

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100218\
 Data File : VX004912.D
 Acq On : 02 Oct 2018 10:58
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 4:23:24 PM

Quant Time: Oct 03 04:37:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X100218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 03 04:23:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	47930	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	272540	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	252419	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	109097	29.95	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.83%
60) 4-Bromofluorobenzene	11.14	95	124867	29.76	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.20%
63) Toluene-d8	8.72	98	339301	30.11	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	199064	53.344	ug/l 99
3) Chloromethane	1.32	50	196447	50.738	ug/l 99
4) Vinyl Chloride	1.40	62	204468	51.658	ug/l 99
5) Bromomethane	1.64	94	93844	49.409	ug/l 97
6) Chloroethane	1.71	64	114741	50.493	ug/l 100
7) Trichlorofluoromethane	1.92	101	256607	50.894	ug/l 98
8) Diethyl Ether	2.19	74	102997	50.111	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.38	101	143965	49.719	ug/l 100
10) 1,1-Dichloroethene	2.37	96	136681	49.836	ug/l 99
11) Methyl Iodide	2.51	142	112345	50.311	ug/l 99
12) Methyl Acetate	2.78	43	283642	51.288	ug/l 97
13) Acrolein	2.29	56	122482	239.704	ug/l 99
14) Acrylonitrile	3.15	53	559852	247.719	ug/l 99
15) Acetone	2.45	58	190754	252.497	ug/l 100
16) Carbon Disulfide	2.56	76	408479	50.780	ug/l 99
17) Allyl chloride	2.72	41	313393	51.386	ug/l 94
18) Methylene Chloride	2.85	84	158542	49.708	ug/l 98
19) trans-1,2-Dichloroethene	3.16	96	146658	50.051	ug/l 98
20) Diisopropyl ether	3.87	45	517997	49.815	ug/l 95
21) 1,1-Dichloroethane	3.70	63	284714	49.694	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	162530	50.136	ug/l 99
23) tert-Butyl Alcohol	3.08	59	254087	243.515	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	503644	49.970	ug/l 100
25) Chloroform	5.21	83	270819	50.225	ug/l 98
26) Cyclohexane	5.57	56	248873	50.616	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	201710	50.015	ug/l 99
30) 2-Butanone	4.70	43	816463	249.003	ug/l 99
31) 2,2-Dichloropropane	4.58	77	219020	49.498	ug/l 100
32) 1,1,1-Trichloroethane	5.49	97	231814	50.003	ug/l 99
33) Carbon Tetrachloride	5.78	117	203248	49.919	ug/l 99
34) Benzene	6.14	78	614416	50.204	ug/l 98
35) Methacrylonitrile	5.06	41	153419	50.348	ug/l 97
36) 1,2-Dichloroethane	6.20	62	219529	49.792	ug/l 98
37) Trichloroethene	7.21	130	160767	49.870	ug/l 99
38) Methylcyclohexane	7.46	83	242148	50.572	ug/l 98
39) 1,2-Dichloropropane	7.52	63	163072	50.009	ug/l 97
40) Dibromomethane	7.66	93	105850	50.083	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	203901	50.044	ug/l	98
42) Vinyl Acetate	3.82	43	2359102	248.685	ug/l	99
43) Ethyl Acetate	4.86	43	273516	50.568	ug/l	99
44) Isopropyl Acetate	6.46	43	405732	50.266	ug/l	100
45) 1,4-Dioxane	7.76	88	97477	1025.036	ug/l	97
46) Methyl methacrylate	7.78	41	212795	50.813	ug/l	99
47) n-amyl Acetate	10.90	43	370318	49.727	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	236807	47.961	ug/l	98
49) cis-1,3-Dichloropropene	8.44	75	254980	53.394	ug/l	98
50) 1,1,2-Trichloroethane	9.22	97	159681	49.903	ug/l	99
51) Ethyl methacrylate	9.18	69	257995	50.805	ug/l	99
52) 1,3-Dichloropropane	9.37	76	268670	49.770	ug/l	100
53) Dibromochloromethane	9.59	129	166111	50.037	ug/l	99
54) 1,2-Dibromoethane	9.68	107	165620	49.666	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	687226	256.467	ug/l	100
56) Bromoform	10.86	173	134927	48.668	ug/l	100
58) 4-Methyl-2-Pentanone	8.65	43	1434177	253.051	ug/l	100
59) 2-Hexanone	9.50	43	1179362	252.571	ug/l	100
61) Tetrachloroethene	9.34	164	156190	50.846	ug/l	96
62) Toluene	8.79	91	673797	50.792	ug/l	99
64) Chlorobenzene	10.14	112	427107	49.854	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	156695	50.315	ug/l	99
66) Ethyl Benzene	10.26	91	732206	50.558	ug/l	99
67) m/p-Xylenes	10.36	106	572662	101.553	ug/l	98
68) o-Xylene	10.70	106	277112	50.980	ug/l	98
69) Styrene	10.71	104	465866	50.969	ug/l	99
70) Isopropylbenzene	11.02	105	736697	50.613	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	265298	49.072	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	244695m	49.681	ug/l	
73) Bromobenzene	11.26	156	197109	49.264	ug/l	98
74) n-propylbenzene	11.36	91	865292	50.525	ug/l	99
75) 2-Chlorotoluene	11.42	91	522470	50.021	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	631840	50.311	ug/l	100
77) t-1,4-Dichloro-2-butene	11.08	75	80673	49.818	ug/l	92
78) 4-Chlorotoluene	11.51	91	604461	49.789	ug/l	100
79) tert-butylbenzene	12.07	119	676426	50.751	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	649150	50.684	ug/l	100
81) sec-Butylbenzene	11.94	105	741857	50.042	ug/l	100
82) p-Isopropyltoluene	12.07	119	676426	50.751	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	363779	49.168	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	369371	49.195	ug/l	100
85) n-Butylbenzene	12.39	91	608746	50.286	ug/l	100
86) Hexachloroethane	12.60	117	106500	48.510	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	369660	49.150	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	61055	48.872	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	280496	49.995	ug/l	98
90) Hexachlorobutadiene	13.79	225	135067	48.764	ug/l	99
91) Naphthalene	13.83	128	902753	51.748	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	286264	49.759	ug/l	99

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

