

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022118\
 Data File : VX000126.D
 Acq On : 21 Feb 2018 19:30
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

sam
 2/23/2018 5:52:54 PM

Quant Time: Feb 22 07:28:53 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	5.04	128	13945	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	86201	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	82558	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	34771	32.22	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	107.40%
60) 4-Bromofluorobenzene	11.15	95	40839	30.24	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.80%
63) Toluene-d8	8.73	98	108362	30.64	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.13%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	18508	21.39	ug/l	100
3) Chloromethane	1.32	50	19401	22.37	ug/l	98
4) Vinyl Chloride	1.40	62	23271	22.55	ug/l	99
5) Bromomethane	1.64	94	18489	19.44	ug/l	98
6) Chloroethane	1.73	64	14997	22.70	ug/l	94
7) Trichlorofluoromethane	1.93	101	40118	22.44	ug/l	100
8) Diethyl Ether	2.20	74	14140	22.65	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	21927	22.48	ug/l	99
10) 1,1-Dichloroethene	2.38	96	20672	22.18	ug/l	99
11) Methyl Iodide	2.51	142	20656	22.81	ug/l	97
12) Methyl Acetate	2.79	43	37278	22.39	ug/l	98
13) Acrolein	2.30	56	17061	85.15	ug/l	97
14) Acrylonitrile	3.16	53	76798	106.44	ug/l	97
15) Acetone	2.45	58	23619	100.41	ug/l	96
16) Carbon Disulfide	2.57	76	55938	20.99	ug/l	97
17) Allyl chloride	2.73	41	34721	21.86	ug/l	100
18) Methylene Chloride	2.86	84	22610	22.27	ug/l	99
19) trans-1,2-Dichloroethene	3.17	96	22634	22.33	ug/l	94
20) Diisopropyl ether	3.89	45	51990	20.73	ug/l	96
21) 1,1-Dichloroethane	3.70	63	39381	23.82	ug/l	100
22) cis-1,2-Dichloroethene	4.61	96	19891	21.12	ug/l	98
23) tert-Butyl Alcohol	3.09	59	40024	97.05	ug/l #	100
24) Methyl tert-Butyl Ether	3.22	73	73677	22.95	ug/l	100
25) Chloroform	5.23	83	35212	21.48	ug/l	97
26) Cyclohexane	5.59	56	27449	21.17	ug/l #	100
29) 1,1-Dichloropropene	5.81	75	25866	20.60	ug/l	99
30) 2-Butanone	4.73	43	91329	94.52	ug/l #	97
31) 2,2-Dichloropropane	4.60	77	27443	20.32	ug/l	100
32) 1,1,1-Trichloroethane	5.51	97	31045	20.44	ug/l	97
33) Carbon Tetrachloride	5.79	117	26850	19.91	ug/l	94
34) Benzene	6.15	78	76447	21.16	ug/l #	91
35) Methacrylonitrile	5.08	41	17266	19.41	ug/l	92
36) 1,2-Dichloroethane	6.21	62	29331	21.41	ug/l	99
37) Trichloroethene	7.23	130	21589	20.22	ug/l	100
38) Methylcyclohexane	7.47	83	30447	20.23	ug/l	99
39) 1,2-Dichloropropane	7.52	63	18970	21.04	ug/l	99
40) Dibromomethane	7.67	93	14868	21.40	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	26539	20.09	ug/l	98
42) Vinyl Acetate	3.83	43	254929	103.51	ug/l	98
43) Ethyl Acetate	4.89	43	33539	19.76	ug/l	99
44) Isopropyl Acetate	6.49	43	49909	20.04	ug/l	100
45) 1,4-Dioxane	7.77	88	11929	380.88	ug/l	97
46) Methyl methacrylate	7.79	41	24779	20.46	ug/l	99
47) n-amyl Acetate	10.91	43	45245	20.81	ug/l	98
48) t-1,3-Dichloropropene	8.45	75	31082	20.22	ug/l	100
49) cis-1,3-Dichloropropene	9.06	75	30918	20.66	ug/l	100
50) 1,1,2-Trichloroethane	9.23	97	20655	20.25	ug/l	96
51) Ethyl methacrylate	9.20	69	31582	20.21	ug/l	97
52) 1,3-Dichloropropane	9.38	76	34429	21.04	ug/l	99
53) Dibromochloromethane	9.59	129	22309	19.65	ug/l	96
54) 1,2-Dibromoethane	9.68	107	22874	20.12	ug/l	97
55) 2-Chloroethyl vinyl ether	8.32	63	66457	97.37	ug/l	100
56) Bromoform	10.87	173	17207	18.72	ug/l	99
58) 4-Methyl-2-Pentanone	8.67	43	182072	100.69	ug/l	100
59) 2-Hexanone	9.51	43	148761	97.15	ug/l	99
61) Tetrachloroethene	9.34	164	19566	19.52	ug/l	97
62) Toluene	8.79	91	89838	20.91	ug/l	99
64) Chlorobenzene	10.15	112	59583	20.53	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.23	131	20724	20.16	ug/l	97
66) Ethyl Benzene	10.26	91	102210	20.85	ug/l	98
67) m/p-Xylenes	10.37	106	78363	40.77	ug/l	100
68) o-Xylene	10.71	106	37703	20.20	ug/l	96
69) Styrene	10.72	104	62003	20.05	ug/l	97
70) Isopropylbenzene	11.02	105	102665	20.34	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	35596	20.50	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	32311m	20.74	ug/l	
73) Bromobenzene	11.26	156	26348	19.91	ug/l	95
74) n-propylbenzene	11.37	91	122285	20.67	ug/l	99
75) 2-Chlorotoluene	11.43	91	70792	20.82	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	87279	20.41	ug/l	69
77) t-1,4-Dichloro-2-butene	11.09	75	10889	19.77	ug/l	99
78) 4-Chlorotoluene	11.52	91	85035	20.87	ug/l	99
79) tert-butylbenzene	11.78	119	88541m	20.80	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	89515	20.52	ug/l	100
81) sec-Butylbenzene	11.96	105	110188	20.94	ug/l	99
82) p-Isopropyltoluene	12.07	119	96107	20.47	ug/l	99
83) 1,3-Dichlorobenzene	12.04	146	51473	20.43	ug/l	98
84) 1,4-Dichlorobenzene	12.11	146	52282	19.91	ug/l	100
85) n-Butylbenzene	12.40	91	91026	20.67	ug/l	99
86) Hexachloroethane	12.60	117	15544	19.82	ug/l	95
87) 1,2-Dichlorobenzene	12.40	146	50523	20.24	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.01	75	9534	19.63	ug/l	92
89) 1,2,4-Trichlorobenzene	13.65	180	36741	20.04	ug/l	97
90) Hexachlorobutadiene	13.79	225	15386	19.48	ug/l	99
91) Naphthalene	13.84	128	129705	20.24	ug/l	99
92) 1,2,3-Trichlorobenzene	14.03	180	36513	19.81	ug/l	100

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

