

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100218\
 Data File : VX004914.D
 Acq On : 02 Oct 2018 11:51
 Operator : JC/MD
 Sample : VSTDIC200
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDIC200

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 4:23:26 PM

Quant Time: Oct 03 04:42:30 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	5.02	128	44590	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	268203	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	255089	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	105214	31.05	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.50%
60) 4-Bromofluorobenzene	11.14	95	133294	31.44	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	104.80%
63) Toluene-d8	8.72	98	327634	28.77	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	744440	214.434	ug/l 99
3) Chloromethane	1.32	50	772339	214.421	ug/l 100
4) Vinyl Chloride	1.40	62	762640	207.112	ug/l 100
5) Bromomethane	1.64	94	389349	220.347	ug/l 98
6) Chloroethane	1.70	64	380434	179.954	ug/l 100
7) Trichlorofluoromethane	1.91	101	947653	202.032	ug/l 99
8) Diethyl Ether	2.19	74	390620	204.282	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	537168	199.411	ug/l 99
10) 1,1-Dichloroethene	2.36	96	522784	204.892	ug/l 99
11) Methyl Iodide	2.50	142	618728	297.835	ug/l 99
12) Methyl Acetate	2.78	43	1025297	199.279	ug/l 99
13) Acrolein	2.30	56	476523	1002.438	ug/l 99
14) Acrylonitrile	3.16	53	2089447	993.774	ug/l 99
15) Acetone	2.46	58	597364	849.946	ug/l 99
16) Carbon Disulfide	2.56	76	1583235	211.563	ug/l 100
17) Allyl chloride	2.72	41	1095325	193.051	ug/l 95
18) Methylene Chloride	2.85	84	585314	197.260	ug/l 97
19) trans-1,2-Dichloroethene	3.15	96	553474	203.038	ug/l 99
20) Diisopropyl ether	3.87	45	1967897	203.425	ug/l 95
21) 1,1-Dichloroethane	3.69	63	1048567	196.728	ug/l 100
22) cis-1,2-Dichloroethene	4.59	96	617905	204.884	ug/l 98
23) tert-Butyl Alcohol	3.12	59	1007243m	1037.642	ug/l
24) Methyl tert-Butyl Ether	3.21	73	1901374	202.781	ug/l 100
25) Chloroform	5.22	83	1010110	201.363	ug/l 98
26) Cyclohexane	5.57	56	963416	210.618	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	779951	196.520	ug/l 99
30) 2-Butanone	4.71	43	2880291	892.631	ug/l 100
31) 2,2-Dichloropropane	4.58	77	842166	193.404	ug/l 100
32) 1,1,1-Trichloroethane	5.49	97	891827	195.480	ug/l 99
33) Carbon Tetrachloride	5.78	117	792375	197.759	ug/l 99
34) Benzene	6.14	78	2310852	191.873	ug/l 99
35) Methacrylonitrile	5.07	41	572483	190.911	ug/l 98
36) 1,2-Dichloroethane	6.20	62	814952	187.832	ug/l 99
37) Trichloroethene	7.21	130	614596	193.732	ug/l 98
38) Methylcyclohexane	7.46	83	962223	204.209	ug/l 97
39) 1,2-Dichloropropane	7.52	63	624980	194.761	ug/l 96
40) Dibromomethane	7.66	93	403070	193.797	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	803231	200.328	ug/l	97
42) Vinyl Acetate	3.83	43	8734762	935.665	ug/l	99
43) Ethyl Acetate	4.87	43	1009825	189.718	ug/l	99
44) Isopropyl Acetate	6.47	43	1601312	201.594	ug/l	100
45) 1,4-Dioxane	7.76	88	362662	3875.303	ug/l	97
46) Methyl methacrylate	7.78	41	841310	204.146	ug/l	97
47) n-amyl Acetate	10.90	43	1669914	227.865	ug/l	97
48) t-1,3-Dichloropropene	9.04	75	973077	200.268	ug/l	98
49) cis-1,3-Dichloropropene	8.44	75	1011584	215.255	ug/l	99
50) 1,1,2-Trichloroethane	9.22	97	610097	193.750	ug/l	99
51) Ethyl methacrylate	9.18	69	1080648	216.243	ug/l	99
52) 1,3-Dichloropropane	9.37	76	1032042	194.271	ug/l	100
53) Dibromochloromethane	9.58	129	682137	208.800	ug/l	100
54) 1,2-Dibromoethane	9.68	107	647024	197.168	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	2673766	1013.962	ug/l	100
56) Bromoform	10.86	173	640970	234.935	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	5662915	988.725	ug/l	98
59) 2-Hexanone	9.51	43	4711345	998.416	ug/l	99
61) Tetrachloroethene	9.34	164	574947	185.208	ug/l	97
62) Toluene	8.79	91	2549510	190.175	ug/l	100
64) Chlorobenzene	10.14	112	1679676	194.010	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	628848	199.809	ug/l	99
66) Ethyl Benzene	10.26	91	2918737	199.426	ug/l	98
67) m/p-Xylenes	10.36	106	2273289	398.916	ug/l	96
68) o-Xylene	10.70	106	1118078	203.539	ug/l	98
69) Styrene	10.71	104	1932659	209.232	ug/l	99
70) Isopropylbenzene	11.02	105	2966269	201.659	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	1164951	213.226	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	990683m	199.037	ug/l	
73) Bromobenzene	11.26	156	828951	205.014	ug/l	99
74) n-propylbenzene	11.37	91	3516485	203.181	ug/l	98
75) 2-Chlorotoluene	11.43	91	2140699	202.806	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	2634273	207.560	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	407349	248.918	ug/l	90
78) 4-Chlorotoluene	11.51	91	2554018	208.169	ug/l	99
79) tert-butylbenzene	12.07	119	2836442	210.584	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	2705349	209.017	ug/l	99
81) sec-Butylbenzene	11.95	105	3126828	208.711	ug/l	100
82) p-Isopropyltoluene	12.07	119	2836442	210.584	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	1578952	211.176	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	1598272	210.640	ug/l	99
85) n-Butylbenzene	12.39	91	2717488	222.130	ug/l	98
86) Hexachloroethane	12.60	117	516081	232.609	ug/l	99
87) 1,2-Dichlorobenzene	12.40	146	1615469	212.545	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	279349	221.266	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	1262704	222.705	ug/l	100
90) Hexachlorobutadiene	13.79	225	594924	212.540	ug/l	99
91) Naphthalene	13.83	128	3852120	218.501	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	1247163	214.513	ug/l	100

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

