

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051818\
 Data File : VX001806.D
 Acq On : 18 May 2018 04:14
 Operator : JC/MD
 Sample : VSTDIC010
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

MMDadoda
 5/21/2018 2:40:32 PM

Quant Time: May 18 06:58:48 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X051818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 18 06:08:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	59894	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	257747	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	204118	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	117468	27.62	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	92.07%
60) 4-Bromofluorobenzene	11.14	95	91888	28.84	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.13%
63) Toluene-d8	8.72	98	309678	33.17	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	110.57%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	18101	7.05	ug/l	98
3) Chloromethane	1.32	50	33109	10.59	ug/l	100
4) Vinyl Chloride	1.40	62	28312	8.96	ug/l	97
5) Bromomethane	1.64	94	22923	14.39	ug/l	97
6) Chloroethane	1.73	64	21481	10.03	ug/l	97
7) Trichlorofluoromethane	1.93	101	32463	7.43	ug/l	98
8) Diethyl Ether	2.19	74	22413	10.87	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	18897	7.83	ug/l	99
10) 1,1-Dichloroethene	2.37	96	22214	8.61	ug/l	97
11) Methyl Iodide	2.51	142	30346	7.89	ug/l	97
12) Methyl Acetate	2.78	43	55858	11.87	ug/l	98
13) Acrolein	2.30	56	30773	56.45	ug/l	100
14) Acrylonitrile	3.15	53	104046	55.93	ug/l	99
15) Acetone	2.45	58	29167	58.14	ug/l	97
16) Carbon Disulfide	2.57	76	53688	8.35	ug/l	99
17) Allyl chloride	2.73	41	47729	9.43	ug/l	93
18) Methylene Chloride	2.86	84	34060	10.66	ug/l	99
19) trans-1,2-Dichloroethene	3.17	96	27587	9.63	ug/l	97
20) Diisopropyl ether	3.88	45	105006	10.71	ug/l	98
21) 1,1-Dichloroethane	3.70	63	54818	10.01	ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	34816	10.46	ug/l	98
23) tert-Butyl Alcohol	3.08	59	43871	53.70	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	104638	10.61	ug/l	99
25) Chloroform	5.22	83	58496	10.26	ug/l	96
26) Cyclohexane	5.58	56	29997	7.87	ug/l	# 97
29) 1,1-Dichloropropene	5.80	75	30019	9.64	ug/l	99
30) 2-Butanone	4.72	43	141034	63.98	ug/l	100
31) 2,2-Dichloropropane	4.59	77	19844	7.82	ug/l	97
32) 1,1,1-Trichloroethane	5.50	97	41083	10.32	ug/l	98
33) Carbon Tetrachloride	5.79	117	32442	9.39	ug/l	99
34) Benzene	6.15	78	123846	11.87	ug/l	98
35) Methacrylonitrile	5.07	41	29501	12.40	ug/l	91
36) 1,2-Dichloroethane	6.20	62	48659	11.80	ug/l	100
37) Trichloroethene	7.22	130	33909	11.26	ug/l	100
38) Methylcyclohexane	7.46	83	27383	8.43	ug/l	100
39) 1,2-Dichloropropane	7.52	63	32544	12.28	ug/l	97
40) Dibromomethane	7.67	93	24037	12.65	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	40288	11.39	ug/l	99
42) Vinyl Acetate	3.83	43	352562	51.03	ug/l	100
43) Ethyl Acetate	4.87	43	53196	12.67	ug/l	98
44) Isopropyl Acetate	6.48	43	72300	11.31	ug/l	100
45) 1,4-Dioxane	7.76	88	18295	243.88	ug/l	100
46) Methyl methacrylate	7.79	41	38588	11.25	ug/l	98
47) n-amyl Acetate	10.90	43	48981	9.36	ug/l	98
48) t-1,3-Dichloropropene	8.44	75	41053	10.60	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	35734	10.45	ug/l	99
50) 1,1,2-Trichloroethane	9.22	97	31908	11.56	ug/l	98
51) Ethyl methacrylate	9.19	69	40934	10.32	ug/l	99
52) 1,3-Dichloropropane	9.38	76	51988	11.49	ug/l	100
53) Dibromochloromethane	9.59	129	30351	10.66	ug/l	98
54) 1,2-Dibromoethane	9.68	107	32939	11.41	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	120315	55.76	ug/l	99
56) Bromoform	10.86	173	23719	10.12	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	265206	67.74	ug/l	100
59) 2-Hexanone	9.51	43	177126	62.48	ug/l	98
61) Tetrachloroethene	9.34	164	31844	10.95	ug/l	97
62) Toluene	8.79	91	124072	12.42	ug/l	98
64) Chlorobenzene	10.15	112	72418	11.32	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	29169	11.81	ug/l	98
66) Ethyl Benzene	10.26	91	100019	10.08	ug/l	100
67) m/p-Xylenes	10.37	106	80653	20.39	ug/l	99
68) o-Xylene	10.70	106	41485	10.50	ug/l	97
69) Styrene	10.72	104	68031	10.37	ug/l	100
70) Isopropylbenzene	11.02	105	98654	9.89	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	46019	12.87	ug/l	98
72) 1,2,3-Trichloropropane	11.30	75	43341m	12.52	ug/l	
73) Bromobenzene	11.26	156	35355	11.33	ug/l	99
74) n-propylbenzene	11.37	91	101209	9.30	ug/l	100
75) 2-Chlorotoluene	11.43	91	71222	10.27	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	81507	9.72	ug/l	100
77) t-1,4-Dichloro-2-butene	11.08	75	8285	9.59	ug/l	94
78) 4-Chlorotoluene	11.52	91	77502	9.87	ug/l	98
79) tert-butylbenzene	12.07	119	78001	8.91	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	83249	9.70	ug/l	99
81) sec-Butylbenzene	11.95	105	85721	8.94	ug/l	100
82) p-Isopropyltoluene	12.07	119	78001	8.91	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	53921	10.12	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	53512	10.01	ug/l	99
85) n-Butylbenzene	12.40	91	53083	7.70	ug/l	99
86) Hexachloroethane	12.60	117	12709	9.02	ug/l	100
87) 1,2-Dichlorobenzene	12.40	146	58847	10.56	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	9057	11.02	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	34661	8.89	ug/l	99
90) Hexachlorobutadiene	13.79	225	17707	9.02	ug/l	99
91) Naphthalene	13.84	128	120465	9.99	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	40099	9.62	ug/l	97

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

