

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX050218\
 Data File : VX001309.D
 Acq On : 02 May 2018 10:06
 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
 5/3/2018 12:21:15 PM

Quant Time: May 03 05:07:32 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X043018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 01 09:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	32147	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	172808	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	164215	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	66964	28.88	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.27%
60) 4-Bromofluorobenzene	11.14	95	78002	28.35	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.50%
63) Toluene-d8	8.72	98	210601	29.91	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.70%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	36531	17.33	ug/l	99
3) Chloromethane	1.32	50	34485	17.53	ug/l	99
4) Vinyl Chloride	1.40	62	35974	17.43	ug/l	98
5) Bromomethane	1.64	94	25775	16.54	ug/l	96
6) Chloroethane	1.73	64	21937	17.38	ug/l	97
7) Trichlorofluoromethane	1.93	101	61784	18.03	ug/l	99
8) Diethyl Ether	2.19	74	21092	17.72	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.39	101	36425	18.74	ug/l	91
10) 1,1-Dichloroethene	2.38	96	31230	17.74	ug/l	96
11) Methyl Iodide	2.51	142	47199	22.04	ug/l	94
12) Methyl Acetate	2.78	43	45251	19.55	ug/l	100
13) Acrolein	2.29	56	13843	50.14	ug/l	98
14) Acrylonitrile	3.15	53	84923	92.17	ug/l	98
15) Acetone	2.45	58	25666	89.52	ug/l	82
16) Carbon Disulfide	2.57	76	72843	15.55	ug/l	98
17) Allyl chloride	2.73	41	53976	17.27	ug/l	97
18) Methylene Chloride	2.86	84	34428	17.94	ug/l	96
19) trans-1,2-Dichloroethene	3.17	96	32674	17.21	ug/l	96
20) Diisopropyl ether	3.87	45	103910	16.90	ug/l	99
21) 1,1-Dichloroethane	3.70	63	60300	18.25	ug/l	97
22) cis-1,2-Dichloroethene	4.60	96	36427	17.18	ug/l	98
23) tert-Butyl Alcohol	3.07	59	37949	100.78	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	106438	17.63	ug/l	97
25) Chloroform	5.22	83	60952	16.94	ug/l	97
26) Cyclohexane	5.58	56	49484	16.47	ug/l #	96
29) 1,1-Dichloropropene	5.81	75	44053	17.21	ug/l	99
30) 2-Butanone	4.71	43	117360	89.45	ug/l	98
31) 2,2-Dichloropropane	4.59	77	45268	16.20	ug/l	97
32) 1,1,1-Trichloroethane	5.50	97	52107	16.82	ug/l	98
33) Carbon Tetrachloride	5.79	117	46556	16.67	ug/l	96
34) Benzene	6.15	78	130865	17.25	ug/l #	92
35) Methacrylonitrile	5.06	41	25711	17.66	ug/l	94
36) 1,2-Dichloroethane	6.20	62	50597	17.38	ug/l	100
37) Trichloroethene	7.22	130	40679	17.68	ug/l	93
38) Methylcyclohexane	7.46	83	52390	17.39	ug/l	96
39) 1,2-Dichloropropane	7.52	63	33499	17.41	ug/l	100
40) Dibromomethane	7.67	93	23974	17.71	ug/l	87

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	41809	16.35	ug/l #	97
42) Vinyl Acetate	3.83	43	448829	86.97	ug/l	98
43) Ethyl Acetate	4.87	43	43871	17.36	ug/l	96
44) Isopropyl Acetate	6.47	43	70383	16.37	ug/l	99
45) 1,4-Dioxane	7.76	88	16014	409.81	ug/l	98
46) Methyl methacrylate	7.78	41	37090	16.58	ug/l	93
47) n-amyl Acetate	10.90	43	63826	15.47	ug/l	96
48) t-1,3-Dichloropropene	8.44	75	48745	16.19	ug/l	98
49) cis-1,3-Dichloropropene	9.05	75	42553	14.76	ug/l	94
50) 1,1,2-Trichloroethane	9.22	97	35926	17.87	ug/l	99
51) Ethyl methacrylate	9.19	69	47612	16.62	ug/l	97
52) 1,3-Dichloropropane	9.38	76	57314	17.64	ug/l	99
53) Dibromochloromethane	9.59	129	34950	15.75	ug/l	97
54) 1,2-Dibromoethane	9.68	107	37077	17.23	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	155876	111.10	ug/l	100
56) Bromoform	10.86	173	27565	15.18	ug/l #	98
58) 4-Methyl-2-Pentanone	8.65	43	239641	87.93	ug/l	98
59) 2-Hexanone	9.50	43	185261	87.24	ug/l	97
61) Tetrachloroethene	9.34	164	52006	20.67	ug/l	88
62) Toluene	8.79	91	151453	17.16	ug/l	100
64) Chlorobenzene	10.14	112	101478	17.04	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.23	131	35184	16.18	ug/l	95
66) Ethyl Benzene	10.26	91	163878	16.63	ug/l	99
67) m/p-Xylenes	10.37	106	130370	33.32	ug/l	99
68) o-Xylene	10.70	106	63422	16.77	ug/l	99
69) Styrene	10.72	104	103126	16.38	ug/l	100
70) Isopropylbenzene	11.02	105	173585	16.90	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	48747	16.18	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	47827m	17.74	ug/l	
73) Bromobenzene	11.26	156	50117	16.79	ug/l	93
74) n-propylbenzene	11.37	91	195863	16.88	ug/l	98
75) 2-Chlorotoluene	11.43	91	118472	16.92	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	149062	17.03	ug/l	69
77) t-1,4-Dichloro-2-butene	11.08	75	10783	13.44	ug/l	83
78) 4-Chlorotoluene	11.52	91	136080	16.30	ug/l	100
79) tert-butylbenzene	12.07	119	161721	17.27	ug/l	95
80) 1,2,4-Trimethylbenzene	11.81	105	150495	16.90	ug/l	100
81) sec-Butylbenzene	11.95	105	176797	17.40	ug/l	99
82) p-Isopropyltoluene	12.07	119	161721	17.27	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	91975	16.90	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	91765	16.54	ug/l	98
85) n-Butylbenzene	12.39	91	133940	16.54	ug/l	98
86) Hexachloroethane	12.60	117	21522	15.04	ug/l	72
87) 1,2-Dichlorobenzene	12.40	146	90569	16.74	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.01	75	9809	15.58	ug/l	94
89) 1,2,4-Trichlorobenzene	13.65	180	68338	16.67	ug/l	98
90) Hexachlorobutadiene	13.79	225	37785	19.85	ug/l	97
91) Naphthalene	13.84	128	179766	16.90	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	69793	17.25	ug/l	96

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

