

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112525\
 Data File : VN088360.D
 Acq On : 25 Nov 2025 14:06
 Operator : JC\MD
 Sample : Q3700-02MS 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WWMS

Quant Time: Nov 26 00:19:16 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	7.806	128	50762m	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	9.082	114	258609	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	233753	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	134612	29.031	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.767%		
60) 4-Bromofluorobenzene	12.829	95	111794	28.292	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	94.300%		
63) Toluene-d8	10.547	98	336421	30.399	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.333%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	69954	19.604	ug/l	98
3) Chloromethane	2.383	50	74716	20.308	ug/l	99
4) Vinyl Chloride	2.536	62	76320	19.619	ug/l	99
5) Bromomethane	2.977	94	34934	16.842	ug/l	96
6) Chloroethane	3.142	64	45938	19.105	ug/l	96
7) Trichlorofluoromethane	3.518	101	108100	19.821	ug/l	96
8) Diethyl Ether	3.959	74	40604	19.919	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.371	101	56717	19.823	ug/l	97
10) 1,1-Dichloroethene	4.336	96	55886	20.021	ug/l	94
11) Methyl Iodide	4.583	142	53601	18.044	ug/l	95
12) Methyl Acetate	5.018	43	101181	22.469	ug/l	92
13) Acrolein	4.171	56	115422	174.207	ug/l	98
14) Acrylonitrile	5.712	53	221452	108.224	ug/l	98
15) Acetone	4.418	58	150287	251.151	ug/l	92
16) Carbon Disulfide	4.706	76	177840	18.891	ug/l	99
17) Allyl chloride	5.018	41	101631	18.736	ug/l	98
18) Methylene Chloride	5.265	84	70431	20.300	ug/l	93
19) trans-1,2-Dichloroethene	5.777	96	64621	19.881	ug/l	97
20) Diisopropyl ether	6.659	45	242680	20.937	ug/l	93
21) 1,1-Dichloroethane	6.559	63	130129	19.927	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	75377	19.952	ug/l	98
23) tert-Butyl Alcohol	5.512	59	87740	116.610	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	222827	19.799	ug/l #	74
25) Chloroform	7.947	83	152785	23.611	ug/l	95
26) Cyclohexane	8.235	56	98103	17.785	ug/l #	95
29) 1,1-Dichloropropene	8.353	75	87488	20.275	ug/l	99
30) 2-Butanone	7.471	43	334427	119.814	ug/l	99
31) 2,2-Dichloropropane	7.471	77	107052	20.115	ug/l	99
32) 1,1,1-Trichloroethane	8.147	97	110515	20.776	ug/l	98
33) Carbon Tetrachloride	8.347	117	90748	19.978	ug/l	90
34) Benzene	8.588	78	274298	21.267	ug/l	99
35) Methacrylonitrile	7.759	41	63362	21.763	ug/l	91
36) 1,2-Dichloroethane	8.653	62	104772	20.873	ug/l	97
37) Trichloroethene	9.329	130	63845	21.843	ug/l	96
38) Methylcyclohexane	9.577	83	93346	18.869	ug/l	99
39) 1,2-Dichloropropane	9.600	63	69909	21.009	ug/l	94
40) Dibromomethane	9.688	93	51823	21.676	ug/l	99
41) Bromodichloromethane	9.871	83	107177	22.268	ug/l	98
42) Vinyl Acetate	6.588	43	1092298	117.250	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	122432	21.800	ug/l	99
44) Isopropyl Acetate	8.677	43	192868	22.284	ug/l	100
45) 1,4-Dioxane	9.677	88	29180	559.864	ug/l #	89
46) Methyl methacrylate	9.665	41	86691	21.405	ug/l	95
47) n-amyl Acetate	12.665	43	100705m	22.962	ug/l	
48) t-1,3-Dichloropropene	10.818	75	104159	20.233	ug/l	95
49) cis-1,3-Dichloropropene	10.288	75	107404	20.052	ug/l	98
50) 1,1,2-Trichloroethane	10.994	97	65293	22.086	ug/l	94
51) Ethyl methacrylate	10.853	69	95271	19.587	ug/l	95
52) 1,3-Dichloropropane	11.141	76	115419	21.437	ug/l	99
53) Dibromochloromethane	11.335	129	72019	21.208	ug/l	97
54) 1,2-Dibromoethane	11.447	107	66715	21.719	ug/l	98
55) 2-Chloroethyl vinyl ether	10.147	63	4636m	1.655	ug/l	
56) Bromoform	12.559	173	44780	20.834	ug/l	97
58) 4-Methyl-2-Pentanone	10.424	43	627398	118.670	ug/l	99
59) 2-Hexanone	11.176	43	407703	116.133	ug/l	98
61) Tetrachloroethene	11.082	164	55543	23.047	ug/l	88
62) Toluene	10.606	91	281612	20.994	ug/l	99
64) Chlorobenzene	11.871	112	173548	20.890	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.935	131	60366	21.229	ug/l	96
66) Ethyl Benzene	11.941	91	290884	19.675	ug/l	99
67) m/p-Xylenes	12.047	106	221392	40.044	ug/l	100
68) o-Xylene	12.376	106	104910	20.115	ug/l	96
69) Styrene	12.388	104	178508	20.152	ug/l	96
70) Isopropylbenzene	12.676	105	266241	19.262	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	93412	20.864	ug/l	100
72) 1,2,3-Trichloropropane	12.976	75	96143m	22.166	ug/l	
73) Bromobenzene	12.959	156	65258	20.913	ug/l	97
74) n-propylbenzene	13.012	91	338382	19.782	ug/l	100
75) 2-Chlorotoluene	13.100	91	201658	19.388	ug/l	100
76) 1,3,5-Trimethylbenzene	13.147	105	226409	19.514	ug/l	98
77) t-1,4-Dichloro-2-butene	12.717	75	29632	19.893	ug/l	93
78) 4-Chlorotoluene	13.200	91	208650	19.796	ug/l	100
79) tert-butylbenzene	13.417	119	186804	18.806	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	228610	19.815	ug/l	97
81) sec-Butylbenzene	13.594	105	269015	18.568	ug/l	98
82) p-Isopropyltoluene	13.706	119	221934	18.538	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	122376	20.185	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	126160	20.548	ug/l	97
85) n-Butylbenzene	14.035	91	210401	18.440	ug/l	99
86) Hexachloroethane	14.312	117	39601	17.276	ug/l	99
87) 1,2-Dichlorobenzene	14.082	146	113216	19.784	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.700	75	24131	22.930	ug/l	93
89) 1,2,4-Trichlorobenzene	15.811	180	65336	20.346	ug/l	97
90) Hexachlorobutadiene	15.470	225	25750	20.648	ug/l	99
91) Naphthalene	15.611	128	245996	21.171	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	65336	20.346	ug/l	97

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

