

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
 Data File : VN088031.D
 Acq On : 08 Oct 2025 10:08
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

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

Quant Time: Oct 09 02:01:45 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

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

Internal Standards						
1) Bromochloromethane	7.794	128	71387	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	401663	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	355387	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	165568	29.785	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.267%		
60) 4-Bromofluorobenzene	12.829	95	176557	30.136	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.467%		
63) Toluene-d8	10.547	98	477319	30.145	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.500%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	85073	20.806	ug/l	100
3) Chloromethane	2.383	50	92431	19.939	ug/l	100
4) Vinyl Chloride	2.536	62	97272	20.124	ug/l	100
5) Bromomethane	2.983	94	49554	19.065	ug/l	100
6) Chloroethane	3.136	64	63320	19.859	ug/l	98
7) Trichlorofluoromethane	3.506	101	130253	19.817	ug/l	100
8) Diethyl Ether	3.959	74	58264	19.618	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	69507	19.754	ug/l	100
10) 1,1-Dichloroethene	4.330	96	74211	19.771	ug/l	100
11) Methyl Iodide	4.577	142	57156	16.522	ug/l	100
12) Methyl Acetate	5.018	43	120527	20.303	ug/l	100
13) Acrolein	4.177	56	83909	88.861	ug/l #	4
14) Acrylonitrile	5.706	53	290536	98.664	ug/l	100
15) Acetone	4.424	58	86871	100.424	ug/l	100
16) Carbon Disulfide	4.694	76	231559	19.680	ug/l	100
17) Allyl chloride	5.012	41	139881	19.750	ug/l	100
18) Methylene Chloride	5.259	84	92593	19.409	ug/l	100
19) trans-1,2-Dichloroethene	5.777	96	86884	20.021	ug/l	100
20) Diisopropyl ether	6.659	45	320294	19.864	ug/l	100
21) 1,1-Dichloroethane	6.553	63	167086	19.905	ug/l	100
22) cis-1,2-Dichloroethene	7.471	96	107728	19.831	ug/l	100
23) tert-Butyl Alcohol	5.530	59	117569	99.549	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	319297	19.708	ug/l	100
25) Chloroform	7.953	83	170511	19.684	ug/l	100
26) Cyclohexane	8.241	56	141068	20.283	ug/l	100
29) 1,1-Dichloropropene	8.353	75	112668	19.569	ug/l	100
30) 2-Butanone	7.477	43	422066	99.396	ug/l	100
31) 2,2-Dichloropropane	7.477	77	147354	19.837	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	144223	20.047	ug/l	100
33) Carbon Tetrachloride	8.347	117	119094	19.764	ug/l	100
34) Benzene	8.588	78	375303	19.653	ug/l	100
35) Methacrylonitrile	7.759	41	89107	19.955	ug/l	100
36) 1,2-Dichloroethane	8.653	62	131101	19.775	ug/l	100
37) Trichloroethene	9.335	130	89526	19.787	ug/l	100
38) Methylcyclohexane	9.582	83	139683	19.646	ug/l	100
39) 1,2-Dichloropropane	9.600	63	93775	19.584	ug/l	100
40) Dibromomethane	9.688	93	69093	19.823	ug/l	100
41) Bromodichloromethane	9.871	83	138534	19.460	ug/l	100
42) Vinyl Acetate	6.588	43	1347005	93.117	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	163041	19.974	ug/l	100
44) Isopropyl Acetate	8.677	43	261811	19.638	ug/l	100
45) 1,4-Dioxane	9.676	88	38180	430.590	ug/l	100
46) Methyl methacrylate	9.665	41	103153	17.569	ug/l	100
47) n-amyl Acetate	12.570	43	122978m	20.993	ug/l	
48) t-1,3-Dichloropropene	10.818	75	152693	19.289	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	161768	19.591	ug/l	100
50) 1,1,2-Trichloroethane	10.994	97	90592	19.626	ug/l	100
51) Ethyl methacrylate	10.859	69	147903	18.933	ug/l	100
52) 1,3-Dichloropropane	11.141	76	158729	19.710	ug/l	100
53) Dibromochloromethane	11.335	129	106989	19.388	ug/l	100
54) 1,2-Dibromoethane	11.447	107	96091	19.472	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	427409	101.363	ug/l	100
56) Bromoform	12.559	173	71081	19.053	ug/l	100
58) 4-Methyl-2-Pentanone	10.429	43	794535	99.952	ug/l	100
59) 2-Hexanone	11.182	43	517498	98.602	ug/l	100
61) Tetrachloroethene	11.082	164	72535	20.155	ug/l	100
62) Toluene	10.612	91	402666	19.975	ug/l	100
64) Chlorobenzene	11.870	112	256863	19.949	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.941	131	90536	20.403	ug/l	100
66) Ethyl Benzene	11.941	91	435618	19.873	ug/l	100
67) m/p-Xylenes	12.047	106	338147	40.016	ug/l	100
68) o-Xylene	12.376	106	168249	20.001	ug/l	100
69) Styrene	12.394	104	268372	19.286	ug/l	100
70) Isopropylbenzene	12.676	105	407637	19.771	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.917	83	138052	19.750	ug/l	100
72) 1,2,3-Trichloropropane	12.976	75	122603m	18.069	ug/l	
73) Bromobenzene	12.959	156	101455	20.133	ug/l	100
74) n-propylbenzene	13.017	91	493301	19.820	ug/l	100
75) 2-Chlorotoluene	13.106	91	301590	19.817	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	346960	19.811	ug/l	100
77) t-1,4-Dichloro-2-butene	12.723	75	46433	18.492	ug/l	100
78) 4-Chlorotoluene	13.200	91	307157	19.866	ug/l	100
79) tert-butylbenzene	13.417	119	304884	20.082	ug/l	100
80) 1,2,4-Trimethylbenzene	13.459	105	349065	19.910	ug/l	100
81) sec-Butylbenzene	13.594	105	426975	20.002	ug/l	100
82) p-Isopropyltoluene	13.706	119	364945	20.025	ug/l	100
83) 1,3-Dichlorobenzene	13.711	146	190476	20.090	ug/l	100
84) 1,4-Dichlorobenzene	13.788	146	197354	20.183	ug/l	100
85) n-Butylbenzene	14.035	91	339471	20.022	ug/l	100
86) Hexachloroethane	14.311	117	71806	19.668	ug/l	100
87) 1,2-Dichlorobenzene	14.088	146	186272	19.974	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.700	75	33189	20.674	ug/l	100
89) 1,2,4-Trichlorobenzene	15.811	180	111303	20.037	ug/l	100
90) Hexachlorobutadiene	15.476	225	37802	19.553	ug/l	100
91) Naphthalene	15.617	128	404900	19.910	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	111303	20.037	ug/l	100

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

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