

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092822\
 Data File : VN074647.D
 Acq On : 28 Sep 2022 14:49
 Operator : JC\MD
 Sample : N3980-09 2.5PPB MDL
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2022DL

Quant Time: Sep 28 15:09:58 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	7.492	128	99201	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.828	114	595657	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.616	117	507277	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.286	65	295094	31.549	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 105.167%	
60) 4-Bromofluorobenzene	12.604	95	251018	25.475	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 84.900%	
63) Toluene-d8	10.310	98	907905	31.730	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 105.767%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.005	85	15904	2.728	ug/l	81
3) Chloromethane	2.222	50	27909	3.260	ug/l	95
4) Vinyl Chloride	2.357	62	32773	2.990	ug/l	89
5) Bromomethane	2.752	94	30028	4.251	ug/l	87
6) Chloroethane	2.904	64	89343m	11.532	ug/l	
7) Trichlorofluoromethane	3.246	101	26378	2.591	ug/l	100
8) Diethyl Ether	3.681	74	11973	2.230	ug/l	57
9) 1,1,2-Trichlorotrifluo...	4.046	101	17306m	2.652	ug/l	
10) 1,1-Dichloroethene	4.028	96	17512m	2.602	ug/l	
11) Methyl Iodide	4.257	142	18143m	2.105	ug/l	
12) Methyl Acetate	4.663	43	42345m	2.939	ug/l	
13) Acrolein	3.893	56	21605m	18.424	ug/l	
14) Acrylonitrile	5.357	53	70029m	11.991	ug/l	
15) Acetone	4.134	58	23339m	15.216	ug/l	
16) Carbon Disulfide	4.357	76	47750	2.525	ug/l #	82
17) Allyl chloride	4.651	41	34498	2.514	ug/l	88
18) Methylene Chloride	4.910	84	23362m	2.723	ug/l	
19) trans-1,2-Dichloroethene	5.393	96	20411m	2.684	ug/l	
20) Diisopropyl ether	6.304	45	66710	2.222	ug/l #	88
21) 1,1-Dichloroethane	6.192	63	37092	2.447	ug/l #	88
22) cis-1,2-Dichloroethene	7.157	96	23791m	2.593	ug/l	
23) tert-Butyl Alcohol	5.169	59	34367m	14.292	ug/l	
24) Methyl tert-Butyl Ether	5.410	73	63266m	2.269	ug/l	
25) Chloroform	7.651	83	34300m	2.282	ug/l	
26) Cyclohexane	7.934	56	33254	2.440	ug/l #	94
29) 1,1-Dichloropropene	8.069	75	25450	2.287	ug/l	88
30) 2-Butanone	7.163	43	106224	12.514	ug/l #	96
31) 2,2-Dichloropropane	7.157	77	30801	2.319	ug/l #	67
32) 1,1,1-Trichloroethane	7.851	97	27082	2.061	ug/l #	80
33) Carbon Tetrachloride	8.051	117	21747	1.978	ug/l	94
34) Benzene	8.304	78	81277	2.207	ug/l #	18
35) Methacrylonitrile	7.469	41	20833m	2.580	ug/l	
36) 1,2-Dichloroethane	8.375	62	25865	2.151	ug/l #	86
37) Trichloroethene	9.086	130	16254	2.078	ug/l #	72
38) Methylcyclohexane	9.322	83	31721	2.203	ug/l	94
39) 1,2-Dichloropropane	9.357	63	22962	2.355	ug/l	93
40) Dibromomethane	9.439	93	14697	2.336	ug/l	96
41) Bromodichloromethane	9.622	83	24926	1.993	ug/l #	99
42) Vinyl Acetate	6.240	43	317352m	11.502	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.163	43	153385m	9.330	ug/l	
44) Isopropyl Acetate	8.410	43	62082	2.325	ug/l	92
45) 1,4-Dioxane	9.433	88	10388	45.598	ug/l #	86
46) Methyl methacrylate	9.428	41	25959	2.335	ug/l	78
47) n-amyl Acetate	12.269	43	44703	1.830	ug/l	94
48) t-1,3-Dichloropropene	10.598	75	31402	2.068	ug/l	93
49) cis-1,3-Dichloropropene	10.057	75	32859	2.080	ug/l #	89
50) 1,1,2-Trichloroethane	10.769	97	20337	2.223	ug/l #	84
51) Ethyl methacrylate	10.633	69	32100	1.871	ug/l	92
52) 1,3-Dichloropropane	10.916	76	33291	2.053	ug/l	99
53) Dibromochloromethane	11.110	129	18660	1.930	ug/l	92
54) 1,2-Dibromoethane	11.216	107	19291	2.038	ug/l	96
55) 2-Chloroethyl vinyl ether	9.916	63	74089	11.130	ug/l	98
56) Bromoform	12.327	173	11816	1.564	ug/l #	38
58) 4-Methyl-2-Pentanone	10.204	43	192994	12.259	ug/l	98
59) 2-Hexanone	10.957	43	150759	12.364	ug/l	96
61) Tetrachloroethene	10.851	164	13732	2.427	ug/l #	73
62) Toluene	10.375	91	80313	2.162	ug/l	99
64) Chlorobenzene	11.639	112	46842	2.201	ug/l	90
65) 1,1,1,2-Tetrachloroethane	11.716	131	16125	2.016	ug/l	92
66) Ethyl Benzene	11.722	91	82523	2.092	ug/l	91
67) m/p-Xylenes	11.833	106	58298	3.681	ug/l	96
68) o-Xylene	12.151	106	32804	2.034	ug/l	91
69) Styrene	12.169	104	50261	1.853	ug/l	95
70) Isopropylbenzene	12.457	105	77965	1.895	ug/l	95
71) 1,1,2,2-Tetrachloroethane	12.710	83	32079	2.197	ug/l	95
72) 1,2,3-Trichloropropane	12.757	75	22640m	2.048	ug/l	
73) Bromobenzene	12.739	156	17451	2.111	ug/l	85
74) n-propylbenzene	12.798	91	82211	1.774	ug/l	96
75) 2-Chlorotoluene	12.880	91	49108	1.746	ug/l	96
76) 1,3,5-Trimethylbenzene	12.933	105	60178	1.735	ug/l	99
77) t-1,4-Dichloro-2-butene	12.504	75	12158	2.123	ug/l	74
78) 4-Chlorotoluene	12.980	91	46740	1.659	ug/l	99
79) tert-butylbenzene	13.192	119	58669	1.933	ug/l	92
80) 1,2,4-Trimethylbenzene	13.239	105	59651	1.741	ug/l	93
81) sec-Butylbenzene	13.380	105	74936	1.744	ug/l	100
82) p-Isopropyltoluene	13.492	119	57591	1.630	ug/l	97
83) 1,3-Dichlorobenzene	13.486	146	25422	1.497	ug/l	89
84) 1,4-Dichlorobenzene	13.569	146	27164	1.608	ug/l	93
85) n-Butylbenzene	13.821	91	50172	1.664	ug/l	92
86) Hexachloroethane	14.080	117	13229	1.943	ug/l	99
87) 1,2-Dichlorobenzene	13.857	146	28751	1.655	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.474	75	6741	2.204	ug/l #	79
89) 1,2,4-Trichlorobenzene	15.139	180	13404	1.849	ug/l	97
90) Hexachlorobutadiene	15.233	225	6930	2.170	ug/l	83
91) Naphthalene	15.363	128	50698	1.667	ug/l	98
92) 1,2,3-Trichlorobenzene	15.557	180	12596	1.733	ug/l	90

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

