

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
 Data File : VN088043.D
 Acq On : 08 Oct 2025 16:02
 Operator : JC\MD
 Sample : Q2893-08 5.0PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2025

Quant Time: Oct 09 02:58:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 09 02:36:32 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 10/09/2025
 Supervised By :Mahesh Dadoda 10/10/2025

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

Internal Standards						
1) Bromochloromethane	7.794	128	65057	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	361861	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	325562	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	153991	30.398	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.333%			
60) 4-Bromofluorobenzene	12.829	95	157611	29.366	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.900%			
63) Toluene-d8	10.547	98	439427	30.295	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.967%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	16238	4.358	ug/l	80
3) Chloromethane	2.383	50	20781m	4.919	ug/l	
4) Vinyl Chloride	2.542	62	20543	4.664	ug/l	97
5) Bromomethane	2.983	94	14945	6.309	ug/l	94
6) Chloroethane	3.142	64	13446	4.627	ug/l	91
7) Trichlorofluoromethane	3.506	101	29632	4.947	ug/l	88
8) Diethyl Ether	3.965	74	14576	5.385	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.371	101	16113m	5.025	ug/l	
10) 1,1-Dichloroethene	4.342	96	16107	4.709	ug/l #	71
11) Methyl Iodide	4.577	142	10847m	3.441	ug/l	
12) Methyl Acetate	5.012	43	28448	5.116	ug/l #	84
13) Acrolein	4.183	56	15635	18.169	ug/l #	1
14) Acrylonitrile	5.712	53	63933	23.824	ug/l	98
15) Acetone	4.424	58	19028	24.212	ug/l	75
16) Carbon Disulfide	4.706	76	53568	4.996	ug/l	95
17) Allyl chloride	5.018	41	36437m	5.645	ug/l	
18) Methylene Chloride	5.259	84	22561	5.189	ug/l #	86
19) trans-1,2-Dichloroethene	5.777	96	20948	5.297	ug/l	95
20) Diisopropyl ether	6.665	45	67417	4.588	ug/l	95
21) 1,1-Dichloroethane	6.547	63	35861	4.688	ug/l	95
22) cis-1,2-Dichloroethene	7.471	96	25299	5.110	ug/l	95
23) tert-Butyl Alcohol	5.530	59	25966	24.126	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	71236	4.825	ug/l	97
25) Chloroform	7.947	83	38759	4.910	ug/l	98
26) Cyclohexane	8.235	56	30537	4.818	ug/l #	94
29) 1,1-Dichloropropene	8.353	75	25177	4.854	ug/l	91
30) 2-Butanone	7.471	43	87546	22.885	ug/l #	82
31) 2,2-Dichloropropane	7.477	77	29867	4.469	ug/l	91
32) 1,1,1-Trichloroethane	8.147	97	32922	5.080	ug/l	97
33) Carbon Tetrachloride	8.341	117	27016	4.976	ug/l	97
34) Benzene	8.588	78	84408	4.906	ug/l #	90
35) Methacrylonitrile	7.765	41	19327	4.804	ug/l	93
36) 1,2-Dichloroethane	8.647	62	28124	4.709	ug/l #	93
37) Trichloroethene	9.335	130	19715	4.837	ug/l	96
38) Methylcyclohexane	9.576	83	30563	4.771	ug/l	99
39) 1,2-Dichloropropane	9.600	63	20389	4.726	ug/l #	83
40) Dibromomethane	9.694	93	16003	5.096	ug/l	96
41) Bromodichloromethane	9.871	83	31430	4.901	ug/l	98
42) Vinyl Acetate	6.594	43	322207	24.724	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	33209	4.516	ug/l	97
44) Isopropyl Acetate	8.671	43	56864	4.734	ug/l	95
45) 1,4-Dioxane	9.688	88	6928	86.727	ug/l #	93
46) Methyl methacrylate	9.671	41	25937	4.904	ug/l	97
47) n-amyl Acetate	12.959	43	27557m	4.841	ug/l	
48) t-1,3-Dichloropropene	10.818	75	32929	4.617	ug/l	94
49) cis-1,3-Dichloropropene	10.294	75	34591	4.650	ug/l	91
50) 1,1,2-Trichloroethane	10.994	97	20059	4.824	ug/l	95
51) Ethyl methacrylate	10.859	69	32187	4.573	ug/l	95
52) 1,3-Dichloropropane	11.147	76	34961	4.819	ug/l	99
53) Dibromochloromethane	11.335	129	22140	4.453	ug/l	98
54) 1,2-Dibromoethane	11.447	107	21081	4.742	ug/l	97
55) 2-Chloroethyl vinyl ether	10.141	63	80233	21.121	ug/l	99
56) Bromoform	12.565	173	14935	4.444	ug/l #	96
58) 4-Methyl-2-Pentanone	10.423	43	169403	23.263	ug/l	97
59) 2-Hexanone	11.182	43	91438	19.018	ug/l	95
61) Tetrachloroethene	11.082	164	15873	4.815	ug/l	94
62) Toluene	10.612	91	88137	4.773	ug/l	98
64) Chlorobenzene	11.865	112	58374	4.949	ug/l	91
65) 1,1,1,2-Tetrachloroethane	11.941	131	18234	4.486	ug/l	87
66) Ethyl Benzene	11.947	91	97291	4.845	ug/l	98
67) m/p-Xylenes	12.053	106	73850	9.540	ug/l	99
68) o-Xylene	12.376	106	37966	4.927	ug/l	97
69) Styrene	12.394	104	56067	4.398	ug/l	98
70) Isopropylbenzene	12.676	105	93065	4.927	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.917	83	29996	4.684	ug/l #	98
72) 1,2,3-Trichloropropane	12.970	75	29068m	4.888	ug/l	
73) Bromobenzene	12.959	156	21170	4.586	ug/l	97
74) n-propylbenzene	13.012	91	106424	4.668	ug/l	100
75) 2-Chlorotoluene	13.106	91	69567	4.990	ug/l	95
76) 1,3,5-Trimethylbenzene	13.153	105	77051	4.803	ug/l	95
77) t-1,4-Dichloro-2-butene	12.717	75	8859m	3.738	ug/l	
78) 4-Chlorotoluene	13.200	91	71542	5.051	ug/l	97
79) tert-butylbenzene	13.412	119	67015	4.818	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	75720	4.715	ug/l	98
81) sec-Butylbenzene	13.594	105	95520	4.885	ug/l	97
82) p-Isopropyltoluene	13.706	119	80276	4.808	ug/l	99
83) 1,3-Dichlorobenzene	13.711	146	40521	4.665	ug/l	97
84) 1,4-Dichlorobenzene	13.794	146	46942	5.240	ug/l	95
85) n-Butylbenzene	14.029	91	73887	4.757	ug/l	100
86) Hexachloroethane	14.311	117	15548	4.649	ug/l	97
87) 1,2-Dichlorobenzene	14.088	146	40934	4.791	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.706	75	6984	4.749	ug/l #	81
89) 1,2,4-Trichlorobenzene	15.811	180	23331	4.585	ug/l	99
90) Hexachlorobutadiene	15.470	225	8735	4.932	ug/l	97
91) Naphthalene	15.617	128	87302	4.686	ug/l	98
92) 1,2,3-Trichlorobenzene	15.811	180	23331	4.585	ug/l	99

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

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