

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112525\
 Data File : VN088358.D
 Acq On : 25 Nov 2025 13:25
 Operator : JC\MD
 Sample : Q3530-08 5.0PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2025

Quant Time: Nov 26 00:35:29 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 11/26/2025
 Supervised By :Mahesh Dadoda 11/26/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	53702	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	284413	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	247687	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	138740	28.283	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.267%		
60) 4-Bromofluorobenzene	12.829	95	117800	28.135	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	93.767%		
63) Toluene-d8	10.547	98	368214	31.400	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	104.667%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	16747	4.436	ug/l	92
3) Chloromethane	2.383	50	20677	5.313	ug/l	89
4) Vinyl Chloride	2.542	62	19975	4.854	ug/l	98
5) Bromomethane	2.983	94	11626	5.298	ug/l	83
6) Chloroethane	3.142	64	13323	5.237	ug/l #	81
7) Trichlorofluoromethane	3.518	101	32476	5.629	ug/l	98
8) Diethyl Ether	3.971	74	10733m	4.977	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.365	101	18420m	6.085	ug/l	
10) 1,1-Dichloroethene	4.342	96	16231	5.496	ug/l	96
11) Methyl Iodide	4.583	142	14237	4.530	ug/l	93
12) Methyl Acetate	5.012	43	25260	5.302	ug/l	94
13) Acrolein	4.183	56	20766	29.626	ug/l #	61
14) Acrylonitrile	5.706	53	55744	25.751	ug/l	98
15) Acetone	4.412	58	9728m	15.367	ug/l	
16) Carbon Disulfide	4.706	76	55267m	5.549	ug/l	
17) Allyl chloride	5.012	41	28226	4.919	ug/l	92
18) Methylene Chloride	5.265	84	20172	5.496	ug/l	94
19) trans-1,2-Dichloroethene	5.765	96	18058	5.251	ug/l	96
20) Diisopropyl ether	6.653	45	60477	4.932	ug/l	96
21) 1,1-Dichloroethane	6.547	63	36894	5.340	ug/l #	94
22) cis-1,2-Dichloroethene	7.465	96	21046	5.266	ug/l	98
23) tert-Butyl Alcohol	5.512	59	19157m	24.067	ug/l	
24) Methyl tert-Butyl Ether	5.783	73	57911	4.864	ug/l #	75
25) Chloroform	7.947	83	36746	5.368	ug/l	96
26) Cyclohexane	8.241	56	30675	5.257	ug/l #	93
29) 1,1-Dichloropropene	8.359	75	25319	5.335	ug/l	99
30) 2-Butanone	7.471	43	60922	19.846	ug/l	98
31) 2,2-Dichloropropane	7.471	77	33099	5.655	ug/l #	85
32) 1,1,1-Trichloroethane	8.153	97	33171	5.670	ug/l	96
33) Carbon Tetrachloride	8.347	117	26564	5.317	ug/l	96
34) Benzene	8.588	78	76039	5.361	ug/l #	91
35) Methacrylonitrile	7.759	41	14969	4.675	ug/l	93
36) 1,2-Dichloroethane	8.647	62	29768	5.392	ug/l #	91
37) Trichloroethene	9.335	130	19465	6.055	ug/l	89
38) Methylcyclohexane	9.577	83	28200	5.183	ug/l #	34
39) 1,2-Dichloropropane	9.594	63	20395	5.573	ug/l	89
40) Dibromomethane	9.694	93	14304	5.440	ug/l	97
41) Bromodichloromethane	9.871	83	28111	5.311	ug/l	95
42) Vinyl Acetate	6.589	43	267439	26.103	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	33095	5.358	ug/l	97
44) Isopropyl Acetate	8.671	43	48449	5.090	ug/l	98
45) 1,4-Dioxane	9.682	88	6063m	105.774	ug/l	
46) Methyl methacrylate	9.665	41	21374	4.799	ug/l	95
47) n-amyl Acetate	12.688	43	20369m	4.223	ug/l	
48) t-1,3-Dichloropropene	10.818	75	27714	4.895	ug/l	93
49) cis-1,3-Dichloropropene	10.288	75	30275	5.140	ug/l #	89
50) 1,1,2-Trichloroethane	10.994	97	17447	5.366	ug/l	93
51) Ethyl methacrylate	10.859	69	21887	4.092	ug/l	95
52) 1,3-Dichloropropane	11.141	76	30907	5.220	ug/l	97
53) Dibromochloromethane	11.335	129	18275	4.893	ug/l	96
54) 1,2-Dibromoethane	11.453	107	17895	5.297	ug/l	97
55) 2-Chloroethyl vinyl ether	10.141	63	74012	24.019	ug/l	98
56) Bromoform	12.559	173	11383	4.815	ug/l #	95
58) 4-Methyl-2-Pentanone	10.424	43	145363	25.948	ug/l	99
59) 2-Hexanone	11.182	43	68250	18.347	ug/l	99
61) Tetrachloroethene	11.082	164	16447	6.441	ug/l #	87
62) Toluene	10.606	91	79207	5.573	ug/l	99
64) Chlorobenzene	11.871	112	47713	5.420	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.935	131	16135	5.355	ug/l	91
66) Ethyl Benzene	11.941	91	80158	5.117	ug/l	100
67) m/p-Xylenes	12.053	106	58589	10.001	ug/l	96
68) o-Xylene	12.371	106	27382	4.955	ug/l	100
69) Styrene	12.388	104	42846	4.565	ug/l	97
70) Isopropylbenzene	12.676	105	71535	4.884	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.918	83	23563	4.967	ug/l	95
72) 1,2,3-Trichloropropane	12.971	75	22886m	4.980	ug/l	
73) Bromobenzene	12.959	156	17143	5.185	ug/l	94
74) n-propylbenzene	13.012	91	92249	5.090	ug/l	99
75) 2-Chlorotoluene	13.106	91	56112	5.091	ug/l	97
76) 1,3,5-Trimethylbenzene	13.147	105	60479	4.919	ug/l	96
77) t-1,4-Dichloro-2-butene	12.729	75	5519	3.497	ug/l	89
78) 4-Chlorotoluene	13.200	91	55254	4.947	ug/l	96
79) tert-butylbenzene	13.412	119	50845	4.831	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	56552	4.626	ug/l	97
81) sec-Butylbenzene	13.594	105	75795	4.937	ug/l	95
82) p-Isopropyltoluene	13.706	119	60539	4.772	ug/l	97
83) 1,3-Dichlorobenzene	13.712	146	30866	4.805	ug/l	95
84) 1,4-Dichlorobenzene	13.788	146	33588	5.163	ug/l	97
85) n-Butylbenzene	14.035	91	56797	4.698	ug/l	99
86) Hexachloroethane	14.312	117	11029	4.541	ug/l	98
87) 1,2-Dichlorobenzene	14.082	146	30616	5.049	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.700	75	5112	4.584	ug/l	97
89) 1,2,4-Trichlorobenzene	15.806	180	17368	5.104	ug/l	96
90) Hexachlorobutadiene	15.476	225	7966	6.028	ug/l	91
91) Naphthalene	15.617	128	53415	4.338	ug/l #	93
92) 1,2,3-Trichlorobenzene	15.806	180	17368	5.104	ug/l	96

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

