

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
 Data File : VN088033.D
 Acq On : 08 Oct 2025 10:51
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Oct 09 02:03:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 09 01:59:51 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/09/2025
 Supervised By : Mahesh Dadoda 10/10/2025

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

Internal Standards						
1) Bromochloromethane	7.794	128	67628	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	378736	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	351656	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	160840	30.543	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.800%			
60) 4-Bromofluorobenzene	12.829	95	178151	30.730	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.433%			
63) Toluene-d8	10.547	98	467474	29.837	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.467%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	420916	108.665	ug/l	95
3) Chloromethane	2.383	50	463730	105.596	ug/l	98
4) Vinyl Chloride	2.536	62	482888	105.455	ug/l	100
5) Bromomethane	2.959	94	273063	110.897	ug/l	98
6) Chloroethane	3.130	64	314009	103.956	ug/l	100
7) Trichlorofluoromethane	3.501	101	654258	105.071	ug/l	97
8) Diethyl Ether	3.959	74	290416	103.221	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	351149	105.345	ug/l	97
10) 1,1-Dichloroethene	4.336	96	359076	100.983	ug/l	99
11) Methyl Iodide	4.577	142	430900	131.483	ug/l	94
12) Methyl Acetate	5.012	43	608023m	108.115	ug/l	
13) Acrolein	4.177	56	463612	518.261	ug/l #	7
14) Acrylonitrile	5.712	53	1467014	525.879	ug/l	99
15) Acetone	4.424	58	407619	497.406	ug/l	93
16) Carbon Disulfide	4.700	76	1166017	104.606	ug/l	100
17) Allyl chloride	5.012	41	683636	101.888	ug/l	96
18) Methylene Chloride	5.259	84	461958	102.216	ug/l	95
19) trans-1,2-Dichloroethene	5.771	96	426250	103.682	ug/l	93
20) Diisopropyl ether	6.659	45	1616050	105.793	ug/l	98
21) 1,1-Dichloroethane	6.553	63	830085	104.385	ug/l	95
22) cis-1,2-Dichloroethene	7.471	96	536722	104.292	ug/l	99
23) tert-Butyl Alcohol	5.530	59	576246	515.047	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	1604709	104.553	ug/l	98
25) Chloroform	7.947	83	840390	102.409	ug/l	100
26) Cyclohexane	8.236	56	682990	103.662	ug/l #	95
29) 1,1-Dichloropropene	8.353	75	570703	105.125	ug/l	98
30) 2-Butanone	7.471	43	2104280	525.556	ug/l	99
31) 2,2-Dichloropropane	7.471	77	713241	101.828	ug/l	100
32) 1,1,1-Trichloroethane	8.147	97	703319	103.680	ug/l	99
33) Carbon Tetrachloride	8.341	117	599874	105.575	ug/l	98
34) Benzene	8.588	78	1880026	104.406	ug/l	98
35) Methacrylonitrile	7.765	41	432524	102.726	ug/l	94
36) 1,2-Dichloroethane	8.653	62	649488	103.896	ug/l	99
37) Trichloroethene	9.335	130	443090	103.860	ug/l	100
38) Methylcyclohexane	9.582	83	700603	104.502	ug/l	99
39) 1,2-Dichloropropane	9.600	63	473093	104.780	ug/l	99
40) Dibromomethane	9.688	93	342480	104.205	ug/l	97
41) Bromodichloromethane	9.871	83	701393	104.491	ug/l	99
42) Vinyl Acetate	6.589	43	7544223	553.092	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	824040	107.065	ug/l	96
44) Isopropyl Acetate	8.671	43	1339571	106.561	ug/l	98
45) 1,4-Dioxane	9.682	88	178569	2135.793	ug/l	96
46) Methyl methacrylate	9.665	41	606493	109.554	ug/l	96
47) n-amyl Acetate	12.488	43	635857	115.116	ug/l #	64
48) t-1,3-Dichloropropene	10.818	75	804743	107.816	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	826516	106.155	ug/l	95
50) 1,1,2-Trichloroethane	10.994	97	450541	103.515	ug/l	99
51) Ethyl methacrylate	10.853	69	831363	112.866	ug/l	98
52) 1,3-Dichloropropane	11.141	76	810597	106.748	ug/l	98
53) Dibromochloromethane	11.335	129	559787	107.583	ug/l	98
54) 1,2-Dibromoethane	11.447	107	493699	106.100	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	2132450	536.342	ug/l	100
56) Bromoform	12.559	173	386003	109.728	ug/l	98
58) 4-Methyl-2-Pentanone	10.424	43	4116685	523.371	ug/l	99
59) 2-Hexanone	11.177	43	2928211	563.852	ug/l	99
61) Tetrachloroethene	11.082	164	362506	101.796	ug/l	93
62) Toluene	10.612	91	2027659	101.652	ug/l	98
64) Chlorobenzene	11.871	112	1317139	103.379	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.941	131	448505	102.148	ug/l	98
66) Ethyl Benzene	11.941	91	2249065	103.692	ug/l	97
67) m/p-Xylenes	12.047	106	1731517	207.080	ug/l	99
68) o-Xylene	12.376	106	858288	103.111	ug/l	97
69) Styrene	12.388	104	1459636	106.005	ug/l	98
70) Isopropylbenzene	12.676	105	2115128	103.677	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	717005	103.664	ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	669076m	99.654	ug/l	
73) Bromobenzene	12.959	156	514996	103.282	ug/l	95
74) n-propylbenzene	13.012	91	2606776	105.847	ug/l	99
75) 2-Chlorotoluene	13.100	91	1584486	105.221	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	1814925	104.730	ug/l	98
77) t-1,4-Dichloro-2-butene	12.718	75	290843	117.060	ug/l	89
78) 4-Chlorotoluene	13.200	91	1632331	106.695	ug/l	98
79) tert-butylbenzene	13.418	119	1573625	104.749	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	1831829	105.591	ug/l	98
81) sec-Butylbenzene	13.594	105	2207832	104.528	ug/l	99
82) p-Isopropyltoluene	13.706	119	1878975	104.194	ug/l	100
83) 1,3-Dichlorobenzene	13.712	146	978389	104.286	ug/l	100
84) 1,4-Dichlorobenzene	13.788	146	993969	102.730	ug/l	98
85) n-Butylbenzene	14.035	91	1765582	105.237	ug/l	99
86) Hexachloroethane	14.312	117	371189	102.750	ug/l	98
87) 1,2-Dichlorobenzene	14.082	146	959910	104.023	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	165583	104.237	ug/l	95
89) 1,2,4-Trichlorobenzene	15.812	180	577645	105.091	ug/l	98
90) Hexachlorobutadiene	15.476	225	194567	101.706	ug/l	98
91) Naphthalene	15.611	128	2133295	106.010	ug/l	100
92) 1,2,3-Trichlorobenzene	15.812	180	577645	105.091	ug/l	98

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

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