

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040425\
 Data File : VN086225.D
 Acq On : 04 Apr 2025 11:38
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/07/2025
 Supervised By : Mahesh Dadoda 04/07/2025

Quant Time: Apr 04 23:43:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040425W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 04 23:41:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	10442	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	54449	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.859	117	52507	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	29707	28.347	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.500%		
60) 4-Bromofluorobenzene	12.847	95	30858	31.542	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	105.133%		
63) Toluene-d8	10.559	98	86742	29.613	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.700%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	105390	148.939	ug/l	100
3) Chloromethane	2.359	50	111267	144.761	ug/l	96
4) Vinyl Chloride	2.518	62	104688	146.245	ug/l	99
5) Bromomethane	2.965	94	48610	130.938	ug/l	98
6) Chloroethane	3.124	64	57830	135.374	ug/l	94
7) Trichlorofluoromethane	3.506	101	128837	134.456	ug/l	93
8) Diethyl Ether	3.959	74	43332	135.681	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	69822	131.008	ug/l	99
10) 1,1-Dichloroethene	4.341	96	68830	132.314	ug/l	95
11) Methyl Iodide	4.589	142	88075	131.996	ug/l	95
12) Methyl Acetate	5.024	43	73728	107.261	ug/l	96
13) Acrolein	4.177	56	35679	475.204	ug/l	99
14) Acrylonitrile	5.712	53	175753	655.917	ug/l	99
15) Acetone	4.430	58	46803	559.906	ug/l	99
16) Carbon Disulfide	4.712	76	209666	125.818	ug/l #	94
17) Allyl chloride	5.024	41	94828	131.053	ug/l	90
18) Methylene Chloride	5.277	84	78639	126.079	ug/l	98
19) trans-1,2-Dichloroethene	5.788	96	74266	132.196	ug/l	98
20) Diisopropyl ether	6.671	45	205619	135.365	ug/l	98
21) 1,1-Dichloroethane	6.565	63	136154	131.509	ug/l	97
22) cis-1,2-Dichloroethene	7.488	96	85245	127.937	ug/l	95
23) tert-Butyl Alcohol	5.512	59	61930	632.944	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	236516	139.189	ug/l	98
25) Chloroform	7.965	83	143220	131.825	ug/l	100
26) Cyclohexane	8.253	56	111309	133.565	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	97041	142.025	ug/l	97
30) 2-Butanone	7.477	43	208699	694.805	ug/l	98
31) 2,2-Dichloropropane	7.488	77	122171	145.119	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	131220	142.017	ug/l	99
33) Carbon Tetrachloride	8.359	117	114046	144.722	ug/l	100
34) Benzene	8.606	78	316466	139.493	ug/l	100
35) Methacrylonitrile	7.777	41	48639	145.031	ug/l	91
36) 1,2-Dichloroethane	8.665	62	104099	138.156	ug/l	99
37) Trichloroethene	9.347	130	77570	142.767	ug/l	94
38) Methylcyclohexane	9.600	83	108554	151.418	ug/l	98
39) 1,2-Dichloropropane	9.618	63	74983	142.637	ug/l	99
40) Dibromomethane	9.706	93	52448	135.204	ug/l	95
41) Bromodichloromethane	9.882	83	109871	141.014	ug/l	100
42) Vinyl Acetate	6.600	43	764445	714.164	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	85792	138.915	ug/l #	84
44) Isopropyl Acetate	8.682	43	144360	129.498	ug/l	100
45) 1,4-Dioxane	9.694	88	29644	2900.835	ug/l	94
46) Methyl methacrylate	9.676	41	66090	144.747	ug/l	96
47) n-amyl Acetate	12.488	43	119114	156.386	ug/l	97
48) t-1,3-Dichloropropene	10.835	75	116166	144.683	ug/l	96
49) cis-1,3-Dichloropropene	10.306	75	121875	140.491	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	73025	143.988	ug/l	97
51) Ethyl methacrylate	10.870	69	109556	152.162	ug/l	99
52) 1,3-Dichloropropane	11.159	76	125797	142.371	ug/l	100
53) Dibromochloromethane	11.359	129	85524	144.835	ug/l	100
54) 1,2-Dibromoethane	11.465	107	72398	139.132	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	49033	148.519	ug/l	99
56) Bromoform	12.576	173	58444	146.300	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	438629	707.837	ug/l	100
59) 2-Hexanone	11.194	43	322993	726.160	ug/l	99
61) Tetrachloroethene	11.100	164	85495	139.514	ug/l	96
62) Toluene	10.623	91	330586	137.919	ug/l	99
64) Chlorobenzene	11.888	112	203427	136.021	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	74197	134.819	ug/l	99
66) Ethyl Benzene	11.959	91	358816	144.261	ug/l	98
67) m/p-Xylenes	12.070	106	291144	296.510	ug/l	99
68) o-Xylene	12.394	106	137138	144.689	ug/l	97
69) Styrene	12.406	104	234320	155.034	ug/l	99
70) Isopropylbenzene	12.694	105	343339	145.150	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	89869	130.984	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	70262m	106.066	ug/l	
73) Bromobenzene	12.976	156	84246	138.220	ug/l	96
74) n-propylbenzene	13.029	91	409082	151.070	ug/l	99
75) 2-Chlorotoluene	13.123	91	261124	144.802	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	304549	152.711	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	39203	148.373	ug/l	97
78) 4-Chlorotoluene	13.217	91	269236	150.550	ug/l	98
79) tert-butylbenzene	13.435	119	249528	151.840	ug/l	98
80) 1,2,4-Trimethylbenzene	13.476	105	312823	156.332	ug/l	100
81) sec-Butylbenzene	13.611	105	356185	158.250	ug/l	99
82) p-Isopropyltoluene	13.723	119	305136	165.700	ug/l	98
83) 1,3-Dichlorobenzene	13.729	146	163042	147.270	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	161430	149.396	ug/l	99
85) n-Butylbenzene	14.053	91	256660	172.616	ug/l	98
86) Hexachloroethane	14.329	117	48247	147.851	ug/l	96
87) 1,2-Dichlorobenzene	14.100	146	161029	148.502	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	21179	145.082	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	82529	156.443	ug/l	98
90) Hexachlorobutadiene	15.494	225	46843	161.985	ug/l	99
91) Naphthalene	15.635	128	261771	153.108	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	82529	156.443	ug/l	98

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

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