

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072720\
 Data File : VX017608.D
 Acq On : 27 Jul 2020 09:46
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 7/28/2020 10:31:45 AM

Quant Time: Jul 27 11:40:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072720W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jul 27 11:26:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	112464	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	554841	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	483766	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	248796	30.63	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.10%
60) 4-Bromofluorobenzene	11.12	95	262826	31.42	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	104.73%
63) Toluene-d8	8.70	98	737646	34.86	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	116.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	181383	31.325	ug/l 100
3) Chloromethane	1.31	50	173317	28.955	ug/l 100
4) Vinyl Chloride	1.39	62	175248	28.433	ug/l 100
5) Bromomethane	1.63	94	114826	28.640	ug/l 100
6) Chloroethane	1.72	64	98372	25.370	ug/l 100
7) Trichlorofluoromethane	1.92	101	266534	25.676	ug/l 100
8) Diethyl Ether	2.17	74	71911	20.660	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	116222	21.525	ug/l 100
10) 1,1-Dichloroethene	2.36	96	106703	20.193	ug/l 100
11) Methyl Iodide	2.49	142	125218	19.678	ug/l 100
12) Methyl Acetate	2.75	43	165585	22.099	ug/l 100
13) Acrolein	2.27	56	113253	116.283	ug/l 100
14) Acrylonitrile	3.12	53	340836	102.677	ug/l 100
15) Acetone	2.42	58	93026	108.419	ug/l 100
16) Carbon Disulfide	2.55	76	292494	20.604	ug/l 100
17) Allyl chloride	2.71	41	202468	20.466	ug/l 100
18) Methylene Chloride	2.84	84	128929	19.925	ug/l 100
19) trans-1,2-Dichloroethene	3.14	96	116555	19.316	ug/l 100
20) Diisopropyl ether	3.83	45	410865	20.888	ug/l 100
21) 1,1-Dichloroethane	3.67	63	216377	19.836	ug/l 100
22) cis-1,2-Dichloroethene	4.57	96	134990	19.386	ug/l 100
23) tert-Butyl Alcohol	3.01	59	162001	114.131	ug/l 100
24) Methyl tert-Butyl Ether	3.17	73	429266	21.072	ug/l 100
25) Chloroform	5.18	83	248887	21.079	ug/l 100
26) Cyclohexane	5.55	56	196278	22.490	ug/l # 100
29) 1,1-Dichloropropene	5.77	75	167853	21.306	ug/l 100
30) 2-Butanone	4.64	43	467155	107.935	ug/l 100
31) 2,2-Dichloropropane	4.55	77	219996	22.030	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	224082	21.723	ug/l 100
33) Carbon Tetrachloride	5.75	117	212711	22.215	ug/l 100
34) Benzene	6.12	78	448843	19.527	ug/l 100
35) Methacrylonitrile	5.01	41	105123	21.560	ug/l 100
36) 1,2-Dichloroethane	6.17	62	193241	20.968	ug/l 100
37) Trichloroethene	7.19	130	152845	21.561	ug/l 100
38) Methylcyclohexane	7.44	83	192903	22.808	ug/l 100
39) 1,2-Dichloropropane	7.49	63	127845	20.874	ug/l 100
40) Dibromomethane	7.64	93	91893	20.804	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	200516	21.560	ug/l	100
42) Vinyl Acetate	3.78	43	1500358	93.644	ug/l	100
43) Ethyl Acetate	4.80	43	165324	19.846	ug/l	100
44) Isopropyl Acetate	6.42	43	280640	20.049	ug/l	100
45) 1,4-Dioxane	7.71	88	59470	433.074	ug/l	100
46) Methyl methacrylate	7.74	41	135505	19.909	ug/l	100
47) n-amyl Acetate	10.88	43	233293	18.863	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	220307	21.319	ug/l	100
49) cis-1,3-Dichloropropene	8.42	75	239105	22.089	ug/l	100
50) 1,1,2-Trichloroethane	9.20	97	130618	20.133	ug/l	100
51) Ethyl methacrylate	9.16	69	195648	20.415	ug/l	100
52) 1,3-Dichloropropane	9.35	76	207164	19.740	ug/l	100
53) Dibromochloromethane	9.57	129	150758	19.175	ug/l	100
54) 1,2-Dibromoethane	9.65	107	135329	19.588	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	537164	119.276	ug/l	100
56) Bromoform	10.84	173	120072	19.361	ug/l	100
58) 4-Methyl-2-Pentanone	8.62	43	1017970	123.728	ug/l	100
59) 2-Hexanone	9.47	43	639593	106.375	ug/l	100
61) Tetrachloroethene	9.32	164	146325	22.766	ug/l	100
62) Toluene	8.76	91	563543	23.320	ug/l	100
64) Chlorobenzene	10.12	112	320455	20.473	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.20	131	138037	21.288	ug/l	100
66) Ethyl Benzene	10.24	91	557281	20.973	ug/l	100
67) m/p-Xylenes	10.34	106	421233	41.317	ug/l	100
68) o-Xylene	10.68	106	205807	20.981	ug/l	100
69) Styrene	10.70	104	359013	20.709	ug/l	100
70) Isopropylbenzene	11.00	105	642422	23.320	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	176247	21.038	ug/l	100
72) 1,2,3-Trichloropropane	11.28	75	179929m	21.779	ug/l	100
73) Bromobenzene	11.24	156	171417	22.394	ug/l	100
74) n-propylbenzene	11.34	91	686716	21.849	ug/l	100
75) 2-Chlorotoluene	11.40	91	410568	21.579	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	496229	21.480	ug/l	100
77) t-1,4-Dichloro-2-butene	11.05	75	75771	23.300	ug/l	100
78) 4-Chlorotoluene	11.49	91	478001	21.245	ug/l	100
79) tert-butylbenzene	11.76	119	477148	21.253	ug/l	100
80) 1,2,4-Trimethylbenzene	11.79	105	494766	21.285	ug/l	100
81) sec-Butylbenzene	11.93	105	559358	21.566	ug/l	100
82) p-Isopropyltoluene	12.05	119	544478	22.058	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	281895	20.835	ug/l	100
84) 1,4-Dichlorobenzene	12.08	146	285031	20.782	ug/l	100
85) n-Butylbenzene	12.37	91	519138	24.172	ug/l	100
86) Hexachloroethane	12.58	117	109834	22.727	ug/l	100
87) 1,2-Dichlorobenzene	12.37	146	290198	22.069	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.98	75	46540	22.465	ug/l	100
89) 1,2,4-Trichlorobenzene	13.63	180	233574	24.997	ug/l	100
90) Hexachlorobutadiene	13.76	225	102907	26.986	ug/l	100
91) Naphthalene	13.82	128	700744	24.622	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	226465	24.649	ug/l	100

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

