

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080825\
 Data File : VN087494.D
 Acq On : 08 Aug 2025 10:39
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/11/2025
 Supervised By :Semsettin Yesilyurt 08/11/2025

Quant Time: Aug 11 01:16:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.800	128	57936	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	323175	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	292007	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	162032	30.322	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.067%			
60) 4-Bromofluorobenzene	12.829	95	148721	29.595	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.633%			
63) Toluene-d8	10.547	98	406995	30.292	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.967%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	71487	18.899	ug/l	96
3) Chloromethane	2.383	50	72526	18.688	ug/l	96
4) Vinyl Chloride	2.542	62	76883	18.678	ug/l	98
5) Bromomethane	2.983	94	29824	13.386	ug/l	92
6) Chloroethane	3.142	64	50464	19.012	ug/l #	84
7) Trichlorofluoromethane	3.512	101	108423	18.303	ug/l	95
8) Diethyl Ether	3.965	74	45874	18.588	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.365	101	56243	18.618	ug/l	63
10) 1,1-Dichloroethene	4.342	96	61361	19.338	ug/l	97
11) Methyl Iodide	4.589	142	19720m	7.893	ug/l	
12) Methyl Acetate	5.018	43	110652	18.897	ug/l	99
13) Acrolein	4.177	56	98286	109.897	ug/l	98
14) Acrylonitrile	5.706	53	235581	92.135	ug/l	98
15) Acetone	4.424	58	63801	87.330	ug/l	85
16) Carbon Disulfide	4.700	76	176208	17.902	ug/l	98
17) Allyl chloride	5.012	41	115603	17.874	ug/l	99
18) Methylene Chloride	5.265	84	74001	18.116	ug/l	97
19) trans-1,2-Dichloroethene	5.777	96	66079	17.512	ug/l	94
20) Diisopropyl ether	6.659	45	267198	18.135	ug/l	95
21) 1,1-Dichloroethane	6.553	63	139614	18.332	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	84988	18.305	ug/l	100
23) tert-Butyl Alcohol	5.518	59	99931	91.974	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	261709	18.100	ug/l #	50
25) Chloroform	7.953	83	144983	18.238	ug/l	97
26) Cyclohexane	8.241	56	110483	18.119	ug/l #	99
29) 1,1-Dichloropropene	8.353	75	92431	17.536	ug/l	99
30) 2-Butanone	7.471	43	343770	88.479	ug/l	99
31) 2,2-Dichloropropane	7.471	77	119393	17.562	ug/l	98
32) 1,1,1-Trichloroethane	8.153	97	122090	18.161	ug/l	98
33) Carbon Tetrachloride	8.347	117	97873	17.525	ug/l	98
34) Benzene	8.588	78	301392	18.114	ug/l	99
35) Methacrylonitrile	7.759	41	78564	18.738	ug/l	94
36) 1,2-Dichloroethane	8.653	62	121470	18.062	ug/l	99
37) Trichloroethene	9.329	130	68187	18.604	ug/l	84
38) Methylcyclohexane	9.582	83	103280	16.890	ug/l	97
39) 1,2-Dichloropropane	9.600	63	78211	18.333	ug/l	98
40) Dibromomethane	9.694	93	57890	18.086	ug/l	95
41) Bromodichloromethane	9.871	83	119063	17.901	ug/l	95
42) Vinyl Acetate	6.588	43	1161466	90.774	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.547	43	132158	17.607	ug/l	#	81
44) Isopropyl Acetate	8.677	43	225914	17.756	ug/l		98
45) 1,4-Dioxane	9.677	88	29554	364.360	ug/l	#	88
46) Methyl methacrylate	9.665	41	104953	17.475	ug/l		97
47) n-amyl Acetate	12.535	43	153012m	21.769	ug/l		
48) t-1,3-Dichloropropene	10.818	75	124062	17.145	ug/l		97
49) cis-1,3-Dichloropropene	10.294	75	128478	17.643	ug/l		97
50) 1,1,2-Trichloroethane	11.000	97	72873	18.020	ug/l		96
51) Ethyl methacrylate	10.859	69	124342	17.458	ug/l		99
52) 1,3-Dichloropropane	11.141	76	132220	18.147	ug/l		97
53) Dibromochloromethane	11.335	129	79796	17.085	ug/l		94
54) 1,2-Dibromoethane	11.447	107	75790	17.654	ug/l		95
55) 2-Chloroethyl vinyl ether	10.141	63	372969	99.474	ug/l		99
56) Bromoform	12.553	173	50757	16.431	ug/l	#	98
58) 4-Methyl-2-Pentanone	10.424	43	695911	92.643	ug/l		99
59) 2-Hexanone	11.176	43	459504	90.030	ug/l		98
61) Tetrachloroethene	11.082	164	55836	19.627	ug/l		95
62) Toluene	10.612	91	326949	18.141	ug/l		98
64) Chlorobenzene	11.870	112	199120	17.980	ug/l		97
65) 1,1,1,2-Tetrachloroethane	11.941	131	67199	17.259	ug/l		98
66) Ethyl Benzene	11.941	91	358194	17.831	ug/l		96
67) m/p-Xylenes	12.053	106	264730	35.903	ug/l		96
68) o-Xylene	12.376	106	127908	17.633	ug/l		99
69) Styrene	12.394	104	220467	17.799	ug/l		99
70) Isopropylbenzene	12.676	105	331036	17.962	ug/l		100
71) 1,1,2,2-Tetrachloroethane	12.917	83	114834	18.186	ug/l		99
72) 1,2,3-Trichloropropane	12.970	75	98278m	16.707	ug/l		
73) Bromobenzene	12.959	156	74761	17.499	ug/l		98
74) n-propylbenzene	13.012	91	417761	18.151	ug/l		100
75) 2-Chlorotoluene	13.106	91	255770	18.066	ug/l		100
76) 1,3,5-Trimethylbenzene	13.153	105	283101	17.941	ug/l		100
77) t-1,4-Dichloro-2-butene	12.717	75	31228	14.023	ug/l		97
78) 4-Chlorotoluene	13.200	91	257905	17.976	ug/l		99
79) tert-butylbenzene	13.417	119	238588	17.933	ug/l		98
80) 1,2,4-Trimethylbenzene	13.459	105	288029	18.267	ug/l		100
81) sec-Butylbenzene	13.594	105	352384	18.194	ug/l		99
82) p-Isopropyltoluene	13.706	119	287731	17.892	ug/l		99
83) 1,3-Dichlorobenzene	13.712	146	148471	18.250	ug/l		99
84) 1,4-Dichlorobenzene	13.788	146	146087	17.712	ug/l		96
85) n-Butylbenzene	14.035	91	282875	17.979	ug/l		99
86) Hexachloroethane	14.312	117	51211	16.307	ug/l		95
87) 1,2-Dichlorobenzene	14.082	146	145514	18.738	ug/l		98
88) 1,2-Dibromo-3-Chloropr...	14.694	75	27860	17.416	ug/l		97
89) 1,2,4-Trichlorobenzene	15.811	180	82995	17.883	ug/l		100
90) Hexachlorobutadiene	15.470	225	30359	16.822	ug/l		93
91) Naphthalene	15.611	128	307503	17.377	ug/l		99
92) 1,2,3-Trichlorobenzene	15.811	180	82995	17.883	ug/l		100

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

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