

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111325\
 Data File : VN088276.D
 Acq On : 13 Nov 2025 11:08
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Nov 14 00:33:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 14 00:31:19 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 11/14/2025
 Supervised By :Semsettin Yesilyurt 11/14/2025

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

Internal Standards						
1) Bromochloromethane	7.794	128	55911	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	311518	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	279554	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	154791	34.317	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 114.400%#			
60) 4-Bromofluorobenzene	12.829	95	143308	31.127	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.767%			
63) Toluene-d8	10.541	98	396360	31.299	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 104.333%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	202763	59.321	ug/l	99
3) Chloromethane	2.383	50	196949	52.368	ug/l	95
4) Vinyl Chloride	2.536	62	209252	53.337	ug/l	99
5) Bromomethane	2.977	94	107066	50.983	ug/l	93
6) Chloroethane	3.136	64	124513	48.668	ug/l	95
7) Trichlorofluoromethane	3.512	101	295192	54.558	ug/l	95
8) Diethyl Ether	3.965	74	104470	45.088	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	151998	52.734	ug/l	82
10) 1,1-Dichloroethene	4.336	96	149214	49.573	ug/l	85
11) Methyl Iodide	4.583	142	168273	57.790	ug/l	85
12) Methyl Acetate	5.018	43	238741	49.250	ug/l	93
13) Acrolein	4.177	56	164787	222.681	ug/l	96
14) Acrylonitrile	5.706	53	541419	234.654	ug/l	99
15) Acetone	4.424	58	158252	234.503	ug/l	94
16) Carbon Disulfide	4.706	76	513072	53.381	ug/l	100
17) Allyl chloride	5.012	41	293130	51.598	ug/l	96
18) Methylene Chloride	5.259	84	184772	48.711	ug/l	93
19) trans-1,2-Dichloroethene	5.777	96	172251	49.537	ug/l	98
20) Diisopropyl ether	6.659	45	597968	46.983	ug/l	97
21) 1,1-Dichloroethane	6.553	63	347380	51.389	ug/l	99
22) cis-1,2-Dichloroethene	7.471	96	199123	46.782	ug/l	98
23) tert-Butyl Alcohol	5.530	59	189443m	209.762	ug/l	
24) Methyl tert-Butyl Ether	5.789	73	596789	47.134	ug/l	99
25) Chloroform	7.947	83	342347	49.668	ug/l	97
26) Cyclohexane	8.235	56	298210	52.690	ug/l	100
29) 1,1-Dichloropropene	8.353	75	244552	52.624	ug/l	99
30) 2-Butanone	7.471	43	776756	236.100	ug/l	99
31) 2,2-Dichloropropane	7.471	77	301771	51.101	ug/l	99
32) 1,1,1-Trichloroethane	8.147	97	300299	52.171	ug/l	99
33) Carbon Tetrachloride	8.341	117	258895	53.323	ug/l	96
34) Benzene	8.588	78	722849	48.174	ug/l	98
35) Methacrylonitrile	7.765	41	159534	46.282	ug/l	97
36) 1,2-Dichloroethane	8.653	62	283447	53.288	ug/l	100
37) Trichloroethene	9.329	130	166803	47.370	ug/l	100
38) Methylcyclohexane	9.577	83	287564	50.783	ug/l	99
39) 1,2-Dichloropropane	9.600	63	184617	48.942	ug/l	97
40) Dibromomethane	9.688	93	131620	48.007	ug/l	98
41) Bromodichloromethane	9.865	83	269136	48.418	ug/l	99
42) Vinyl Acetate	6.588	43	2683358m	237.292	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	315737m	49.283	ug/l	
44) Isopropyl Acetate	8.671	43	482542	46.694	ug/l	99
45) 1,4-Dioxane	9.682	88	59672	890.836	ug/l	96
46) Methyl methacrylate	9.665	41	228386	48.764	ug/l	94
47) n-amyl Acetate	12.500	43	236169m	48.538	ug/l	
48) t-1,3-Dichloropropene	10.818	75	285594	46.692	ug/l	96
49) cis-1,3-Dichloropropene	10.288	75	301442	46.984	ug/l	98
50) 1,1,2-Trichloroethane	10.994	97	165256	46.289	ug/l	95
51) Ethyl methacrylate	10.853	69	276826	46.165	ug/l	96
52) 1,3-Dichloropropane	11.141	76	298832	47.547	ug/l	100
53) Dibromochloromethane	11.335	129	191134	45.155	ug/l	99
54) 1,2-Dibromoethane	11.447	107	168709	44.499	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	732371	226.148	ug/l	98
56) Bromoform	12.553	173	120289	42.562	ug/l	98
58) 4-Methyl-2-Pentanone	10.424	43	1495694	238.212	ug/l	100
59) 2-Hexanone	11.176	43	1024210	248.170	ug/l	100
61) Tetrachloroethene	11.082	164	137527	47.874	ug/l	98
62) Toluene	10.606	91	754127	47.127	ug/l	100
64) Chlorobenzene	11.871	112	463060	45.876	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.941	131	157503	45.435	ug/l	96
66) Ethyl Benzene	11.941	91	844642	48.524	ug/l	100
67) m/p-Xylenes	12.047	106	639721	95.987	ug/l	100
68) o-Xylene	12.376	106	299638	45.862	ug/l	99
69) Styrene	12.388	104	514330	47.146	ug/l	99
70) Isopropylbenzene	12.670	105	793307	48.480	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	252114	45.966	ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	244240m	47.973	ug/l	
73) Bromobenzene	12.959	156	179669	45.956	ug/l	99
74) n-propylbenzene	13.012	91	991194	49.867	ug/l	100
75) 2-Chlorotoluene	13.100	91	592686	49.020	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	674081	48.695	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	85815	42.857	ug/l	99
78) 4-Chlorotoluene	13.200	91	605977	49.346	ug/l	99
79) tert-butylbenzene	13.412	119	576731	48.395	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	674243	48.884	ug/l	98
81) sec-Butylbenzene	13.594	105	835470	49.130	ug/l	100
82) p-Isopropyltoluene	13.706	119	704697	48.941	ug/l	98
83) 1,3-Dichlorobenzene	13.712	146	350626	47.120	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	346883	45.631	ug/l	98
85) n-Butylbenzene	14.035	91	664503	49.104	ug/l	98
86) Hexachloroethane	14.306	117	129811	45.501	ug/l	100
87) 1,2-Dichlorobenzene	14.082	146	324709	44.748	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.700	75	59546	47.944	ug/l	98
89) 1,2,4-Trichlorobenzene	15.811	180	181481	42.739	ug/l	98
90) Hexachlorobutadiene	15.476	225	72346	47.241	ug/l	95
91) Naphthalene	15.611	128	659204	42.535	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	181481	42.739	ug/l	98

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

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