

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071421\
 Data File : VN067727.D
 Acq On : 13 Jul 2021 20:14
 Operator : JC/MD
 Sample : M2940-07 2.5PPB LOD
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2021

Manual Integrations
 APPROVED

MMDadoda
 7/16/2021 10:42:40 AM

Quant Time: Jul 14 01:21:27 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N071421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 14 01:19:19 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	63522	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	382184	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	340933	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	173979	33.902	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 113.000%	#
60) 4-Bromofluorobenzene	12.733	95	149007	26.912	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 89.700%	
63) Toluene-d8	10.443	98	491754	31.360	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 104.533%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.073	85	8717	2.685	ug/l	93
3) Chloromethane	2.301	50	12463	3.074	ug/l	97
4) Vinyl Chloride	2.443	62	18892	2.995	ug/l	99
5) Bromomethane	2.850	94	19555	3.723	ug/l	97
6) Chloroethane	3.019	64	14210	3.025	ug/l	99
7) Trichlorofluoromethane	3.371	101	35509	3.034	ug/l	97
8) Diethyl Ether	3.827	74	5565	2.556	ug/l	67
9) 1,1,2-Trichlorotrifluo...	4.202	101	9157	2.752	ug/l	50
10) 1,1-Dichloroethene	4.173	96	8920	2.895	ug/l	85
11) Methyl Iodide	4.419	142	8542	2.097	ug/l	97
12) Methyl Acetate	4.859	43	13891m	3.303	ug/l	
13) Acrolein	4.041	56	7592m	17.233	ug/l	
14) Acrylonitrile	5.562	53	22146	11.975	ug/l	91
15) Acetone	4.296	58	5833m	12.724	ug/l	
16) Carbon Disulfide	4.527	76	23474	2.885	ug/l	97
17) Allyl chloride	4.840	41	14416m	2.659	ug/l	
18) Methylene Chloride	5.095	84	14273m	3.347	ug/l	
19) trans-1,2-Dichloroethene	5.597	96	9117m	2.481	ug/l	
20) Diisopropyl ether	6.498	45	30270m	2.358	ug/l	
21) 1,1-Dichloroethane	6.388	63	18331	2.595	ug/l #	96
22) cis-1,2-Dichloroethene	7.327	96	11978	2.642	ug/l	89
23) tert-Butyl Alcohol	5.396	59	9305m	13.650	ug/l	
24) Methyl tert-Butyl Ether	5.621	73	31346m	2.464	ug/l	
25) Chloroform	7.817	83	20679	2.631	ug/l	97
26) Cyclohexane	8.094	56	15183	2.467	ug/l #	92
29) 1,1-Dichloropropene	8.225	75	13732	2.290	ug/l	97
30) 2-Butanone	7.348	43	32153	11.579	ug/l #	78
31) 2,2-Dichloropropane	7.332	77	14107m	2.109	ug/l	
32) 1,1,1-Trichloroethane	8.016	97	16677	2.265	ug/l	99
33) Carbon Tetrachloride	8.209	117	13525	2.151	ug/l	96
34) Benzene	8.461	78	42934	2.395	ug/l #	52
35) Methacrylonitrile	7.646	41	6819m	2.389	ug/l	
36) 1,2-Dichloroethane	8.531	62	16368	2.453	ug/l #	84
37) Trichloroethene	9.217	130	11067	2.377	ug/l	98
38) Methylcyclohexane	9.459	83	14995	2.258	ug/l	97
39) 1,2-Dichloropropane	9.494	63	10599	2.319	ug/l	89
40) Dibromomethane	9.577	93	7715	2.347	ug/l	98
41) Bromodichloromethane	9.762	83	13822	2.142	ug/l	94
42) Vinyl Acetate	6.439	43	125047	11.319	ug/l	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.420	43	14400	2.565	ug/l #	73
44) Isopropyl Acetate	8.568	43	22845m	2.241	ug/l	
45) 1,4-Dioxane	9.571	88	3336m	43.218	ug/l	
46) Methyl methacrylate	9.561	41	9558	2.172	ug/l	92
47) n-amyl Acetate	12.393	43	14456	1.728	ug/l	99
48) t-1,3-Dichloropropene	10.722	75	13066	1.879	ug/l	94
49) cis-1,3-Dichloropropene	10.191	75	14284	1.935	ug/l	96
50) 1,1,2-Trichloroethane	10.902	97	10461	2.230	ug/l	97
51) Ethyl methacrylate	10.762	69	13992	1.918	ug/l	94
52) 1,3-Dichloropropane	11.044	76	18042	2.326	ug/l	96
53) Dibromochloromethane	11.237	129	8434	1.718	ug/l	95
54) 1,2-Dibromoethane	11.350	107	10880	2.249	ug/l	96
55) 2-Chloroethyl vinyl ether	10.043	63	12828	9.093	ug/l	96
56) Bromoform	12.465	173	5112	1.486	ug/l #	100
58) 4-Methyl-2-Pentanone	10.333	43	68515	11.704	ug/l	100
59) 2-Hexanone	11.089	43	45397	11.060	ug/l	100
61) Tetrachloroethene	10.982	164	10169	2.428	ug/l	96
62) Toluene	10.507	91	51724	2.579	ug/l	98
64) Chlorobenzene	11.773	112	28216	2.349	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.843	131	8878	2.006	ug/l	97
66) Ethyl Benzene	11.848	91	49922	2.250	ug/l	96
67) m/p-Xylenes	11.956	106	36892	4.359	ug/l	98
68) o-Xylene	12.283	106	17726	2.122	ug/l	95
69) Styrene	12.299	104	25262	1.828	ug/l	93
70) Isopropylbenzene	12.581	105	44238	2.052	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.830	83	13700	2.238	ug/l	98
72) 1,2,3-Trichloropropane	12.884	75	12088m	2.375	ug/l	
73) Bromobenzene	12.868	156	10037	2.025	ug/l	94
74) n-propylbenzene	12.924	91	49868	2.018	ug/l	98
75) 2-Chlorotoluene	13.010	91	31157	2.101	ug/l	98
76) 1,3,5-Trimethylbenzene	13.061	105	37083	2.089	ug/l	96
77) t-1,4-Dichloro-2-butene	12.624	75	2593	1.510	ug/l	93
78) 4-Chlorotoluene	13.109	91	29430	1.991	ug/l	98
79) tert-butylbenzene	13.326	119	29616	1.943	ug/l	99
80) 1,2,4-Trimethylbenzene	13.369	105	34013	1.930	ug/l #	82
81) sec-Butylbenzene	13.506	105	41573	1.966	ug/l	100
82) p-Isopropyltoluene	13.619	119	33126	1.882	ug/l	98
83) 1,3-Dichlorobenzene	13.616	146	17351	1.875	ug/l	98
84) 1,4-Dichlorobenzene	13.696	146	17027	1.889	ug/l	97
85) n-Butylbenzene	13.946	91	27024	1.851	ug/l	97
86) Hexachloroethane	14.209	117	4666	1.594	ug/l	89
87) 1,2-Dichlorobenzene	13.991	146	16876	1.910	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.605	75	1819	1.661	ug/l	95
89) 1,2,4-Trichlorobenzene	15.265	180	6638	1.648	ug/l	94
90) Hexachlorobutadiene	15.373	225	3422	1.767	ug/l	94
91) Naphthalene	15.507	128	19665	1.718	ug/l	100
92) 1,2,3-Trichlorobenzene	15.702	180	6755	1.750	ug/l	97

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

