

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032422\
 Data File : VN071519.D
 Acq On : 24 Mar 2022 14:05
 Operator : JC\MD
 Sample : N1645-07 2.5PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2022

Quant Time: Mar 24 14:33:51 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 24 12:03:44 2022
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/25/2022
 Supervised By : Mahesh Dadoda 03/25/2022

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

Internal Standards						
1) Bromochloromethane	7.657	128	106925	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	591526	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	508131	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	230857	30.644	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.133%			
60) 4-Bromofluorobenzene	12.727	95	205268	27.244	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 90.800%			
63) Toluene-d8	10.439	98	717588	31.110	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.700%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.069	85	15632	2.349	ug/l	91
3) Chloromethane	2.299	50	22330	2.847	ug/l	97
4) Vinyl Chloride	2.440	62	22930	2.549	ug/l	96
5) Bromomethane	2.863	94	20395	3.848	ug/l	97
6) Chloroethane	3.022	64	11688	2.029	ug/l	93
7) Trichlorofluoromethane	3.375	101	26752	2.551	ug/l	96
8) Diethyl Ether	3.834	74	11283	2.560	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.204	101	16856m	2.684	ug/l	
10) 1,1-Dichloroethene	4.187	96	16233	2.620	ug/l	96
11) Methyl Iodide	4.428	142	20487	2.257	ug/l	87
12) Methyl Acetate	4.857	43	27148	3.110	ug/l #	87
13) Acrolein	4.045	56	13803	14.862	ug/l	97
14) Acrylonitrile	5.557	53	47704	12.065	ug/l	97
15) Acetone	4.292	58	13415	11.790	ug/l	89
16) Carbon Disulfide	4.534	76	42078	2.609	ug/l	98
17) Allyl chloride	4.840	41	21504	2.140	ug/l	84
18) Methylene Chloride	5.087	84	21349m	2.873	ug/l	
19) trans-1,2-Dichloroethene	5.598	96	17194	2.595	ug/l	95
20) Diisopropyl ether	6.486	45	49873	2.372	ug/l #	95
21) 1,1-Dichloroethane	6.381	63	32593	2.568	ug/l	99
22) cis-1,2-Dichloroethene	7.322	96	20278	2.519	ug/l #	20
23) tert-Butyl Alcohol	5.357	59	16060	11.383	ug/l #	100
24) Methyl tert-Butyl Ether	5.616	73	54845	2.453	ug/l	96
25) Chloroform	7.816	83	34150	2.675	ug/l	92
26) Cyclohexane	8.092	56	26883	2.450	ug/l #	99
29) 1,1-Dichloropropene	8.216	75	23785	2.484	ug/l	98
30) 2-Butanone	7.333	43	63751	11.962	ug/l	100
31) 2,2-Dichloropropane	7.322	77	25695	2.356	ug/l	98
32) 1,1,1-Trichloroethane	8.004	97	28042	2.515	ug/l	94
33) Carbon Tetrachloride	8.204	117	22740	2.409	ug/l	96
34) Benzene	8.457	78	75387	2.534	ug/l #	76
35) Methacrylonitrile	7.628	41	13042	2.551	ug/l	90
36) 1,2-Dichloroethane	8.527	62	27114	2.613	ug/l	97
37) Trichloroethene	9.210	130	20235	2.636	ug/l	93
38) Methylcyclohexane	9.457	83	28894	2.394	ug/l	97
39) 1,2-Dichloropropane	9.486	63	18557	2.493	ug/l	99
40) Dibromomethane	9.574	93	13143	2.609	ug/l	87
41) Bromodichloromethane	9.757	83	23984	2.379	ug/l	93
42) Vinyl Acetate	6.428	43	210511	11.528	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	24507	2.371	ug/l #	81
44) Isopropyl Acetate	8.557	43	45862	2.767	ug/l #	89
45) 1,4-Dioxane	9.569	88	7494	44.812	ug/l	90
46) Methyl methacrylate	9.557	41	14928	2.054	ug/l	84
47) n-amyl Acetate	12.386	43	19680	1.779	ug/l #	90
48) t-1,3-Dichloropropene	10.716	75	24521	2.238	ug/l	99
49) cis-1,3-Dichloropropene	10.186	75	27305	2.279	ug/l	93
50) 1,1,2-Trichloroethane	10.892	97	18859	2.504	ug/l	95
51) Ethyl methacrylate	10.757	69	24164	2.078	ug/l	91
52) 1,3-Dichloropropane	11.045	76	32354	2.516	ug/l	99
53) Dibromochloromethane	11.233	129	17729	2.274	ug/l	96
54) 1,2-Dibromoethane	11.339	107	19056	2.460	ug/l	99
55) 2-Chloroethyl vinyl ether	10.039	63	28398	9.064	ug/l	98
56) Bromoform	12.451	173	12703	2.113	ug/l #	99
58) 4-Methyl-2-Pentanone	10.327	43	116958	12.125	ug/l	95
59) 2-Hexanone	11.086	43	81200	11.530	ug/l	94
61) Tetrachloroethene	10.969	164	16783	2.714	ug/l	89
62) Toluene	10.504	91	81147	2.634	ug/l	98
64) Chlorobenzene	11.768	112	50614	2.663	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.839	131	17487	2.508	ug/l	96
66) Ethyl Benzene	11.839	91	78545	2.346	ug/l	95
67) m/p-Xylenes	11.951	106	58290	4.475	ug/l	96
68) o-Xylene	12.280	106	29716	2.295	ug/l	93
69) Styrene	12.292	104	41123	2.018	ug/l	99
70) Isopropylbenzene	12.574	105	70505	2.170	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.821	83	28426	2.688	ug/l	98
72) 1,2,3-Trichloropropane	12.874	75	23635m	2.601	ug/l	
73) Bromobenzene	12.857	156	18553	2.340	ug/l	98
74) n-propylbenzene	12.915	91	74983	2.114	ug/l	98
75) 2-Chlorotoluene	13.004	91	51155	2.308	ug/l	96
76) 1,3,5-Trimethylbenzene	13.057	105	54369	2.086	ug/l	94
77) t-1,4-Dichloro-2-butene	12.615	75	5711	1.790	ug/l	89
78) 4-Chlorotoluene	13.104	91	45537	2.200	ug/l	98
79) tert-butylbenzene	13.315	119	53986	2.295	ug/l	94
80) 1,2,4-Trimethylbenzene	13.362	105	50496	1.996	ug/l #	80
81) sec-Butylbenzene	13.498	105	65834	2.083	ug/l	97
82) p-Isopropyltoluene	13.610	119	47385	1.845	ug/l	97
83) 1,3-Dichlorobenzene	13.610	146	30148	2.324	ug/l	97
84) 1,4-Dichlorobenzene	13.692	146	27974	2.259	ug/l	97
85) n-Butylbenzene	13.939	91	35101	1.840	ug/l	97
86) Hexachloroethane	14.204	117	9917	2.068	ug/l	72
87) 1,2-Dichlorobenzene	13.986	146	29043	2.316	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.598	75	3993	2.122	ug/l	86
89) 1,2,4-Trichlorobenzene	15.256	180	10456	1.804	ug/l	90
90) Hexachlorobutadiene	15.368	225	8374	2.438	ug/l	96
91) Naphthalene	15.504	128	21496	7.839	ug/l	98
92) 1,2,3-Trichlorobenzene	15.698	180	10094	1.775	ug/l	96

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

