

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041720\
 Data File : VX015730.D
 Acq On : 17 Apr 2020 11:11
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 4/20/2020 10:57:00 AM

Quant Time: Apr 20 01:28:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 26 02:31:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	174312	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	6.83	114	992136	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	908694	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	397355	29.17	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.23%
60) 4-Bromofluorobenzene	11.12	95	463578	29.81	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.37%
63) Toluene-d8	8.70	98	1146096	29.69	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	142040	17.063	ug/l 99
3) Chloromethane	1.31	50	184008	17.911	ug/l 98
4) Vinyl Chloride	1.39	62	186632	18.884	ug/l 100
5) Bromomethane	1.63	94	145393	27.634	ug/l 95
6) Chloroethane	1.72	64	122396	19.850	ug/l 100
7) Trichlorofluoromethane	1.92	101	260245	18.426	ug/l 99
8) Diethyl Ether	2.17	74	108756	20.014	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	177777	19.025	ug/l 99
10) 1,1-Dichloroethene	2.36	96	176372	18.582	ug/l 96
11) Methyl Iodide	2.49	142	143755	11.397	ug/l 95
12) Methyl Acetate	2.75	43	254604	18.332	ug/l 94
13) Acrolein	2.27	56	234708	129.907	ug/l 95
14) Acrylonitrile	3.11	53	555317	93.395	ug/l 100
15) Acetone	2.42	58	148813	98.426	ug/l 94
16) Carbon Disulfide	2.55	76	481351	17.348	ug/l 100
17) Allyl chloride	2.70	41	371766	17.349	ug/l 98
18) Methylene Chloride	2.83	84	202603	19.013	ug/l 97
19) trans-1,2-Dichloroethene	3.14	96	196477	19.136	ug/l 99
20) Diisopropyl ether	3.82	45	719553	18.722	ug/l 93
21) 1,1-Dichloroethane	3.67	63	366288	18.670	ug/l 99
22) cis-1,2-Dichloroethene	4.56	96	227225	19.210	ug/l 97
23) tert-Butyl Alcohol	3.00	59	242585	82.945	ug/l 100
24) Methyl tert-Butyl Ether	3.17	73	652046	18.503	ug/l 98
25) Chloroform	5.18	83	363863	18.763	ug/l 99
26) Cyclohexane	5.55	56	339352	18.104	ug/l # 98
29) 1,1-Dichloropropene	5.77	75	279380	18.743	ug/l 100
30) 2-Butanone	4.63	43	805682	90.166	ug/l 99
31) 2,2-Dichloropropane	4.55	77	327065	18.234	ug/l 100
32) 1,1,1-Trichloroethane	5.47	97	332744	18.296	ug/l 99
33) Carbon Tetrachloride	5.75	117	290150	17.507	ug/l 98
34) Benzene	6.11	78	820118	19.090	ug/l 98
35) Methacrylonitrile	5.01	41	180317	17.795	ug/l 97
36) 1,2-Dichloroethane	6.17	62	317755	19.141	ug/l 97
37) Trichloroethene	7.19	130	228177	18.863	ug/l 98
38) Methylcyclohexane	7.44	83	342381	18.737	ug/l 98
39) 1,2-Dichloropropane	7.49	63	214255	18.568	ug/l 94
40) Dibromomethane	7.64	93	140193	18.253	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	288669	17.294	ug/l	99
42) Vinyl Acetate	3.78	43	3168145	93.574	ug/l	100
43) Ethyl Acetate	4.79	43	315779	16.246	ug/l	98
44) Isopropyl Acetate	6.41	43	537485	17.183	ug/l	99
45) 1,4-Dioxane	7.72	88	102531	355.807	ug/l	97
46) Methyl methacrylate	7.75	41	261237	16.736	ug/l	98
47) n-amyl Acetate	10.88	43	453633	16.819	ug/l	98
48) t-1,3-Dichloropropene	9.03	75	327899	17.016	ug/l	97
49) cis-1,3-Dichloropropene	8.42	75	352662	17.731	ug/l	96
50) 1,1,2-Trichloroethane	9.20	97	203830	18.492	ug/l	97
51) Ethyl methacrylate	9.16	69	329522	17.383	ug/l	98
52) 1,3-Dichloropropane	9.36	76	355782	18.688	ug/l	98
53) Dibromochloromethane	9.56	129	229093	16.861	ug/l	99
54) 1,2-Dibromoethane	9.65	107	215409	18.213	ug/l	98
55) 2-Chloroethyl vinyl ether	8.29	63	832109	92.938	ug/l	100
56) Bromoform	10.84	173	180007	16.112	ug/l	100
58) 4-Methyl-2-Pentanone	8.62	43	1576157	90.629	ug/l	99
59) 2-Hexanone	9.47	43	1173168	88.671	ug/l	98
61) Tetrachloroethene	9.32	164	227542	19.481	ug/l	94
62) Toluene	8.76	91	881794	19.159	ug/l	99
64) Chlorobenzene	10.12	112	577183	19.505	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.20	131	207444	17.155	ug/l	99
66) Ethyl Benzene	10.24	91	995685	18.936	ug/l	98
67) m/p-Xylenes	10.34	106	760941	38.236	ug/l	97
68) o-Xylene	10.68	106	366080	18.819	ug/l	99
69) Styrene	10.70	104	637726	18.817	ug/l	99
70) Isopropylbenzene	11.00	105	985106	19.103	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	303354	18.150	ug/l	98
72) 1,2,3-Trichloropropane	11.28	75	281311m	17.988	ug/l	
73) Bromobenzene	11.24	156	269062	19.437	ug/l	94
74) n-propylbenzene	11.34	91	1135513	19.198	ug/l	98
75) 2-Chlorotoluene	11.40	91	682743	18.979	ug/l	98
76) 1,3,5-Trimethylbenzene	11.49	105	844542	19.071	ug/l	97
77) t-1,4-Dichloro-2-butene	11.06	75	100424	14.901	ug/l	93
78) 4-Chlorotoluene	11.49	91	808321	19.422	ug/l	98
79) tert-butylbenzene	11.76	119	836521	18.900	ug/l	100
80) 1,2,4-Trimethylbenzene	11.79	105	858426	19.135	ug/l	99
81) sec-Butylbenzene	11.93	105	980351	19.309	ug/l	100
82) p-Isopropyltoluene	12.05	119	939992	19.643	ug/l	98
83) 1,3-Dichlorobenzene	12.01	146	484098	19.449	ug/l	98
84) 1,4-Dichlorobenzene	12.08	146	491134	19.772	ug/l	99
85) n-Butylbenzene	12.37	91	831038	19.484	ug/l	99
86) Hexachloroethane	12.58	117	149977	16.216	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	466981	19.230	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.98	75	70928	16.111	ug/l	98
89) 1,2,4-Trichlorobenzene	13.63	180	368381	18.831	ug/l	99
90) Hexachlorobutadiene	13.77	225	172515	16.741	ug/l	100
91) Naphthalene	13.82	128	1055229	18.628	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	352051	18.116	ug/l	97

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

