

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086389.D
 Acq On : 23 Apr 2025 18:01
 Operator : JC\MD
 Sample : Q1168-08 5.0PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT1-2025

Quant Time: Apr 24 05:37:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 05:35:39 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone
 04/24/2025

Supervised By :Mahesh
 Dadoda
 04/25/2025

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

Internal Standards						
1) Bromochloromethane	7.812	128	26521	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	157639	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	143224	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	77644	30.366	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.233%			
60) 4-Bromofluorobenzene	12.847	95	79121	28.107	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.700%			
63) Toluene-d8	10.565	98	240260	30.492	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.633%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	9361	5.113	ug/l	86
3) Chloromethane	2.359	50	13961	5.368	ug/l	93
4) Vinyl Chloride	2.512	62	12748	5.118	ug/l	98
5) Bromomethane	2.953	94	7436	5.718	ug/l	95
6) Chloroethane	3.124	64	8708	5.244	ug/l	90
7) Trichlorofluoromethane	3.494	101	15467	5.260	ug/l	98
8) Diethyl Ether	3.959	74	6664	5.369	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	9575	5.297	ug/l	94
10) 1,1-Dichloroethene	4.341	96	9923	5.363	ug/l	93
11) Methyl Iodide	4.589	142	11484	5.305	ug/l	93
12) Methyl Acetate	5.024	43	13285	5.066	ug/l	97
13) Acrolein	4.183	56	6164	46.371	ug/l #	74
14) Acrylonitrile	5.718	53	26600	27.254	ug/l	99
15) Acetone	4.430	58	6649	24.722	ug/l	90
16) Carbon Disulfide	4.712	76	26878	5.513	ug/l	98
17) Allyl chloride	5.024	41	15352	5.189	ug/l	95
18) Methylene Chloride	5.277	84	11419	5.420	ug/l	96
19) trans-1,2-Dichloroethene	5.788	96	10390	5.269	ug/l	86
20) Diisopropyl ether	6.671	45	34358	4.884	ug/l	99
21) 1,1-Dichloroethane	6.565	63	19967	5.186	ug/l	96
22) cis-1,2-Dichloroethene	7.488	96	13189	5.349	ug/l	94
23) tert-Butyl Alcohol	5.518	59	11381	30.101	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	36228	5.300	ug/l	99
25) Chloroform	7.965	83	20593	5.285	ug/l	96
26) Cyclohexane	8.259	56	17770	5.227	ug/l #	100
29) 1,1-Dichloropropene	8.365	75	14224	5.118	ug/l	99
30) 2-Butanone	7.482	43	35205	26.100	ug/l	98
31) 2,2-Dichloropropane	7.488	77	17532	4.908	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	17684	5.325	ug/l	97
33) Carbon Tetrachloride	8.359	117	14279	5.223	ug/l	89
34) Benzene	8.600	78	46427	5.252	ug/l #	84
35) Methacrylonitrile	7.777	41	8703	5.656	ug/l	90
36) 1,2-Dichloroethane	8.665	62	15548	5.418	ug/l #	93
37) Trichloroethene	9.353	130	10935	4.942	ug/l	93
38) Methylcyclohexane	9.600	83	16324	5.086	ug/l	99
39) 1,2-Dichloropropane	9.618	63	11313	5.181	ug/l	97
40) Dibromomethane	9.706	93	7748	5.306	ug/l	97
41) Bromodichloromethane	9.882	83	15747	5.096	ug/l #	98
42) Vinyl Acetate	6.600	43	127596	27.307	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	14754m	5.527	ug/l	
44) Isopropyl Acetate	8.682	43	30759	6.071	ug/l	94
45) 1,4-Dioxane	9.688	88	4252	107.569	ug/l #	94
46) Methyl methacrylate	9.676	41	12363	5.290	ug/l	96
47) n-amyl Acetate	12.488	43	21337	4.941	ug/l	98
48) t-1,3-Dichloropropene	10.835	75	16925	4.899	ug/l	91
49) cis-1,3-Dichloropropene	10.312	75	18697	5.132	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	11211	5.496	ug/l	94
51) Ethyl methacrylate	10.870	69	17506	4.928	ug/l	94
52) 1,3-Dichloropropane	11.159	76	18979	5.265	ug/l	96
53) Dibromochloromethane	11.353	129	11554	5.045	ug/l	99
54) 1,2-Dibromoethane	11.465	107	11058	5.332	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	41677	24.953	ug/l	99
56) Bromoform	12.570	173	7186	4.835	ug/l #	98
58) 4-Methyl-2-Pentanone	10.441	43	74692	26.949	ug/l	99
59) 2-Hexanone	11.194	43	54564	26.715	ug/l	99
61) Tetrachloroethene	11.100	164	10870	4.976	ug/l	95
62) Toluene	10.629	91	50994	5.319	ug/l	98
64) Chlorobenzene	11.888	112	30934	5.178	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	9761	4.887	ug/l	93
66) Ethyl Benzene	11.959	91	53014	4.913	ug/l	94
67) m/p-Xylenes	12.070	106	40778	9.959	ug/l	99
68) o-Xylene	12.394	106	20119	5.019	ug/l	98
69) Styrene	12.406	104	31818	4.683	ug/l	98
70) Isopropylbenzene	12.694	105	48906	4.887	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	14719	5.586	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	11958m	5.205	ug/l	
73) Bromobenzene	12.976	156	11208	4.872	ug/l	99
74) n-propylbenzene	13.035	91	55850	4.697	ug/l	99
75) 2-Chlorotoluene	13.123	91	35741	4.815	ug/l	97
76) 1,3,5-Trimethylbenzene	13.170	105	40283	4.906	ug/l	96
77) t-1,4-Dichloro-2-butene	12.735	75	5490	4.709	ug/l	91
78) 4-Chlorotoluene	13.217	91	35319	4.758	ug/l	99
79) tert-butylbenzene	13.435	119	34022	4.838	ug/l	98
80) 1,2,4-Trimethylbenzene	13.476	105	38889	4.637	ug/l	97
81) sec-Butylbenzene	13.611	105	46549	4.637	ug/l	100
82) p-Isopropyltoluene	13.723	119	36960	4.400	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	20416	4.694	ug/l	99
84) 1,4-Dichlorobenzene	13.811	146	20170	4.694	ug/l	97
85) n-Butylbenzene	14.053	91	31187	4.161	ug/l	99
86) Hexachloroethane	14.335	117	6110	4.448	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	20396	4.929	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	2760	5.153	ug/l	96
89) 1,2,4-Trichlorobenzene	15.841	180	8905	4.721	ug/l	96
90) Hexachlorobutadiene	15.500	225	3283	4.321	ug/l	92
91) Naphthalene	15.635	128	31306	4.636	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	8905	4.721	ug/l	96

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

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