

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
 Data File : VX046778.D
 Acq On : 20 Jun 2025 11:17
 Operator : JC/MD
 Sample : VX0620WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0620WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/23/2025
 Supervised By : Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 23:12:50 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	4.904	128	22072m	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.763	114	132966	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	121720	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	51597	28.879	ug/l	-0.01
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.267%		
60) 4-Bromofluorobenzene	11.079	95	59706	29.102	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.000%		
63) Toluene-d8	8.647	98	159297	29.299	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.667%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.185	85	26707	18.611	ug/l	95
3) Chloromethane	1.307	50	28311	19.149	ug/l	94
4) Vinyl Chloride	1.386	62	30152	21.154	ug/l	99
5) Bromomethane	1.630	94	17832	20.949	ug/l	92
6) Chloroethane	1.703	64	17949	21.919	ug/l	93
7) Trichlorofluoromethane	1.904	101	43576	21.345	ug/l	98
8) Diethyl Ether	2.142	74	14866	20.783	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.349	101	26658	19.626	ug/l	95
10) 1,1-Dichloroethene	2.331	96	26718	20.278	ug/l	95
11) Methyl Iodide	2.465	142	31740m	17.669	ug/l	
12) Methyl Acetate	2.709	43	21494	12.942	ug/l	98
13) Acrolein	2.246	56	15323	94.154	ug/l	99
14) Acrylonitrile	3.069	53	53157	77.884	ug/l	99
15) Acetone	2.386	58	12107	77.574	ug/l	71
16) Carbon Disulfide	2.526	76	73164	20.014	ug/l	99
17) Allyl chloride	2.678	41	47252	19.766	ug/l	95
18) Methylene Chloride	2.800	84	28704m	19.740	ug/l	
19) trans-1,2-Dichloroethene	3.105	96	27878	20.417	ug/l	93
20) Diisopropyl ether	3.764	45	92360	20.421	ug/l	90
21) 1,1-Dichloroethane	3.617	63	51557	19.895	ug/l	97
22) cis-1,2-Dichloroethene	4.501	96	30659	19.259	ug/l	96
23) tert-Butyl Alcohol	2.947	59	8859	64.266	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	72218	17.942	ug/l	95
25) Chloroform	5.099	83	52568	19.708	ug/l	97
26) Cyclohexane	5.477	56	48023	20.311	ug/l #	97
29) 1,1-Dichloropropene	5.702	75	36885m	17.631	ug/l	
30) 2-Butanone	4.562	43	56308	60.405	ug/l	98
31) 2,2-Dichloropropane	4.483	77	38410	20.681	ug/l	96
32) 1,1,1-Trichloroethane	5.385	97	44768	17.319	ug/l	97
33) Carbon Tetrachloride	5.684	117	31775m	13.850	ug/l	
34) Benzene	6.044	78	110889	18.041	ug/l	94
35) Methacrylonitrile	4.922	41	14936	13.066	ug/l	94
36) 1,2-Dichloroethane	6.092	62	37351	16.062	ug/l #	91
37) Trichloroethene	7.129	130	28724	18.624	ug/l	83
38) Methylcyclohexane	7.379	83	49551	18.660	ug/l	96
39) 1,2-Dichloropropane	7.428	63	27148	17.706	ug/l	92
40) Dibromomethane	7.580	93	17873	15.593	ug/l	57
41) Bromodichloromethane	7.818	83	40231	17.228	ug/l #	97
42) Vinyl Acetate	3.727	43	334640	83.195	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	28139m	14.250	ug/l	
44) Isopropyl Acetate	6.342	43	43020	13.928	ug/l	99
45) 1,4-Dioxane	7.659	88	5154	264.546	ug/l #	92
46) Methyl methacrylate	7.696	41	23031	13.657	ug/l	96
47) n-amyl Acetate	10.842	43	40730	14.743	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	36574	17.471	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	41537	17.773	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	24893	17.232	ug/l #	82
51) Ethyl methacrylate	9.116	69	32866	14.962	ug/l	91
52) 1,3-Dichloropropane	9.305	76	43529	17.299	ug/l	97
53) Dibromochloromethane	9.519	129	27709	16.273	ug/l	57
54) 1,2-Dibromoethane	9.604	107	24674	16.238	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	99966	87.142	ug/l	100
56) Bromoform	10.774	173	339m	0.322	ug/l	
58) 4-Methyl-2-Pentanone	8.568	43	125593	63.434	ug/l	98
59) 2-Hexanone	9.427	43	84612	60.578	ug/l	96
61) Tetrachloroethene	9.269	164	25146	19.712	ug/l	96
62) Toluene	8.714	91	122863	18.625	ug/l	99
64) Chlorobenzene	10.073	112	80204	18.851	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	27025	18.953	ug/l	98
66) Ethyl Benzene	10.189	91	136145	18.075	ug/l	99
67) m/p-Xylenes	10.299	106	104719	37.588	ug/l	95
68) o-Xylene	10.640	106	50275	18.742	ug/l	95
69) Styrene	10.653	104	85079	18.504	ug/l	99
70) Isopropylbenzene	10.957	105	133340	18.523	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	31745	15.012	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	26037m	14.749	ug/l	
73) Bromobenzene	11.195	156	30978	18.359	ug/l	96
74) n-propylbenzene	11.299	91	162229	18.847	ug/l	100
75) 2-Chlorotoluene	11.360	91	94517	18.342	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	109964	18.385	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	9170	15.376	ug/l	83
78) 4-Chlorotoluene	11.451	91	110260	18.494	ug/l	97
79) tert-butylbenzene	11.713	119	111464	18.687	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	110376	18.686	ug/l	99
81) sec-Butylbenzene	11.884	105	144888	18.982	ug/l	98
82) p-Isopropyltoluene	12.006	119	121430	19.383	ug/l	96
83) 1,3-Dichlorobenzene	11.963	146	60889	19.385	ug/l	98
84) 1,4-Dichlorobenzene	12.036	146	61727	19.542	ug/l	98
85) n-Butylbenzene	12.329	91	115050	19.063	ug/l	99
86) Hexachloroethane	12.536	117	18935	17.403	ug/l	90
87) 1,2-Dichlorobenzene	12.329	146	58173	19.251	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	5318	12.191	ug/l	84
89) 1,2,4-Trichlorobenzene	13.585	180	39384	19.769	ug/l	99
90) Hexachlorobutadiene	13.719	225	17181	19.586	ug/l	96
91) Naphthalene	13.774	128	99578	15.755	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	37432	19.142	ug/l	97

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

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