

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022218\
 Data File : VX000133.D
 Acq On : 22 Feb 2018 17:43
 Operator : JC/MD
 Sample : VX0222WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ClientSampled :
 VX0222WBSD01

Manual Integrations
 APPROVED

apatel
 2/23/2018 3:52:21 PM

Quant Time: Feb 23 15:14:06 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	21078	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	125655	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	123324	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	49618	30.42	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.40%
60) 4-Bromofluorobenzene	11.15	95	59146	29.32	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.73%
63) Toluene-d8	8.73	98	156559	29.64	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.80%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	28050	21.44	ug/l	99
3) Chloromethane	1.32	50	30393	23.18	ug/l	98
4) Vinyl Chloride	1.40	62	33842	21.69	ug/l	100
5) Bromomethane	1.65	94	26548	18.47	ug/l	97
6) Chloroethane	1.73	64	20699	20.73	ug/l	95
7) Trichlorofluoromethane	1.93	101	55854	20.67	ug/l	100
8) Diethyl Ether	2.19	74	19037	20.17	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.39	101	30178	20.47	ug/l	96
10) 1,1-Dichloroethene	2.38	96	28715	20.39	ug/l	90
11) Methyl Iodide	2.51	142	31710	23.16	ug/l	99
12) Methyl Acetate	2.78	43	58246	23.14	ug/l	98
13) Acrolein	2.29	56	20546	67.84	ug/l	96
14) Acrylonitrile	3.15	53	116581	106.90	ug/l	100
15) Acetone	2.45	58	37472	105.39	ug/l	98
16) Carbon Disulfide	2.57	76	76380	18.96	ug/l	100
17) Allyl chloride	2.73	41	49989	20.82	ug/l	96
18) Methylene Chloride	2.86	84	30421	19.82	ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	30591	19.96	ug/l	92
20) Diisopropyl ether	3.88	45	94134	24.83	ug/l	98
21) 1,1-Dichloroethane	3.70	63	55334	22.14	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	29032	20.39	ug/l	98
23) tert-Butyl Alcohol	3.06	59	65017	104.30	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	100598	20.73	ug/l	99
25) Chloroform	5.23	83	52458	21.17	ug/l	99
26) Cyclohexane	5.58	56	41345	21.10	ug/l #	99
29) 1,1-Dichloropropene	5.81	75	39645	21.66	ug/l	87
30) 2-Butanone	4.71	43	159143	112.98	ug/l	99
31) 2,2-Dichloropropane	4.60	77	39833	20.24	ug/l	97
32) 1,1,1-Trichloroethane	5.51	97	45717	20.65	ug/l	97
33) Carbon Tetrachloride	5.79	117	40158	20.42	ug/l	97
34) Benzene	6.15	78	114154	21.68	ug/l #	92
35) Methacrylonitrile	5.07	41	27983	21.58	ug/l	87
36) 1,2-Dichloroethane	6.21	62	45544	22.81	ug/l	99
37) Trichloroethene	7.22	130	32984	21.19	ug/l	94
38) Methylcyclohexane	7.47	83	47733	21.76	ug/l	98
39) 1,2-Dichloropropane	7.53	63	31793	24.19	ug/l	96
40) Dibromomethane	7.67	93	22596	22.31	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	41797	21.71	ug/l	99
42) Vinyl Acetate	3.83	43	451991	125.90	ug/l	99
43) Ethyl Acetate	4.87	43	54108	21.87	ug/l	97
44) Isopropyl Acetate	6.48	43	80789	22.26	ug/l	98
45) 1,4-Dioxane	7.77	88	19317	423.11	ug/l	98
46) Methyl methacrylate	7.79	41	41565	23.54	ug/l	93
47) n-amyl Acetate	10.91	43	72092	22.75	ug/l	97
48) t-1,3-Dichloropropene	8.45	75	48404	21.60	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	49025	22.48	ug/l	95
50) 1,1,2-Trichloroethane	9.23	97	32648	21.95	ug/l	97
51) Ethyl methacrylate	9.19	69	48422	21.25	ug/l	94
52) 1,3-Dichloropropane	9.38	76	53899	22.60	ug/l	99
53) Dibromochloromethane	9.59	129	35329	21.35	ug/l	98
54) 1,2-Dibromoethane	9.68	107	37054	22.35	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	110820	111.39	ug/l	96
56) Bromoform	10.87	173	27009	20.16	ug/l	96
58) 4-Methyl-2-Pentanone	8.66	43	311811	115.43	ug/l	99
59) 2-Hexanone	9.51	43	264270	115.54	ug/l	98
61) Tetrachloroethene	9.34	164	31155	20.81	ug/l	95
62) Toluene	8.79	91	138635	21.61	ug/l	99
64) Chlorobenzene	10.15	112	93428	21.55	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	31275	20.36	ug/l	98
66) Ethyl Benzene	10.26	91	157729	21.54	ug/l	99
67) m/p-Xylenes	10.37	106	122628	42.71	ug/l	99
68) o-Xylene	10.71	106	59413	21.30	ug/l	96
69) Styrene	10.72	104	98437	21.31	ug/l	98
70) Isopropylbenzene	11.02	105	160992	21.36	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	57299	22.09	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	53238m	22.88	ug/l	
73) Bromobenzene	11.26	156	41111	20.80	ug/l	94
74) n-propylbenzene	11.37	91	192334	21.77	ug/l	99
75) 2-Chlorotoluene	11.43	91	112450	22.13	ug/l	96
76) 1,3,5-Trimethylbenzene	11.51	105	136317	21.34	ug/l	69
77) t-1,4-Dichloro-2-butene	11.08	75	16496	20.05	ug/l	93
78) 4-Chlorotoluene	11.52	91	133988	22.01	ug/l	100
79) tert-butylbenzene	11.78	119	134275m	21.12	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	143817	22.07	ug/l	98
81) sec-Butylbenzene	11.96	105	170878	21.74	ug/l	99
82) p-Isopropyltoluene	12.07	119	148875	21.23	ug/l	98
83) 1,3-Dichlorobenzene	12.04	146	78395	20.83	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	81853	20.87	ug/l	99
85) n-Butylbenzene	12.40	91	142610	21.68	ug/l	99
86) Hexachloroethane	12.60	117	23163	19.77	ug/l	96
87) 1,2-Dichlorobenzene	12.40	146	77886	20.89	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	16152	22.27	ug/l	91
89) 1,2,4-Trichlorobenzene	13.65	180	88852	32.44	ug/l	99
90) Hexachlorobutadiene	13.79	225	24096	20.42	ug/l	99
91) Naphthalene	13.84	128	204478	21.37	ug/l	99
92) 1,2,3-Trichlorobenzene	14.03	180	55408	20.12	ug/l	97

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

