

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062525\
 Data File : VN087170.D
 Acq On : 25 Jun 2025 12:15
 Operator : JC\MD
 Sample : VN0625WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0625WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/25/2025
 Supervised By : Mahesh Dadoda 06/26/2025

Quant Time: Jun 25 15:30:31 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

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

Internal Standards						
1) Bromochloromethane	7.824	128	37318	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	209203	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	180451	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	86489	30.760	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 102.533%		
60) 4-Bromofluorobenzene	12.847	95	93228	33.480	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 111.600%		
63) Toluene-d8	10.565	98	260952	32.207	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 107.367%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.159	85	39176	17.439	ug/l	99
3) Chloromethane	2.395	50	43014	18.747	ug/l	99
4) Vinyl Chloride	2.553	62	44267	17.752	ug/l	95
5) Bromomethane	2.995	94	25125	18.985	ug/l	95
6) Chloroethane	3.153	64	25308	18.919	ug/l	100
7) Trichlorofluoromethane	3.524	101	56428	18.448	ug/l	99
8) Diethyl Ether	3.983	74	27606	18.370	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.394	101	40795	17.989	ug/l #	86
10) 1,1-Dichloroethene	4.371	96	40391	17.868	ug/l	97
11) Methyl Iodide	4.618	142	32563	16.079	ug/l	97
12) Methyl Acetate	5.047	43	70684	19.934	ug/l	97
13) Acrolein	4.200	56	54457	99.948	ug/l	100
14) Acrylonitrile	5.736	53	161948	97.916	ug/l	99
15) Acetone	4.453	58	43711	90.601	ug/l	90
16) Carbon Disulfide	4.741	76	116391	17.610	ug/l	99
17) Allyl chloride	5.041	41	66373	17.801	ug/l	93
18) Methylene Chloride	5.306	84	48895	18.671	ug/l	97
19) trans-1,2-Dichloroethene	5.812	96	44585	18.035	ug/l	98
20) Diisopropyl ether	6.683	45	148910	18.824	ug/l	98
21) 1,1-Dichloroethane	6.588	63	86560	18.308	ug/l	97
22) cis-1,2-Dichloroethene	7.500	96	54232	18.849	ug/l	99
23) tert-Butyl Alcohol	5.541	59	66780	107.361	ug/l #	100
24) Methyl tert-Butyl Ether	5.812	73	153435	19.353	ug/l	98
25) Chloroform	7.971	83	85829	18.949	ug/l	98
26) Cyclohexane	8.265	56	70558	17.954	ug/l #	96
29) 1,1-Dichloropropene	8.377	75	60295	18.491	ug/l	99
30) 2-Butanone	7.494	43	223696	101.701	ug/l	99
31) 2,2-Dichloropropane	7.500	77	71863	18.258	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	70404	18.482	ug/l	99
33) Carbon Tetrachloride	8.365	117	58277	18.179	ug/l	96
34) Benzene	8.612	78	194165	18.796	ug/l	97
35) Methacrylonitrile	7.788	41	42861	19.336	ug/l	94
36) 1,2-Dichloroethane	8.677	62	65820	19.721	ug/l	98
37) Trichloroethene	9.359	130	42420	17.803	ug/l	98
38) Methylcyclohexane	9.606	83	69281	18.518	ug/l	98
39) 1,2-Dichloropropane	9.623	63	49805	19.209	ug/l	100
40) Dibromomethane	9.718	93	34548	19.596	ug/l	97
41) Bromodichloromethane	9.888	83	68025	19.116	ug/l	98
42) Vinyl Acetate	6.618	43	691543	96.665	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	83320	20.984	ug/l	99
44) Isopropyl Acetate	8.694	43	128122	19.805	ug/l	100
45) 1,4-Dioxane	9.700	88	20338	464.739	ug/l	96
46) Methyl methacrylate	9.682	41	57629	19.162	ug/l	99
47) n-amyl Acetate	12.535	43	67160m	16.980	ug/l	
48) t-1,3-Dichloropropene	10.841	75	75174	18.949	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	79766	18.914	ug/l	98
50) 1,1,2-Trichloroethane	11.018	97	44345	17.707	ug/l	95
51) Ethyl methacrylate	10.882	69	70444	18.481	ug/l	98
52) 1,3-Dichloropropane	11.165	76	77957	18.131	ug/l	97
53) Dibromochloromethane	11.359	129	46151	17.555	ug/l	98
54) 1,2-Dibromoethane	11.470	107	45669	17.675	ug/l	100
55) 2-Chloroethyl vinyl ether	10.165	63	192822	88.252	ug/l	99
56) Bromoform	12.576	173	33621	18.604	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	400949	110.523	ug/l	97
59) 2-Hexanone	11.206	43	227516	97.124	ug/l	96
61) Tetrachloroethene	11.106	164	32746	18.324	ug/l	94
62) Toluene	10.629	91	198824	19.509	ug/l	97
64) Chlorobenzene	11.894	112	121984	18.764	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	40623	18.912	ug/l	98
66) Ethyl Benzene	11.965	91	206364	18.499	ug/l	99
67) m/p-Xylenes	12.070	106	165296	38.668	ug/l	98
68) o-Xylene	12.400	106	81950	20.094	ug/l	99
69) Styrene	12.412	104	140375	20.049	ug/l	99
70) Isopropylbenzene	12.694	105	207243	20.404	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	78100	21.362	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	69027m	21.895	ug/l	
73) Bromobenzene	12.982	156	50726	20.588	ug/l	97
74) n-propylbenzene	13.035	91	255752	20.611	ug/l	99
75) 2-Chlorotoluene	13.123	91	154017	20.545	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	169792	20.535	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	29108	20.814	ug/l	98
78) 4-Chlorotoluene	13.217	91	161663	21.056	ug/l	100
79) tert-butylbenzene	13.435	119	147407	21.208	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	171579	20.665	ug/l	100
81) sec-Butylbenzene	13.617	105	211519	20.935	ug/l	99
82) p-Isopropyltoluene	13.729	119	177338	21.091	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	97602	20.571	ug/l	99
84) 1,4-Dichlorobenzene	13.811	146	99274	20.790	ug/l	99
85) n-Butylbenzene	14.053	91	164251	21.410	ug/l	99
86) Hexachloroethane	14.329	117	32388	20.349	ug/l	96
87) 1,2-Dichlorobenzene	14.106	146	92801	20.744	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	17227	20.926	ug/l	94
89) 1,2,4-Trichlorobenzene	15.841	180	47867	18.912	ug/l	99
90) Hexachlorobutadiene	15.494	225	16048	21.367	ug/l	93
91) Naphthalene	15.635	128	186560	18.729	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	47867	18.912	ug/l	99

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

