

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051019\
 Data File : VX009479.D
 Acq On : 10 May 2019 13:37
 Operator : JC/SP
 Sample : VX0510WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0510WBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/11/2019 11:52:05 AM

Quant Time: May 11 03:25:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	28046	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	160673	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	142602	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	68489	29.44	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.13%
60) 4-Bromofluorobenzene	11.13	95	72569	29.95	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.83%
63) Toluene-d8	8.71	98	203854	30.15	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	29088	19.519 ug/l	96
3) Chloromethane	1.32	50	43298	21.615 ug/l	100
4) Vinyl Chloride	1.41	62	42917	21.476 ug/l	99
5) Bromomethane	1.64	94	24088	19.016 ug/l	98
6) Chloroethane	1.72	64	28296	21.591 ug/l	99
7) Trichlorofluoromethane	1.93	101	53262	21.584 ug/l	98
8) Diethyl Ether	2.19	74	24007	20.952 ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.38	101	31809	20.820 ug/l	99
10) 1,1-Dichloroethene	2.37	96	33315	21.717 ug/l	95
11) Methyl Iodide	2.51	142	32246	19.337 ug/l	99
12) Methyl Acetate	2.78	43	56444	19.535 ug/l	96
13) Acrolein	2.29	56	42160	106.385 ug/l	100
14) Acrylonitrile	3.14	53	133812	106.712 ug/l	99
15) Acetone	2.44	58	36357	100.985 ug/l	100
16) Carbon Disulfide	2.57	76	92804	22.359 ug/l	100
17) Allyl chloride	2.73	41	77430	21.025 ug/l	99
18) Methylene Chloride	2.85	84	39900	21.522 ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	35301	21.583 ug/l	93
20) Diisopropyl ether	3.85	45	154517	21.305 ug/l	95
21) 1,1-Dichloroethane	3.70	63	74326	21.177 ug/l	99
22) cis-1,2-Dichloroethene	4.59	96	42099	21.368 ug/l	100
23) tert-Butyl Alcohol	3.04	59	51815	97.723 ug/l	# 100
24) Methyl tert-Butyl Ether	3.20	73	127242	21.195 ug/l	99
25) Chloroform	5.21	83	70530	22.021 ug/l	99
26) Cyclohexane	5.58	56	71463	21.847 ug/l	# 97
29) 1,1-Dichloropropene	5.80	75	51425	21.813 ug/l	99
30) 2-Butanone	4.67	43	195804	106.049 ug/l	100
31) 2,2-Dichloropropane	4.59	77	51756	19.913 ug/l	98
32) 1,1,1-Trichloroethane	5.50	97	56162	21.974 ug/l	97
33) Carbon Tetrachloride	5.79	117	46827	21.898 ug/l	99
34) Benzene	6.14	78	162317	22.332 ug/l	99
35) Methacrylonitrile	5.04	41	41403	21.433 ug/l	96
36) 1,2-Dichloroethane	6.19	62	58656	22.240 ug/l	99
37) Trichloroethene	7.21	130	37990	21.712 ug/l	96
38) Methylcyclohexane	7.46	83	63281	21.725 ug/l	100
39) 1,2-Dichloropropane	7.51	63	44929	21.707 ug/l	97
40) Dibromomethane	7.66	93	25809	21.969 ug/l	96

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	51710	21.549	ug/l	92
42) Vinyl Acetate	3.81	43	681250	111.794	ug/l	100
43) Ethyl Acetate	4.83	43	74727	22.398	ug/l	98
44) Isopropyl Acetate	6.45	43	116439	21.544	ug/l	99
45) 1,4-Dioxane	7.74	88	21075	397.161	ug/l	99
46) Methyl methacrylate	7.77	41	58002	21.501	ug/l	99
47) n-amyl Acetate	10.90	43	103493	21.256	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	58998	21.072	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	65100	21.180	ug/l	100
50) 1,1,2-Trichloroethane	9.21	97	40040	22.246	ug/l	98
51) Ethyl methacrylate	9.18	69	71442	21.480	ug/l	99
52) 1,3-Dichloropropane	9.37	76	70143	21.959	ug/l	100
53) Dibromochloromethane	9.58	129	38788	21.639	ug/l	98
54) 1,2-Dibromoethane	9.67	107	40381	21.876	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	161472	91.106	ug/l	99
56) Bromoform	10.85	173	28508	20.718	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	383045	109.241	ug/l	100
59) 2-Hexanone	9.49	43	293230	106.620	ug/l	99
61) Tetrachloroethene	9.33	164	34584	22.000	ug/l	97
62) Toluene	8.79	91	170650	22.395	ug/l	100
64) Chlorobenzene	10.14	112	101363	22.103	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	36675	21.841	ug/l	99
66) Ethyl Benzene	10.25	91	187746	22.117	ug/l	100
67) m/p-Xylenes	10.36	106	137659	44.416	ug/l	98
68) o-Xylene	10.69	106	66702	21.887	ug/l	99
69) Styrene	10.71	104	114821	21.463	ug/l	99
70) Isopropylbenzene	11.02	105	179719	21.928	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	65011	21.659	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	55470m	21.445	ug/l	
73) Bromobenzene	11.26	156	44065	21.760	ug/l	99
74) n-propylbenzene	11.36	91	204083	21.488	ug/l	100
75) 2-Chlorotoluene	11.42	91	121449	21.319	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	150735	21.712	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	20539	19.685	ug/l	96
78) 4-Chlorotoluene	11.51	91	139127	21.503	ug/l	100
79) tert-butylbenzene	11.77	119	145191	21.633	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	149507	21.486	ug/l	99
81) sec-Butylbenzene	11.94	105	170651	21.401	ug/l	99
82) p-Isopropyltoluene	12.06	119	155830	21.484	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	76733	21.218	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	76210	21.152	ug/l	99
85) n-Butylbenzene	12.38	91	135126	20.359	ug/l	100
86) Hexachloroethane	12.60	117	25258	20.464	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	78203	21.482	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	15022	21.537	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	53835	20.748	ug/l	99
90) Hexachlorobutadiene	13.78	225	27647	21.331	ug/l	99
91) Naphthalene	13.83	128	184504	21.718	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	56184	21.302	ug/l	99

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

