

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX031220\
 Data File : VX015232.D
 Acq On : 12 Mar 2020 13:01
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 3/16/2020 11:43:39 AM

Quant Time: Mar 12 14:06:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031220W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 12 13:54:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	49043	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	275117	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	259727	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	98458	28.87	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.23%
60) 4-Bromofluorobenzene	11.13	95	125033	30.91	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.03%
63) Toluene-d8	8.71	98	333769	29.47	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.23%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	231655	105.777	ug/l 99
3) Chloromethane	1.32	50	332895	117.556	ug/l 99
4) Vinyl Chloride	1.40	62	346043	113.542	ug/l 99
5) Bromomethane	1.63	94	222639	104.317	ug/l 96
6) Chloroethane	1.72	64	217837	106.702	ug/l 98
7) Trichlorofluoromethane	1.92	101	441535	99.543	ug/l 96
8) Diethyl Ether	2.18	74	195471	104.758	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	265936	103.701	ug/l 99
10) 1,1-Dichloroethene	2.37	96	271777	105.417	ug/l 100
11) Methyl Iodide	2.50	142	336498	107.418	ug/l 97
12) Methyl Acetate	2.76	43	343657	107.120	ug/l 100
13) Acrolein	2.28	56	253770	397.733	ug/l 98
14) Acrylonitrile	3.13	53	796343	549.640	ug/l 100
15) Acetone	2.43	58	211643	408.181	ug/l 97
16) Carbon Disulfide	2.56	76	787452	113.599	ug/l 99
17) Allyl chloride	2.72	41	525529	117.183	ug/l 99
18) Methylene Chloride	2.85	84	308106	103.724	ug/l 98
19) trans-1,2-Dichloroethene	3.16	96	301485	106.466	ug/l 94
20) Diisopropyl ether	3.84	45	1033749	112.868	ug/l 96
21) 1,1-Dichloroethane	3.69	63	541617	107.877	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	341447	105.369	ug/l 97
23) tert-Butyl Alcohol	3.03	59	307218	534.921	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	908071	105.868	ug/l 100
25) Chloroform	5.20	83	519844	102.675	ug/l 100
26) Cyclohexane	5.58	56	514178	114.586	ug/l # 100
29) 1,1-Dichloropropene	5.79	75	410916	105.597	ug/l 99
30) 2-Butanone	4.65	43	1098856	489.226	ug/l 100
31) 2,2-Dichloropropane	4.58	77	431842	101.064	ug/l 97
32) 1,1,1-Trichloroethane	5.48	97	445426	100.796	ug/l 99
33) Carbon Tetrachloride	5.78	117	389275	100.630	ug/l 97
34) Benzene	6.14	78	1247356	106.230	ug/l 99
35) Methacrylonitrile	5.03	41	249360	108.833	ug/l 99
36) 1,2-Dichloroethane	6.19	62	404030	97.210	ug/l 100
37) Trichloroethene	7.20	130	344408	104.467	ug/l 96
38) Methylcyclohexane	7.46	83	512154	106.181	ug/l 99
39) 1,2-Dichloropropane	7.51	63	328511	108.691	ug/l 97
40) Dibromomethane	7.65	93	204799	101.476	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	418492	104.971	ug/l	96
42) Vinyl Acetate	3.80	43	4418553	558.895	ug/l	100
43) Ethyl Acetate	4.82	43	434382	106.883	ug/l	99
44) Isopropyl Acetate	6.43	43	722944	105.817	ug/l	99
45) 1,4-Dioxane	7.73	88	146749	2324.599	ug/l	98
46) Methyl methacrylate	7.76	41	368282	108.962	ug/l	97
47) n-amyl Acetate	10.89	43	674526	113.966	ug/l	96
48) t-1,3-Dichloropropene	9.04	75	477608	107.979	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	527101	108.244	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	307954	102.418	ug/l	96
51) Ethyl methacrylate	9.17	69	507143	109.279	ug/l	98
52) 1,3-Dichloropropane	9.37	76	525821	103.374	ug/l	100
53) Dibromochloromethane	9.58	129	341762	105.129	ug/l	96
54) 1,2-Dibromoethane	9.67	107	324865	101.763	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	1280859	518.128	ug/l	100
56) Bromoform	10.85	173	269199	105.635	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	2176048	511.217	ug/l	100
59) 2-Hexanone	9.49	43	1637300	492.298	ug/l	99
61) Tetrachloroethene	9.33	164	340248	97.535	ug/l	98
62) Toluene	8.78	91	1333680	100.251	ug/l	100
64) Chlorobenzene	10.14	112	846531	99.692	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.21	131	314050	99.847	ug/l	99
66) Ethyl Benzene	10.25	91	1512118	103.183	ug/l	100
67) m/p-Xylenes	10.36	106	1151114	203.702	ug/l	99
68) o-Xylene	10.70	106	554484	101.409	ug/l	97
69) Styrene	10.71	104	973062	104.200	ug/l	100
70) Isopropylbenzene	11.01	105	1465099	100.875	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	461563	98.702	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	380177m	98.011	ug/l	
73) Bromobenzene	11.25	156	393886	100.367	ug/l	98
74) n-propylbenzene	11.35	91	1722019	104.173	ug/l	99
75) 2-Chlorotoluene	11.42	91	994857	101.842	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	1244804	102.267	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	172746	110.442	ug/l	91
78) 4-Chlorotoluene	11.51	91	1154975	102.214	ug/l	100
79) tert-butylbenzene	11.76	119	1176920	100.081	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	1237600	102.271	ug/l	99
81) sec-Butylbenzene	11.94	105	1456350	103.412	ug/l	100
82) p-Isopropyltoluene	12.06	119	1357804	103.780	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	704312	102.378	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	711132	102.651	ug/l	100
85) n-Butylbenzene	12.39	91	1225313	107.623	ug/l	99
86) Hexachloroethane	12.59	117	245241	103.701	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	685210	100.093	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	101301	99.467	ug/l	98
89) 1,2,4-Trichlorobenzene	13.64	180	525201	106.684	ug/l	100
90) Hexachlorobutadiene	13.78	225	258344	105.667	ug/l	99
91) Naphthalene	13.83	128	1494871	107.256	ug/l	98
92) 1,2,3-Trichlorobenzene	14.01	180	511348	104.620	ug/l	100

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

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