

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022218\
 Data File : VX000134.D
 Acq On : 22 Feb 2018 18:08
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

apatel
 2/23/2018 3:52:24 PM

Quant Time: Feb 23 15:15:33 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X022018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 21 06:17:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	22751	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	134032	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	128541	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	54735	31.09	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.63%
60) 4-Bromofluorobenzene	11.15	95	63778	30.33	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.10%
63) Toluene-d8	8.73	98	165218	30.01	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.03%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	30253	21.43	ug/l	99
3) Chloromethane	1.32	50	31184	22.04	ug/l	99
4) Vinyl Chloride	1.40	62	35096	20.84	ug/l	100
5) Bromomethane	1.65	94	28004	18.05	ug/l	98
6) Chloroethane	1.73	64	22836	21.19	ug/l	98
7) Trichlorofluoromethane	1.93	101	60166	20.63	ug/l	99
8) Diethyl Ether	2.20	74	21401	21.01	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.39	101	31649	19.89	ug/l	96
10) 1,1-Dichloroethene	2.38	96	30014	19.74	ug/l	87
11) Methyl Iodide	2.52	142	33514	22.68	ug/l	99
12) Methyl Acetate	2.78	43	64324	23.68	ug/l	100
13) Acrolein	2.30	56	23247	71.11	ug/l	95
14) Acrylonitrile	3.15	53	131847	112.01	ug/l	98
15) Acetone	2.45	58	41362	107.78	ug/l	96
16) Carbon Disulfide	2.57	76	82308	18.93	ug/l	100
17) Allyl chloride	2.73	41	55213	21.30	ug/l	99
18) Methylene Chloride	2.87	84	34786	21.00	ug/l	88
19) trans-1,2-Dichloroethene	3.17	96	34160	20.65	ug/l	96
20) Diisopropyl ether	3.88	45	88425	21.61	ug/l	96
21) 1,1-Dichloroethane	3.70	63	59745	22.15	ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	31717	20.64	ug/l	99
23) tert-Butyl Alcohol	3.07	59	73635	109.44	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	111913	21.37	ug/l	97
25) Chloroform	5.23	83	55730	20.84	ug/l	99
26) Cyclohexane	5.59	56	44859	21.21	ug/l #	99
29) 1,1-Dichloropropene	5.81	75	42086	21.56	ug/l	98
30) 2-Butanone	4.72	43	176616	117.55	ug/l	99
31) 2,2-Dichloropropane	4.60	77	43839	20.88	ug/l	100
32) 1,1,1-Trichloroethane	5.51	97	50617	21.43	ug/l	97
33) Carbon Tetrachloride	5.80	117	42946	20.48	ug/l	95
34) Benzene	6.15	78	123540	22.00	ug/l	92
35) Methacrylonitrile	5.07	41	29900	21.61	ug/l	93
36) 1,2-Dichloroethane	6.21	62	46704	21.93	ug/l	99
37) Trichloroethene	7.22	130	35404	21.33	ug/l	96
38) Methylcyclohexane	7.47	83	49409	21.12	ug/l	98
39) 1,2-Dichloropropane	7.52	63	30922	22.05	ug/l	100
40) Dibromomethane	7.67	93	24245	22.44	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	43899	21.38	ug/l	95
42) Vinyl Acetate	3.84	43	479576	125.23	ug/l	100
43) Ethyl Acetate	4.87	43	60667	22.99	ug/l	99
44) Isopropyl Acetate	6.48	43	86604	22.37	ug/l	100
45) 1,4-Dioxane	7.77	88	20595	422.91	ug/l	99
46) Methyl methacrylate	7.79	41	43530	23.11	ug/l	98
47) n-amyl Acetate	10.91	43	76580	22.65	ug/l	97
48) t-1,3-Dichloropropene	8.45	75	51614	21.59	ug/l	97
49) cis-1,3-Dichloropropene	9.05	75	50701	21.79	ug/l	96
50) 1,1,2-Trichloroethane	9.23	97	35366	22.29	ug/l	95
51) Ethyl methacrylate	9.19	69	53779	22.13	ug/l	99
52) 1,3-Dichloropropane	9.38	76	56957	22.39	ug/l	99
53) Dibromochloromethane	9.59	129	36635	20.76	ug/l	99
54) 1,2-Dibromoethane	9.68	107	39003	22.06	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	119941	113.02	ug/l	99
56) Bromoform	10.87	173	28882	20.21	ug/l	97
58) 4-Methyl-2-Pentanone	8.66	43	335885	119.30	ug/l	100
59) 2-Hexanone	9.51	43	283880	119.07	ug/l	98
61) Tetrachloroethene	9.34	164	33262	21.31	ug/l	96
62) Toluene	8.79	91	144990	21.68	ug/l	99
64) Chlorobenzene	10.15	112	98898	21.88	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.23	131	33648	21.02	ug/l	97
66) Ethyl Benzene	10.26	91	167255	21.91	ug/l	98
67) m/p-Xylenes	10.37	106	132285	44.20	ug/l	98
68) o-Xylene	10.71	106	62936	21.65	ug/l	99
69) Styrene	10.72	104	103724	21.54	ug/l	99
70) Isopropylbenzene	11.02	105	170338	21.68	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	61154	22.62	ug/l	98
72) 1,2,3-Trichloropropane	11.30	75	57251m	23.61	ug/l	
73) Bromobenzene	11.26	156	43748	21.24	ug/l	97
74) n-propylbenzene	11.37	91	199542	21.67	ug/l	100
75) 2-Chlorotoluene	11.43	91	115980	21.90	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	145098	21.79	ug/l	72
77) t-1,4-Dichloro-2-butene	11.08	75	17430	20.32	ug/l	90
78) 4-Chlorotoluene	11.52	91	138062	21.76	ug/l	100
79) tert-butylbenzene	11.78	119	143723m	21.69	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	148231	21.82	ug/l	97
81) sec-Butylbenzene	11.96	105	177298	21.64	ug/l	100
82) p-Isopropyltoluene	12.07	119	157531	21.55	ug/l	98
83) 1,3-Dichlorobenzene	12.04	146	83088	21.18	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	85234	20.85	ug/l	99
85) n-Butylbenzene	12.40	91	151136	22.05	ug/l	98
86) Hexachloroethane	12.60	117	24528	20.09	ug/l	95
87) 1,2-Dichlorobenzene	12.40	146	83696	21.53	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.01	75	17358	22.96	ug/l	90
89) 1,2,4-Trichlorobenzene	13.65	180	58378	20.45	ug/l	97
90) Hexachlorobutadiene	13.79	225	24622	20.02	ug/l	98
91) Naphthalene	13.84	128	217279	21.78	ug/l	100
92) 1,2,3-Trichlorobenzene	14.03	180	57975	20.20	ug/l	97

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

