

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091725\
 Data File : VN087883.D
 Acq On : 17 Sep 2025 16:21
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Quant Time: Sep 18 03:14:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 05 03:29:53 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/18/2025
 Supervised By : Mahesh Dadoda 09/18/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	49822	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	246415	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	239261	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	121230	28.485	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.933%		
60) 4-Bromofluorobenzene	12.829	95	116485	30.278	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.933%		
63) Toluene-d8	10.547	98	319132	28.681	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	95.600%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	51800	16.729	ug/l	96
3) Chloromethane	2.383	50	50221	15.450	ug/l	99
4) Vinyl Chloride	2.536	62	53443	14.544	ug/l	99
5) Bromomethane	2.977	94	31305	14.522	ug/l	96
6) Chloroethane	3.136	64	36526	14.544	ug/l #	85
7) Trichlorofluoromethane	3.512	101	91847	17.053	ug/l	88
8) Diethyl Ether	3.971	74	36164	15.901	ug/l	53
9) 1,1,2-Trichlorotrifluo...	4.365	101	50692	17.376	ug/l	87
10) 1,1-Dichloroethene	4.336	96	49749	16.540	ug/l	99
11) Methyl Iodide	4.583	142	29082	13.660	ug/l #	74
12) Methyl Acetate	5.018	43	99440	21.448	ug/l	100
13) Acrolein	4.171	56	94311m	114.246	ug/l	
14) Acrylonitrile	5.706	53	195465	97.945	ug/l	98
15) Acetone	4.424	58	54299	87.219	ug/l	99
16) Carbon Disulfide	4.706	76	130060	15.750	ug/l	98
17) Allyl chloride	5.018	41	87741	17.860	ug/l	98
18) Methylene Chloride	5.265	84	69972	20.538	ug/l	87
19) trans-1,2-Dichloroethene	5.783	96	55902	18.224	ug/l	96
20) Diisopropyl ether	6.659	45	203428	18.007	ug/l #	94
21) 1,1-Dichloroethane	6.553	63	114011	18.429	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	75265	20.214	ug/l	98
23) tert-Butyl Alcohol	5.524	59	70093	99.358	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	215795	20.097	ug/l	100
25) Chloroform	7.953	83	127340	19.665	ug/l	93
26) Cyclohexane	8.241	56	80221	17.027	ug/l #	97
29) 1,1-Dichloropropene	8.353	75	78493	19.600	ug/l	99
30) 2-Butanone	7.471	43	282316	102.336	ug/l	99
31) 2,2-Dichloropropane	7.483	77	100085	20.732	ug/l	98
32) 1,1,1-Trichloroethane	8.153	97	106385	20.954	ug/l	98
33) Carbon Tetrachloride	8.341	117	87289	20.620	ug/l	97
34) Benzene	8.588	78	261735	20.222	ug/l	96
35) Methacrylonitrile	7.765	41	55112	19.099	ug/l	95
36) 1,2-Dichloroethane	8.647	62	99350	20.322	ug/l	100
37) Trichloroethene	9.335	130	60114	20.777	ug/l	99
38) Methylcyclohexane	9.582	83	78607	17.826	ug/l	97
39) 1,2-Dichloropropane	9.600	63	66757	20.138	ug/l	99
40) Dibromomethane	9.688	93	54023	21.899	ug/l	96
41) Bromodichloromethane	9.871	83	106138	21.050	ug/l #	95
42) Vinyl Acetate	6.594	43	850430	92.264	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	110355	19.579	ug/l	99
44) Isopropyl Acetate	8.671	43	168043	19.018	ug/l	99
45) 1,4-Dioxane	9.682	88	23838	427.798	ug/l	88
46) Methyl methacrylate	9.665	41	78411	19.253	ug/l	94
47) n-amyl Acetate	12.565	43	88351m	14.796	ug/l	
48) t-1,3-Dichloropropene	10.818	75	103881	19.836	ug/l	98
49) cis-1,3-Dichloropropene	10.288	75	107165	19.979	ug/l	90
50) 1,1,2-Trichloroethane	10.994	97	71141	22.327	ug/l	95
51) Ethyl methacrylate	10.859	69	98875	19.940	ug/l	95
52) 1,3-Dichloropropane	11.141	76	118779	21.468	ug/l	100
53) Dibromochloromethane	11.335	129	81236	22.739	ug/l	89
54) 1,2-Dibromoethane	11.447	107	73390	22.136	ug/l	97
55) 2-Chloroethyl vinyl ether	10.141	63	261868	92.170	ug/l	97
56) Bromoform	12.559	173	54802	23.489	ug/l	95
58) 4-Methyl-2-Pentanone	10.424	43	573684	101.406	ug/l	98
59) 2-Hexanone	11.176	43	356367	96.401	ug/l	97
61) Tetrachloroethene	11.088	164	48390	20.313	ug/l	96
62) Toluene	10.612	91	283936	19.619	ug/l	99
64) Chlorobenzene	11.870	112	179753	20.237	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.935	131	67283	21.515	ug/l	95
66) Ethyl Benzene	11.941	91	299529	19.184	ug/l	92
67) m/p-Xylenes	12.047	106	235410	40.618	ug/l	89
68) o-Xylene	12.376	106	116201	20.678	ug/l	98
69) Styrene	12.388	104	197098	20.180	ug/l	99
70) Isopropylbenzene	12.676	105	291673	20.470	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.917	83	112287	21.921	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	105410m	20.958	ug/l	
73) Bromobenzene	12.959	156	78570	22.538	ug/l	85
74) n-propylbenzene	13.012	91	355867	19.794	ug/l	97
75) 2-Chlorotoluene	13.106	91	222172	20.533	ug/l	95
76) 1,3,5-Trimethylbenzene	13.153	105	248772	20.675	ug/l	97
77) t-1,4-Dichloro-2-butene	12.717	75	34017	20.038	ug/l	91
78) 4-Chlorotoluene	13.200	91	224392	20.570	ug/l	99
79) tert-butylbenzene	13.417	119	210768	20.916	ug/l	96
80) 1,2,4-Trimethylbenzene	13.459	105	254138	20.601	ug/l	99
81) sec-Butylbenzene	13.594	105	304709	20.558	ug/l	98
82) p-Isopropyltoluene	13.706	119	255402	20.914	ug/l	96
83) 1,3-Dichlorobenzene	13.712	146	145553	21.657	ug/l	97
84) 1,4-Dichlorobenzene	13.788	146	152739	22.673	ug/l	99
85) n-Butylbenzene	14.035	91	239728	20.422	ug/l	97
86) Hexachloroethane	14.306	117	52165	21.030	ug/l	90
87) 1,2-Dichlorobenzene	14.082	146	144653	22.821	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.700	75	26095	22.956	ug/l	95
89) 1,2,4-Trichlorobenzene	15.817	180	79317	22.001	ug/l	98
90) Hexachlorobutadiene	15.476	225	28327	23.438	ug/l	92
91) Naphthalene	15.611	128	276408	20.825	ug/l	99
92) 1,2,3-Trichlorobenzene	15.817	180	79317	22.001	ug/l	98

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

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