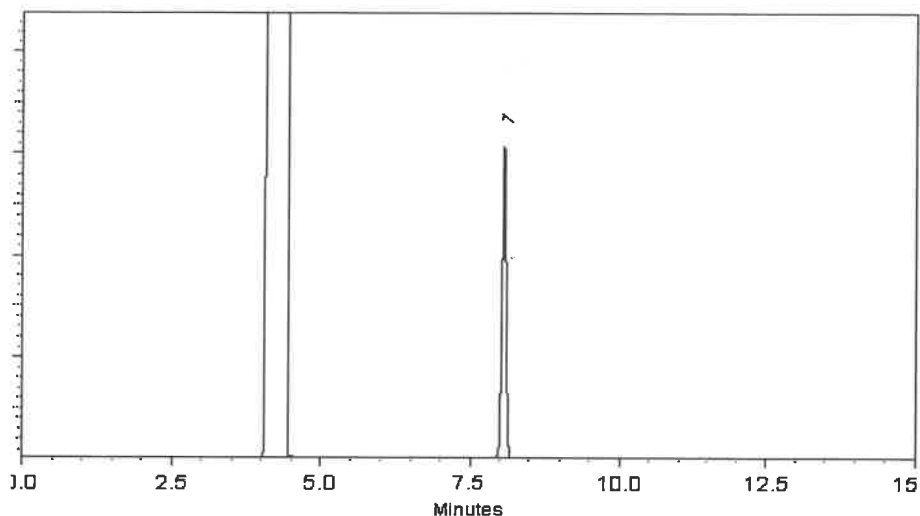
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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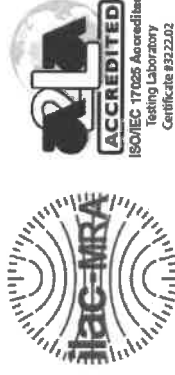
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CERTIFIED REFERENCE MATERIAL

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gravimetric



10 vial
See 03/31/25
V14904 to V14913

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 555582 Lot No.: A0223904

Description: Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size: 2 mL Pkg Amt: > 1 mL

Expiration Date: March 31, 2028 Storage: 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	25,108.0 µg/mL	+/- 1,421.9957
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,108.0 µg/mL	+/- 1,421.9957
3	Dibromofluoromethane	1868-53-7	VENKAT02	99%	25,232.0 µg/mL	+/- 1,429.0184
4	Toluene-d8	2037-26-5	PR-34141	99%	25,156.0 µg/mL	+/- 1,424.7141

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Brittany Federlino

Brittany Federlino - Operations Tech I

Date Mixed: 27-Mar-2025

Balance: B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Mark
Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
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For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Mark
Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25
Avantor™



*V14921 to
V14938*

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
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For Laboratory, Research, or Manufacturing Use
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Jamie Croak
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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309
www.restek.com

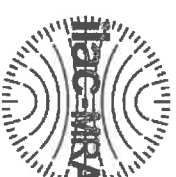
CERTIFIED REFERENCE MATERIAL

22 05113125
20 vial

Certificate of Analysis

chromatographic plus

✓ 149516 ✓ 14970



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 Lot No.: A0222076

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : August 31, 2026 Storage: -20°C or colder

Handling: This product is photosensitive. Ship: On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBR1889	99%	2,004.0 µg/mL	+/- 69.2674
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,010.0 µg/mL	+/- 69.4748
3	Ethyl acetate	141-78-6	SHBS3323	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,008.0 µg/mL	+/- 69.4057
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBR2024	99%	2,008.0 µg/mL	+/- 69.4057
7	Amyl acetate	628-63-7	BCBT7442	99%	2,006.7 µg/mL	+/- 69.3596

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this



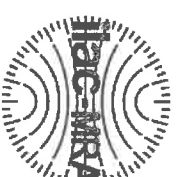
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309
www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

✓ 149516 ✓ 14970



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Catalog No. : 30489 Lot No.: A0222076

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Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

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Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this



See 09/16/25 5 vial



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

91980
091525
Acrolein

Solvent(s):
Water

Lot#
041725Q

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

101525
Refrigerate (2°C to 8°C)
5000
6UTB

V15064 to
V15068

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL):

10.0

Expanded

Uncertainty

(Solvent Safety Info. On Attached pg.)

