

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072325\
 Data File : VN087402.D
 Acq On : 23 Jul 2025 11:11
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Jul 24 04:49:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 24 04:45:45 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	29344	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	135338	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	138642	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	71565	29.471	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.233%		
60) 4-Bromofluorobenzene	12.829	95	74066	32.039	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	106.800%		
63) Toluene-d8	10.547	98	181544	28.441	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	94.800%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	182621	106.178	ug/l	91
3) Chloromethane	2.383	50	183592	105.741	ug/l	93
4) Vinyl Chloride	2.536	62	204785	105.474	ug/l	97
5) Bromomethane	2.965	94	113264	102.267	ug/l	89
6) Chloroethane	3.136	64	149036	99.844	ug/l	90
7) Trichlorofluoromethane	3.506	101	326470	98.524	ug/l	94
8) Diethyl Ether	3.959	74	132659	102.777	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	168029	97.955	ug/l #	71
10) 1,1-Dichloroethene	4.342	96	171802	96.634	ug/l	95
11) Methyl Iodide	4.583	142	165756	131.630	ug/l	94
12) Methyl Acetate	5.018	43	246565	106.898	ug/l	100
13) Acrolein	4.177	56	219145	550.256	ug/l	100
14) Acrylonitrile	5.712	53	584920	557.775	ug/l	99
15) Acetone	4.418	58	179631	490.785	ug/l	99
16) Carbon Disulfide	4.700	76	459029	100.434	ug/l	96
17) Allyl chloride	5.018	41	267807	109.310	ug/l	94
18) Methylene Chloride	5.265	84	180429	99.947	ug/l #	78
19) trans-1,2-Dichloroethene	5.771	96	179702	104.084	ug/l	96
20) Diisopropyl ether	6.659	45	716276	116.829	ug/l	96
21) 1,1-Dichloroethane	6.559	63	350403	104.297	ug/l	94
22) cis-1,2-Dichloroethene	7.471	96	218931	106.465	ug/l	96
23) tert-Butyl Alcohol	5.530	59	188001	526.419	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	643113	113.513	ug/l	100
25) Chloroform	7.953	83	371819	102.383	ug/l	93
26) Cyclohexane	8.241	56	275243	110.370	ug/l #	98
29) 1,1-Dichloropropene	8.353	75	246447	107.702	ug/l	100
30) 2-Butanone	7.471	43	867970	563.818	ug/l	98
31) 2,2-Dichloropropane	7.471	77	317310	105.589	ug/l	99
32) 1,1,1-Trichloroethane	8.153	97	310928	104.559	ug/l	100
33) Carbon Tetrachloride	8.347	117	269515	103.204	ug/l	95
34) Benzene	8.588	78	799937	109.691	ug/l	98
35) Methacrylonitrile	7.765	41	198890	125.042	ug/l	91
36) 1,2-Dichloroethane	8.653	62	312795	107.300	ug/l	100
37) Trichloroethene	9.335	130	173681	101.798	ug/l	99
38) Methylcyclohexane	9.582	83	265038	111.959	ug/l	97
39) 1,2-Dichloropropane	9.606	63	198771	108.479	ug/l	95
40) Dibromomethane	9.688	93	152085	105.154	ug/l	98
41) Bromodichloromethane	9.871	83	299972	104.747	ug/l	92
42) Vinyl Acetate	6.594	43	3082991	584.822	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	347433m	108.011	ug/l	
44) Isopropyl Acetate	8.677	43	570478	116.638	ug/l	97
45) 1,4-Dioxane	9.682	88	67414	2252.970	ug/l #	53
46) Methyl methacrylate	9.665	41	266368	118.595	ug/l	97
47) n-amyl Acetate	12.488	43	392036	155.261	ug/l #	61
48) t-1,3-Dichloropropene	10.818	75	346146	114.806	ug/l	95
49) cis-1,3-Dichloropropene	10.294	75	335279	109.996	ug/l	99
50) 1,1,2-Trichloroethane	10.994	97	198480	107.054	ug/l	97
51) Ethyl methacrylate	10.859	69	348561	124.230	ug/l	97
52) 1,3-Dichloropropane	11.141	76	344160	109.468	ug/l	98
53) Dibromochloromethane	11.341	129	238288	109.403	ug/l	99
54) 1,2-Dibromoethane	11.453	107	212324	109.402	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	859399	571.543	ug/l	98
56) Bromoform	12.559	173	179680	116.837	ug/l	99
58) 4-Methyl-2-Pentanone	10.429	43	1869785	562.831	ug/l	99
59) 2-Hexanone	11.176	43	1324753	586.254	ug/l	98
61) Tetrachloroethene	11.082	164	154012	99.029	ug/l	94
62) Toluene	10.612	91	882085	105.521	ug/l	98
64) Chlorobenzene	11.871	112	558552	105.642	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.941	131	207265	106.600	ug/l	97
66) Ethyl Benzene	11.941	91	1007271	112.905	ug/l	98
67) m/p-Xylenes	12.053	106	799815	224.338	ug/l	100
68) o-Xylene	12.376	106	382248	114.390	ug/l	96
69) Styrene	12.388	104	688471	117.136	ug/l	99
70) Isopropylbenzene	12.676	105	981126	114.535	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.918	83	328735	107.367	ug/l	96
72) 1,2,3-Trichloropropane	12.970	75	280472m	72.309	ug/l	
73) Bromobenzene	12.959	156	249655	111.707	ug/l	98
74) n-propylbenzene	13.012	91	1226489	112.656	ug/l	99
75) 2-Chlorotoluene	13.106	91	743733	115.700	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	862202	116.305	ug/l	98
77) t-1,4-Dichloro-2-butene	12.718	75	133549	125.793	ug/l	87
78) 4-Chlorotoluene	13.200	91	787641	114.193	ug/l	100
79) tert-butylbenzene	13.418	119	735790	117.728	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	894748	117.918	ug/l	98
81) sec-Butylbenzene	13.594	105	1057779	116.006	ug/l	99
82) p-Isopropyltoluene	13.706	119	920368	117.882	ug/l	98
83) 1,3-Dichlorobenzene	13.712	146	503252	111.664	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	500608	112.392	ug/l	99
85) n-Butylbenzene	14.035	91	846776	118.736	ug/l	98
86) Hexachloroethane	14.312	117	170246	110.871	ug/l	100
87) 1,2-Dichlorobenzene	14.082	146	477483	111.689	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.700	75	78932	113.735	ug/l	91
89) 1,2,4-Trichlorobenzene	15.811	180	284691	116.752	ug/l	97
90) Hexachlorobutadiene	15.476	225	109912	108.994	ug/l	98
91) Naphthalene	15.611	128	986483	122.846	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	284691	116.752	ug/l	97

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

