

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061325\
 Data File : VX046677.D
 Acq On : 13 Jun 2025 10:25
 Operator : JC/MD
 Sample : VX0613WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0613WBSD01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone
 06/16/2025

Supervised By :Mahesh
 Dadoda
 06/16/2025

Quant Time: Jun 13 23:01:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 11 06:20:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	17593	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	94872	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	87146	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	44259	31.078	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.600%			
60) 4-Bromofluorobenzene	11.079	95	43843	29.848	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.500%			
63) Toluene-d8	8.647	98	115874	29.768	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.233%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.185	85	22777	19.914	ug/l	99
3) Chloromethane	1.307	50	22632	19.205	ug/l	93
4) Vinyl Chloride	1.386	62	21208	18.667	ug/l	97
5) Bromomethane	1.630	94	12813	18.885	ug/l	93
6) Chloroethane	1.703	64	12656	19.390	ug/l	97
7) Trichlorofluoromethane	1.904	101	33940	20.857	ug/l	100
8) Diethyl Ether	2.148	74	11323	19.860	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.349	101	21463	19.824	ug/l	98
10) 1,1-Dichloroethene	2.337	96	20630	19.643	ug/l	95
11) Methyl Iodide	2.465	142	24245	16.933	ug/l	99
12) Methyl Acetate	2.715	43	23258	17.569	ug/l	97
13) Acrolein	2.246	56	24799	191.175	ug/l	98
14) Acrylonitrile	3.075	53	56604	104.048	ug/l	100
15) Acetone	2.392	58	14133	113.610	ug/l	82
16) Carbon Disulfide	2.526	76	56529	19.401	ug/l	99
17) Allyl chloride	2.678	41	36891	19.361	ug/l	91
18) Methylene Chloride	2.800	84	23625	20.383	ug/l	95
19) trans-1,2-Dichloroethene	3.105	96	22407	20.588	ug/l	94
20) Diisopropyl ether	3.770	45	76701	21.276	ug/l	88
21) 1,1-Dichloroethane	3.630	63	43176	20.903	ug/l	99
22) cis-1,2-Dichloroethene	4.507	96	26847	21.158	ug/l	98
23) tert-Butyl Alcohol	2.965	59	12725	115.812	ug/l #	100
24) Methyl tert-Butyl Ether	3.130	73	66490	20.725	ug/l	98
25) Chloroform	5.105	83	44840	21.091	ug/l	99
26) Cyclohexane	5.483	56	38696	20.533	ug/l #	99
29) 1,1-Dichloropropene	5.708	75	29546	19.794	ug/l	97
30) 2-Butanone	4.568	43	75613	113.685	ug/l	99
31) 2,2-Dichloropropane	4.489	77	31446	23.730	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	38082	20.647	ug/l	99
33) Carbon Tetrachloride	5.690	117	34605	21.141	ug/l	98
34) Benzene	6.044	78	91598	20.886	ug/l	97
35) Methacrylonitrile	4.922	41	17320m	21.236	ug/l	
36) 1,2-Dichloroethane	6.099	62	36651	22.089	ug/l	98
37) Trichloroethene	7.129	130	22565	20.505	ug/l	93
38) Methylcyclohexane	7.385	83	38800	20.478	ug/l	98
39) 1,2-Dichloropropane	7.434	63	22953	20.981	ug/l	95
40) Dibromomethane	7.586	93	16961	20.739	ug/l	97
41) Bromodichloromethane	7.824	83	35669	21.408	ug/l #	97
42) Vinyl Acetate	3.733	43	320274	111.595	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	30100	21.364	ug/l #	86
44) Isopropyl Acetate	6.349	43	49534	22.477	ug/l	100
45) 1,4-Dioxane	7.659	88	7079	509.251	ug/l #	94
46) Methyl methacrylate	7.696	41	25591	21.268	ug/l	97
47) n-amyl Acetate	10.842	43	45371	23.017	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	32035	21.448	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	36069	21.630	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	22615	21.941	ug/l	91
51) Ethyl methacrylate	9.116	69	33611	21.446	ug/l	98
52) 1,3-Dichloropropane	9.305	76	38797	21.610	ug/l	97
53) Dibromochloromethane	9.519	129	26391	21.723	ug/l	99
54) 1,2-Dibromoethane	9.610	107	23421	21.602	ug/l	98
55) 2-Chloroethyl vinyl ether	8.245	63	97418	119.019	ug/l	98
56) Bromoform	10.799	173	16781	22.351	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	157087	110.818	ug/l	100
59) 2-Hexanone	9.427	43	110775	110.773	ug/l	98
61) Tetrachloroethene	9.269	164	18869	20.660	ug/l	97
62) Toluene	8.720	91	98083	20.768	ug/l	100
64) Chlorobenzene	10.080	112	63092	20.712	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	21571	21.130	ug/l	100
66) Ethyl Benzene	10.195	91	110168	20.430	ug/l	100
67) m/p-Xylenes	10.299	106	83886	42.056	ug/l	99
68) o-Xylene	10.640	106	40031	20.844	ug/l	97
69) Styrene	10.653	104	70016	21.270	ug/l	100
70) Isopropylbenzene	10.964	105	107313	20.822	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	32975	21.780	ug/l	96
72) 1,2,3-Trichloropropane	11.238	75	28082m	22.218	ug/l	
73) Bromobenzene	11.195	156	25496	21.104	ug/l	98
74) n-propylbenzene	11.305	91	130610	21.193	ug/l	100
75) 2-Chlorotoluene	11.360	91	79811	21.632	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	90986	21.248	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	9391	21.994	ug/l	96
78) 4-Chlorotoluene	11.451	91	92998	21.787	ug/l	100
79) tert-butylbenzene	11.713	119	90986	21.305	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	90779	21.465	ug/l	99
81) sec-Butylbenzene	11.890	105	116849	21.382	ug/l	99
82) p-Isopropyltoluene	12.006	119	96516	21.518	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	48878	21.735	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	49397	21.843	ug/l	99
85) n-Butylbenzene	12.329	91	93306	21.594	ug/l	99
86) Hexachloroethane	12.536	117	15988	20.524	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	47651	22.025	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	6875	22.014	ug/l	100
89) 1,2,4-Trichlorobenzene	13.585	180	31164	21.849	ug/l	99
90) Hexachlorobutadiene	13.725	225	13305	21.185	ug/l	97
91) Naphthalene	13.774	128	98193	21.699	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	30606	21.861	ug/l	99

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

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