

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102221\
 Data File : VN069135.D
 Acq On : 22 Oct 2021 15:06
 Operator : JC/MD
 Sample : M4068-07
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2021

Quant Time: Oct 23 07:54:17 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102221W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 22 13:15:19 2021
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/25/2021
 Supervised By : Mahesh Dadoda 10/25/2021

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

Internal Standards						
1) Bromochloromethane	7.659	128	67683	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	411619	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	366450	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	165939	31.477	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.933%			
60) 4-Bromofluorobenzene	12.733	95	168126	26.757	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 89.200%			
63) Toluene-d8	10.443	98	505979	30.561	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.867%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.073	85	8322	1.860	ug/l	99
3) Chloromethane	2.303	50	10385	2.232	ug/l	95
4) Vinyl Chloride	2.443	62	11573	2.087	ug/l	97
5) Bromomethane	2.858	94	9937	2.732	ug/l	93
6) Chloroethane	3.022	64	7790	2.167	ug/l	93
7) Trichlorofluoromethane	3.381	101	15458	2.152	ug/l	96
8) Diethyl Ether	3.829	74	5512	2.168	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.218	101	8408m	2.155	ug/l	
10) 1,1-Dichloroethene	4.191	96	7976	2.095	ug/l	88
11) Methyl Iodide	4.422	142	8337	1.558	ug/l	93
12) Methyl Acetate	4.859	43	17484	2.412	ug/l	100
13) Acrolein	4.044	56	6584	15.074	ug/l	92
14) Acrylonitrile	5.562	53	21626m	10.513	ug/l	
15) Acetone	4.291	58	5652	8.789	ug/l	88
16) Carbon Disulfide	4.535	76	20796	2.033	ug/l	95
17) Allyl chloride	4.843	41	13064	1.993	ug/l	87
18) Methylene Chloride	5.106	84	13166m	2.911	ug/l	
19) trans-1,2-Dichloroethene	5.599	96	8687	2.102	ug/l	94
20) Diisopropyl ether	6.498	45	27197	1.942	ug/l	95
21) 1,1-Dichloroethane	6.391	63	16386	2.097	ug/l	98
22) cis-1,2-Dichloroethene	7.324	96	10520	2.123	ug/l	98
23) tert-Butyl Alcohol	5.361	59	8631m	10.226	ug/l	
24) Methyl tert-Butyl Ether	5.621	73	29623	2.052	ug/l	98
25) Chloroform	7.820	83	17400	2.083	ug/l	95
26) Cyclohexane	8.096	56	15044	2.090	ug/l #	97
29) 1,1-Dichloropropene	8.225	75	12508	1.931	ug/l	62
30) 2-Butanone	7.337	43	30039	9.658	ug/l #	94
31) 2,2-Dichloropropane	7.327	77	14679	1.892	ug/l	94
32) 1,1,1-Trichloroethane	8.016	97	15605	1.936	ug/l	99
33) Carbon Tetrachloride	8.209	117	12459	1.820	ug/l	98
34) Benzene	8.461	78	38086	1.969	ug/l #	54
35) Methacrylonitrile	7.635	41	5946	1.918	ug/l	92
36) 1,2-Dichloroethane	8.531	62	14906	2.135	ug/l	96
37) Trichloroethene	9.220	130	9741	1.980	ug/l	95
38) Methylcyclohexane	9.459	83	15937	1.933	ug/l	86
39) 1,2-Dichloropropane	9.494	63	9590	1.944	ug/l	99
40) Dibromomethane	9.579	93	6915	2.005	ug/l	73
41) Bromodichloromethane	9.762	83	12693	1.842	ug/l #	93
42) Vinyl Acetate	6.433	43	93568	8.431	ug/l #	91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.418	43	10664	1.758	ug/l	94
44) Isopropyl Acetate	8.563	43	23076	2.054	ug/l #	83
45) 1,4-Dioxane	9.574	88	3418	38.014	ug/l #	89
46) Methyl methacrylate	9.561	41	9032	1.778	ug/l	86
47) n-amyl Acetate	12.390	43	15657	1.642	ug/l	99
48) t-1,3-Dichloropropene	10.719	75	13526	1.697	ug/l	97
49) cis-1,3-Dichloropropene	10.191	75	14911	1.797	ug/l	99
50) 1,1,2-Trichloroethane	10.899	97	9821	1.984	ug/l	98
51) Ethyl methacrylate	10.762	69	15011	1.840	ug/l	94
52) 1,3-Dichloropropane	11.046	76	16237	1.950	ug/l	98
53) Dibromochloromethane	11.240	129	8825	1.670	ug/l	99
54) 1,2-Dibromoethane	11.350	107	9673	1.870	ug/l	98
55) 2-Chloroethyl vinyl ether	10.041	63	25581	9.876	ug/l	100
56) Bromoform	12.457	173	5452	1.432	ug/l #	97
58) 4-Methyl-2-Pentanone	10.330	43	62089	10.043	ug/l	97
59) 2-Hexanone	11.087	43	45760	9.802	ug/l	100
61) Tetrachloroethene	10.979	164	9161	2.300	ug/l	92
62) Toluene	10.507	91	44717	2.095	ug/l	99
64) Chlorobenzene	11.771	112	26512	2.048	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.840	131	8726	1.812	ug/l	93
66) Ethyl Benzene	11.846	91	46893	1.954	ug/l	100
67) m/p-Xylenes	11.956	106	34606	3.835	ug/l	95
68) o-Xylene	12.280	106	17552	1.942	ug/l	97
69) Styrene	12.299	104	26500	1.770	ug/l	98
70) Isopropylbenzene	12.581	105	45135	1.905	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.827	83	13112	1.888	ug/l	99
72) 1,2,3-Trichloropropane	12.881	75	11642m	1.951	ug/l	
73) Bromobenzene	12.862	156	9924	1.848	ug/l	94
74) n-propylbenzene	12.924	91	49213	1.809	ug/l	99
75) 2-Chlorotoluene	13.010	91	30385	1.824	ug/l	98
76) 1,3,5-Trimethylbenzene	13.061	105	37022	1.875	ug/l	97
77) t-1,4-Dichloro-2-butene	12.626	75	3172	1.359	ug/l	96
78) 4-Chlorotoluene	13.109	91	28848	1.767	ug/l	95
79) tert-butylbenzene	13.326	119	32129	1.853	ug/l	99
80) 1,2,4-Trimethylbenzene	13.369	105	35521	1.833	ug/l #	82
81) sec-Butylbenzene	13.503	105	43624	1.798	ug/l	98
82) p-Isopropyltoluene	13.618	119	34080	1.722	ug/l	99
83) 1,3-Dichlorobenzene	13.618	146	16762	1.773	ug/l	99
84) 1,4-Dichlorobenzene	13.699	146	16254	1.766	ug/l	96
85) n-Butylbenzene	13.946	91	27958	1.689	ug/l	99
86) Hexachloroethane	14.214	117	5279	1.424	ug/l	88
87) 1,2-Dichlorobenzene	13.991	146	15993	1.771	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.603	75	1988	1.537	ug/l	90
89) 1,2,4-Trichlorobenzene	15.265	180	7620	1.673	ug/l	95
90) Hexachlorobutadiene	15.370	225	4436	1.863	ug/l	97
91) Naphthalene	15.509	128	19762	1.500	ug/l	97
92) 1,2,3-Trichlorobenzene	15.702	180	7278	1.672	ug/l	97

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

