

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
 Data File : VN088032.D
 Acq On : 08 Oct 2025 10:30
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Oct 09 02:02:43 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	7.800	128	71521	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	407063	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	363868	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	168820	30.313	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.033%			
60) 4-Bromofluorobenzene	12.829	95	179340	29.897	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.667%			
63) Toluene-d8	10.547	98	485008	29.917	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.733%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	203904	49.775	ug/l	95
3) Chloromethane	2.383	50	223881	48.205	ug/l	98
4) Vinyl Chloride	2.536	62	234864	48.499	ug/l	99
5) Bromomethane	2.971	94	127206	48.849	ug/l	96
6) Chloroethane	3.136	64	152751	47.817	ug/l	97
7) Trichlorofluoromethane	3.512	101	321596	48.835	ug/l	97
8) Diethyl Ether	3.965	74	142839	48.005	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.359	101	173195	49.131	ug/l	97
10) 1,1-Dichloroethene	4.336	96	182248	48.464	ug/l	98
11) Methyl Iodide	4.577	142	183665	52.992	ug/l	97
12) Methyl Acetate	5.018	43	291092	48.943	ug/l	91
13) Acrolein	4.177	56	214422	226.650	ug/l #	6
14) Acrylonitrile	5.706	53	717034	243.043	ug/l	99
15) Acetone	4.424	58	206350	238.097	ug/l	90
16) Carbon Disulfide	4.700	76	571725	48.499	ug/l	97
17) Allyl chloride	5.012	41	335231	47.243	ug/l	98
18) Methylene Chloride	5.259	84	231926	48.524	ug/l	96
19) trans-1,2-Dichloroethene	5.771	96	206627	47.525	ug/l	90
20) Diisopropyl ether	6.659	45	784464	48.559	ug/l	98
21) 1,1-Dichloroethane	6.553	63	402552	47.866	ug/l	97
22) cis-1,2-Dichloroethene	7.471	96	262837	48.293	ug/l	99
23) tert-Butyl Alcohol	5.530	59	286613	242.230	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	787846	48.537	ug/l	98
25) Chloroform	7.947	83	416216	47.959	ug/l	100
26) Cyclohexane	8.241	56	336848	48.343	ug/l #	95
29) 1,1-Dichloropropene	8.353	75	280084	48.002	ug/l	99
30) 2-Butanone	7.471	43	1034181	240.318	ug/l	99
31) 2,2-Dichloropropane	7.471	77	357946	47.547	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	348014	47.733	ug/l	99
33) Carbon Tetrachloride	8.341	117	295178	48.335	ug/l	97
34) Benzene	8.588	78	926605	47.877	ug/l	99
35) Methacrylonitrile	7.765	41	221496	48.945	ug/l	94
36) 1,2-Dichloroethane	8.653	62	320898	47.761	ug/l	99
37) Trichloroethene	9.329	130	218229	47.593	ug/l	100
38) Methylcyclohexane	9.582	83	347822	48.271	ug/l	99
39) 1,2-Dichloropropane	9.600	63	228797	47.147	ug/l	94
40) Dibromomethane	9.688	93	170079	48.148	ug/l	98
41) Bromodichloromethane	9.871	83	340823	47.241	ug/l	99
42) Vinyl Acetate	6.588	43	3449178	235.274	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	386755	46.753	ug/l	95
44) Isopropyl Acetate	8.671	43	658172	48.713	ug/l	98
45) 1,4-Dioxane	9.682	88	88246	982.026	ug/l	98
46) Methyl methacrylate	9.665	41	292033	49.080	ug/l	96
47) n-amyl Acetate	12.506	43	301319m	50.755	ug/l	
48) t-1,3-Dichloropropene	10.818	75	387494	48.302	ug/l	97
49) cis-1,3-Dichloropropene	10.294	75	399785	47.774	ug/l	94
50) 1,1,2-Trichloroethane	10.994	97	224582	48.009	ug/l	95
51) Ethyl methacrylate	10.853	69	395806	49.995	ug/l	99
52) 1,3-Dichloropropane	11.141	76	390914	47.897	ug/l	99
53) Dibromochloromethane	11.335	129	269681	48.222	ug/l	100
54) 1,2-Dibromoethane	11.447	107	238540	47.697	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	1061685	248.447	ug/l	100
56) Bromoform	12.559	173	185069	48.948	ug/l	99
58) 4-Methyl-2-Pentanone	10.424	43	1992861	244.858	ug/l	99
59) 2-Hexanone	11.176	43	1382348	257.249	ug/l	99
61) Tetrachloroethene	11.082	164	177933	48.289	ug/l	95
62) Toluene	10.612	91	997746	48.341	ug/l	99
64) Chlorobenzene	11.871	112	642529	48.738	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.941	131	223784	49.257	ug/l	97
66) Ethyl Benzene	11.941	91	1091616	48.639	ug/l	97
67) m/p-Xylenes	12.047	106	840749	97.174	ug/l	99
68) o-Xylene	12.376	106	415634	48.257	ug/l	96
69) Styrene	12.388	104	714533	50.151	ug/l	98
70) Isopropylbenzene	12.676	105	1034903	49.025	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	349263	48.801	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	331890m	47.774	ug/l	
73) Bromobenzene	12.959	156	255670	49.554	ug/l	98
74) n-propylbenzene	13.012	91	1253446	49.187	ug/l	100
75) 2-Chlorotoluene	13.100	91	759413	48.738	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	881209	49.143	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	129603	50.413	ug/l	93
78) 4-Chlorotoluene	13.200	91	785069	49.593	ug/l	98
79) tert-butylbenzene	13.412	119	769068	49.475	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	881036	49.081	ug/l	100
81) sec-Butylbenzene	13.594	105	1073333	49.110	ug/l	100
82) p-Isopropyltoluene	13.706	119	922870	49.458	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	483694	49.826	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	486086	48.552	ug/l	99
85) n-Butylbenzene	14.035	91	861074	49.601	ug/l	99
86) Hexachloroethane	14.312	117	184332	49.313	ug/l	96
87) 1,2-Dichlorobenzene	14.082	146	464249	48.621	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.700	75	80611	49.043	ug/l	98
89) 1,2,4-Trichlorobenzene	15.811	180	275876	48.506	ug/l	98
90) Hexachlorobutadiene	15.470	225	98031	49.524	ug/l	97
91) Naphthalene	15.611	128	1015294	48.760	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	275876	48.506	ug/l	98

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

