

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070925\
 Data File : VN087313.D
 Acq On : 09 Jul 2025 16:09
 Operator : JC\MD
 Sample : Q2126-09 2.5PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT2-2025

Quant Time: Jul 10 01:26:57 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 07/10/2025
 Supervised By : Mahesh Dadoda 07/10/2025

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

Internal Standards						
1) Bromochloromethane	7.818	128	39189	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	201445	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	184098	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	86126	29.169	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.233%		
60) 4-Bromofluorobenzene	12.847	95	83088	29.248	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.500%		
63) Toluene-d8	10.565	98	249509	30.185	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.633%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.160	85	5036	2.135	ug/l	85
3) Chloromethane	2.401	50	4759	1.975	ug/l	97
4) Vinyl Chloride	2.554	62	5028	1.920	ug/l	98
5) Bromomethane	2.995	94	5784	4.162	ug/l #	67
6) Chloroethane	3.154	64	4305	3.065	ug/l #	84
7) Trichlorofluoromethane	3.530	101	8825	2.747	ug/l #	67
8) Diethyl Ether	3.977	74	3000	1.901	ug/l	54
9) 1,1,2-Trichlorotrifluo...	4.406	101	5455m	2.291	ug/l	
10) 1,1-Dichloroethene	4.371	96	4934	2.078	ug/l #	71
11) Methyl Iodide	4.612	142	4394m	2.066	ug/l	
12) Methyl Acetate	5.053	43	6096m	1.637	ug/l	
13) Acrolein	4.201	56	4078m	7.127	ug/l	
14) Acrylonitrile	5.742	53	13901	8.003	ug/l #	81
15) Acetone	4.459	58	6956m	13.730	ug/l	
16) Carbon Disulfide	4.736	76	16022	2.308	ug/l #	94
17) Allyl chloride	5.048	41	7449m	1.902	ug/l	
18) Methylene Chloride	5.306	84	9402m	3.419	ug/l	
19) trans-1,2-Dichloroethene	5.812	96	5951m	2.292	ug/l	
20) Diisopropyl ether	6.683	45	11861	1.428	ug/l #	83
21) 1,1-Dichloroethane	6.583	63	9992m	2.012	ug/l	
22) cis-1,2-Dichloroethene	7.500	96	6815m	2.256	ug/l	
23) tert-Butyl Alcohol	5.536	59	5896	9.026	ug/l #	100
24) Methyl tert-Butyl Ether	5.830	73	15601m	1.874	ug/l	
25) Chloroform	7.971	83	10901	2.292	ug/l	93
26) Cyclohexane	8.259	56	6599	1.599	ug/l #	89
29) 1,1-Dichloropropene	8.371	75	6820	2.172	ug/l	80
30) 2-Butanone	7.494	43	23527	11.108	ug/l	94
31) 2,2-Dichloropropane	7.500	77	10157	2.680	ug/l #	88
32) 1,1,1-Trichloroethane	8.177	97	9996	2.725	ug/l #	36
33) Carbon Tetrachloride	8.365	117	8647	2.801	ug/l #	91
34) Benzene	8.606	78	22408	2.253	ug/l #	60
35) Methacrylonitrile	7.789	41	3530	1.654	ug/l	86
36) 1,2-Dichloroethane	8.677	62	8408	2.616	ug/l	95
37) Trichloroethene	9.353	130	6109	2.663	ug/l #	71
38) Methylcyclohexane	9.606	83	7313	2.030	ug/l	93
39) 1,2-Dichloropropane	9.624	63	5496	2.201	ug/l	94
40) Dibromomethane	9.712	93	4697	2.767	ug/l	95
41) Bromodichloromethane	9.888	83	9185	2.680	ug/l	85
42) Vinyl Acetate	6.624	43	49727	7.219	ug/l #	91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.577	43	7671m	2.006	ug/l	
44) Isopropyl Acetate	8.694	43	11378	1.826	ug/l	93
45) 1,4-Dioxane	9.700	88	1574m	37.352	ug/l	
46) Methyl methacrylate	9.688	41	4229	1.460	ug/l	93
48) t-1,3-Dichloropropene	10.835	75	7850	2.055	ug/l	92
49) cis-1,3-Dichloropropene	10.312	75	8910	2.194	ug/l	91
50) 1,1,2-Trichloroethane	11.018	97	5859	2.430	ug/l	94
51) Ethyl methacrylate	10.900	69	4796m	1.307	ug/l	
52) 1,3-Dichloropropane	11.165	76	9331	2.254	ug/l	99
53) Dibromochloromethane	11.365	129	6198	2.448	ug/l	95
54) 1,2-Dibromoethane	11.471	107	5850	2.351	ug/l	90
55) 2-Chloroethyl vinyl ether	10.165	63	13713	6.518	ug/l	99
56) Bromoform	12.571	173	4435m	2.549	ug/l	
58) 4-Methyl-2-Pentanone	10.453	43	25376	6.856	ug/l	96
59) 2-Hexanone	11.259	43	30292m	12.675	ug/l	
61) Tetrachloroethene	11.106	164	4555	2.498	ug/l	94
62) Toluene	10.635	91	26748	2.573	ug/l	96
64) Chlorobenzene	11.888	112	16417	2.475	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.959	131	5902	2.693	ug/l	89
66) Ethyl Benzene	11.965	91	23323	2.049	ug/l	99
67) m/p-Xylenes	12.071	106	17933	4.112	ug/l	98
68) o-Xylene	12.394	106	8823	2.121	ug/l	93
69) Styrene	12.412	104	12981	1.817	ug/l	98
70) Isopropylbenzene	12.694	105	20928	2.020	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	9026	2.420	ug/l	95
72) 1,2,3-Trichloropropane	13.000	75	7137m	2.219	ug/l	
73) Bromobenzene	12.976	156	5849	2.327	ug/l	94
74) n-propylbenzene	13.035	91	27331	2.159	ug/l	99
75) 2-Chlorotoluene	13.123	91	16848	2.203	ug/l	98
76) 1,3,5-Trimethylbenzene	13.171	105	17646	2.092	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	2614m	1.832	ug/l	
78) 4-Chlorotoluene	13.223	91	17233	2.200	ug/l	98
79) tert-butylbenzene	13.435	119	14605	2.060	ug/l	95
80) 1,2,4-Trimethylbenzene	13.482	105	16817	1.985	ug/l	96
81) sec-Butylbenzene	13.612	105	21346	2.071	ug/l	98
82) p-Isopropyltoluene	13.723	119	16498	1.923	ug/l	96
83) 1,3-Dichlorobenzene	13.735	146	12221	2.525	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	12049	2.473	ug/l	99
85) n-Butylbenzene	14.053	91	15537	1.985	ug/l	93
86) Hexachloroethane	14.335	117	4554	2.805	ug/l	93
87) 1,2-Dichlorobenzene	14.106	146	10737	2.353	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	1854	2.208	ug/l #	74
89) 1,2,4-Trichlorobenzene	15.835	180	5932	2.297	ug/l	91
90) Hexachlorobutadiene	15.488	225	1853	2.418	ug/l	79
91) Naphthalene	15.641	128	17714	1.743	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	5932	2.297	ug/l	91

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

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