

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071218\
 Data File : VX003353.D
 Acq On : 12 Jul 2018 16:02
 Operator : JC/MD
 Sample : VX0712WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0712WBS01

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 11:35:54 AM

Quant Time: Jul 12 17:25:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 12 13:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	65835	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	6.87	114	332180	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	301218	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	122725	27.29	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	90.97%
60) 4-Bromofluorobenzene	11.14	95	142419	29.42	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.07%
63) Toluene-d8	8.72	98	402773	30.25	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	90041	18.017	ug/l 99
3) Chloromethane	1.32	50	85365	17.199	ug/l 99
4) Vinyl Chloride	1.40	62	94497	17.461	ug/l 100
5) Bromomethane	1.64	94	46151	20.568	ug/l 98
6) Chloroethane	1.73	64	56192	17.421	ug/l 97
7) Trichlorofluoromethane	1.93	101	126678	17.570	ug/l 99
8) Diethyl Ether	2.19	74	52133	17.682	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	76652	17.368	ug/l 97
10) 1,1-Dichloroethene	2.37	96	71695	17.507	ug/l 98
11) Methyl Iodide	2.51	142	67753	19.436	ug/l 93
12) Methyl Acetate	2.78	43	122575	18.437	ug/l 92
13) Acrolein	2.29	56	42894	83.033	ug/l 97
14) Acrylonitrile	3.15	53	217130	86.780	ug/l 99
15) Acetone	2.45	58	60711	92.558	ug/l 72
16) Carbon Disulfide	2.57	76	196744	16.819	ug/l 100
17) Allyl chloride	2.73	41	133898	17.190	ug/l 89
18) Methylene Chloride	2.86	84	82808	17.231	ug/l 94
19) trans-1,2-Dichloroethene	3.17	96	76277	17.272	ug/l 95
20) Diisopropyl ether	3.88	45	245164	17.419	ug/l 95
21) 1,1-Dichloroethane	3.70	63	146095	17.699	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	87133	18.558	ug/l 81
23) tert-Butyl Alcohol	3.07	59	97418	93.773	ug/l 100
24) Methyl tert-Butyl Ether	3.21	73	240820	17.608	ug/l # 90
25) Chloroform	5.23	83	139008	18.700	ug/l 93
26) Cyclohexane	5.58	56	120126	18.642	ug/l # 95
29) 1,1-Dichloropropene	5.80	75	98367	18.781	ug/l 97
30) 2-Butanone	4.71	43	284735	97.294	ug/l 93
31) 2,2-Dichloropropane	4.59	77	99851	17.652	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	113483	19.138	ug/l 98
33) Carbon Tetrachloride	5.78	117	97287	18.695	ug/l 96
34) Benzene	6.15	78	310234	20.115	ug/l 98
35) Methacrylonitrile	5.07	41	62625	20.227	ug/l 88
36) 1,2-Dichloroethane	6.20	62	102892	19.185	ug/l # 94
37) Trichloroethene	7.21	130	85859	20.131	ug/l 93
38) Methylcyclohexane	7.46	83	113437	19.162	ug/l 96
39) 1,2-Dichloropropane	7.52	63	78280	19.643	ug/l 99
40) Dibromomethane	7.67	93	50758	19.395	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	92309	18.876	ug/l	96
42) Vinyl Acetate	3.83	43	993102	88.330	ug/l	97
43) Ethyl Acetate	4.87	43	108197	19.464	ug/l	98
44) Isopropyl Acetate	6.47	43	162412	19.062	ug/l	93
45) 1,4-Dioxane	7.76	88	37513	412.494	ug/l #	83
46) Methyl methacrylate	7.78	41	83873	19.036	ug/l	87
47) n-amyl Acetate	10.90	43	132975	18.120	ug/l #	89
48) t-1,3-Dichloropropene	8.44	75	111814	18.786	ug/l	98
49) cis-1,3-Dichloropropene	9.04	75	98685	18.309	ug/l	92
50) 1,1,2-Trichloroethane	9.22	97	77599	19.659	ug/l	99
51) Ethyl methacrylate	9.18	69	108414	18.847	ug/l	85
52) 1,3-Dichloropropane	9.37	76	126813	19.560	ug/l	100
53) Dibromochloromethane	9.59	129	72900	18.480	ug/l	100
54) 1,2-Dibromoethane	9.68	107	78691	19.224	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	281913	103.877	ug/l	99
56) Bromoform	10.86	173	54388	18.033	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	536478	99.981	ug/l	92
59) 2-Hexanone	9.50	43	406459	98.902	ug/l	93
61) Tetrachloroethene	9.34	164	95477	20.710	ug/l	98
62) Toluene	8.79	91	328131	19.967	ug/l	100
64) Chlorobenzene	10.14	112	213981	19.663	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	74949	19.417	ug/l	99
66) Ethyl Benzene	10.26	91	354652	19.529	ug/l	100
67) m/p-Xylenes	10.36	106	275533	38.993	ug/l	98
68) o-Xylene	10.70	106	132879	19.544	ug/l	97
69) Styrene	10.71	104	217278	19.225	ug/l	97
70) Isopropylbenzene	11.02	105	355703	19.731	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	110757	19.589	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	99219m	15.004	ug/l	
73) Bromobenzene	11.26	156	97358	19.428	ug/l	96
74) n-propylbenzene	11.37	91	403870	19.235	ug/l	99
75) 2-Chlorotoluene	11.43	91	244161	19.440	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	293460	19.237	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	27978	17.715	ug/l	96
78) 4-Chlorotoluene	11.51	91	279876	19.076	ug/l	98
79) tert-butylbenzene	12.07	119	304167	18.826	ug/l	98
80) 1,2,4-Trimethylbenzene	11.81	105	297981	19.223	ug/l	98
81) sec-Butylbenzene	11.95	105	343457	19.030	ug/l	99
82) p-Isopropyltoluene	12.07	119	304167	18.826	ug/l	98
83) 1,3-Dichlorobenzene	12.03	146	175697	18.924	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	175359	18.713	ug/l	99
85) n-Butylbenzene	12.39	91	248259	17.501	ug/l	99
86) Hexachloroethane	12.60	117	40021	16.828	ug/l	99
87) 1,2-Dichlorobenzene	12.40	146	175564	18.916	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	20824	17.728	ug/l	94
89) 1,2,4-Trichlorobenzene	13.65	180	116411	17.470	ug/l	99
90) Hexachlorobutadiene	13.79	225	53374	16.348	ug/l	99
91) Naphthalene	13.84	128	340563	17.722	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	116674	17.271	ug/l	100

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

