

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX121919\
 Data File : VX014137.D
 Acq On : 19 Dec 2019 21:40
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

apatel
 12/20/2019 10:24:45 AM

Quant Time: Dec 20 03:51:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 13 01:35:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	86730	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	479805	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	437162	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	181743	29.26	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.53%
60) 4-Bromofluorobenzene	11.13	95	207136	29.34	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.80%
63) Toluene-d8	8.71	98	593551	30.38	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	76334	17.424	ug/l 99
3) Chloromethane	1.32	50	114064	18.472	ug/l 99
4) Vinyl Chloride	1.40	62	116766	18.447	ug/l 99
5) Bromomethane	1.64	94	80550	17.408	ug/l 97
6) Chloroethane	1.72	64	74038	18.936	ug/l 96
7) Trichlorofluoromethane	1.92	101	148938	18.909	ug/l 97
8) Diethyl Ether	2.18	74	68304	18.866	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	86343	18.380	ug/l 97
10) 1,1-Dichloroethene	2.37	96	90055	18.542	ug/l 98
11) Methyl Iodide	2.50	142	100579	16.087	ug/l 97
12) Methyl Acetate	2.76	43	144874	19.269	ug/l 99
13) Acrolein	2.28	56	95277	104.481	ug/l 96
14) Acrylonitrile	3.13	53	284557	96.813	ug/l 99
15) Acetone	2.43	58	90081	104.328	ug/l 87
16) Carbon Disulfide	2.56	76	248110	18.858	ug/l 97
17) Allyl chloride	2.72	41	159904	18.323	ug/l 95
18) Methylene Chloride	2.85	84	106006	17.813	ug/l 97
19) trans-1,2-Dichloroethene	3.16	96	98247	18.473	ug/l 97
20) Diisopropyl ether	3.84	45	343541	19.184	ug/l 100
21) 1,1-Dichloroethane	3.69	63	180633	18.586	ug/l 98
22) cis-1,2-Dichloroethene	4.59	96	112412	18.233	ug/l 97
23) tert-Butyl Alcohol	3.03	59	119123	103.329	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	308089	18.779	ug/l 100
25) Chloroform	5.20	83	175559	18.947	ug/l 96
26) Cyclohexane	5.57	56	159500	18.405	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	133472	19.258	ug/l 99
30) 2-Butanone	4.66	43	411718	100.786	ug/l 100
31) 2,2-Dichloropropane	4.58	77	124515	19.422	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	146088	19.057	ug/l 98
33) Carbon Tetrachloride	5.78	117	120959	18.562	ug/l 98
34) Benzene	6.14	78	413404	19.130	ug/l 99
35) Methacrylonitrile	5.03	41	86754	19.746	ug/l 95
36) 1,2-Dichloroethane	6.18	62	142367	18.965	ug/l 99
37) Trichloroethene	7.21	130	109103	18.554	ug/l 98
38) Methylcyclohexane	7.46	83	155824	18.849	ug/l 99
39) 1,2-Dichloropropane	7.51	63	107210	19.101	ug/l 98
40) Dibromomethane	7.65	93	68672	19.152	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	130221	18.756	ug/l	100
42) Vinyl Acetate	3.80	43	1268586	87.958	ug/l	99
43) Ethyl Acetate	4.83	43	156228	19.931	ug/l	96
44) Isopropyl Acetate	6.43	43	249373	18.995	ug/l	98
45) 1,4-Dioxane	7.73	88	53038	431.404	ug/l	97
46) Methyl methacrylate	7.76	41	120792	18.942	ug/l	97
47) n-amyl Acetate	10.89	43	212332	18.189	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	141755	18.707	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	160358	18.817	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	105927	19.142	ug/l	99
51) Ethyl methacrylate	9.17	69	164443	18.682	ug/l	96
52) 1,3-Dichloropropane	9.37	76	176245	18.746	ug/l	100
53) Dibromochloromethane	9.57	129	104570	18.898	ug/l	98
54) 1,2-Dibromoethane	9.67	107	108924	19.118	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	387886	99.968	ug/l	99
56) Bromoform	10.85	173	78163	18.114	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	789949	96.577	ug/l	99
59) 2-Hexanone	9.48	43	601997	96.981	ug/l	99
61) Tetrachloroethene	9.33	164	136091	23.532	ug/l	98
62) Toluene	8.78	91	445214	19.148	ug/l	100
64) Chlorobenzene	10.14	112	271946	18.669	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.21	131	98958	18.347	ug/l	99
66) Ethyl Benzene	10.25	91	481859	18.938	ug/l	98
67) m/p-Xylenes	10.35	106	361601	37.176	ug/l	99
68) o-Xylene	10.70	106	177392	18.410	ug/l	99
69) Styrene	10.71	104	299873	18.300	ug/l	99
70) Isopropylbenzene	11.01	105	465170	18.681	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	155011	17.554	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	150512m	19.149	ug/l	
73) Bromobenzene	11.25	156	120785	18.171	ug/l	99
74) n-propylbenzene	11.35	91	520489	18.429	ug/l	99
75) 2-Chlorotoluene	11.42	91	314712	18.442	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	381183	18.046	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	45891	17.680	ug/l	93
78) 4-Chlorotoluene	11.51	91	350062	17.952	ug/l	98
79) tert-butylbenzene	11.76	119	349035	17.143	ug/l	95
80) 1,2,4-Trimethylbenzene	11.80	105	387721	18.357	ug/l	99
81) sec-Butylbenzene	11.94	105	438189	18.094	ug/l	99
82) p-Isopropyltoluene	12.06	119	393006	17.983	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	208646	18.008	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	207768	18.009	ug/l	99
85) n-Butylbenzene	12.39	91	323087	17.583	ug/l	99
86) Hexachloroethane	12.59	117	67839	17.111	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	213640	18.154	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	33105	18.809	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	135236	17.980	ug/l	98
90) Hexachlorobutadiene	13.78	225	66168	18.508	ug/l	99
91) Naphthalene	13.83	128	427601	18.915	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	140958	18.477	ug/l	100

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

