

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087449.D
 Acq On : 05 Aug 2025 11:21
 Operator : JC\MD
 Sample : VN0805WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0805WBS01

Quant Time: Aug 06 02:09:37 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

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/06/2025
 Supervised By : Mahesh Dadoda 08/06/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	78138	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	387502	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	347352	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	196161	27.218	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 90.733%#			
60) 4-Bromofluorobenzene	12.829	95	179814	30.081	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.267%			
63) Toluene-d8	10.547	98	472449	29.560	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.533%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	68524	13.432	ug/l	92
3) Chloromethane	2.389	50	64272	12.279	ug/l	99
4) Vinyl Chloride	2.542	62	71462	12.873	ug/l	93
5) Bromomethane	2.977	94	40933m	13.622	ug/l	
6) Chloroethane	3.136	64	46550	13.003	ug/l	96
7) Trichlorofluoromethane	3.518	101	105702	13.230	ug/l	90
8) Diethyl Ether	3.959	74	48437	14.552	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	57230	14.047	ug/l	85
10) 1,1-Dichloroethene	4.336	96	59512	13.906	ug/l	95
11) Methyl Iodide	4.577	142	37209	11.042	ug/l	96
12) Methyl Acetate	5.012	43	134700	17.056	ug/l	99
13) Acrolein	4.177	56	62223	51.586	ug/l	97
14) Acrylonitrile	5.712	53	255217	74.008	ug/l	98
15) Acetone	4.424	58	68216	69.232	ug/l	95
16) Carbon Disulfide	4.706	76	157704	11.880	ug/l	96
17) Allyl chloride	5.018	41	123276	14.133	ug/l	95
18) Methylene Chloride	5.271	84	77635	14.092	ug/l	89
19) trans-1,2-Dichloroethene	5.771	96	64556	12.685	ug/l	92
20) Diisopropyl ether	6.659	45	280559	14.119	ug/l	100
21) 1,1-Dichloroethane	6.559	63	149612	14.566	ug/l	97
22) cis-1,2-Dichloroethene	7.471	96	89426	14.281	ug/l	99
23) tert-Butyl Alcohol	5.518	59	108271	73.887	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	281200	14.420	ug/l	99
25) Chloroform	7.947	83	154008	14.364	ug/l	93
26) Cyclohexane	8.235	56	108010	13.134	ug/l	99
29) 1,1-Dichloropropene	8.353	75	95689	15.140	ug/l	98
30) 2-Butanone	7.471	43	368762	79.155	ug/l	99
31) 2,2-Dichloropropane	7.477	77	131121	16.086	ug/l	96
32) 1,1,1-Trichloroethane	8.153	97	127276	15.790	ug/l	95
33) Carbon Tetrachloride	8.341	117	105721	15.788	ug/l	98
34) Benzene	8.588	78	303101	15.192	ug/l	97
35) Methacrylonitrile	7.759	41	84481	16.804	ug/l	94
36) 1,2-Dichloroethane	8.653	62	128345	15.917	ug/l	98
37) Trichloroethene	9.329	130	68343	15.551	ug/l	90
38) Methylcyclohexane	9.582	83	110553	15.078	ug/l	99
39) 1,2-Dichloropropane	9.600	63	81132	15.861	ug/l	99
40) Dibromomethane	9.694	93	61946	16.141	ug/l	97
41) Bromodichloromethane	9.871	83	128837	16.155	ug/l	95
42) Vinyl Acetate	6.588	43	1205017	78.544	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	148799	16.533	ug/l	97
44) Isopropyl Acetate	8.677	43	248147	16.265	ug/l	98
45) 1,4-Dioxane	9.682	88	32572	334.906	ug/l	97
46) Methyl methacrylate	9.659	41	111662	15.506	ug/l	96
47) n-amyl Acetate	12.535	43	120891m	14.344	ug/l	
48) t-1,3-Dichloropropene	10.818	75	137216	15.815	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	140340	16.073	ug/l	99
50) 1,1,2-Trichloroethane	11.000	97	79236	16.340	ug/l	98
51) Ethyl methacrylate	10.859	69	138713	16.243	ug/l	98
52) 1,3-Dichloropropane	11.141	76	147055	16.833	ug/l	99
53) Dibromochloromethane	11.341	129	91919	16.414	ug/l	97
54) 1,2-Dibromoethane	11.447	107	82931	16.111	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	403275	89.702	ug/l	100
56) Bromoform	12.559	173	57890	15.629	ug/l #	98
58) 4-Methyl-2-Pentanone	10.424	43	750610	84.003	ug/l	99
59) 2-Hexanone	11.176	43	491160	80.899	ug/l	99
61) Tetrachloroethene	11.082	164	53450	15.795	ug/l	98
62) Toluene	10.612	91	334708	15.612	ug/l	99
64) Chlorobenzene	11.870	112	211384	16.046	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.941	131	76298	16.473	ug/l	98
66) Ethyl Benzene	11.941	91	374218	15.661	ug/l	98
67) m/p-Xylenes	12.053	106	275843	31.449	ug/l	98
68) o-Xylene	12.376	106	134500	15.587	ug/l	99
69) Styrene	12.388	104	227083	15.412	ug/l	96
70) Isopropylbenzene	12.676	105	348898	15.915	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.917	83	126729	16.872	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	108551m	15.513	ug/l	
73) Bromobenzene	12.959	156	81330	16.003	ug/l	99
74) n-propylbenzene	13.012	91	430433	15.721	ug/l	98
75) 2-Chlorotoluene	13.106	91	269013	15.973	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	290403	15.471	ug/l	99
77) t-1,4-Dichloro-2-butene	12.723	75	39463	14.898	ug/l	88
78) 4-Chlorotoluene	13.200	91	278069	16.293	ug/l	96
79) tert-butylbenzene	13.417	119	256159	16.186	ug/l	100
80) 1,2,4-Trimethylbenzene	13.459	105	294348	15.693	ug/l	100
81) sec-Butylbenzene	13.594	105	381757	16.570	ug/l	99
82) p-Isopropyltoluene	13.706	119	309733	16.192	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	154066	15.920	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	163082	16.622	ug/l	99
85) n-Butylbenzene	14.035	91	308662	16.492	ug/l	98
86) Hexachloroethane	14.311	117	61287	16.406	ug/l	99
87) 1,2-Dichlorobenzene	14.082	146	153193	16.584	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.700	75	31301	16.450	ug/l	95
89) 1,2,4-Trichlorobenzene	15.811	180	90191	16.337	ug/l	99
90) Hexachlorobutadiene	15.470	225	35648	16.606	ug/l	96
91) Naphthalene	15.611	128	344262	16.354	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	90191	16.337	ug/l	99

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

