

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX020520\
 Data File : VX014812.D
 Acq On : 05 Feb 2020 10:35
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 2/6/2020 1:32:26 PM

Quant Time: Feb 06 03:37:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	81045	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	447267	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	403845	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	178566	31.35	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.50%
60) 4-Bromofluorobenzene	11.13	95	192530	29.79	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.30%
63) Toluene-d8	8.71	98	550028	30.15	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	123450	22.041	ug/l 99
3) Chloromethane	1.32	50	120854	19.708	ug/l 97
4) Vinyl Chloride	1.40	62	144403	20.972	ug/l 98
5) Bromomethane	1.64	94	83857	19.517	ug/l 99
6) Chloroethane	1.72	64	80052m	20.624	ug/l
7) Trichlorofluoromethane	1.92	101	168382	22.086	ug/l 100
8) Diethyl Ether	2.18	74	70009	21.024	ug/l 93
9) 1,1,2-Trichlorotrifluoroet	2.37	101	98393	22.059	ug/l 99
10) 1,1-Dichloroethene	2.37	96	92940	20.716	ug/l 100
11) Methyl Iodide	2.50	142	124282	20.656	ug/l 95
12) Methyl Acetate	2.76	43	175242	21.622	ug/l 99
13) Acrolein	2.28	56	78470	92.177	ug/l 98
14) Acrylonitrile	3.12	53	282414	101.837	ug/l 99
15) Acetone	2.43	58	107308	115.422	ug/l 86
16) Carbon Disulfide	2.56	76	249448	20.244	ug/l 96
17) Allyl chloride	2.72	41	166190	20.015	ug/l 91
18) Methylene Chloride	2.85	84	107826	20.535	ug/l 91
19) trans-1,2-Dichloroethene	3.16	96	101585	21.033	ug/l 92
20) Diisopropyl ether	3.84	45	344483	20.970	ug/l 94
21) 1,1-Dichloroethane	3.69	63	185088	20.739	ug/l 100
22) cis-1,2-Dichloroethene	4.58	96	116977	21.077	ug/l 96
23) tert-Butyl Alcohol	3.01	59	118636	103.441	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	321702	21.546	ug/l 98
25) Chloroform	5.20	83	186419	21.563	ug/l 97
26) Cyclohexane	5.57	56	168094	20.420	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	139689	21.295	ug/l 99
30) 2-Butanone	4.65	43	459837	110.665	ug/l 99
31) 2,2-Dichloropropane	4.57	77	153372	21.852	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	155399	21.414	ug/l 99
33) Carbon Tetrachloride	5.77	117	135877	21.809	ug/l 98
34) Benzene	6.13	78	422134	20.826	ug/l 97
35) Methacrylonitrile	5.02	41	83509	20.123	ug/l 96
36) 1,2-Dichloroethane	6.18	62	150737	21.369	ug/l 98
37) Trichloroethene	7.20	130	117282	21.132	ug/l 94
38) Methylcyclohexane	7.45	83	173164	21.202	ug/l 99
39) 1,2-Dichloropropane	7.50	63	108171	20.523	ug/l 92
40) Dibromomethane	7.65	93	70954	20.946	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	142818	21.530	ug/l	100
42) Vinyl Acetate	3.80	43	1346229	105.115	ug/l	99
43) Ethyl Acetate	4.81	43	155428	20.663	ug/l	99
44) Isopropyl Acetate	6.43	43	249165	20.534	ug/l	100
45) 1,4-Dioxane	7.73	88	50519	416.201	ug/l	98
46) Methyl methacrylate	7.76	41	123489	20.694	ug/l	99
47) n-amyl Acetate	10.89	43	205327	20.195	ug/l	100
48) t-1,3-Dichloropropene	9.03	75	153311	21.169	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	172405	21.127	ug/l	100
50) 1,1,2-Trichloroethane	9.21	97	110295	21.398	ug/l	96
51) Ethyl methacrylate	9.17	69	163372	20.356	ug/l	96
52) 1,3-Dichloropropane	9.36	76	184043	21.074	ug/l	100
53) Dibromochloromethane	9.57	129	115520	21.911	ug/l	98
54) 1,2-Dibromoethane	9.67	107	114646	21.446	ug/l	97
55) 2-Chloroethyl vinyl ether	8.30	63	359149	97.372	ug/l	100
56) Bromoform	10.85	173	86346	21.262	ug/l	100
58) 4-Methyl-2-Pentanone	8.63	43	803466	105.649	ug/l	100
59) 2-Hexanone	9.48	43	657877	111.853	ug/l	100
61) Tetrachloroethene	9.33	164	128540	21.534	ug/l	98
62) Toluene	8.78	91	457093	21.334	ug/l	99
64) Chlorobenzene	10.13	112	288546	21.573	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	108085	21.880	ug/l	99
66) Ethyl Benzene	10.25	91	493629	21.152	ug/l	97
67) m/p-Xylenes	10.36	106	386169	43.200	ug/l	100
68) o-Xylene	10.69	106	181845	20.890	ug/l	97
69) Styrene	10.70	104	315282	21.377	ug/l	99
70) Isopropylbenzene	11.01	105	495872	21.744	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.26	83	159225	20.728	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	143114m	21.780	ug/l	
73) Bromobenzene	11.25	156	130561	21.598	ug/l	97
74) n-propylbenzene	11.35	91	570323	21.886	ug/l	99
75) 2-Chlorotoluene	11.42	91	337921	21.637	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	410234	21.589	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	50586	20.003	ug/l	94
78) 4-Chlorotoluene	11.51	91	380792	21.469	ug/l	99
79) tert-butylbenzene	11.76	119	391028	21.992	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	412939	21.788	ug/l	100
81) sec-Butylbenzene	11.94	105	478465	21.747	ug/l	99
82) p-Isopropyltoluene	12.06	119	438708	21.842	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	231118	21.896	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	227487	21.738	ug/l	99
85) n-Butylbenzene	12.38	91	372291	21.185	ug/l	99
86) Hexachloroethane	12.59	117	77256	21.449	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	229564	21.555	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	33983	20.710	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	152016	21.624	ug/l	100
90) Hexachlorobutadiene	13.78	225	77771	22.140	ug/l	97
91) Naphthalene	13.83	128	456056	21.492	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	154960	21.656	ug/l	100

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

