

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\
 Data File : VX010985.D
 Acq On : 19 Jul 2019 02:14
 Operator : JC/SP
 Sample : VX0719WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0719WBS01

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 3:13:09 PM

Quant Time: Jul 19 03:49:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:27:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	39480	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	213606	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	193382	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	77829	29.08	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.93%
60) 4-Bromofluorobenzene	11.13	95	92413	29.03	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.77%
63) Toluene-d8	8.71	98	260986	30.70	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.33%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	51721	19.816 ug/l	95
3) Chloromethane	1.33	50	47421	20.660 ug/l	98
4) Vinyl Chloride	1.41	62	47842	19.988 ug/l	98
5) Bromomethane	1.64	94	31653	24.024 ug/l	99
6) Chloroethane	1.73	64	28426	20.074 ug/l	95
7) Trichlorofluoromethane	1.93	101	76619	19.275 ug/l	96
8) Diethyl Ether	2.19	74	24977	19.134 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.38	101	43403	19.755 ug/l	97
10) 1,1-Dichloroethene	2.37	96	43526	19.713 ug/l	99
11) Methyl Iodide	2.51	142	50893	17.164 ug/l	100
12) Methyl Acetate	2.78	43	62201	20.058 ug/l	94
13) Acrolein	2.29	56	35241	94.779 ug/l	97
14) Acrylonitrile	3.14	53	120481	99.266 ug/l	99
15) Acetone	2.44	58	33517	99.170 ug/l	97
16) Carbon Disulfide	2.57	76	108068	19.048 ug/l	98
17) Allyl chloride	2.73	41	59200	18.520 ug/l	98
18) Methylene Chloride	2.86	84	47492	19.317 ug/l	92
19) trans-1,2-Dichloroethene	3.17	96	44446	19.055 ug/l	97
20) Diisopropyl ether	3.86	45	130386	19.322 ug/l	91
21) 1,1-Dichloroethane	3.70	63	75319	19.395 ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	51640	19.250 ug/l	99
23) tert-Butyl Alcohol	3.04	59	61831	97.572 ug/l	100
24) Methyl tert-Butyl Ether	3.20	73	136753	19.294 ug/l	99
25) Chloroform	5.21	83	80807	18.999 ug/l	99
26) Cyclohexane	5.58	56	67274	18.932 ug/l #	97
29) 1,1-Dichloropropene	5.80	75	58921	19.614 ug/l	99
30) 2-Butanone	4.67	43	163617	100.904 ug/l	100
31) 2,2-Dichloropropane	4.59	77	44144	16.835 ug/l	98
32) 1,1,1-Trichloroethane	5.49	97	68957	19.036 ug/l	99
33) Carbon Tetrachloride	5.79	117	58749	18.653 ug/l	99
34) Benzene	6.14	78	179182	19.885 ug/l	98
35) Methacrylonitrile	5.04	41	32718	19.382 ug/l	97
36) 1,2-Dichloroethane	6.20	62	63285	19.642 ug/l	99
37) Trichloroethene	7.21	130	52188	19.783 ug/l	100
38) Methylcyclohexane	7.46	83	72403	19.098 ug/l	98
39) 1,2-Dichloropropane	7.51	63	44453	19.736 ug/l	97
40) Dibromomethane	7.66	93	33190	20.036 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	57025	18.913	ug/l	100
42) Vinyl Acetate	3.82	43	516661	96.712	ug/l	100
43) Ethyl Acetate	4.84	43	63193	20.302	ug/l	100
44) Isopropyl Acetate	6.45	43	98957	19.519	ug/l	99
45) 1,4-Dioxane	7.74	88	27259	413.103	ug/l	97
46) Methyl methacrylate	7.77	41	48299	19.628	ug/l	94
47) n-amyl Acetate	10.90	43	85631	18.833	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	57097	17.968	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	64628	18.637	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	49175	20.283	ug/l	96
51) Ethyl methacrylate	9.18	69	69856	18.631	ug/l	98
52) 1,3-Dichloropropane	9.37	76	76051	19.521	ug/l	98
53) Dibromochloromethane	9.58	129	47724	18.227	ug/l	99
54) 1,2-Dibromoethane	9.67	107	52008	19.739	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	153156	96.456	ug/l	99
56) Bromoform	10.85	173	34503	17.693	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	324335	99.310	ug/l	100
59) 2-Hexanone	9.49	43	250352	100.177	ug/l	100
61) Tetrachloroethene	9.33	164	52739	20.655	ug/l	94
62) Toluene	8.78	91	204826	19.938	ug/l	100
64) Chlorobenzene	10.13	112	129245	19.636	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	46338	19.371	ug/l	98
66) Ethyl Benzene	10.25	91	224106	19.378	ug/l	99
67) m/p-Xylenes	10.36	106	173434	39.196	ug/l	98
68) o-Xylene	10.69	106	85185	19.648	ug/l	100
69) Styrene	10.71	104	141857	19.466	ug/l	99
70) Isopropylbenzene	11.02	105	225926	19.569	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	72809	19.558	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	60788m	19.563	ug/l	
73) Bromobenzene	11.26	156	60335	19.370	ug/l	98
74) n-propylbenzene	11.36	91	250422	19.273	ug/l	100
75) 2-Chlorotoluene	11.42	91	150390	19.433	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	191953	19.643	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	17530	17.099	ug/l	96
78) 4-Chlorotoluene	11.51	91	171724	19.322	ug/l	99
79) tert-butylbenzene	11.77	119	182582	19.262	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	189973	19.305	ug/l	99
81) sec-Butylbenzene	11.94	105	217691	19.483	ug/l	99
82) p-Isopropyltoluene	12.06	119	198542	19.149	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	105105	19.113	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	104537	19.126	ug/l	99
85) n-Butylbenzene	12.38	91	166536	18.863	ug/l	99
86) Hexachloroethane	12.59	117	27993	17.119	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	106773	19.832	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	15415	18.809	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	70695	19.037	ug/l	100
90) Hexachlorobutadiene	13.78	225	34285	19.095	ug/l	99
91) Naphthalene	13.83	128	223718	19.744	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	73465	19.738	ug/l	99

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