OSHA PEL (TWA)

LDSO

0.1 ppm

ori-rat 46mg/kg

091525

DATE

091525

DATE

Compound

RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Target Weight(g)	Actual Weight(g)	Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LDSO
5	103755V10F	5000	97	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1.1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2 = 200°C (Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Renteria. NOTE: Due to the instability of acrolein in solution, all solutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D

Abundance

Abundance

27

250000

8.93

200000



56

150000

100000

50000

Time-->

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

37

44

65

75

85

119

158

169

• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
• Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
• Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
• All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
• Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
Rev 1.0, 2/25/2025



See 09/16/25 5 vial



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

91980
091525
Acrolein

Solvent(s):
Water

Lot#
041725Q

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

101525
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5000
6UTB

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V15068

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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Uncertainty

(Solvent Safety Info. On Attached pg.)

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091525

DATE

091525

DATE

Compound

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Rev 1.0, 2/25/2025



See 09/16/25 5 vial



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091525

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Rev 1.0, 2/25/2025



SHIPPING DOCUMENTS



TECHNICAL GROUP

204 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

Alliance Project Number: Q33238

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION

COMPANY: Yarnuzzi Group, Inc.
ADDRESS: 135 Kenden Road
CITY: Kenden
STATE: NJ ZIP: 07405
ATTENTION: Edgar Garibay
PHONE: 908-218-0880 FAX: 908-218-0884

PROJECT INFORMATION

PROJECT NAME: Edison
PROJECT #: 2025-1
PROJECT MANAGER: Rafael Nunez
E-MAIL: Rafael@yarnuzzigroup.com
PHONE: 908-218-0880 FAX: 908-218-0884

COC Number:

BILLING INFORMATION

BILL TO: Yarnuzzi Group, Inc.
ADDRESS: 327 Meadow Road
CITY: Edison
STATE: NJ ZIP: 08837
PHONE: 908-218-0880

DATA TURNAROUND INFORMATION

FAX: Standard
HARD COPY: Standard
EDD: Standard
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY
☐ RESULTS + QC
☐ NEW JERSEY REDUCED
☐ NEW JERSEY CLP
☐ EDD Format

ANALYSIS

1	TCLP+30								
2	TPH GC								
3	SVOC								
4	VOC								
5	PCB								
6	pest								
7	ICP-TAL								
8									
9									

COMMENTS

<- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-CE F-Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		DATE	TIME	# of Bottles	PRESERVATIVES									COMMENTS
			COMP	GRAB				1	2	3	4	5	6	7	8	9	
1. CM-1	RCA	Composite	X		9/19/25	10:31		X	X	X	X	X	X	X			Crush
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY: Rafael Nunez DATE/TIME: 9/29/25 RECEIVED BY: JS DATE/TIME: 9/29/25

RELINQUISHED BY: 12:15 DATE/TIME: 12:10 RECEIVED FOR LAB BY: 3.

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

NO ICE. Rock samples.

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 : Q3238	YANN01	Order Date : 9/29/2025 1:34:00 PM	Project Mgr :
Client Name : Yannuzzi Group, Inc.		Project Name : Edison Yard	Report Type : Results+QC
Client Contact : Alyssa Yannuzzi		Receive DateTime : 9/29/2025 12:10:00 PM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Yannuzzi Group, Inc.		Purchase Order :	Hard Copy Date :
Invoice Contact : Alyssa Yannuzzi			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3238-01	RCA	Solid	09/18/2025	10:31	VOC-TCLVOA-10	TCL+30/TAL	8260D		10 Bus. Days

Relinquished By :

Date / Time :

AS
9/29/25 14:05

Received By :

Date / Time :

AS
09/29/25

Storage Area : VOA Refridgerator Room

14:00