

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX031119\
 Data File : VX007967.D
 Acq On : 11 Mar 2019 13:30
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 3/12/2019 1:10:09 PM

Quant Time: Mar 12 08:34:39 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X030819W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri Mar 08 12:01:36 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	41439	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	220594	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	193707	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	80840	29.68	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.93%
60) 4-Bromofluorobenzene	11.13	95	91930	29.73	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.10%
63) Toluene-d8	8.71	98	265356	29.93	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.77%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	46103	18.740	ug/l 99
3) Chloromethane	1.33	50	48590	17.762	ug/l 95
4) Vinyl Chloride	1.41	62	49557	18.288	ug/l 97
5) Bromomethane	1.65	94	25027	18.526	ug/l 98
6) Chloroethane	1.73	64	29336	18.537	ug/l 94
7) Trichlorofluoromethane	1.93	101	64218	19.031	ug/l 99
8) Diethyl Ether	2.19	74	34753	19.999	ug/l 91
9) 1,1,2-Trichlorotrifluoroet	2.39	101	48668	19.184	ug/l 98
10) 1,1-Dichloroethene	2.38	96	48051	19.983	ug/l 91
11) Methyl Iodide	2.51	142	57873	15.375	ug/l 94
12) Methyl Acetate	2.78	43	73490	19.325	ug/l 96
13) Acrolein	2.30	56	45543	102.079	ug/l 97
14) Acrylonitrile	3.15	53	161574	100.087	ug/l 99
15) Acetone	2.45	58	45620	78.272	ug/l 98
16) Carbon Disulfide	2.57	76	147846	19.597	ug/l 99
17) Allyl chloride	2.73	41	95874	19.448	ug/l 89
18) Methylene Chloride	2.86	84	53575	19.557	ug/l 98
19) trans-1,2-Dichloroethene	3.17	96	50551	19.869	ug/l 98
20) Diisopropyl ether	3.87	45	177733	19.707	ug/l 93
21) 1,1-Dichloroethane	3.70	63	97228	19.822	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	57971	19.753	ug/l 91
23) tert-Butyl Alcohol	3.07	59	63655	97.739	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	167294	20.235	ug/l 95
25) Chloroform	5.21	83	91453	19.754	ug/l 100
26) Cyclohexane	5.58	56	86613	19.110	ug/l # 92
29) 1,1-Dichloropropene	5.80	75	69220	19.790	ug/l 97
30) 2-Butanone	4.70	43	221042	93.699	ug/l 97
31) 2,2-Dichloropropane	4.59	77	64968	20.110	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	77586	20.513	ug/l 99
33) Carbon Tetrachloride	5.78	117	67562	20.139	ug/l 96
34) Benzene	6.15	78	218255	20.362	ug/l 98
35) Methacrylonitrile	5.06	41	46668	20.301	ug/l 92
36) 1,2-Dichloroethane	6.20	62	69750	20.001	ug/l 98
37) Trichloroethene	7.21	130	59287	20.415	ug/l 94
38) Methylcyclohexane	7.46	83	83838	18.853	ug/l 96
39) 1,2-Dichloropropane	7.52	63	57049	20.408	ug/l 99
40) Dibromomethane	7.66	93	35719	20.144	ug/l 90

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Quant Time: Mar 12 08:34:39 2019
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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 08 12:01:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	67468	20.130	ug/l	99
42) Vinyl Acetate	3.82	43	778204	101.907	ug/l	97
43) Ethyl Acetate	4.85	43	80487	19.587	ug/l #	81
44) Isopropyl Acetate	6.46	43	125987	20.094	ug/l	98
45) 1,4-Dioxane	7.75	88	23331	355.676	ug/l	90
46) Methyl methacrylate	7.77	41	65550	19.879	ug/l	90
47) n-amyl Acetate	10.90	43	106566	19.726	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	72814	20.060	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	81664	19.868	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	55412	20.502	ug/l	96
51) Ethyl methacrylate	9.18	69	82097	20.029	ug/l	93
52) 1,3-Dichloropropane	9.37	76	91095	20.398	ug/l	100
53) Dibromochloromethane	9.58	129	56430	20.298	ug/l	100
54) 1,2-Dibromoethane	9.67	107	58322	20.640	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	183675	96.346	ug/l	99
56) Bromoform	10.85	173	44215	19.939	ug/l #	97
58) 4-Methyl-2-Pentanone	8.65	43	413136	103.591	ug/l	99
59) 2-Hexanone	9.49	43	311028	98.797	ug/l	99
61) Tetrachloroethene	9.34	164	58801	20.809	ug/l	96
62) Toluene	8.79	91	228075	20.164	ug/l	99
64) Chlorobenzene	10.14	112	145781	20.222	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	54080	20.952	ug/l	99
66) Ethyl Benzene	10.25	91	241871	19.908	ug/l	98
67) m/p-Xylenes	10.36	106	185917	39.908	ug/l	97
68) o-Xylene	10.70	106	90134	19.925	ug/l	97
69) Styrene	10.71	104	149385	20.042	ug/l	99
70) Isopropylbenzene	11.02	105	242736	20.081	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.27	83	82559	20.680	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	77910m	20.704	ug/l	
73) Bromobenzene	11.26	156	65667	20.434	ug/l	97
74) n-propylbenzene	11.36	91	268537	19.695	ug/l	99
75) 2-Chlorotoluene	11.42	91	163293	19.981	ug/l	96
76) 1,3,5-Trimethylbenzene	11.51	105	200988	20.063	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	21849	18.792	ug/l	93
78) 4-Chlorotoluene	11.51	91	184133	19.927	ug/l	96
79) tert-butylbenzene	12.06	119	213296	19.841	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	207116	20.371	ug/l	97
81) sec-Butylbenzene	11.94	105	237311	19.708	ug/l	99
82) p-Isopropyltoluene	12.06	119	213296	19.841	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	113973	19.920	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	113975	19.910	ug/l	99
85) n-Butylbenzene	12.38	91	174975	19.032	ug/l	99
86) Hexachloroethane	12.60	117	33691	19.234	ug/l	82
87) 1,2-Dichlorobenzene	12.39	146	115076	20.351	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	16239	19.914	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	80324	19.766	ug/l	99
90) Hexachlorobutadiene	13.78	225	42615	19.014	ug/l	97
91) Naphthalene	13.83	128	239209	20.535	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	81161	20.093	ug/l	99

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

