

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022118\
 Data File : VX000120.D
 Acq On : 21 Feb 2018 16:31
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

sam
 2/23/2018 5:52:30 PM

Quant Time: Feb 22 07:09:57 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	14210	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	88793	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	83833	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	35089	31.91	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	106.37%
60) 4-Bromofluorobenzene	11.15	95	41350	30.15	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.50%
63) Toluene-d8	8.73	98	108829	30.31	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.03%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	16322	18.51	ug/l	98
3) Chloromethane	1.32	50	17365	19.65	ug/l	97
4) Vinyl Chloride	1.40	62	21144	20.11	ug/l	99
5) Bromomethane	1.64	94	16002	16.51	ug/l	96
6) Chloroethane	1.73	64	13356	19.84	ug/l	98
7) Trichlorofluoromethane	1.93	101	36311	19.93	ug/l	98
8) Diethyl Ether	2.19	74	12613	19.82	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.39	101	19674	19.79	ug/l	98
10) 1,1-Dichloroethene	2.38	96	18633	19.62	ug/l	98
11) Methyl Iodide	2.51	142	19313	20.93	ug/l	97
12) Methyl Acetate	2.79	43	34098	20.10	ug/l	99
13) Acrolein	2.30	56	19203	94.05	ug/l	99
14) Acrylonitrile	3.16	53	70424	95.79	ug/l	99
15) Acetone	2.45	58	22460	93.70	ug/l	96
16) Carbon Disulfide	2.57	76	49584	18.26	ug/l	100
17) Allyl chloride	2.73	41	31438	19.42	ug/l	100
18) Methylene Chloride	2.86	84	20180	19.50	ug/l	97
19) trans-1,2-Dichloroethene	3.17	96	20444	19.79	ug/l	97
20) Diisopropyl ether	3.89	45	52636	20.59	ug/l	94
21) 1,1-Dichloroethane	3.70	63	35715	21.20	ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	18161	18.92	ug/l	100
23) tert-Butyl Alcohol	3.09	59	35657	84.85	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	66615	20.36	ug/l	99
25) Chloroform	5.23	83	31955	19.13	ug/l	100
26) Cyclohexane	5.59	56	24409	18.48	ug/l #	96
29) 1,1-Dichloropropene	5.81	75	24236	18.74	ug/l	98
30) 2-Butanone	4.73	43	85418	85.82	ug/l	100
31) 2,2-Dichloropropane	4.59	77	25213	18.13	ug/l #	86
32) 1,1,1-Trichloroethane	5.51	97	28683	18.33	ug/l	99
33) Carbon Tetrachloride	5.79	117	25580	18.41	ug/l	96
34) Benzene	6.15	78	69943	18.80	ug/l	92
35) Methacrylonitrile	5.08	41	15932	17.38	ug/l	88
36) 1,2-Dichloroethane	6.21	62	26439	18.74	ug/l #	90
37) Trichloroethene	7.23	130	19905	18.10	ug/l	90
38) Methylcyclohexane	7.47	83	27756	17.91	ug/l	98
39) 1,2-Dichloropropane	7.53	63	17316	18.64	ug/l	99
40) Dibromomethane	7.67	93	13393	18.71	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	24507	18.01	ug/l	92
42) Vinyl Acetate	3.84	43	278035	109.59	ug/l	100
43) Ethyl Acetate	4.89	43	30091	17.21	ug/l	96
44) Isopropyl Acetate	6.49	43	46907	18.29	ug/l	100
45) 1,4-Dioxane	7.78	88	11143	345.40	ug/l	97
46) Methyl methacrylate	7.79	41	22980	18.42	ug/l	95
47) n-amyl Acetate	10.91	43	41051	18.33	ug/l	98
48) t-1,3-Dichloropropene	8.45	75	28855	18.22	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	27753	18.01	ug/l	97
50) 1,1,2-Trichloroethane	9.23	97	19300	18.37	ug/l	95
51) Ethyl methacrylate	9.20	69	29424	18.28	ug/l	98
52) 1,3-Dichloropropane	9.38	76	32273	19.15	ug/l	96
53) Dibromochloromethane	9.59	129	20766	17.76	ug/l	99
54) 1,2-Dibromoethane	9.68	107	21485	18.34	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	66499	94.59	ug/l	99
56) Bromoform	10.87	173	16375	17.29	ug/l	97
58) 4-Methyl-2-Pentanone	8.67	43	169549	92.34	ug/l	99
59) 2-Hexanone	9.51	43	140023	90.05	ug/l	99
61) Tetrachloroethene	9.34	164	18712	18.38	ug/l	96
62) Toluene	8.79	91	82350	18.88	ug/l	100
64) Chlorobenzene	10.15	112	54780	18.59	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	19095	18.29	ug/l	97
66) Ethyl Benzene	10.26	91	93286	18.74	ug/l	99
67) m/p-Xylenes	10.37	106	72423	37.11	ug/l	99
68) o-Xylene	10.71	106	34679	18.29	ug/l	96
69) Styrene	10.72	104	58883	18.75	ug/l	98
70) Isopropylbenzene	11.02	105	93900	18.32	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	33430	18.96	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	29714m	18.79	ug/l	
73) Bromobenzene	11.26	156	24064	17.91	ug/l	95
74) n-propylbenzene	11.37	91	112880	18.79	ug/l	100
75) 2-Chlorotoluene	11.43	91	65869	19.07	ug/l	97
76) 1,3,5-Trimethylbenzene	11.51	105	79865	18.39	ug/l	68
77) t-1,4-Dichloro-2-butene	11.09	75	9575	17.12	ug/l	95
78) 4-Chlorotoluene	11.52	91	76694	18.54	ug/l	99
79) tert-butylbenzene	11.78	119	79396m	18.37	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	82293	18.58	ug/l	99
81) sec-Butylbenzene	11.96	105	99851	18.69	ug/l	99
82) p-Isopropyltoluene	12.07	119	86744	18.20	ug/l	98
83) 1,3-Dichlorobenzene	12.04	146	45327	17.72	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	47677	17.88	ug/l	99
85) n-Butylbenzene	12.40	91	83018	18.57	ug/l	99
86) Hexachloroethane	12.60	117	13641	17.13	ug/l	97
87) 1,2-Dichlorobenzene	12.40	146	45269	17.86	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	8709	17.66	ug/l	93
89) 1,2,4-Trichlorobenzene	13.65	180	32165	17.28	ug/l	97
90) Hexachlorobutadiene	13.79	225	14078	17.55	ug/l	97
91) Naphthalene	13.84	128	117458	18.05	ug/l	99
92) 1,2,3-Trichlorobenzene	14.03	180	33265	17.77	ug/l	98

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

