

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112025\
 Data File : VN088319.D
 Acq On : 20 Nov 2025 10:22
 Operator : JC\MD
 Sample : VN1120WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1120WBSD01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Nov 21 02:56:21 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

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

Internal Standards						
1) Bromochloromethane	7.794	128	57168	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	285463	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	261605	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	147762	28.296	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	94.333%
60) 4-Bromofluorobenzene	12.823	95	129366	29.253	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	97.500%
63) Toluene-d8	10.541	98	380124	30.691	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	76773	19.104	ug/l	95
3) Chloromethane	2.383	50	80163	19.347	ug/l	99
4) Vinyl Chloride	2.536	62	85076	19.419	ug/l	98
5) Bromomethane	2.983	94	47190	20.201	ug/l	97
6) Chloroethane	3.142	64	51896	19.164	ug/l	97
7) Trichlorofluoromethane	3.518	101	120386	19.600	ug/l	98
8) Diethyl Ether	3.965	74	43709	19.039	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	65229	20.243	ug/l	99
10) 1,1-Dichloroethene	4.342	96	61324	19.508	ug/l	84
11) Methyl Iodide	4.583	142	59628	17.824	ug/l	88
12) Methyl Acetate	5.018	43	100424	19.802	ug/l	98
13) Acrolein	4.177	56	98928	132.581	ug/l	95
14) Acrylonitrile	5.712	53	225510	97.857	ug/l	99
15) Acetone	4.418	58	63487	94.207	ug/l	95
16) Carbon Disulfide	4.712	76	201244	18.981	ug/l	98
17) Allyl chloride	5.018	41	108063	17.690	ug/l	98
18) Methylene Chloride	5.277	84	75886m	19.421	ug/l	
19) trans-1,2-Dichloroethene	5.777	96	69304	18.932	ug/l	87
20) Diisopropyl ether	6.659	45	251960	19.302	ug/l	96
21) 1,1-Dichloroethane	6.553	63	142469	19.372	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	81653	19.192	ug/l	98
23) tert-Butyl Alcohol	5.512	59	68882	81.289	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	241923	19.087	ug/l	99
25) Chloroform	7.953	83	143036	19.628	ug/l	96
26) Cyclohexane	8.235	56	113822	18.323	ug/l #	98
29) 1,1-Dichloropropene	8.353	75	94972	19.939	ug/l	98
30) 2-Butanone	7.471	43	312999	101.588	ug/l	99
31) 2,2-Dichloropropane	7.471	77	123378	21.001	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	122481	20.860	ug/l	98
33) Carbon Tetrachloride	8.341	117	103947	20.731	ug/l	98
34) Benzene	8.588	78	294559	20.689	ug/l	98
35) Methacrylonitrile	7.759	41	66313	20.634	ug/l	95
36) 1,2-Dichloroethane	8.653	62	114702	20.701	ug/l	100
37) Trichloroethene	9.335	130	68380	21.194	ug/l	94
38) Methylcyclohexane	9.582	83	106131	19.435	ug/l	99
39) 1,2-Dichloropropane	9.600	63	78005	21.236	ug/l	89
40) Dibromomethane	9.688	93	56616	21.453	ug/l	98
41) Bromodichloromethane	9.871	83	114051	21.468	ug/l	99
42) Vinyl Acetate	6.589	43	1098774	106.850	ug/l	100

11/21/2025
 Supervised By :Semsettin
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11/21/2025

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.541	43	132783	21.419	ug/l	98
44) Isopropyl Acetate	8.671	43	197773	20.701	ug/l	100
45) 1,4-Dioxane	9.677	88	21463	373.062	ug/l	96
46) Methyl methacrylate	9.665	41	91092	20.376	ug/l	96
47) n-amyl Acetate	12.570	43	76961m	15.897	ug/l	
48) t-1,3-Dichloropropene	10.812	75	115612	20.346	ug/l	98
49) cis-1,3-Dichloropropene	10.288	75	122671	20.748	ug/l	98
50) 1,1,2-Trichloroethane	10.994	97	71560	21.929	ug/l	97
51) Ethyl methacrylate	10.853	69	103494	19.276	ug/l	98
52) 1,3-Dichloropropane	11.141	76	124502	20.949	ug/l	98
53) Dibromochloromethane	11.335	129	81206	21.664	ug/l	99
54) 1,2-Dibromoethane	11.447	107	71329	21.037	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	282197	91.244	ug/l	97
56) Bromoform	12.559	173	50101	21.117	ug/l	96
58) 4-Methyl-2-Pentanone	10.424	43	614867	103.918	ug/l	100
59) 2-Hexanone	11.176	43	399048	101.566	ug/l	100
61) Tetrachloroethene	11.082	164	57183	21.201	ug/l	94
62) Toluene	10.606	91	308506	20.550	ug/l	99
64) Chlorobenzene	11.871	112	191612	20.608	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.941	131	66552	20.913	ug/l	97
66) Ethyl Benzene	11.941	91	329608	19.921	ug/l	99
67) m/p-Xylenes	12.047	106	244655	39.540	ug/l	97
68) o-Xylene	12.376	106	117332	20.102	ug/l	95
69) Styrene	12.388	104	198890	20.062	ug/l	99
70) Isopropylbenzene	12.676	105	307152	19.856	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.918	83	109342	21.821	ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	104263m	21.478	ug/l	
73) Bromobenzene	12.959	156	73392	21.016	ug/l	97
74) n-propylbenzene	13.012	91	386385	20.184	ug/l	100
75) 2-Chlorotoluene	13.100	91	227632	19.555	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	260668	20.075	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	33658	20.190	ug/l	88
78) 4-Chlorotoluene	13.200	91	231642	19.637	ug/l	100
79) tert-butylbenzene	13.418	119	218757	19.678	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	258295	20.004	ug/l	99
81) sec-Butylbenzene	13.594	105	327046	20.170	ug/l	99
82) p-Isopropyltoluene	13.706	119	265333	19.803	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	141326	20.829	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	142695	20.767	ug/l	95
85) n-Butylbenzene	14.035	91	255540	20.012	ug/l	99
86) Hexachloroethane	14.312	117	51486	20.070	ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	134931	21.068	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	23604	20.041	ug/l	98
89) 1,2,4-Trichlorobenzene	15.811	180	73575	20.472	ug/l	97
90) Hexachlorobutadiene	15.476	225	30541	21.882	ug/l	99
91) Naphthalene	15.617	128	253021	19.458	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	73575	20.472	ug/l	97

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

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