

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX053018\
 Data File : VX002134.D
 Acq On : 30 May 2018 11:33
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 5/31/2018 3:07:44 PM

Quant Time: May 31 05:15:25 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X052518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 25 02:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	60068	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	350222	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	320655	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	144555	30.58	ug/l	-0.01
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.93%
60) 4-Bromofluorobenzene	11.14	95	161417	29.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.03%
63) Toluene-d8	8.72	98	429529	30.05	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.17%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	63312	19.85	ug/l	99
3) Chloromethane	1.32	50	74479	19.63	ug/l	100
4) Vinyl Chloride	1.40	62	77571	20.56	ug/l	98
5) Bromomethane	1.64	94	42639	20.17	ug/l	100
6) Chloroethane	1.73	64	49834	22.32	ug/l	98
7) Trichlorofluoromethane	1.93	101	132382	23.00	ug/l	100
8) Diethyl Ether	2.19	74	48237	22.27	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	77398	24.97	ug/l	97
10) 1,1-Dichloroethene	2.37	96	65911	22.06	ug/l	98
11) Methyl Iodide	2.51	142	53757	11.45	ug/l	98
12) Methyl Acetate	2.78	43	110731	22.86	ug/l	97
13) Acrolein	2.29	56	21083	51.12	ug/l	98
14) Acrylonitrile	3.15	53	208179	104.46	ug/l	99
15) Acetone	2.45	58	58109	109.37	ug/l	95
16) Carbon Disulfide	2.57	76	156631	18.35	ug/l	100
17) Allyl chloride	2.73	41	140209	22.73	ug/l	96
18) Methylene Chloride	2.86	84	74307	22.12	ug/l	96
19) trans-1,2-Dichloroethene	3.17	96	68832	21.78	ug/l	93
20) Diisopropyl ether	3.87	45	271023	23.01	ug/l	98
21) 1,1-Dichloroethane	3.70	63	141351	22.55	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	74963	19.90	ug/l	86
23) tert-Butyl Alcohol	3.06	59	100456	97.18	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	253306	21.71	ug/l	98
25) Chloroform	5.22	83	129844	19.70	ug/l	99
26) Cyclohexane	5.58	56	118919	20.61	ug/l	# 99
29) 1,1-Dichloropropene	5.80	75	96310	19.66	ug/l	99
30) 2-Butanone	4.71	43	296388	86.72	ug/l	99
31) 2,2-Dichloropropane	4.59	77	113209	26.29	ug/l	98
32) 1,1,1-Trichloroethane	5.49	97	116276	18.17	ug/l	99
33) Carbon Tetrachloride	5.79	117	101292	17.42	ug/l	96
34) Benzene	6.15	78	281030	18.99	ug/l	100
35) Methacrylonitrile	5.07	41	65121	17.21	ug/l	95
36) 1,2-Dichloroethane	6.20	62	108249	18.78	ug/l	100
37) Trichloroethene	7.21	130	81282	19.37	ug/l	96
38) Methylcyclohexane	7.46	83	121454	21.24	ug/l	100
39) 1,2-Dichloropropane	7.52	63	77297	19.32	ug/l	99
40) Dibromomethane	7.67	93	49658	18.50	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	95710	17.19	ug/l	100
42) Vinyl Acetate	3.82	43	1159601	107.24	ug/l	99
43) Ethyl Acetate	4.86	43	114342	17.04	ug/l	99
44) Isopropyl Acetate	6.46	43	197897	17.74	ug/l	100
45) 1,4-Dioxane	7.76	88	36651m	345.36	ug/l	
46) Methyl methacrylate	7.78	41	99927	17.69	ug/l	96
47) n-amyl Acetate	10.90	43	184762	18.00	ug/l #	91
48) t-1,3-Dichloropropene	8.44	75	117307	18.75	ug/l	99
49) cis-1,3-Dichloropropene	9.04	75	108347	17.89	ug/l	96
50) 1,1,2-Trichloroethane	9.22	97	74462	19.32	ug/l	98
51) Ethyl methacrylate	9.18	69	120471	18.05	ug/l	99
52) 1,3-Dichloropropane	9.37	76	124325	19.13	ug/l	99
53) Dibromochloromethane	9.59	129	76374	16.22	ug/l	100
54) 1,2-Dibromoethane	9.68	107	76672	18.38	ug/l	98
55) 2-Chloroethyl vinyl ether	8.32	63	366784	117.07	ug/l	100
56) Bromoform	10.86	173	59040	14.26	ug/l	100
58) 4-Methyl-2-Pentanone	8.65	43	620390	88.91	ug/l	100
59) 2-Hexanone	9.50	43	480392	88.72	ug/l	99
61) Tetrachloroethene	9.34	164	93419	19.10	ug/l	97
62) Toluene	8.79	91	321489	19.63	ug/l	96
64) Chlorobenzene	10.14	112	207201	19.55	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	77256	17.91	ug/l	100
66) Ethyl Benzene	10.26	91	362235	19.68	ug/l	99
67) m/p-Xylenes	10.36	106	276867	39.63	ug/l	98
68) o-Xylene	10.70	106	136484	19.50	ug/l	99
69) Styrene	10.71	104	222353	18.93	ug/l	100
70) Isopropylbenzene	11.02	105	374314	19.98	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	108013	18.40	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	97890m	17.70	ug/l	
73) Bromobenzene	11.26	156	97610	19.40	ug/l	97
74) n-propylbenzene	11.37	91	430148	20.57	ug/l	100
75) 2-Chlorotoluene	11.43	91	253140	19.63	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	318121	19.97	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	31951	15.95	ug/l	85
78) 4-Chlorotoluene	11.51	91	293531	20.01	ug/l	100
79) tert-butylbenzene	12.07	119	344792	20.65	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	324194	20.13	ug/l	98
81) sec-Butylbenzene	11.95	105	385008	20.62	ug/l	100
82) p-Isopropyltoluene	12.07	119	344792	20.65	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	176813	19.83	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	180628	20.35	ug/l	99
85) n-Butylbenzene	12.39	91	298763	21.33	ug/l	99
86) Hexachloroethane	12.60	117	51454	15.48	ug/l	100
87) 1,2-Dichlorobenzene	12.40	146	179483	19.55	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.01	75	25224	14.75	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	134634	20.64	ug/l	99
90) Hexachlorobutadiene	13.79	225	72071	20.77	ug/l	99
91) Naphthalene	13.84	128	391631	19.03	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	134065	19.68	ug/l	98

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

