

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
 Data File : VX046622.D
 Acq On : 10 Jun 2025 23:30
 Operator : JC/MD
 Sample : VX0610WBSD02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0610WBSD02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/11/2025
 Supervised By : Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 06:51:08 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	4.916	128	18375m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	97353	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	88537	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	44954	30.223	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 100.733%		
60) 4-Bromofluorobenzene	11.079	95	45409	30.428	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 101.433%		
63) Toluene-d8	8.653	98	119552	30.230	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 100.767%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	22267	18.639	ug/l	99
3) Chloromethane	1.307	50	23004	18.690	ug/l	99
4) Vinyl Chloride	1.386	62	21932	18.483	ug/l	100
5) Bromomethane	1.630	94	14104	19.903	ug/l	98
6) Chloroethane	1.703	64	13101	19.218	ug/l	98
7) Trichlorofluoromethane	1.904	101	31941	18.793	ug/l	99
8) Diethyl Ether	2.148	74	11541	19.381	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.349	101	21564	19.070	ug/l	100
10) 1,1-Dichloroethene	2.337	96	20826	18.986	ug/l	94
11) Methyl Iodide	2.471	142	28303	18.926	ug/l	98
12) Methyl Acetate	2.715	43	22870	16.541	ug/l	98
13) Acrolein	2.252	56	15726	116.072	ug/l	96
14) Acrylonitrile	3.075	53	53672	94.460	ug/l	99
15) Acetone	2.386	58	12589	96.891	ug/l	88
16) Carbon Disulfide	2.532	76	57187	18.791	ug/l	97
17) Allyl chloride	2.678	41	37243	18.713	ug/l	97
18) Methylene Chloride	2.806	84	23915	19.755	ug/l	99
19) trans-1,2-Dichloroethene	3.111	96	21996	19.350	ug/l	96
20) Diisopropyl ether	3.776	45	74738	19.849	ug/l	96
21) 1,1-Dichloroethane	3.629	63	42281	19.599	ug/l	100
22) cis-1,2-Dichloroethene	4.507	96	24898	18.787	ug/l	94
23) tert-Butyl Alcohol	2.959	59	10968	95.573	ug/l #	100
24) Methyl tert-Butyl Ether	3.129	73	65563	19.566	ug/l	99
25) Chloroform	5.111	83	43093	19.406	ug/l	99
26) Cyclohexane	5.483	56	38453	19.536	ug/l #	100
29) 1,1-Dichloropropene	5.708	75	30440	19.873	ug/l	99
30) 2-Butanone	4.568	43	65819	96.438	ug/l	99
31) 2,2-Dichloropropane	4.489	77	24858	18.281	ug/l	99
32) 1,1,1-Trichloroethane	5.397	97	37661	19.899	ug/l	98
33) Carbon Tetrachloride	5.690	117	33108	19.711	ug/l	97
34) Benzene	6.043	78	89286	19.840	ug/l	99
35) Methacrylonitrile	4.934	41	16095	19.231	ug/l	89
36) 1,2-Dichloroethane	6.098	62	33597	19.732	ug/l	99
37) Trichloroethene	7.135	130	21971	19.456	ug/l	98
38) Methylcyclohexane	7.385	83	38630	19.869	ug/l	97
39) 1,2-Dichloropropane	7.433	63	22120	19.704	ug/l	93
40) Dibromomethane	7.586	93	16776	19.990	ug/l	99
41) Bromodichloromethane	7.824	83	33893	19.824	ug/l	99
42) Vinyl Acetate	3.733	43	300035	101.879	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	28934m	20.013	ug/l	
44) Isopropyl Acetate	6.348	43	45312	20.037	ug/l	98
45) 1,4-Dioxane	7.659	88	5649	396.023	ug/l	97
46) Methyl methacrylate	7.696	41	24278	19.662	ug/l	97
47) n-amyl Acetate	10.841	43	41711	20.621	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	29466	19.225	ug/l	100
49) cis-1,3-Dichloropropene	8.372	75	33000	19.285	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	21320	20.157	ug/l	93
51) Ethyl methacrylate	9.116	69	32299	20.083	ug/l	99
52) 1,3-Dichloropropane	9.311	76	36857	20.006	ug/l	98
53) Dibromochloromethane	9.518	129	24030	19.275	ug/l	98
54) 1,2-Dibromoethane	9.610	107	21215	19.069	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	85863	102.228	ug/l	99
56) Bromoform	10.799	173	14734	19.125	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	143464	99.617	ug/l	99
59) 2-Hexanone	9.433	43	102231	100.623	ug/l	99
61) Tetrachloroethene	9.275	164	18246	19.664	ug/l	97
62) Toluene	8.720	91	97601	20.341	ug/l	100
64) Chlorobenzene	10.079	112	61598	19.904	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	20571	19.834	ug/l	99
66) Ethyl Benzene	10.195	91	109283	19.947	ug/l	99
67) m/p-Xylenes	10.299	106	82912	40.915	ug/l	96
68) o-Xylene	10.640	106	39503	20.246	ug/l	97
69) Styrene	10.652	104	68261	20.411	ug/l	100
70) Isopropylbenzene	10.963	105	105875	20.220	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	30972	20.136	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	25660m	19.983	ug/l	
73) Bromobenzene	11.195	156	25119	20.466	ug/l	95
74) n-propylbenzene	11.305	91	128020	20.447	ug/l	99
75) 2-Chlorotoluene	11.360	91	76592	20.434	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	89088	20.477	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	7910	18.235	ug/l	95
78) 4-Chlorotoluene	11.451	91	90345	20.833	ug/l	100
79) tert-butylbenzene	11.713	119	87978	20.277	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	88321	20.556	ug/l	97
81) sec-Butylbenzene	11.890	105	114511	20.625	ug/l	100
82) p-Isopropyltoluene	12.006	119	94966	20.840	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	47371	20.734	ug/l	98
84) 1,4-Dichlorobenzene	12.036	146	46972	20.444	ug/l	98
85) n-Butylbenzene	12.329	91	90822	20.688	ug/l	100
86) Hexachloroethane	12.536	117	15461	19.536	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	45048	20.495	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	6118	19.282	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	30003	20.704	ug/l	99
90) Hexachlorobutadiene	13.719	225	13247	20.761	ug/l	99
91) Naphthalene	13.774	128	91010	19.796	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	29418	20.682	ug/l	99

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

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