

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022218\
 Data File : VX000132.D
 Acq On : 22 Feb 2018 16:52
 Operator : JC/MD
 Sample : VX0222WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ClientSampleId :
 VX0222WBS01

Manual Integrations
 APPROVED

apatel
 2/23/2018 3:52:17 PM

Quant Time: Feb 23 15:13:10 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	14687	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	91168	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	86139	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	35838	31.53	ug/l	-0.01
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.10%
60) 4-Bromofluorobenzene	11.15	95	41728	29.61	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.70%
63) Toluene-d8	8.73	98	110768	30.02	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.07%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	19290	21.16	ug/l	98
3) Chloromethane	1.32	50	20127	22.03	ug/l	93
4) Vinyl Chloride	1.40	62	22516	20.71	ug/l	99
5) Bromomethane	1.65	94	19050	19.02	ug/l	100
6) Chloroethane	1.73	64	13922	20.01	ug/l	91
7) Trichlorofluoromethane	1.93	101	39612	21.04	ug/l	99
8) Diethyl Ether	2.20	74	13413	20.40	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	2.39	101	21101	20.54	ug/l	96
10) 1,1-Dichloroethene	2.38	96	19742	20.12	ug/l	85
11) Methyl Iodide	2.51	142	18467	19.36	ug/l	97
12) Methyl Acetate	2.78	43	39180	22.34	ug/l	98
13) Acrolein	2.30	56	18468	87.51	ug/l	99
14) Acrylonitrile	3.15	53	82217	108.20	ug/l	98
15) Acetone	2.45	58	26737	107.92	ug/l	99
16) Carbon Disulfide	2.57	76	52175	18.59	ug/l	100
17) Allyl chloride	2.73	41	35215	21.05	ug/l	99
18) Methylene Chloride	2.87	84	21630	20.23	ug/l	90
19) trans-1,2-Dichloroethene	3.17	96	21048	19.71	ug/l	91
20) Diisopropyl ether	3.88	45	61768	23.38	ug/l	99
21) 1,1-Dichloroethane	3.70	63	38822	22.29	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	19945	20.11	ug/l	96
23) tert-Butyl Alcohol	3.06	59	45708	105.23	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	68372	20.22	ug/l	97
25) Chloroform	5.22	83	36147	20.94	ug/l	95
26) Cyclohexane	5.59	56	29125	21.33	ug/l #	96
29) 1,1-Dichloropropene	5.81	75	27257	20.53	ug/l	99
30) 2-Butanone	4.71	43	110833	108.45	ug/l #	97
31) 2,2-Dichloropropane	4.59	77	29062	20.35	ug/l	98
32) 1,1,1-Trichloroethane	5.51	97	30507	18.99	ug/l	97
33) Carbon Tetrachloride	5.79	117	26740	18.75	ug/l	98
34) Benzene	6.15	78	76834	20.11	ug/l	94
35) Methacrylonitrile	5.07	41	19624	20.86	ug/l	83
36) 1,2-Dichloroethane	6.21	62	29656	20.47	ug/l	100
37) Trichloroethene	7.22	130	23211	20.55	ug/l	97
38) Methylcyclohexane	7.47	83	32134	20.19	ug/l	98
39) 1,2-Dichloropropane	7.53	63	20377	21.36	ug/l	95
40) Dibromomethane	7.67	93	14752	20.07	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	27119	19.42	ug/l	96
42) Vinyl Acetate	3.83	43	297639	114.26	ug/l	99
43) Ethyl Acetate	4.87	43	36984	20.60	ug/l	99
44) Isopropyl Acetate	6.48	43	53053	20.14	ug/l	100
45) 1,4-Dioxane	7.77	88	13411	404.87	ug/l	94
46) Methyl methacrylate	7.79	41	26210	20.46	ug/l	94
47) n-amyl Acetate	10.91	43	44642	19.41	ug/l	97
48) t-1,3-Dichloropropene	8.45	75	31440	19.34	ug/l	96
49) cis-1,3-Dichloropropene	9.05	75	30333	19.17	ug/l	94
50) 1,1,2-Trichloroethane	9.23	97	21079	19.54	ug/l	98
51) Ethyl methacrylate	9.19	69	31119	18.82	ug/l	93
52) 1,3-Dichloropropane	9.38	76	36459	21.07	ug/l	97
53) Dibromochloromethane	9.59	129	21978	18.31	ug/l	100
54) 1,2-Dibromoethane	9.68	107	22831	18.98	ug/l	97
55) 2-Chloroethyl vinyl ether	8.32	63	66711	92.42	ug/l	99
56) Bromoform	10.87	173	15849	16.30	ug/l	100
58) 4-Methyl-2-Pentanone	8.66	43	203924	108.08	ug/l	99
59) 2-Hexanone	9.51	43	170804	106.91	ug/l	99
61) Tetrachloroethene	9.34	164	21017	20.09	ug/l	96
62) Toluene	8.79	91	93941	20.96	ug/l	98
64) Chlorobenzene	10.15	112	62017	20.48	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.23	131	20524	19.13	ug/l	99
66) Ethyl Benzene	10.26	91	104703	20.47	ug/l	99
67) m/p-Xylenes	10.37	106	79336	39.56	ug/l	95
68) o-Xylene	10.71	106	39591	20.32	ug/l	99
69) Styrene	10.72	104	63342	19.63	ug/l	97
70) Isopropylbenzene	11.02	105	107050	20.33	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	36221	19.99	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	34646m	21.32	ug/l	
73) Bromobenzene	11.26	156	26349	19.09	ug/l	93
74) n-propylbenzene	11.37	91	127038	20.58	ug/l	100
75) 2-Chlorotoluene	11.43	91	71523	20.16	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	88203	19.77	ug/l	70
77) t-1,4-Dichloro-2-butene	11.09	75	10336	17.98	ug/l	97
78) 4-Chlorotoluene	11.52	91	87572	20.60	ug/l	99
79) tert-butylbenzene	11.78	119	87819m	19.77	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	90095	19.79	ug/l	98
81) sec-Butylbenzene	11.96	105	110544	20.13	ug/l	99
82) p-Isopropyltoluene	12.07	119	99329	20.28	ug/l	99
83) 1,3-Dichlorobenzene	12.04	146	52779	20.08	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	53887	19.67	ug/l	99
85) n-Butylbenzene	12.40	91	93973	20.46	ug/l	98
86) Hexachloroethane	12.60	117	15500	18.94	ug/l	89
87) 1,2-Dichlorobenzene	12.40	146	50193	19.27	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	10387	20.50	ug/l	90
89) 1,2,4-Trichlorobenzene	13.65	180	36155	18.90	ug/l	99
90) Hexachlorobutadiene	13.79	225	15545	18.86	ug/l	99
91) Naphthalene	13.84	128	131017	19.60	ug/l	100
92) 1,2,3-Trichlorobenzene	14.03	180	36541	19.00	ug/l	98

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

