

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032219\
 Data File : VX008332.D
 Acq On : 22 Mar 2019 11:48
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 3/23/2019 9:33:42 AM

Quant Time: Mar 22 15:34:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 22 13:03:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	33278	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	173677	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	153348	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	67168	29.54	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.47%
60) 4-Bromofluorobenzene	11.13	95	74491	29.84	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.47%
63) Toluene-d8	8.71	98	205429	29.73	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	83892	46.984	ug/l 98
3) Chloromethane	1.33	50	86717	47.500	ug/l 96
4) Vinyl Chloride	1.41	62	97761	47.511	ug/l 100
5) Bromomethane	1.64	94	191401	51.313	ug/l 98
6) Chloroethane	1.73	64	67207	45.958	ug/l 93
7) Trichlorofluoromethane	1.93	101	151632	46.292	ug/l 95
8) Diethyl Ether	2.19	74	59905	47.156	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	83211	45.935	ug/l 99
10) 1,1-Dichloroethene	2.38	96	82847	46.332	ug/l 97
11) Methyl Iodide	2.51	142	130660	48.339	ug/l 96
12) Methyl Acetate	2.78	43	93158	47.745	ug/l 99
13) Acrolein	2.30	56	75080	245.630	ug/l 99
14) Acrylonitrile	3.15	53	230882	238.440	ug/l 99
15) Acetone	2.45	58	95820	252.352	ug/l 92
16) Carbon Disulfide	2.57	76	231827	46.759	ug/l 99
17) Allyl chloride	2.73	41	124673	47.251	ug/l 92
18) Methylene Chloride	2.86	84	90742	47.142	ug/l 93
19) trans-1,2-Dichloroethene	3.17	96	88260	46.499	ug/l 95
20) Diisopropyl ether	3.86	45	261653	47.426	ug/l 96
21) 1,1-Dichloroethane	3.70	63	155504	47.725	ug/l 100
22) cis-1,2-Dichloroethene	4.60	96	103119	47.103	ug/l 97
23) tert-Butyl Alcohol	3.05	59	91900	233.784	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	274351	47.758	ug/l 98
25) Chloroform	5.21	83	163900	47.420	ug/l 97
26) Cyclohexane	5.58	56	136562	47.391	ug/l # 99
29) 1,1-Dichloropropene	5.80	75	120808	48.975	ug/l 98
30) 2-Butanone	4.68	43	357061	251.309	ug/l 97
31) 2,2-Dichloropropane	4.59	77	112581	48.475	ug/l 98
32) 1,1,1-Trichloroethane	5.50	97	141522	48.760	ug/l 98
33) Carbon Tetrachloride	5.79	117	130362	48.906	ug/l 96
34) Benzene	6.15	78	362395	49.320	ug/l 97
35) Methacrylonitrile	5.04	41	64899	49.037	ug/l 94
36) 1,2-Dichloroethane	6.20	62	130464	48.172	ug/l 99
37) Trichloroethene	7.21	130	104586	48.411	ug/l 96
38) Methylcyclohexane	7.46	83	151636	49.048	ug/l 99
39) 1,2-Dichloropropane	7.51	63	90679	48.500	ug/l 99
40) Dibromomethane	7.66	93	67642	49.328	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	129215	49.659	ug/l	100
42) Vinyl Acetate	3.82	43	1186234	248.400	ug/l	99
43) Ethyl Acetate	4.84	43	124399m	49.574	ug/l	
44) Isopropyl Acetate	6.45	43	195650	49.571	ug/l	98
45) 1,4-Dioxane	7.74	88	48400	974.969	ug/l	98
46) Methyl methacrylate	7.77	41	95651	49.390	ug/l	98
47) n-amyl Acetate	10.90	43	170210	50.300	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	130887	50.241	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	146779	50.491	ug/l	100
50) 1,1,2-Trichloroethane	9.21	97	97208	49.345	ug/l	93
51) Ethyl methacrylate	9.18	69	148623	51.676	ug/l	97
52) 1,3-Dichloropropane	9.37	76	156393	49.501	ug/l	100
53) Dibromochloromethane	9.58	129	111471	50.197	ug/l	99
54) 1,2-Dibromoethane	9.67	107	107210	49.602	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	371293	256.600	ug/l	99
56) Bromoform	10.85	173	86890	49.561	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	632062	244.803	ug/l	96
59) 2-Hexanone	9.49	43	499242	244.439	ug/l	97
61) Tetrachloroethene	9.34	164	99982	48.435	ug/l	97
62) Toluene	8.79	91	396014	48.652	ug/l	99
64) Chlorobenzene	10.13	112	251166	47.863	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	100075	49.933	ug/l	98
66) Ethyl Benzene	10.25	91	432816	49.167	ug/l	100
67) m/p-Xylenes	10.36	106	341975	97.744	ug/l	100
68) o-Xylene	10.69	106	164375	48.907	ug/l	98
69) Styrene	10.71	104	281326	49.579	ug/l	98
70) Isopropylbenzene	11.02	105	430493	48.683	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	145337	48.199	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	121164m	48.141	ug/l	
73) Bromobenzene	11.26	156	118241	48.328	ug/l	97
74) n-propylbenzene	11.36	91	477568	48.451	ug/l	99
75) 2-Chlorotoluene	11.42	91	284533	48.338	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	365554	48.390	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	44060	51.203	ug/l	92
78) 4-Chlorotoluene	11.51	91	332512	47.997	ug/l	98
79) tert-butylbenzene	12.06	119	389693	49.041	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	364633	48.575	ug/l	99
81) sec-Butylbenzene	11.94	105	411681	47.778	ug/l	99
82) p-Isopropyltoluene	12.06	119	389693	49.041	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	203132	47.835	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	201879	47.738	ug/l	97
85) n-Butylbenzene	12.39	91	328116	48.004	ug/l	99
86) Hexachloroethane	12.60	117	67090	48.988	ug/l	91
87) 1,2-Dichlorobenzene	12.39	146	200162	47.795	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	32745	47.438	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	145128	48.964	ug/l	100
90) Hexachlorobutadiene	13.78	225	71550	47.953	ug/l	97
91) Naphthalene	13.83	128	437956	49.197	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	143725	47.965	ug/l	99

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

