

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052925\
 Data File : VN086824.D
 Acq On : 29 May 2025 19:01
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

Quant Time: May 30 02:48:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 30 02:22:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.806	128	48719	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	292995	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	261399	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	111641	33.352	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 111.167%#			
60) 4-Bromofluorobenzene	12.847	95	121026	29.490	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.300%			
63) Toluene-d8	10.565	98	358373	29.870	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.567%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	68003	20.552	ug/l	97
3) Chloromethane	2.371	50	171656	40.236	ug/l	98
4) Vinyl Chloride	2.530	62	79345	20.209	ug/l	96
5) Bromomethane	2.983	94	35904	17.260	ug/l	99
6) Chloroethane	3.142	64	48517	20.204	ug/l	95
7) Trichlorofluoromethane	3.512	101	93999	20.442	ug/l	99
8) Diethyl Ether	3.947	74	41501	21.636	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.359	101	56422	20.021	ug/l	99
10) 1,1-Dichloroethene	4.324	96	59021	20.542	ug/l	96
11) Methyl Iodide	4.571	142	64558	19.061	ug/l	99
12) Methyl Acetate	5.000	43	70029	21.947	ug/l	94
13) Acrolein	4.165	56	54450	165.187	ug/l	98
14) Acrylonitrile	5.706	53	162625	109.523	ug/l	100
15) Acetone	4.412	58	52763	140.345	ug/l	83
16) Carbon Disulfide	4.694	76	176580	21.054	ug/l	100
17) Allyl chloride	5.006	41	96349	22.573	ug/l	99
18) Methylene Chloride	5.259	84	70029	20.988	ug/l	94
19) trans-1,2-Dichloroethene	5.765	96	62273	20.711	ug/l	94
20) Diisopropyl ether	6.659	45	216983	23.082	ug/l	96
21) 1,1-Dichloroethane	6.553	63	122336	21.564	ug/l	98
22) cis-1,2-Dichloroethene	7.482	96	76131	20.908	ug/l	96
23) tert-Butyl Alcohol	5.512	59	59572	124.935	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	207080	21.869	ug/l	96
25) Chloroform	7.959	83	116570	20.993	ug/l	100
26) Cyclohexane	8.247	56	106797	21.751	ug/l #	97
29) 1,1-Dichloropropene	8.365	75	83999	19.499	ug/l	97
30) 2-Butanone	7.471	43	208221	110.316	ug/l	99
31) 2,2-Dichloropropane	7.482	77	97829	19.239	ug/l	100
32) 1,1,1-Trichloroethane	8.159	97	100940	20.213	ug/l	99
33) Carbon Tetrachloride	8.353	117	81113	19.002	ug/l	98
34) Benzene	8.600	78	277095	19.769	ug/l	96
35) Methacrylonitrile	7.771	41	48573	22.403	ug/l	96
36) 1,2-Dichloroethane	8.665	62	85344	20.778	ug/l	98
37) Trichloroethene	9.347	130	62506	16.077	ug/l	94
38) Methylcyclohexane	9.594	83	95413	19.962	ug/l	98
39) 1,2-Dichloropropane	9.618	63	70272	20.824	ug/l	98
40) Dibromomethane	9.706	93	43791	19.841	ug/l	97
41) Bromodichloromethane	9.882	83	96008	20.781	ug/l	98
42) Vinyl Acetate	6.594	43	722649	131.346	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	91776m	23.762	ug/l	
44) Isopropyl Acetate	8.682	43	150513	22.717	ug/l	97
45) 1,4-Dioxane	9.688	88	27238m	462.536	ug/l	
46) Methyl methacrylate	9.676	41	70728	23.152	ug/l	96
47) n-amyl Acetate	12.494	43	140489	26.413	ug/l	97
48) t-1,3-Dichloropropene	10.835	75	104190	21.075	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	111170	20.444	ug/l	92
50) 1,1,2-Trichloroethane	11.012	97	63484	20.423	ug/l	98
51) Ethyl methacrylate	10.870	69	111002	22.049	ug/l	96
52) 1,3-Dichloropropane	11.159	76	111369	20.188	ug/l	99
53) Dibromochloromethane	11.359	129	68678	19.551	ug/l	100
54) 1,2-Dibromoethane	11.470	107	63645	20.030	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	238687	98.771	ug/l	99
56) Bromoform	12.576	173	43696	19.742	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	432945	112.876	ug/l	98
59) 2-Hexanone	11.194	43	307543	111.937	ug/l	98
61) Tetrachloroethene	11.100	164	61097	13.905	ug/l	93
62) Toluene	10.629	91	293230	19.918	ug/l	100
64) Chlorobenzene	11.888	112	181063	19.285	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	61820	20.043	ug/l	98
66) Ethyl Benzene	11.959	91	322669	20.263	ug/l	96
67) m/p-Xylenes	12.070	106	244163	39.074	ug/l	98
68) o-Xylene	12.394	106	120029	19.820	ug/l	98
69) Styrene	12.412	104	203110	20.131	ug/l	99
70) Isopropylbenzene	12.694	105	290814	20.191	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	88767	25.921	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	84068m	20.946	ug/l	
73) Bromobenzene	12.982	156	66112	18.467	ug/l	93
74) n-propylbenzene	13.035	91	346953	20.336	ug/l	97
75) 2-Chlorotoluene	13.123	91	213543	19.501	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	231591	19.328	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	37212	22.656	ug/l	93
78) 4-Chlorotoluene	13.217	91	213914	19.720	ug/l	97
79) tert-butylbenzene	13.435	119	203786	19.671	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	232541	19.334	ug/l	100
81) sec-Butylbenzene	13.611	105	271279	19.221	ug/l	100
82) p-Isopropyltoluene	13.729	119	224401	18.935	ug/l	97
83) 1,3-Dichlorobenzene	13.729	146	111067	16.911	ug/l	99
84) 1,4-Dichlorobenzene	13.811	146	112244	17.174	ug/l	99
85) n-Butylbenzene	14.053	91	206450	20.809	ug/l	95
86) Hexachloroethane	14.329	117	39275	19.445	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	106225	16.767	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.717	75	16779	23.267	ug/l	96
89) 1,2,4-Trichlorobenzene	15.835	180	50381	19.002	ug/l	98
90) Hexachlorobutadiene	15.500	225	17705	15.580	ug/l	98
91) Naphthalene	15.635	128	201193	21.748	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	50381	19.002	ug/l	98

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

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