

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022118\
 Data File : VX000124.D
 Acq On : 21 Feb 2018 18:39
 Operator : JC/MD
 Sample : VX0221WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ClientSampleId :
 VX0221WBS01

Manual Integrations
 APPROVED

sam
 2/23/2018 5:52:44 PM

Quant Time: Feb 22 07:22:01 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	14451	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	91854	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	87787	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.09	65	36490	32.63	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	108.77%
60) 4-Bromofluorobenzene	11.15	95	43430	30.24	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.80%
63) Toluene-d8	8.73	98	110732	29.45	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.17%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	18961	21.14	ug/l	96
3) Chloromethane	1.32	50	19403	21.59	ug/l	98
4) Vinyl Chloride	1.40	62	24071	22.51	ug/l	95
5) Bromomethane	1.64	94	18766	19.04	ug/l	100
6) Chloroethane	1.73	64	14680	21.44	ug/l	94
7) Trichlorofluoromethane	1.93	101	41633	22.47	ug/l	98
8) Diethyl Ether	2.20	74	14702	22.72	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.39	101	22560	22.32	ug/l	99
10) 1,1-Dichloroethene	2.38	96	20979	21.73	ug/l	98
11) Methyl Iodide	2.51	142	21589	23.00	ug/l	98
12) Methyl Acetate	2.79	43	42252	24.49	ug/l	98
13) Acrolein	2.30	56	18965	91.34	ug/l	96
14) Acrylonitrile	3.16	53	85884	114.87	ug/l	99
15) Acetone	2.45	58	28166	115.55	ug/l	95
16) Carbon Disulfide	2.57	76	56891	20.60	ug/l	99
17) Allyl chloride	2.73	41	36600	22.23	ug/l	98
18) Methylene Chloride	2.86	84	23147	22.00	ug/l	95
19) trans-1,2-Dichloroethene	3.17	96	23066	21.96	ug/l	94
20) Diisopropyl ether	3.89	45	55059	21.18	ug/l	97
21) 1,1-Dichloroethane	3.70	63	40797	23.81	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	20140	20.63	ug/l	98
23) tert-Butyl Alcohol	3.09	59	49083	114.85	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	75544	22.71	ug/l	98
25) Chloroform	5.23	83	36813	21.67	ug/l	93
26) Cyclohexane	5.58	56	28440	21.17	ug/l #	98
29) 1,1-Dichloropropene	5.81	75	26305	19.66	ug/l	89
30) 2-Butanone	4.73	43	107045	103.96	ug/l	100
31) 2,2-Dichloropropane	4.60	77	28436	19.76	ug/l #	80
32) 1,1,1-Trichloroethane	5.51	97	33471	20.68	ug/l	97
33) Carbon Tetrachloride	5.79	117	28045	19.51	ug/l	99
34) Benzene	6.15	78	77791	20.21	ug/l	94
35) Methacrylonitrile	5.08	41	19266	20.32	ug/l	88
36) 1,2-Dichloroethane	6.21	62	29953	20.52	ug/l #	91
37) Trichloroethene	7.23	130	22818	20.06	ug/l	100
38) Methylcyclohexane	7.47	83	31759	19.81	ug/l	98
39) 1,2-Dichloropropane	7.53	63	20110	20.93	ug/l	99
40) Dibromomethane	7.67	93	14970	20.22	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	28369	20.16	ug/l	94
42) Vinyl Acetate	3.84	43	258055	98.33	ug/l	99
43) Ethyl Acetate	4.89	43	36101	19.96	ug/l	99
44) Isopropyl Acetate	6.49	43	54889	20.68	ug/l	99
45) 1,4-Dioxane	7.77	88	14205	425.63	ug/l	99
46) Methyl methacrylate	7.79	41	26262	20.35	ug/l	97
47) n-amyl Acetate	10.91	43	47943	20.69	ug/l	97
48) t-1,3-Dichloropropene	8.45	75	33233	20.29	ug/l	99
49) cis-1,3-Dichloropropene	9.06	75	32085	20.13	ug/l	96
50) 1,1,2-Trichloroethane	9.23	97	21654	19.92	ug/l	97
51) Ethyl methacrylate	9.20	69	33801	20.29	ug/l	97
52) 1,3-Dichloropropane	9.38	76	35682	20.46	ug/l	100
53) Dibromochloromethane	9.59	129	23451	19.39	ug/l	99
54) 1,2-Dibromoethane	9.68	107	24102	19.89	ug/l	98
55) 2-Chloroethyl vinyl ether	8.32	63	75896	104.36	ug/l	99
56) Bromoform	10.87	173	18136	18.51	ug/l	100
58) 4-Methyl-2-Pentanone	8.66	43	204873	106.55	ug/l	99
59) 2-Hexanone	9.51	43	171179	105.13	ug/l	99
61) Tetrachloroethene	9.34	164	20212	18.96	ug/l	97
62) Toluene	8.79	91	91951	20.13	ug/l	99
64) Chlorobenzene	10.15	112	61804	20.02	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	21942	20.07	ug/l	97
66) Ethyl Benzene	10.26	91	105585	20.25	ug/l	99
67) m/p-Xylenes	10.37	106	81672	39.96	ug/l	98
68) o-Xylene	10.71	106	40018	20.16	ug/l	100
69) Styrene	10.72	104	65784	20.00	ug/l	99
70) Isopropylbenzene	11.03	105	110782	20.64	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.28	83	37525	20.32	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	33698m	20.35	ug/l	
73) Bromobenzene	11.26	156	27699	19.69	ug/l	96
74) n-propylbenzene	11.37	91	128764	20.47	ug/l	100
75) 2-Chlorotoluene	11.43	91	73321	20.28	ug/l	99
76) 1,3,5-Trimethylbenzene	11.52	105	92730	20.39	ug/l	69
77) t-1,4-Dichloro-2-butene	11.09	75	11214	19.15	ug/l	97
78) 4-Chlorotoluene	11.52	91	88983	20.54	ug/l	100
79) tert-butylbenzene	11.78	119	91530m	20.22	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	95340	20.55	ug/l	97
81) sec-Butylbenzene	11.96	105	114815	20.52	ug/l	99
82) p-Isopropyltoluene	12.07	119	101330	20.30	ug/l	99
83) 1,3-Dichlorobenzene	12.04	146	53316	19.90	ug/l	98
84) 1,4-Dichlorobenzene	12.11	146	54560	19.54	ug/l	99
85) n-Butylbenzene	12.40	91	94325	20.15	ug/l	99
86) Hexachloroethane	12.60	117	15576	18.68	ug/l	96
87) 1,2-Dichlorobenzene	12.40	146	53474	20.15	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	10428	20.20	ug/l	94
89) 1,2,4-Trichlorobenzene	13.65	180	37929	19.46	ug/l	99
90) Hexachlorobutadiene	13.79	225	16336	19.45	ug/l	98
91) Naphthalene	13.84	128	136527	20.04	ug/l	100
92) 1,2,3-Trichlorobenzene	14.03	180	37551	19.16	ug/l	99

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

