

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111325\
 Data File : VN088280.D
 Acq On : 13 Nov 2025 14:52
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN111325

Quant Time: Nov 14 00:53:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 14 00:49:21 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	59836	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	314478	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	281376	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	164242	30.050	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.167%			
60) 4-Bromofluorobenzene	12.829	95	141628	29.776	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.267%			
63) Toluene-d8	10.541	98	398285	29.898	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.667%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	77036	18.315	ug/l	98
3) Chloromethane	2.383	50	86177	19.872	ug/l	98
4) Vinyl Chloride	2.536	62	84527	18.433	ug/l	98
5) Bromomethane	2.977	94	48863	19.985	ug/l	97
6) Chloroethane	3.136	64	50576	17.844	ug/l	94
7) Trichlorofluoromethane	3.512	101	110113	17.128	ug/l	100
8) Diethyl Ether	3.965	74	46163	19.212	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	57310	16.992	ug/l	79
10) 1,1-Dichloroethene	4.336	96	59274	18.015	ug/l	94
11) Methyl Iodide	4.577	142	58877	16.814	ug/l	90
12) Methyl Acetate	5.018	43	105672	19.907	ug/l	92
13) Acrolein	4.177	56	76696	98.203	ug/l	99
14) Acrylonitrile	5.706	53	236180	97.918	ug/l	98
15) Acetone	4.424	58	63872	90.552	ug/l	96
16) Carbon Disulfide	4.706	76	208629	18.801	ug/l	99
17) Allyl chloride	5.006	41	118554	18.542	ug/l	96
18) Methylene Chloride	5.271	84	79620m	19.468	ug/l	
19) trans-1,2-Dichloroethene	5.771	96	71896	18.765	ug/l	89
20) Diisopropyl ether	6.659	45	256681	18.786	ug/l	96
21) 1,1-Dichloroethane	6.553	63	143051	18.584	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	84864	19.057	ug/l	97
23) tert-Butyl Alcohol	5.524	59	86459	97.482	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	257315	19.396	ug/l	100
25) Chloroform	7.953	83	142847	18.728	ug/l	98
26) Cyclohexane	8.235	56	106714	16.413	ug/l #	98
29) 1,1-Dichloropropene	8.347	75	96367	18.365	ug/l	99
30) 2-Butanone	7.471	43	327303	96.429	ug/l	98
31) 2,2-Dichloropropane	7.471	77	112256	17.345	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	119999	18.551	ug/l	98
33) Carbon Tetrachloride	8.341	117	97677	17.683	ug/l	98
34) Benzene	8.582	78	299669	19.106	ug/l #	93
35) Methacrylonitrile	7.759	41	69495	19.629	ug/l	94
36) 1,2-Dichloroethane	8.653	62	120013	19.661	ug/l	98
37) Trichloroethene	9.329	130	64617	18.180	ug/l	98
38) Methylcyclohexane	9.582	83	99896	16.606	ug/l	99
39) 1,2-Dichloropropane	9.600	63	78870	19.491	ug/l	90
40) Dibromomethane	9.688	93	56759	19.523	ug/l	99
41) Bromodichloromethane	9.865	83	116210	19.856	ug/l	99
42) Vinyl Acetate	6.588	43	1092816	96.465	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	134361	19.674	ug/l	96
44) Isopropyl Acetate	8.671	43	208844	19.843	ug/l	99
45) 1,4-Dioxane	9.676	88	29023	457.924	ug/l	94
46) Methyl methacrylate	9.659	41	90781	18.433	ug/l	96
47) n-amyl Acetate	12.688	43	103680m	19.440	ug/l	
48) t-1,3-Dichloropropene	10.812	75	116148	18.554	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	122990	18.883	ug/l	98
50) 1,1,2-Trichloroethane	10.994	97	71176	19.799	ug/l	94
51) Ethyl methacrylate	10.853	69	111049	18.775	ug/l	98
52) 1,3-Dichloropropane	11.141	76	127801	19.520	ug/l	99
53) Dibromochloromethane	11.341	129	80293	19.444	ug/l	98
54) 1,2-Dibromoethane	11.447	107	72030	19.284	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	344568	101.131	ug/l	99
56) Bromoform	12.559	173	48800	18.671	ug/l	99
58) 4-Methyl-2-Pentanone	10.423	43	643377	101.096	ug/l	99
59) 2-Hexanone	11.176	43	393465	93.108	ug/l	100
61) Tetrachloroethene	11.082	164	54040	18.628	ug/l	94
62) Toluene	10.612	91	313035	19.386	ug/l	98
64) Chlorobenzene	11.870	112	191339	19.133	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.941	131	66791	19.513	ug/l	96
66) Ethyl Benzene	11.941	91	332207	18.667	ug/l	98
67) m/p-Xylenes	12.053	106	248347	37.317	ug/l	99
68) o-Xylene	12.376	106	119521	19.038	ug/l	98
69) Styrene	12.394	104	195500	18.335	ug/l	99
70) Isopropylbenzene	12.676	105	294499	17.700	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.917	83	101792	18.887	ug/l	98
72) 1,2,3-Trichloropropane	12.976	75	109453m	20.963	ug/l	
73) Bromobenzene	12.959	156	72384	19.271	ug/l	96
74) n-propylbenzene	13.012	91	372792	18.105	ug/l	100
75) 2-Chlorotoluene	13.106	91	227167	18.144	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	251921	18.038	ug/l	98
77) t-1,4-Dichloro-2-butene	12.723	75	31173	17.386	ug/l	89
78) 4-Chlorotoluene	13.200	91	235228	18.540	ug/l	98
79) tert-butylbenzene	13.417	119	212022	17.732	ug/l	100
80) 1,2,4-Trimethylbenzene	13.459	105	252748	18.199	ug/l	98
81) sec-Butylbenzene	13.594	105	303762	17.417	ug/l	99
82) p-Isopropyltoluene	13.706	119	250478	17.381	ug/l	98
83) 1,3-Dichlorobenzene	13.711	146	133127	18.242	ug/l	98
84) 1,4-Dichlorobenzene	13.794	146	138360	18.721	ug/l	99
85) n-Butylbenzene	14.035	91	237919	17.323	ug/l	98
86) Hexachloroethane	14.311	117	48251	17.487	ug/l	97
87) 1,2-Dichlorobenzene	14.088	146	132768	19.274	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	24904	19.659	ug/l	95
89) 1,2,4-Trichlorobenzene	15.817	180	71398	18.470	ug/l	97
90) Hexachlorobutadiene	15.476	225	26997	17.984	ug/l	94
91) Naphthalene	15.617	128	257726	18.427	ug/l	99
92) 1,2,3-Trichlorobenzene	15.817	180	71398	18.470	ug/l	97

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

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