

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX030818\
 Data File : VX000217.D
 Acq On : 08 Mar 2018 11:31
 Operator : JC/MD
 Sample : VX0308WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0308WBSD01

Manual Integrations
 APPROVED

apatel
 3/9/2018 9:38:14 AM

Quant Time: Mar 08 13:12:27 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	23729	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	140149	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	138684	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	57923	31.54	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.13%
60) 4-Bromofluorobenzene	11.15	95	69175	30.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.63%
63) Toluene-d8	8.73	98	178335	30.02	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.07%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	20950	14.23	ug/l	100
3) Chloromethane	1.32	50	18427	12.48	ug/l	97
4) Vinyl Chloride	1.41	62	24446	13.92	ug/l	96
5) Bromomethane	1.64	94	20023	12.37	ug/l	98
6) Chloroethane	1.73	64	17608	15.66	ug/l	96
7) Trichlorofluoromethane	1.93	101	49637	16.32	ug/l	98
8) Diethyl Ether	2.20	74	19236	18.11	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.39	101	29551	17.80	ug/l	95
10) 1,1-Dichloroethene	2.38	96	23538	14.85	ug/l	86
11) Methyl Iodide	2.52	142	20842	13.52	ug/l	96
12) Methyl Acetate	2.78	43	69519	24.54	ug/l	100
13) Acrolein	2.30	56	62171	182.35	ug/l	98
14) Acrylonitrile	3.15	53	137220	111.77	ug/l	99
15) Acetone	2.45	58	50694	126.65	ug/l	97
16) Carbon Disulfide	2.57	76	33582	7.41	ug/l	99
17) Allyl chloride	2.73	41	50505	18.68	ug/l	95
18) Methylene Chloride	2.87	84	30691	17.76	ug/l	93
19) trans-1,2-Dichloroethene	3.17	96	25404	14.73	ug/l	90
20) Diisopropyl ether	3.88	45	106669	24.99	ug/l	95
21) 1,1-Dichloroethane	3.71	63	58864	20.92	ug/l	100
22) cis-1,2-Dichloroethene	4.61	96	29173	18.20	ug/l	96
23) tert-Butyl Alcohol	3.07	59	83527	119.02	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	117624	21.53	ug/l	96
25) Chloroform	5.23	83	58305	20.90	ug/l	93
26) Cyclohexane	5.59	56	30893	14.00	ug/l	# 98
29) 1,1-Dichloropropene	5.81	75	34406	16.86	ug/l	99
30) 2-Butanone	4.72	43	193976	123.47	ug/l	99
31) 2,2-Dichloropropane	4.60	77	44063	20.07	ug/l	98
32) 1,1,1-Trichloroethane	5.51	97	48396	19.60	ug/l	98
33) Carbon Tetrachloride	5.80	117	38590	17.60	ug/l	97
34) Benzene	6.15	78	109288	18.61	ug/l	94
35) Methacrylonitrile	5.07	41	32142	22.22	ug/l	89
36) 1,2-Dichloroethane	6.21	62	45147	20.27	ug/l	99
37) Trichloroethene	7.23	130	31450	18.12	ug/l	88
38) Methylcyclohexane	7.47	83	36189	14.79	ug/l	96
39) 1,2-Dichloropropane	7.52	63	30719	20.95	ug/l	94
40) Dibromomethane	7.67	93	24078	21.31	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	45417	21.15	ug/l	99
42) Vinyl Acetate	3.84	43	487184	121.67	ug/l	98
43) Ethyl Acetate	4.87	43	60866	22.06	ug/l	99
44) Isopropyl Acetate	6.48	43	91621	22.63	ug/l	97
45) 1,4-Dioxane	7.77	88	21903	430.14	ug/l	99
46) Methyl methacrylate	7.79	41	44113	22.40	ug/l	92
47) n-amyl Acetate	10.91	43	82139	23.24	ug/l	98
48) t-1,3-Dichloropropene	8.45	75	51403	20.56	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	51569	21.20	ug/l	95
50) 1,1,2-Trichloroethane	9.23	97	37842	22.81	ug/l	97
51) Ethyl methacrylate	9.19	69	53854	21.19	ug/l	90
52) 1,3-Dichloropropane	9.38	76	59187	22.25	ug/l	98
53) Dibromochloromethane	9.59	129	38703	20.97	ug/l	100
54) 1,2-Dibromoethane	9.68	107	38232	20.68	ug/l	98
55) 2-Chloroethyl vinyl ether	8.32	63	109295	98.49	ug/l	98
56) Bromoform	10.87	173	30421	20.35	ug/l	100
58) 4-Methyl-2-Pentanone	8.66	43	370318	121.91	ug/l	99
59) 2-Hexanone	9.51	43	317145	123.30	ug/l	98
61) Tetrachloroethene	9.34	164	28718	17.05	ug/l	95
62) Toluene	8.79	91	132811	18.41	ug/l	99
64) Chlorobenzene	10.15	112	98058	20.11	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.23	131	36631	21.21	ug/l	98
66) Ethyl Benzene	10.26	91	163575	19.86	ug/l	100
67) m/p-Xylenes	10.37	106	125727	38.94	ug/l	99
68) o-Xylene	10.71	106	63357	20.20	ug/l	99
69) Styrene	10.72	104	107685	20.73	ug/l	98
70) Isopropylbenzene	11.02	105	175892	20.75	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	69606	23.86	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	61597m	23.54	ug/l	
73) Bromobenzene	11.26	156	44820	20.17	ug/l	93
74) n-propylbenzene	11.37	91	211318	21.27	ug/l	98
75) 2-Chlorotoluene	11.43	91	119699	20.95	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	150727	20.98	ug/l	72
77) t-1,4-Dichloro-2-butene	11.09	75	19309	20.87	ug/l	86
78) 4-Chlorotoluene	11.52	91	144755	21.15	ug/l	99
79) tert-butylbenzene	11.78	119	156124m	21.83	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	154060	21.02	ug/l	99
81) sec-Butylbenzene	11.96	105	192342	21.76	ug/l	99
82) p-Isopropyltoluene	12.07	119	168511	21.37	ug/l	99
83) 1,3-Dichlorobenzene	12.04	146	90404	21.36	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	91080	20.65	ug/l	98
85) n-Butylbenzene	12.40	91	163503	22.11	ug/l	99
86) Hexachloroethane	12.60	117	28267	21.46	ug/l	93
87) 1,2-Dichlorobenzene	12.40	146	90923	21.68	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	20071	24.61	ug/l	87
89) 1,2,4-Trichlorobenzene	13.65	180	66023	21.44	ug/l	99
90) Hexachlorobutadiene	13.79	225	26477	19.95	ug/l	98
91) Naphthalene	13.84	128	240904	22.38	ug/l	99
92) 1,2,3-Trichlorobenzene	14.03	180	66455	21.46	ug/l	99

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

