

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041720\
 Data File : VX015755.D
 Acq On : 17 Apr 2020 21:41
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 4/20/2020 10:03:20 AM

Quant Time: Apr 20 06:50:15 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	4.99	128	176550	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	988043	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	913617	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	392010	28.41	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.70%
60) 4-Bromofluorobenzene	11.12	95	460367	29.44	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.13%
63) Toluene-d8	8.70	98	1146144	29.53	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.43%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	127421	15.113	ug/l 99
3) Chloromethane	1.31	50	161721	15.542	ug/l 99
4) Vinyl Chloride	1.39	62	179897	17.972	ug/l 95
5) Bromomethane	1.63	94	38172	7.163	ug/l 98
6) Chloroethane	1.72	64	129465	20.731	ug/l 100
7) Trichlorofluoromethane	1.92	101	252989	17.685	ug/l 98
8) Diethyl Ether	2.17	74	109437	19.884	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	169304	17.889	ug/l 98
10) 1,1-Dichloroethene	2.36	96	177431	18.457	ug/l 97
11) Methyl Iodide	2.50	142	53974	4.225	ug/l 97
12) Methyl Acetate	2.75	43	265035	18.841	ug/l 92
13) Acrolein	2.27	56	125773	68.731	ug/l 96
14) Acrylonitrile	3.12	53	574632	95.418	ug/l 98
15) Acetone	2.42	58	142821	93.266	ug/l 87
16) Carbon Disulfide	2.55	76	2144900	76.324	ug/l 99
17) Allyl chloride	2.71	41	360041	16.589	ug/l 99
18) Methylene Chloride	2.84	84	201608	18.679	ug/l 97
19) trans-1,2-Dichloroethene	3.15	96	195424	18.792	ug/l 93
20) Diisopropyl ether	3.83	45	719663	18.487	ug/l 87
21) 1,1-Dichloroethane	3.67	63	364745	18.356	ug/l 99
22) cis-1,2-Dichloroethene	4.57	96	228354	19.061	ug/l 94
23) tert-Butyl Alcohol	3.01	59	237909	80.315	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	658886	18.460	ug/l 97
25) Chloroform	5.18	83	365377	18.602	ug/l 100
26) Cyclohexane	5.56	56	326292	17.186	ug/l # 99
29) 1,1-Dichloropropene	5.78	75	275778	18.578	ug/l 99
30) 2-Butanone	4.64	43	817553	91.873	ug/l 99
31) 2,2-Dichloropropane	4.55	77	272262	15.241	ug/l 99
32) 1,1,1-Trichloroethane	5.47	97	317781	17.546	ug/l # 81
33) Carbon Tetrachloride	5.76	117	281229	17.039	ug/l 95
34) Benzene	6.12	78	802284	18.752	ug/l 100
35) Methacrylonitrile	5.01	41	188557	18.686	ug/l 97
36) 1,2-Dichloroethane	6.17	62	304928	18.445	ug/l 97
37) Trichloroethene	7.20	130	236435	19.627	ug/l 96
38) Methylcyclohexane	7.45	83	314869	17.303	ug/l 98
39) 1,2-Dichloropropane	7.50	63	213947	18.618	ug/l 97
40) Dibromomethane	7.64	93	141179	18.457	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	284667	17.125	ug/l	97
42) Vinyl Acetate	3.79	43	3181263	94.351	ug/l	100
43) Ethyl Acetate	4.80	43	330470	17.073	ug/l	99
44) Isopropyl Acetate	6.42	43	551639	17.708	ug/l	98
45) 1,4-Dioxane	7.72	88	94859	330.547	ug/l #	91
46) Methyl methacrylate	7.75	41	271776	17.483	ug/l	95
47) n-amyl Acetate	10.88	43	470612	17.521	ug/l	98
48) t-1,3-Dichloropropene	9.03	75	319178	16.632	ug/l	98
49) cis-1,3-Dichloropropene	8.42	75	342419	17.287	ug/l	95
50) 1,1,2-Trichloroethane	9.20	97	206731	18.833	ug/l	98
51) Ethyl methacrylate	9.16	69	343446	18.192	ug/l	98
52) 1,3-Dichloropropane	9.36	76	355946	18.774	ug/l	97
53) Dibromochloromethane	9.57	129	238137	17.599	ug/l	96
54) 1,2-Dibromoethane	9.65	107	220467	18.718	ug/l	98
55) 2-Chloroethyl vinyl ether	8.29	63	788632	88.447	ug/l	100
56) Bromoform	10.84	173	176914	15.901	ug/l #	96
58) 4-Methyl-2-Pentanone	8.62	43	1634964	93.504	ug/l	98
59) 2-Hexanone	9.47	43	1220977	91.787	ug/l	97
61) Tetrachloroethene	9.32	164	220759	18.799	ug/l	97
62) Toluene	8.77	91	878303	18.980	ug/l	99
64) Chlorobenzene	10.12	112	557542	18.739	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	213518	17.562	ug/l	96
66) Ethyl Benzene	10.24	91	999811	18.912	ug/l	100
67) m/p-Xylenes	10.34	106	744226	37.195	ug/l	99
68) o-Xylene	10.68	106	369617	18.899	ug/l	94
69) Styrene	10.70	104	642812	18.865	ug/l	97
70) Isopropylbenzene	11.01	105	971429	18.736	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	318672	18.964	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	271841m	17.289	ug/l	
73) Bromobenzene	11.24	156	263690	18.946	ug/l	96
74) n-propylbenzene	11.34	91	1117951	18.799	ug/l	99
75) 2-Chlorotoluene	11.40	91	671340	18.561	ug/l	97
76) 1,3,5-Trimethylbenzene	11.49	105	827099	18.576	ug/l	98
77) t-1,4-Dichloro-2-butene	11.06	75	63992	9.444	ug/l	91
78) 4-Chlorotoluene	11.49	91	794151	18.979	ug/l	99
79) tert-butylbenzene	11.76	119	799537	17.967	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	834820	18.509	ug/l	98
81) sec-Butylbenzene	11.93	105	924372	18.108	ug/l	99
82) p-Isopropyltoluene	12.05	119	886382	18.423	ug/l	98
83) 1,3-Dichlorobenzene	12.01	146	475562	19.003	ug/l	98
84) 1,4-Dichlorobenzene	12.08	146	483133	19.345	ug/l	98
85) n-Butylbenzene	12.37	91	774110	18.051	ug/l	99
86) Hexachloroethane	12.58	117	111298	11.969	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	467787	19.160	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	70520	15.932	ug/l	93
89) 1,2,4-Trichlorobenzene	13.63	180	359146	18.260	ug/l	99
90) Hexachlorobutadiene	13.77	225	156328	15.088	ug/l	98
91) Naphthalene	13.82	128	1120586	19.675	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	360670	18.459	ug/l	99

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

