

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051719\
 Data File : VX009660.D
 Acq On : 17 May 2019 13:56
 Operator : JC/SP
 Sample : VX0517WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0517WBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 11:16:51 AM

Quant Time: May 18 05:25:29 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	28727	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	163062	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	146174	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	71015	29.80	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.33%
60) 4-Bromofluorobenzene	11.13	95	72691	29.27	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.57%
63) Toluene-d8	8.71	98	209311	30.20	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.67%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.20	85	24641	16.143	ug/l	100
3) Chloromethane	1.32	50	39682	19.340	ug/l	95
4) Vinyl Chloride	1.41	62	36699	17.929	ug/l	97
5) Bromomethane	1.64	94	24185	18.640	ug/l	99
6) Chloroethane	1.72	64	23646	17.615	ug/l	98
7) Trichlorofluoromethane	1.93	101	46207	18.282	ug/l	97
8) Diethyl Ether	2.19	74	22338	19.033	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.38	101	28235	18.043	ug/l	98
10) 1,1-Dichloroethene	2.37	96	28481	18.126	ug/l	99
11) Methyl Iodide	2.51	142	30568	17.896	ug/l	95
12) Methyl Acetate	2.78	43	58597	19.799	ug/l	97
13) Acrolein	2.29	56	48338	119.082	ug/l	99
14) Acrylonitrile	3.14	53	131006	101.998	ug/l	100
15) Acetone	2.45	58	35479	96.210	ug/l	97
16) Carbon Disulfide	2.57	76	73446	17.276	ug/l	98
17) Allyl chloride	2.73	41	70906	18.797	ug/l	96
18) Methylene Chloride	2.85	84	37080	19.526	ug/l	97
19) trans-1,2-Dichloroethene	3.17	96	30917	18.454	ug/l	96
20) Diisopropyl ether	3.85	45	142824	19.226	ug/l	94
21) 1,1-Dichloroethane	3.70	63	67869	18.879	ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	37792	18.728	ug/l	98
23) tert-Butyl Alcohol	3.05	59	55086	101.429	ug/l #	100
24) Methyl tert-Butyl Ether	3.20	73	116976	19.023	ug/l	99
25) Chloroform	5.21	83	63067	19.224	ug/l	96
26) Cyclohexane	5.58	56	61555	18.372	ug/l #	99
29) 1,1-Dichloropropene	5.80	75	45421	18.984	ug/l	99
30) 2-Butanone	4.67	43	195149	104.146	ug/l	99
31) 2,2-Dichloropropane	4.58	77	47983	18.191	ug/l	100
32) 1,1,1-Trichloroethane	5.50	97	51042	19.678	ug/l	97
33) Carbon Tetrachloride	5.78	117	41129	18.952	ug/l	96
34) Benzene	6.14	78	145551	19.732	ug/l	98
35) Methacrylonitrile	5.04	41	40492	20.654	ug/l	91
36) 1,2-Dichloroethane	6.19	62	54091	20.209	ug/l	99
37) Trichloroethene	7.21	130	33685	18.970	ug/l	92
38) Methylcyclohexane	7.46	83	54239	18.348	ug/l	99
39) 1,2-Dichloropropane	7.51	63	42156	20.068	ug/l	99
40) Dibromomethane	7.66	93	23525	19.732	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	46547	19.113	ug/l	95
42) Vinyl Acetate	3.82	43	627536	101.471	ug/l	100
43) Ethyl Acetate	4.84	43	71883	21.230	ug/l	99
44) Isopropyl Acetate	6.45	43	111677	20.360	ug/l	98
45) 1,4-Dioxane	7.74	88	22729	422.055	ug/l	98
46) Methyl methacrylate	7.77	41	54078	19.752	ug/l	99
47) n-amyl Acetate	10.90	43	97941	19.821	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	52618	18.518	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	58406	18.723	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	37094	20.307	ug/l	98
51) Ethyl methacrylate	9.18	69	65477	19.398	ug/l	99
52) 1,3-Dichloropropane	9.37	76	65193	20.110	ug/l	100
53) Dibromochloromethane	9.58	129	34697	19.073	ug/l	99
54) 1,2-Dibromoethane	9.67	107	36830	19.660	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	213633	118.771	ug/l	99
56) Bromoform	10.85	173	25724	18.421	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	379655	105.629	ug/l	99
59) 2-Hexanone	9.49	43	295788	104.922	ug/l	99
61) Tetrachloroethene	9.34	164	31292	19.419	ug/l	96
62) Toluene	8.79	91	151542	19.401	ug/l	100
64) Chlorobenzene	10.13	112	91575	19.480	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	33511	19.469	ug/l	98
66) Ethyl Benzene	10.25	91	166510	19.136	ug/l	99
67) m/p-Xylenes	10.36	106	121561	38.263	ug/l	99
68) o-Xylene	10.69	106	61178	19.584	ug/l	99
69) Styrene	10.71	104	105329	19.207	ug/l	99
70) Isopropylbenzene	11.02	105	162359	19.326	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	62597	20.345	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	53881m	20.322	ug/l	
73) Bromobenzene	11.26	156	40863	19.686	ug/l	99
74) n-propylbenzene	11.36	91	184036	18.903	ug/l	100
75) 2-Chlorotoluene	11.42	91	113061	19.362	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	137211	19.281	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	18903	17.674	ug/l	93
78) 4-Chlorotoluene	11.51	91	126538	19.079	ug/l	100
79) tert-butylbenzene	11.77	119	132292	19.230	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	136457	19.131	ug/l	98
81) sec-Butylbenzene	11.94	105	156240	19.115	ug/l	99
82) p-Isopropyltoluene	12.06	119	139932	18.820	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	70343	18.976	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	69897	18.926	ug/l	99
85) n-Butylbenzene	12.38	91	124325	18.274	ug/l	99
86) Hexachloroethane	12.59	117	23164	18.309	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	72427	19.409	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	14266	19.953	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	49974	18.790	ug/l	98
90) Hexachlorobutadiene	13.78	225	25883	19.482	ug/l	99
91) Naphthalene	13.83	128	164113	18.846	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	50957	18.848	ug/l	99

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

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