

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092722\
 Data File : VN074639.D
 Acq On : 27 Sep 2022 20:06
 Operator : JC\MD
 Sample : N3980-08 LOQ 5.0
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2022

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/28/2022
 Supervised By : Mahesh Dadoda 09/28/2022

Quant Time: Sep 28 08:09:14 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 28 07:48:31 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.487	128	101127	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.828	114	599038	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.622	117	526635	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.287	65	296027	31.046	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.500%			
60) 4-Bromofluorobenzene	12.610	95	270148	26.408	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 88.033%			
63) Toluene-d8	10.310	98	930100	31.311	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 104.367%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.999	85	36276	6.104	ug/l	99
3) Chloromethane	2.216	50	59815	6.854	ug/l	97
4) Vinyl Chloride	2.352	62	80098	7.169	ug/l	97
5) Bromomethane	2.734	94	61086	8.482	ug/l	99
6) Chloroethane	2.893	64	55292	7.001	ug/l	98
7) Trichlorofluoromethane	3.246	101	58695	5.656	ug/l #	82
8) Diethyl Ether	3.681	74	28556	5.217	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.051	101	35613m	5.353	ug/l	
10) 1,1-Dichloroethene	4.022	96	36267	5.287	ug/l #	87
11) Methyl Iodide	4.251	142	41694	4.745	ug/l	91
12) Methyl Acetate	4.675	43	89481	6.092	ug/l	93
13) Acrolein	3.899	56	44823m	37.495	ug/l	
14) Acrylonitrile	5.369	53	170352	28.615	ug/l	99
15) Acetone	4.122	58	43970	28.121	ug/l	92
16) Carbon Disulfide	4.351	76	109185	5.663	ug/l	99
17) Allyl chloride	4.657	41	74830	5.349	ug/l	91
18) Methylene Chloride	4.910	84	56248	6.432	ug/l #	77
19) trans-1,2-Dichloroethene	5.410	96	41780	5.389	ug/l #	74
20) Diisopropyl ether	6.310	45	164528	5.377	ug/l #	92
21) 1,1-Dichloroethane	6.198	63	84720	5.482	ug/l	95
22) cis-1,2-Dichloroethene	7.151	96	51345	5.489	ug/l	97
23) tert-Butyl Alcohol	5.187	59	79050m	32.247	ug/l	
24) Methyl tert-Butyl Ether	5.428	73	151437	5.327	ug/l	99
25) Chloroform	7.663	83	78508	5.125	ug/l	100
26) Cyclohexane	7.934	56	77180	5.554	ug/l #	98
29) 1,1-Dichloropropene	8.063	75	57916	5.176	ug/l	97
30) 2-Butanone	7.163	43	240192	28.137	ug/l	99
31) 2,2-Dichloropropane	7.145	77	66434m	4.974	ug/l	
32) 1,1,1-Trichloroethane	7.851	97	70436	5.329	ug/l	99
33) Carbon Tetrachloride	8.051	117	56854	5.143	ug/l #	87
34) Benzene	8.310	78	195523	5.279	ug/l #	85
35) Methacrylonitrile	7.481	41	41628	5.126	ug/l	84
36) 1,2-Dichloroethane	8.386	62	63093	5.216	ug/l #	90
37) Trichloroethene	9.075	130	41323	5.254	ug/l	92
38) Methylcyclohexane	9.322	83	74441	5.141	ug/l	97
39) 1,2-Dichloropropane	9.357	63	53351m	5.440	ug/l	
40) Dibromomethane	9.445	93	34782	5.497	ug/l	73
41) Bromodichloromethane	9.633	83	67875	5.396	ug/l	95
42) Vinyl Acetate	6.245	43	753555m	27.157	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.245	43	104733	6.335	ug/l #	79
44) Isopropyl Acetate	8.416	43	144505	5.382	ug/l	98
45) 1,4-Dioxane	9.433	88	24677	107.708	ug/l	92
46) Methyl methacrylate	9.428	41	61240	5.477	ug/l	93
47) n-amyl Acetate	12.269	43	120366	4.898	ug/l	100
48) t-1,3-Dichloropropene	10.598	75	70972	4.648	ug/l	99
49) cis-1,3-Dichloropropene	10.057	75	75876	4.775	ug/l	96
50) 1,1,2-Trichloroethane	10.775	97	48596	5.282	ug/l	93
51) Ethyl methacrylate	10.639	69	85389	4.950	ug/l	96
52) 1,3-Dichloropropane	10.922	76	83741	5.136	ug/l	96
53) Dibromochloromethane	11.116	129	45531	4.683	ug/l	99
54) 1,2-Dibromoethane	11.216	107	46928	4.931	ug/l	99
55) 2-Chloroethyl vinyl ether	9.916	63	161902	24.185	ug/l	98
56) Bromoform	12.333	173	28776	3.786	ug/l	92
58) 4-Methyl-2-Pentanone	10.204	43	480261	29.386	ug/l	98
59) 2-Hexanone	10.963	43	356397	28.155	ug/l	99
61) Tetrachloroethene	10.845	164	29313	4.990	ug/l	87
62) Toluene	10.375	91	195330	5.065	ug/l	100
64) Chlorobenzene	11.645	112	112404	5.087	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.716	131	40779	4.912	ug/l	95
66) Ethyl Benzene	11.722	91	203835	4.978	ug/l	94
67) m/p-Xylenes	11.827	106	149199	9.074	ug/l	99
68) o-Xylene	12.157	106	81716	4.881	ug/l	97
69) Styrene	12.174	104	120865	4.292	ug/l	99
70) Isopropylbenzene	12.457	105	184762	4.326	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.704	83	80471	5.308	ug/l	97
72) 1,2,3-Trichloropropane	12.757	75	68450m	5.964	ug/l	
73) Bromobenzene	12.733	156	41101	4.790	ug/l	97
74) n-propylbenzene	12.798	91	208647	4.336	ug/l	100
75) 2-Chlorotoluene	12.880	91	135284	4.634	ug/l	98
76) 1,3,5-Trimethylbenzene	12.939	105	149636	4.155	ug/l	96
77) t-1,4-Dichloro-2-butene	12.504	75	25509	4.291	ug/l	99
78) 4-Chlorotoluene	12.980	91	118915	4.065	ug/l	98
79) tert-butylbenzene	13.198	119	130327	4.137	ug/l	98
80) 1,2,4-Trimethylbenzene	13.245	105	143308	4.029	ug/l	99
81) sec-Butylbenzene	13.374	105	180425	4.045	ug/l	97
82) p-Isopropyltoluene	13.492	119	138738	3.781	ug/l	97
83) 1,3-Dichlorobenzene	13.492	146	67773	3.843	ug/l	99
84) 1,4-Dichlorobenzene	13.569	146	65194	3.717	ug/l	95
85) n-Butylbenzene	13.821	91	115800	3.699	ug/l	98
86) Hexachloroethane	14.086	117	31003	4.387	ug/l	93
87) 1,2-Dichlorobenzene	13.863	146	70727	3.921	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.480	75	14892	4.690	ug/l	92
89) 1,2,4-Trichlorobenzene	15.133	180	30498	4.053	ug/l	98
90) Hexachlorobutadiene	15.239	225	16669	5.028	ug/l	89
91) Naphthalene	15.368	128	138719	4.395	ug/l	96
92) 1,2,3-Trichlorobenzene	15.557	180	29226m	3.874	ug/l	

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

