

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102219\
 Data File : VX013168.D
 Acq On : 22 Oct 2019 09:44
 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
 10/23/2019 3:10:18 PM

Quant Time: Oct 23 07:47:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 22 01:53:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	26647	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	151292	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	135931	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	62720	29.90	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.67%
60) 4-Bromofluorobenzene	11.13	95	69713	29.45	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.17%
63) Toluene-d8	8.71	98	184818	30.57	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	36619	19.140	ug/l 95
3) Chloromethane	1.32	50	31146	18.673	ug/l 99
4) Vinyl Chloride	1.40	62	32165	18.652	ug/l 95
5) Bromomethane	1.63	94	19545	21.004	ug/l 91
6) Chloroethane	1.72	64	20623	18.741	ug/l 100
7) Trichlorofluoromethane	1.92	101	53795	19.412	ug/l 94
8) Diethyl Ether	2.18	74	17633	18.642	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	32858	19.412	ug/l 97
10) 1,1-Dichloroethene	2.36	96	30355	18.569	ug/l 95
11) Methyl Iodide	2.50	142	34776	16.518	ug/l 100
12) Methyl Acetate	2.76	43	38835	18.397	ug/l 96
13) Acrolein	2.28	56	22194	70.629	ug/l 99
14) Acrylonitrile	3.13	53	81909	92.782	ug/l 98
15) Acetone	2.43	58	32145	110.520	ug/l 92
16) Carbon Disulfide	2.56	76	77981	17.863	ug/l 99
17) Allyl chloride	2.72	41	47045	18.092	ug/l 95
18) Methylene Chloride	2.85	84	35179	18.586	ug/l 93
19) trans-1,2-Dichloroethene	3.16	96	33149	19.110	ug/l 97
20) Diisopropyl ether	3.84	45	94800	18.850	ug/l 93
21) 1,1-Dichloroethane	3.69	63	57058	18.686	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	37948	19.185	ug/l 98
23) tert-Butyl Alcohol	3.03	59	39400	84.711	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	106024	18.806	ug/l 98
25) Chloroform	5.20	83	61865	19.280	ug/l 99
26) Cyclohexane	5.58	56	50938	19.011	ug/l # 100
29) 1,1-Dichloropropene	5.79	75	44269	18.835	ug/l # 86
30) 2-Butanone	4.66	43	126683	102.756	ug/l 98
31) 2,2-Dichloropropane	4.57	77	50879	18.724	ug/l 97
32) 1,1,1-Trichloroethane	5.48	97	54785	19.263	ug/l 98
33) Carbon Tetrachloride	5.78	117	47547	19.451	ug/l 98
34) Benzene	6.13	78	130219	19.245	ug/l 99
35) Methacrylonitrile	5.03	41	24237	19.170	ug/l 96
36) 1,2-Dichloroethane	6.18	62	49504	19.354	ug/l 99
37) Trichloroethene	7.20	130	37466	19.963	ug/l 99
38) Methylcyclohexane	7.46	83	56174	19.598	ug/l 98
39) 1,2-Dichloropropane	7.51	63	31589	19.021	ug/l 95
40) Dibromomethane	7.65	93	23310	19.650	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	46106	19.276	ug/l	99
42) Vinyl Acetate	3.80	43	405312	94.805	ug/l	99
43) Ethyl Acetate	4.81	43	42390	18.851	ug/l	98
44) Isopropyl Acetate	6.43	43	71181	18.835	ug/l	99
45) 1,4-Dioxane	7.73	88	17800	372.436	ug/l	95
46) Methyl methacrylate	7.76	41	34894	18.764	ug/l	93
47) n-amyl Acetate	10.89	43	58361	18.320	ug/l	99
48) t-1,3-Dichloropropene	9.03	75	47741	18.195	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	53237	18.647	ug/l	94
50) 1,1,2-Trichloroethane	9.21	97	34520	19.705	ug/l	98
51) Ethyl methacrylate	9.17	69	51133	18.615	ug/l	99
52) 1,3-Dichloropropane	9.36	76	57358	19.442	ug/l	100
53) Dibromochloromethane	9.57	129	35381	18.723	ug/l	98
54) 1,2-Dibromoethane	9.67	107	35626	19.020	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	109651	98.269	ug/l	99
56) Bromoform	10.85	173	23695	17.674	ug/l	97
58) 4-Methyl-2-Pentanone	8.64	43	217188	94.822	ug/l	99
59) 2-Hexanone	9.48	43	172133	95.891	ug/l	99
61) Tetrachloroethene	9.33	164	37608	20.870	ug/l	95
62) Toluene	8.78	91	143450	19.549	ug/l	99
64) Chlorobenzene	10.13	112	90996	19.340	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	33318	18.904	ug/l	98
66) Ethyl Benzene	10.25	91	162844	19.282	ug/l	99
67) m/p-Xylenes	10.35	106	125254	39.022	ug/l	100
68) o-Xylene	10.70	106	57934	18.907	ug/l	100
69) Styrene	10.71	104	100614	19.081	ug/l	99
70) Isopropylbenzene	11.01	105	163366	19.430	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	48339	18.762	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	47252m	21.116	ug/l	
73) Bromobenzene	11.25	156	39226	19.440	ug/l	97
74) n-propylbenzene	11.35	91	182580	19.784	ug/l	99
75) 2-Chlorotoluene	11.42	91	111127	19.244	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	132649	18.794	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	15238	17.538	ug/l	97
78) 4-Chlorotoluene	11.51	91	126021	19.099	ug/l	95
79) tert-butylbenzene	11.76	119	127378	18.743	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	136449	19.352	ug/l	99
81) sec-Butylbenzene	11.94	105	152354	18.818	ug/l	100
82) p-Isopropyltoluene	12.06	119	146883	19.842	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	70341	19.089	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	68389	18.766	ug/l	98
85) n-Butylbenzene	12.39	91	117513	18.688	ug/l	99
86) Hexachloroethane	12.59	117	23248	17.993	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	68289	19.104	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	11170	17.595	ug/l	93
89) 1,2,4-Trichlorobenzene	13.64	180	43140	19.405	ug/l	96
90) Hexachlorobutadiene	13.78	225	20998	18.603	ug/l	97
91) Naphthalene	13.83	128	135320	18.713	ug/l	98
92) 1,2,3-Trichlorobenzene	14.01	180	43631	19.156	ug/l	97

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

