

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062525\
 Data File : VN087177.D
 Acq On : 25 Jun 2025 14:58
 Operator : JC\MD
 Sample : Q2126-07 2.5PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2025

Quant Time: Jun 26 04:02:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/26/2025
 Supervised By : Mahesh Dadoda 06/26/2025

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

Internal Standards						
1) Bromochloromethane	7.824	128	35045	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	193064	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	171041	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	79412	30.075	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.233%			
60) 4-Bromofluorobenzene	12.847	95	77918	29.522	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.400%			
63) Toluene-d8	10.571	98	235489	30.664	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.200%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.159	85	4411	2.091	ug/l	100
3) Chloromethane	2.401	50	5072	2.354	ug/l	89
4) Vinyl Chloride	2.553	62	4816	2.057	ug/l	98
5) Bromomethane	2.995	94	1592m	1.281	ug/l	
6) Chloroethane	3.159	64	2536	2.019	ug/l	98
7) Trichlorofluoromethane	3.530	101	5335	1.857	ug/l	88
8) Diethyl Ether	3.989	74	2835	2.009	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.400	101	5090	2.390	ug/l #	45
10) 1,1-Dichloroethene	4.371	96	4647	2.189	ug/l	90
11) Methyl Iodide	4.606	142	1520m	0.799	ug/l	
12) Methyl Acetate	5.042	43	6828m	2.051	ug/l	
13) Acrolein	4.212	56	3673	7.178	ug/l #	79
14) Acrylonitrile	5.741	53	17098	11.008	ug/l #	60
15) Acetone	4.453	58	4950m	10.925	ug/l	
16) Carbon Disulfide	4.742	76	15399	2.481	ug/l #	92
17) Allyl chloride	5.047	41	7812m	2.231	ug/l	
18) Methylene Chloride	5.294	84	6243	2.539	ug/l #	92
19) trans-1,2-Dichloroethene	5.806	96	5618	2.420	ug/l	85
20) Diisopropyl ether	6.683	45	16139	2.173	ug/l #	97
21) 1,1-Dichloroethane	6.577	63	9999m	2.252	ug/l	
22) cis-1,2-Dichloroethene	7.500	96	6196	2.293	ug/l	94
23) tert-Butyl Alcohol	5.536	59	6403m	10.962	ug/l	
24) Methyl tert-Butyl Ether	5.818	73	15427	2.072	ug/l #	78
25) Chloroform	7.977	83	10349	2.433	ug/l	95
26) Cyclohexane	8.265	56	8210	2.225	ug/l #	95
29) 1,1-Dichloropropene	8.382	75	6746	2.242	ug/l	97
30) 2-Butanone	7.494	43	22400	11.035	ug/l	97
31) 2,2-Dichloropropane	7.494	77	7794	2.146	ug/l	97
32) 1,1,1-Trichloroethane	8.182	97	8224	2.339	ug/l	97
33) Carbon Tetrachloride	8.371	117	6794	2.296	ug/l	97
34) Benzene	8.612	78	22416	2.351	ug/l #	74
35) Methacrylonitrile	7.783	41	4525	2.212	ug/l	86
36) 1,2-Dichloroethane	8.677	62	7157	2.324	ug/l #	93
37) Trichloroethene	9.359	130	5385	2.449	ug/l	89
38) Methylcyclohexane	9.606	83	7782	2.254	ug/l	96
39) 1,2-Dichloropropane	9.624	63	5432	2.270	ug/l #	88
40) Dibromomethane	9.712	93	4027	2.475	ug/l	90
41) Bromodichloromethane	9.894	83	7729	2.353	ug/l #	92
42) Vinyl Acetate	6.624	43	64025	9.698	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.577	43	9187m	2.507	ug/l	
44) Isopropyl Acetate	8.694	43	12835	2.150	ug/l #	77
45) 1,4-Dioxane	9.712	88	1441m	35.681	ug/l	
46) Methyl methacrylate	9.688	41	5726m	2.063	ug/l	
47) n-amyl Acetate	12.641	43	10651m	2.918	ug/l	
48) t-1,3-Dichloropropene	10.841	75	7493	2.047	ug/l #	87
49) cis-1,3-Dichloropropene	10.318	75	8229	2.114	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	5196	2.248	ug/l #	86
51) Ethyl methacrylate	10.888	69	5181m	1.473	ug/l	
52) 1,3-Dichloropropane	11.165	76	8573	2.161	ug/l	98
53) Dibromochloromethane	11.359	129	5311	2.189	ug/l	96
54) 1,2-Dibromoethane	11.471	107	5187	2.175	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	18763	9.305	ug/l	97
56) Bromoform	12.582	173	3179	1.906	ug/l #	98
58) 4-Methyl-2-Pentanone	10.453	43	33281	9.679	ug/l	91
59) 2-Hexanone	11.265	43	9277m	4.178	ug/l	
61) Tetrachloroethene	11.100	164	4296	2.536	ug/l #	87
62) Toluene	10.629	91	23533	2.436	ug/l	99
64) Chlorobenzene	11.894	112	14104	2.289	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.965	131	4641	2.279	ug/l	98
66) Ethyl Benzene	11.965	91	22292	2.108	ug/l	100
67) m/p-Xylenes	12.070	106	17323	4.275	ug/l	99
68) o-Xylene	12.394	106	8154	2.109	ug/l	98
69) Styrene	12.412	104	12979	1.956	ug/l	99
70) Isopropylbenzene	12.694	105	19971	2.074	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	8197	2.365	ug/l	96
72) 1,2,3-Trichloropropane	12.994	75	6555m	2.194	ug/l	
73) Bromobenzene	12.976	156	5466	2.341	ug/l	94
74) n-propylbenzene	13.035	91	25410	2.160	ug/l	99
75) 2-Chlorotoluene	13.129	91	16342	2.300	ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	16837	2.148	ug/l	96
77) t-1,4-Dichloro-2-butene	12.741	75	2270	1.713	ug/l	83
78) 4-Chlorotoluene	13.223	91	15930	2.189	ug/l	96
79) tert-butylbenzene	13.435	119	13566	2.059	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	15637	1.987	ug/l	99
81) sec-Butylbenzene	13.617	105	19062	1.990	ug/l	99
82) p-Isopropyltoluene	13.729	119	15737	1.975	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	9840	2.188	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	10222	2.258	ug/l	98
85) n-Butylbenzene	14.053	91	15210	2.092	ug/l	96
86) Hexachloroethane	14.329	117	3310	2.194	ug/l	94
87) 1,2-Dichlorobenzene	14.106	146	9756	2.301	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	1868	2.394	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	5664m	2.361	ug/l	
90) Hexachlorobutadiene	15.494	225	1628	2.287	ug/l	87
91) Naphthalene	15.635	128	18300	1.938	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	5663	2.361	ug/l	92

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

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