

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101725\
 Data File : VN088056.D
 Acq On : 17 Oct 2025 10:03
 Operator : JC\MD
 Sample : VN1017WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1017WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/20/2025
 Supervised By : Mahesh Dadoda 10/20/2025

Quant Time: Oct 18 01:25:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 09 02:36:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	61010	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	345518	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	303706	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	152177	32.032	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.767%			
60) 4-Bromofluorobenzene	12.829	95	149905	29.941	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.800%			
63) Toluene-d8	10.547	98	417441	30.850	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.833%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	72648	20.789	ug/l	95
3) Chloromethane	2.383	50	75767	19.124	ug/l	99
4) Vinyl Chloride	2.536	62	83370	20.182	ug/l	98
5) Bromomethane	2.983	94	45431	20.452	ug/l	100
6) Chloroethane	3.142	64	51413	18.867	ug/l	92
7) Trichlorofluoromethane	3.518	101	118779	21.144	ug/l	91
8) Diethyl Ether	3.959	74	48062	18.935	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	62809	20.887	ug/l	96
10) 1,1-Dichloroethene	4.342	96	65077	20.287	ug/l	100
11) Methyl Iodide	4.577	142	49007	16.576	ug/l	93
12) Methyl Acetate	5.012	43	103928	19.929	ug/l #	86
13) Acrolein	4.171	56	67768	83.974	ug/l #	1
14) Acrylonitrile	5.706	53	229850	91.332	ug/l	100
15) Acetone	4.424	58	70716	95.949	ug/l	89
16) Carbon Disulfide	4.700	76	195019	19.393	ug/l	97
17) Allyl chloride	5.012	41	111908	18.488	ug/l	95
18) Methylene Chloride	5.265	84	77740	19.067	ug/l	98
19) trans-1,2-Dichloroethene	5.777	96	70214	18.932	ug/l #	84
20) Diisopropyl ether	6.659	45	267547	19.415	ug/l	98
21) 1,1-Dichloroethane	6.553	63	144256	20.108	ug/l	97
22) cis-1,2-Dichloroethene	7.471	96	89762	19.334	ug/l	98
23) tert-Butyl Alcohol	5.512	59	86498	85.698	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	260817	18.837	ug/l	97
25) Chloroform	7.947	83	144250	19.485	ug/l	92
26) Cyclohexane	8.241	56	119448	20.096	ug/l #	97
29) 1,1-Dichloropropene	8.353	75	102232	20.642	ug/l	95
30) 2-Butanone	7.471	43	337926	92.513	ug/l	97
31) 2,2-Dichloropropane	7.471	77	126022	19.748	ug/l	100
32) 1,1,1-Trichloroethane	8.147	97	124024	20.041	ug/l	98
33) Carbon Tetrachloride	8.341	117	104455	20.151	ug/l	96
34) Benzene	8.588	78	314619	19.152	ug/l	99
35) Methacrylonitrile	7.759	41	69646	18.132	ug/l	93
36) 1,2-Dichloroethane	8.653	62	112994	19.813	ug/l	97
37) Trichloroethene	9.335	130	71200	18.294	ug/l	98
38) Methylcyclohexane	9.582	83	121344	19.840	ug/l	98
39) 1,2-Dichloropropane	9.600	63	79149	19.215	ug/l	99
40) Dibromomethane	9.688	93	56354	18.795	ug/l	93
41) Bromodichloromethane	9.871	83	118647	19.375	ug/l	97
42) Vinyl Acetate	6.589	43	1209453m	97.194	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	133195	18.969	ug/l	99
44) Isopropyl Acetate	8.671	43	210930	18.392	ug/l	98
45) 1,4-Dioxane	9.682	88	24886	326.268	ug/l #	93
46) Methyl methacrylate	9.665	41	94043	18.621	ug/l	95
47) n-amyl Acetate	12.570	43	114884m	21.135	ug/l	
48) t-1,3-Dichloropropene	10.812	75	128661	18.895	ug/l	99
49) cis-1,3-Dichloropropene	10.294	75	132631	18.672	ug/l	95
50) 1,1,2-Trichloroethane	10.994	97	74875	18.857	ug/l	99
51) Ethyl methacrylate	10.853	69	122268	18.195	ug/l	93
52) 1,3-Dichloropropane	11.141	76	131711	19.013	ug/l	99
53) Dibromochloromethane	11.335	129	86723	18.269	ug/l	99
54) 1,2-Dibromoethane	11.447	107	76220	17.955	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	292020	80.508	ug/l	99
56) Bromoform	12.559	173	55031	17.148	ug/l	97
58) 4-Methyl-2-Pentanone	10.424	43	635098	93.491	ug/l	98
59) 2-Hexanone	11.176	43	414833	92.491	ug/l	99
61) Tetrachloroethene	11.082	164	55966	18.197	ug/l	87
62) Toluene	10.606	91	329738	19.140	ug/l	99
64) Chlorobenzene	11.871	112	209138	19.006	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.935	131	71463	18.846	ug/l	98
66) Ethyl Benzene	11.941	91	365743	19.525	ug/l	98
67) m/p-Xylenes	12.047	106	279849	38.752	ug/l	97
68) o-Xylene	12.376	106	134497	18.709	ug/l	94
69) Styrene	12.388	104	225528	18.965	ug/l	98
70) Isopropylbenzene	12.670	105	346221	19.650	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.918	83	110122	18.435	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	107460m	19.370	ug/l	
73) Bromobenzene	12.959	156	77370	17.966	ug/l	92
74) n-propylbenzene	13.012	91	421634	19.823	ug/l	98
75) 2-Chlorotoluene	13.100	91	252126	19.386	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	282658	18.886	ug/l	98
77) t-1,4-Dichloro-2-butene	12.718	75	35729	16.161	ug/l	93
78) 4-Chlorotoluene	13.200	91	260161	19.690	ug/l	96
79) tert-butylbenzene	13.412	119	259100	19.970	ug/l	100
80) 1,2,4-Trimethylbenzene	13.459	105	288836	19.278	ug/l	98
81) sec-Butylbenzene	13.594	105	372393	20.414	ug/l	98
82) p-Isopropyltoluene	13.706	119	308796	19.827	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	153956	19.001	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	152875	18.295	ug/l	97
85) n-Butylbenzene	14.035	91	295097	20.366	ug/l	97
86) Hexachloroethane	14.312	117	61862	19.828	ug/l	88
87) 1,2-Dichlorobenzene	14.082	146	148440	18.626	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	25015	18.234	ug/l	95
89) 1,2,4-Trichlorobenzene	15.811	180	81108	17.086	ug/l	95
90) Hexachlorobutadiene	15.470	225	30801	18.643	ug/l	99
91) Naphthalene	15.611	128	309666	17.818	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	81108	17.086	ug/l	95

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

