

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022218\
 Data File : VX000128.D
 Acq On : 22 Feb 2018 13:18
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

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 2/23/2018 3:52:05 PM

Quant Time: Feb 23 15:06:47 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	24390	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	144373	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	144868	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	59912	31.74	ug/l	-0.01
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.80%
60) 4-Bromofluorobenzene	11.15	95	70955	29.94	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.80%
63) Toluene-d8	8.73	98	182544	29.42	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.07%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	30495	20.15	ug/l	92
3) Chloromethane	1.32	50	31046	20.46	ug/l	94
4) Vinyl Chloride	1.40	62	33812	18.73	ug/l	100
5) Bromomethane	1.64	94	28297	17.01	ug/l	90
6) Chloroethane	1.73	64	21233	18.38	ug/l	100
7) Trichlorofluoromethane	1.93	101	59015	18.87	ug/l	97
8) Diethyl Ether	2.19	74	21617	19.80	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.39	101	32741	19.19	ug/l	95
10) 1,1-Dichloroethene	2.38	96	30362	18.63	ug/l	95
11) Methyl Iodide	2.51	142	33083	20.89	ug/l	95
12) Methyl Acetate	2.78	43	61562	21.14	ug/l	99
13) Acrolein	2.29	56	27866	79.51	ug/l	98
14) Acrylonitrile	3.15	53	129611	102.71	ug/l	98
15) Acetone	2.45	58	42127	102.39	ug/l	97
16) Carbon Disulfide	2.57	76	80632	17.30	ug/l	99
17) Allyl chloride	2.73	41	54469	19.60	ug/l	97
18) Methylene Chloride	2.86	84	34753	19.57	ug/l	96
19) trans-1,2-Dichloroethene	3.17	96	32538	18.35	ug/l	94
20) Diisopropyl ether	3.87	45	100734	22.96	ug/l	90
21) 1,1-Dichloroethane	3.70	63	57826	20.00	ug/l	97
22) cis-1,2-Dichloroethene	4.60	96	31147	18.91	ug/l	96
23) tert-Butyl Alcohol	3.06	59	74903	103.84	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	113223	20.16	ug/l	97
25) Chloroform	5.23	83	55231	19.26	ug/l	92
26) Cyclohexane	5.58	56	44654	19.69	ug/l #	98
29) 1,1-Dichloropropene	5.81	75	42721	20.32	ug/l	98
30) 2-Butanone	4.71	43	178173	110.09	ug/l	99
31) 2,2-Dichloropropane	4.59	77	43077	19.05	ug/l	100
32) 1,1,1-Trichloroethane	5.51	97	49715	19.54	ug/l	97
33) Carbon Tetrachloride	5.79	117	42557	18.84	ug/l	99
34) Benzene	6.15	78	122110	20.18	ug/l	94
35) Methacrylonitrile	5.07	41	31383	21.06	ug/l	92
36) 1,2-Dichloroethane	6.21	62	47842	20.85	ug/l	100
37) Trichloroethene	7.22	130	35062	19.61	ug/l	97
38) Methylcyclohexane	7.46	83	52086	20.67	ug/l	98
39) 1,2-Dichloropropane	7.53	63	31353	20.76	ug/l	94
40) Dibromomethane	7.67	93	24632	21.17	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	44118	19.95	ug/l	94
42) Vinyl Acetate	3.83	43	497839	120.69	ug/l	99
43) Ethyl Acetate	4.87	43	59108	20.79	ug/l	99
44) Isopropyl Acetate	6.48	43	89212	21.39	ug/l	99
45) 1,4-Dioxane	7.77	88	21604	411.85	ug/l	99
46) Methyl methacrylate	7.79	41	42541	20.97	ug/l	99
47) n-amyl Acetate	10.91	43	76562	21.03	ug/l	97
48) t-1,3-Dichloropropene	8.45	75	53076	20.61	ug/l	95
49) cis-1,3-Dichloropropene	9.05	75	52122	20.80	ug/l	95
50) 1,1,2-Trichloroethane	9.23	97	36746	21.51	ug/l	96
51) Ethyl methacrylate	9.19	69	52026	19.87	ug/l	90
52) 1,3-Dichloropropane	9.38	76	58800	21.45	ug/l	98
53) Dibromochloromethane	9.59	129	37999	19.99	ug/l	99
54) 1,2-Dibromoethane	9.68	107	38826	20.39	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	132844	116.21	ug/l	98
56) Bromoform	10.87	173	29254	19.00	ug/l	98
58) 4-Methyl-2-Pentanone	8.66	43	338481	106.67	ug/l	99
59) 2-Hexanone	9.51	43	286843	106.76	ug/l	98
61) Tetrachloroethene	9.34	164	31978	18.18	ug/l	95
62) Toluene	8.79	91	144709	19.20	ug/l	99
64) Chlorobenzene	10.15	112	99573	19.55	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.23	131	34018	18.86	ug/l	97
66) Ethyl Benzene	10.26	91	168932	19.64	ug/l	99
67) m/p-Xylenes	10.37	106	130479	38.69	ug/l	99
68) o-Xylene	10.71	106	62854	19.19	ug/l	97
69) Styrene	10.72	104	105396	19.42	ug/l	99
70) Isopropylbenzene	11.02	105	170558	19.26	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	60903	19.99	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	59026m	21.60	ug/l	
73) Bromobenzene	11.26	156	43886	18.90	ug/l	97
74) n-propylbenzene	11.37	91	207674	20.01	ug/l	98
75) 2-Chlorotoluene	11.43	91	115601	19.37	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	146763	19.56	ug/l	70
77) t-1,4-Dichloro-2-butene	11.08	75	18802	19.45	ug/l	97
78) 4-Chlorotoluene	11.52	91	140182	19.61	ug/l	100
79) tert-butylbenzene	12.07	119	163066	21.83	ug/l	96
80) 1,2,4-Trimethylbenzene	11.82	105	154448	20.18	ug/l	96
81) sec-Butylbenzene	11.96	105	185944	20.14	ug/l	98
82) p-Isopropyltoluene	12.07	119	163066	19.80	ug/l	98
83) 1,3-Dichlorobenzene	12.03	146	85432	19.33	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	87151	18.92	ug/l	98
85) n-Butylbenzene	12.40	91	158095	20.46	ug/l	99
86) Hexachloroethane	12.60	117	24933	18.12	ug/l	99
87) 1,2-Dichlorobenzene	12.40	146	85316	19.48	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	17559	20.61	ug/l	94
89) 1,2,4-Trichlorobenzene	13.65	180	62442	19.41	ug/l	97
90) Hexachlorobutadiene	13.79	225	26508	19.13	ug/l	98
91) Naphthalene	13.84	128	223611	19.89	ug/l	99
92) 1,2,3-Trichlorobenzene	14.03	180	61416	18.99	ug/l	99

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

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