

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080625\
 Data File : VN087469.D
 Acq On : 06 Aug 2025 10:02
 Operator : JC\MD
 Sample : VN0806WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0806WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/07/2025
 Supervised By : Mahesh Dadoda 08/07/2025

Quant Time: Aug 07 03:31:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.800	128	63364	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	358328	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	323326	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	179562	30.724	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.400%			
60) 4-Bromofluorobenzene	12.829	95	164013	29.476	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.267%			
63) Toluene-d8	10.547	98	451965	30.380	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.267%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	79681	19.261	ug/l	95
3) Chloromethane	2.383	50	78829	18.572	ug/l	95
4) Vinyl Chloride	2.536	62	83119	18.463	ug/l	97
5) Bromomethane	2.983	94	47149	19.349	ug/l	91
6) Chloroethane	3.142	64	54479	18.767	ug/l	92
7) Trichlorofluoromethane	3.512	101	119682	18.473	ug/l	96
8) Diethyl Ether	3.965	74	50998	18.894	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	60300	18.251	ug/l	88
10) 1,1-Dichloroethene	4.336	96	63105	18.184	ug/l	95
11) Methyl Iodide	4.583	142	41100	15.041	ug/l	98
12) Methyl Acetate	5.018	43	112204	17.520	ug/l	98
13) Acrolein	4.177	56	102386	104.675	ug/l	100
14) Acrylonitrile	5.706	53	241894	86.499	ug/l #	90
15) Acetone	4.418	58	77535	97.037	ug/l	99
16) Carbon Disulfide	4.700	76	192280	17.862	ug/l	97
17) Allyl chloride	5.012	41	127668	18.049	ug/l	97
18) Methylene Chloride	5.265	84	79276	17.744	ug/l	91
19) trans-1,2-Dichloroethene	5.777	96	71221	17.258	ug/l	88
20) Diisopropyl ether	6.653	45	291281	18.076	ug/l	97
21) 1,1-Dichloroethane	6.553	63	149792	17.983	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	90956	17.912	ug/l	97
23) tert-Butyl Alcohol	5.524	59	97967	82.443	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	280616	17.745	ug/l	97
25) Chloroform	7.953	83	156152	17.960	ug/l	94
26) Cyclohexane	8.235	56	119227	17.878	ug/l #	99
29) 1,1-Dichloropropene	8.353	75	104354	17.855	ug/l	99
30) 2-Butanone	7.471	43	369273	85.719	ug/l	99
31) 2,2-Dichloropropane	7.471	77	135200	17.936	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	132466	17.771	ug/l	97
33) Carbon Tetrachloride	8.347	117	110426m	17.833	ug/l	
34) Benzene	8.588	78	322889	17.502	ug/l	99
35) Methacrylonitrile	7.759	41	74555	16.037	ug/l	99
36) 1,2-Dichloroethane	8.653	62	132443	17.762	ug/l	99
37) Trichloroethene	9.335	130	70488	17.345	ug/l	93
38) Methylcyclohexane	9.582	83	117215	17.288	ug/l	97
39) 1,2-Dichloropropane	9.600	63	82800	17.505	ug/l	100
40) Dibromomethane	9.688	93	61810	17.416	ug/l	98
41) Bromodichloromethane	9.865	83	124972	16.946	ug/l #	99
42) Vinyl Acetate	6.588	43	1374145	96.860	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	152217	18.290	ug/l	100
44) Isopropyl Acetate	8.677	43	244512	17.332	ug/l	99
45) 1,4-Dioxane	9.682	88	29054	323.056	ug/l	98
46) Methyl methacrylate	9.665	41	111253	16.707	ug/l	96
47) n-amyl Acetate	12.518	43	139526m	17.903	ug/l	
48) t-1,3-Dichloropropene	10.818	75	135922	16.941	ug/l	96
49) cis-1,3-Dichloropropene	10.294	75	140984	17.461	ug/l	99
50) 1,1,2-Trichloroethane	10.994	97	76886	17.147	ug/l	95
51) Ethyl methacrylate	10.859	69	137945	17.468	ug/l	98
52) 1,3-Dichloropropane	11.141	76	139589	17.279	ug/l	98
53) Dibromochloromethane	11.341	129	87302	16.859	ug/l	98
54) 1,2-Dibromoethane	11.447	107	81582	17.139	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	368425	88.622	ug/l	99
56) Bromoform	12.559	173	54768	15.990	ug/l #	99
58) 4-Methyl-2-Pentanone	10.424	43	728097	87.538	ug/l	100
59) 2-Hexanone	11.176	43	490627	86.816	ug/l	99
61) Tetrachloroethene	11.082	164	55879	17.739	ug/l	96
62) Toluene	10.612	91	351649	17.621	ug/l	100
64) Chlorobenzene	11.871	112	215016	17.535	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.941	131	73983	17.161	ug/l	99
66) Ethyl Benzene	11.941	91	389345	17.505	ug/l	97
67) m/p-Xylenes	12.047	106	285958	35.025	ug/l	99
68) o-Xylene	12.376	106	136722	17.022	ug/l	97
69) Styrene	12.388	104	236470	17.242	ug/l	99
70) Isopropylbenzene	12.676	105	363829	17.829	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	122266	17.487	ug/l	99
72) 1,2,3-Trichloropropane	12.976	75	105686m	16.226	ug/l	
73) Bromobenzene	12.959	156	84381	17.838	ug/l	97
74) n-propylbenzene	13.012	91	453262	17.786	ug/l	100
75) 2-Chlorotoluene	13.106	91	274436	17.506	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	302233	17.298	ug/l	98
77) t-1,4-Dichloro-2-butene	12.723	75	40937	16.603	ug/l	86
78) 4-Chlorotoluene	13.200	91	285903	17.997	ug/l	96
79) tert-butylbenzene	13.417	119	257421	17.475	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	306316	17.545	ug/l	99
81) sec-Butylbenzene	13.594	105	379577	17.700	ug/l	97
82) p-Isopropyltoluene	13.706	119	317223	17.815	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	158531	17.599	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	164222	17.982	ug/l	98
85) n-Butylbenzene	14.035	91	310306	17.812	ug/l	98
86) Hexachloroethane	14.312	117	60437	17.381	ug/l	99
87) 1,2-Dichlorobenzene	14.082	146	149949	17.439	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.700	75	28961	16.351	ug/l	95
89) 1,2,4-Trichlorobenzene	15.811	180	89482	17.413	ug/l	99
90) Hexachlorobutadiene	15.470	225	35275	17.653	ug/l	95
91) Naphthalene	15.611	128	321745	16.420	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	89482	17.413	ug/l	99

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

