

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022018\
 Data File : VX000117.D
 Acq On : 20 Feb 2018 19:37
 Operator : JC/MD
 Sample : VX0220WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0220WBSD01

Manual Integrations
 APPROVED

apatel
 2/22/2018 4:05:08 PM

Quant Time: Feb 21 06:37:06 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	5.04	128	16094	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	96798	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	93459	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	38812	31.16	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.87%
60) 4-Bromofluorobenzene	11.15	95	46622	30.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.63%
63) Toluene-d8	8.73	98	121240	30.29	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.97%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	20878	20.90	ug/l	94
3) Chloromethane	1.32	50	21222	21.20	ug/l	100
4) Vinyl Chloride	1.40	62	25587	21.48	ug/l	100
5) Bromomethane	1.64	94	21048	19.18	ug/l	99
6) Chloroethane	1.73	64	16105	21.12	ug/l	99
7) Trichlorofluoromethane	1.93	101	44098	21.37	ug/l	99
8) Diethyl Ether	2.20	74	14985	20.80	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.39	101	24078	21.39	ug/l	98
10) 1,1-Dichloroethene	2.38	96	23081	21.46	ug/l	94
11) Methyl Iodide	2.51	142	22142	21.18	ug/l	97
12) Methyl Acetate	2.79	43	39238	20.42	ug/l	95
13) Acrolein	2.30	56	20707	89.54	ug/l	100
14) Acrylonitrile	3.16	53	83716	100.54	ug/l	99
15) Acetone	2.45	58	25084	92.40	ug/l	97
16) Carbon Disulfide	2.57	76	63480	20.64	ug/l	97
17) Allyl chloride	2.73	41	37852	20.65	ug/l	96
18) Methylene Chloride	2.86	84	24932	21.28	ug/l	94
19) trans-1,2-Dichloroethene	3.17	96	24581	21.01	ug/l	95
20) Diisopropyl ether	3.89	45	60127	20.77	ug/l	97
21) 1,1-Dichloroethane	3.70	63	33455	17.53	ug/l	98
22) cis-1,2-Dichloroethene	4.61	96	22572	20.76	ug/l	99
23) tert-Butyl Alcohol	3.09	59	43276	90.92	ug/l #	100
24) Methyl tert-Butyl Ether	3.22	73	80405	21.70	ug/l	97
25) Chloroform	5.23	83	39222	20.73	ug/l	98
26) Cyclohexane	5.58	56	30495	20.38	ug/l #	97
29) 1,1-Dichloropropene	5.81	75	29400	20.86	ug/l	99
30) 2-Butanone	4.73	43	104709	96.50	ug/l	99
31) 2,2-Dichloropropane	4.60	77	30822	20.33	ug/l	99
32) 1,1,1-Trichloroethane	5.50	97	36414	21.35	ug/l	99
33) Carbon Tetrachloride	5.79	117	31534	20.82	ug/l	92
34) Benzene	6.15	78	84211	20.76	ug/l #	93
35) Methacrylonitrile	5.08	41	19991	20.01	ug/l	89
36) 1,2-Dichloroethane	6.21	62	32976	21.44	ug/l	98
37) Trichloroethene	7.23	130	24125	20.12	ug/l	94
38) Methylcyclohexane	7.47	83	34472	20.40	ug/l	97
39) 1,2-Dichloropropane	7.53	63	21688	21.42	ug/l	98
40) Dibromomethane	7.67	93	16758	21.48	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	30838	20.79	ug/l	95
42) Vinyl Acetate	3.84	43	278496	100.70	ug/l	100
43) Ethyl Acetate	4.88	43	37979	19.93	ug/l	100
44) Isopropyl Acetate	6.49	43	57963	20.73	ug/l	99
45) 1,4-Dioxane	7.77	88	13030	370.49	ug/l	100
46) Methyl methacrylate	7.79	41	27847	20.47	ug/l	98
47) n-amyl Acetate	10.91	43	50606	20.73	ug/l	97
48) t-1,3-Dichloropropene	8.45	75	35721	20.69	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	35388	21.06	ug/l	98
50) 1,1,2-Trichloroethane	9.23	97	23966	20.92	ug/l	98
51) Ethyl methacrylate	9.20	69	35858	20.43	ug/l	98
52) 1,3-Dichloropropane	9.38	76	38718	21.07	ug/l	98
53) Dibromochloromethane	9.59	129	26134	20.50	ug/l	97
54) 1,2-Dibromoethane	9.68	107	26213	20.53	ug/l	97
55) 2-Chloroethyl vinyl ether	8.32	63	84526	110.29	ug/l	99
56) Bromoform	10.87	173	20134	19.50	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	206554	100.90	ug/l	99
59) 2-Hexanone	9.51	43	168515	97.22	ug/l	99
61) Tetrachloroethene	9.34	164	22279	19.63	ug/l	96
62) Toluene	8.79	91	100040	20.57	ug/l	100
64) Chlorobenzene	10.15	112	67676	20.60	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.23	131	24098	20.70	ug/l	98
66) Ethyl Benzene	10.26	91	114885	20.70	ug/l	98
67) m/p-Xylenes	10.37	106	89939	41.33	ug/l	99
68) o-Xylene	10.71	106	43878	20.76	ug/l	100
69) Styrene	10.72	104	72925	20.83	ug/l	100
70) Isopropylbenzene	11.02	105	116453	20.38	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	41249	20.98	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	36074m	20.46	ug/l	
73) Bromobenzene	11.26	156	30101	20.10	ug/l	98
74) n-propylbenzene	11.37	91	137323	20.51	ug/l	100
75) 2-Chlorotoluene	11.43	91	79813	20.73	ug/l	99
76) 1,3,5-Trimethylbenzene	11.52	105	101609	20.99	ug/l	71
77) t-1,4-Dichloro-2-butene	11.09	75	11972	19.20	ug/l	94
78) 4-Chlorotoluene	11.52	91	94485	20.49	ug/l	99
79) tert-butylbenzene	11.78	119	98889m	20.52	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	104413	21.14	ug/l	98
81) sec-Butylbenzene	11.96	105	123984	20.81	ug/l	98
82) p-Isopropyltoluene	12.07	119	109066	20.52	ug/l	99
83) 1,3-Dichlorobenzene	12.04	146	58138	20.39	ug/l	99
84) 1,4-Dichlorobenzene	12.11	146	59938	20.17	ug/l	100
85) n-Butylbenzene	12.40	91	102826	20.63	ug/l	100
86) Hexachloroethane	12.60	117	17919	20.19	ug/l	98
87) 1,2-Dichlorobenzene	12.40	146	58991	20.88	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	10594	19.27	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	40899	19.71	ug/l	99
90) Hexachlorobutadiene	13.79	225	16960	18.97	ug/l	98
91) Naphthalene	13.84	128	147911	20.39	ug/l	100
92) 1,2,3-Trichlorobenzene	14.03	180	41737	20.00	ug/l	99

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

