

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
 Data File : VN088038.D
 Acq On : 08 Oct 2025 13:59
 Operator : JC\MD
 Sample : VN1008WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1008WBSD01

Manual Integrations
 APPROVED

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

Quant Time: Oct 09 02:54:29 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

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

Internal Standards						
1) Bromochloromethane	7.794	128	67745	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	378996	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	337371	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	157639	29.883	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.600%
60) 4-Bromofluorobenzene	12.829	95	168600	30.314	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	101.033%
63) Toluene-d8	10.547	98	458624	30.511	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	86964	22.412	ug/l	96
3) Chloromethane	2.383	50	90661	20.609	ug/l	99
4) Vinyl Chloride	2.536	62	95902	20.907	ug/l	98
5) Bromomethane	2.983	94	56155	22.766	ug/l	89
6) Chloroethane	3.136	64	58383	19.295	ug/l	99
7) Trichlorofluoromethane	3.512	101	135513	21.725	ug/l	100
8) Diethyl Ether	3.959	74	56541	20.061	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.365	101	73847	22.116	ug/l	97
10) 1,1-Dichloroethene	4.330	96	71183	19.984	ug/l	88
11) Methyl Iodide	4.583	142	64948	19.784	ug/l	96
12) Methyl Acetate	5.018	43	113753	19.644	ug/l	89
13) Acrolein	4.177	56	92850	103.616	ug/l #	4
14) Acrylonitrile	5.706	53	282814	101.205	ug/l	98
15) Acetone	4.424	58	76348	93.292	ug/l	86
16) Carbon Disulfide	4.700	76	232887	20.857	ug/l	98
17) Allyl chloride	5.006	41	136133	20.254	ug/l	98
18) Methylene Chloride	5.259	84	91774	20.272	ug/l	98
19) trans-1,2-Dichloroethene	5.777	96	82339	19.994	ug/l	90
20) Diisopropyl ether	6.659	45	308424	20.156	ug/l	99
21) 1,1-Dichloroethane	6.553	63	158582	19.908	ug/l	94
22) cis-1,2-Dichloroethene	7.471	96	101151	19.621	ug/l	99
23) tert-Butyl Alcohol	5.530	59	114651	102.298	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	307170	19.979	ug/l	99
25) Chloroform	7.947	83	163380	19.875	ug/l	96
26) Cyclohexane	8.241	56	141081	21.376	ug/l #	98
29) 1,1-Dichloropropene	8.353	75	112694	20.744	ug/l	99
30) 2-Butanone	7.471	43	388424	96.945	ug/l	99
31) 2,2-Dichloropropane	7.471	77	140307	20.045	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	141075	20.782	ug/l	100
33) Carbon Tetrachloride	8.341	117	120667	21.222	ug/l	96
34) Benzene	8.588	78	358011	19.868	ug/l	100
35) Methacrylonitrile	7.765	41	87495	20.766	ug/l	96
36) 1,2-Dichloroethane	8.647	62	123448	19.734	ug/l	100
37) Trichloroethene	9.335	130	85726	20.080	ug/l	93
38) Methylcyclohexane	9.582	83	147949	22.053	ug/l	99
39) 1,2-Dichloropropane	9.600	63	87721	19.415	ug/l	96
40) Dibromomethane	9.694	93	65500	19.916	ug/l	98
41) Bromodichloromethane	9.871	83	134103	19.965	ug/l #	97
42) Vinyl Acetate	6.589	43	1336189	97.893	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	153397	19.917	ug/l #	85
44) Isopropyl Acetate	8.677	43	253840	20.179	ug/l	98
45) 1,4-Dioxane	9.682	88	34358	410.661	ug/l #	97
46) Methyl methacrylate	9.665	41	114629	20.692	ug/l	98
47) n-amyl Acetate	12.606	43	130480m	21.884	ug/l	
48) t-1,3-Dichloropropene	10.818	75	146947	19.674	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	151858	19.491	ug/l	97
50) 1,1,2-Trichloroethane	10.994	97	84761	19.461	ug/l	95
51) Ethyl methacrylate	10.853	69	144004	19.537	ug/l	99
52) 1,3-Dichloropropane	11.141	76	150076	19.750	ug/l	100
53) Dibromochloromethane	11.341	129	101830	19.557	ug/l	98
54) 1,2-Dibromoethane	11.447	107	91973	19.752	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	356645	89.640	ug/l	100
56) Bromoform	12.559	173	67273	19.110	ug/l	96
58) 4-Methyl-2-Pentanone	10.424	43	754327	99.961	ug/l	99
59) 2-Hexanone	11.176	43	488700	98.088	ug/l	100
61) Tetrachloroethene	11.088	164	72713	21.283	ug/l	98
62) Toluene	10.612	91	377038	19.702	ug/l	96
64) Chlorobenzene	11.871	112	244660	20.016	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.941	131	84006	19.943	ug/l	97
66) Ethyl Benzene	11.941	91	422156	20.287	ug/l	98
67) m/p-Xylenes	12.053	106	317926	39.632	ug/l	96
68) o-Xylene	12.376	106	159310	19.949	ug/l	98
69) Styrene	12.394	104	263761	19.967	ug/l	99
70) Isopropylbenzene	12.676	105	403558	20.619	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	132867	20.023	ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	130784m	21.222	ug/l	
73) Bromobenzene	12.959	156	94319	19.717	ug/l	98
74) n-propylbenzene	13.012	91	487994	20.654	ug/l	100
75) 2-Chlorotoluene	13.106	91	291086	20.149	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	340570	20.485	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	46060	18.755	ug/l	92
78) 4-Chlorotoluene	13.200	91	300719	20.488	ug/l	97
79) tert-butylbenzene	13.412	119	305555	21.201	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	335940	20.184	ug/l	99
81) sec-Butylbenzene	13.594	105	433069	21.371	ug/l	100
82) p-Isopropyltoluene	13.706	119	373742	21.603	ug/l	100
83) 1,3-Dichlorobenzene	13.712	146	181749	20.193	ug/l	99
84) 1,4-Dichlorobenzene	13.794	146	192001	20.684	ug/l	99
85) n-Butylbenzene	14.035	91	340776	21.172	ug/l	99
86) Hexachloroethane	14.306	117	68466	19.755	ug/l	98
87) 1,2-Dichlorobenzene	14.088	146	178923	20.210	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.700	75	30078	19.736	ug/l	95
89) 1,2,4-Trichlorobenzene	15.817	180	104869	19.887	ug/l	98
90) Hexachlorobutadiene	15.476	225	40385	22.004	ug/l	97
91) Naphthalene	15.617	128	386783	20.034	ug/l	99
92) 1,2,3-Trichlorobenzene	15.817	180	104869	19.887	ug/l	98

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

