

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112719\
 Data File : VX013652.D
 Acq On : 27 Nov 2019 15:00
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

apatel
 12/2/2019 3:17:24 PM

Quant Time: Nov 29 04:32:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	113119	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	649136	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	576015	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	244186	29.23	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.43%
60) 4-Bromofluorobenzene	11.14	95	271648	29.34	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.80%
63) Toluene-d8	8.71	98	782484	30.04	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	174310	20.566	ug/l 100
3) Chloromethane	1.32	50	188883	20.448	ug/l 97
4) Vinyl Chloride	1.40	62	216703	20.647	ug/l 99
5) Bromomethane	1.63	94	119515	18.941	ug/l 96
6) Chloroethane	1.72	64	125555	21.762	ug/l 100
7) Trichlorofluoromethane	1.92	101	232626	20.587	ug/l 99
8) Diethyl Ether	2.18	74	104846	20.322	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	140728	20.700	ug/l 99
10) 1,1-Dichloroethene	2.37	96	140227	20.072	ug/l 98
11) Methyl Iodide	2.50	142	165771	19.217	ug/l 98
12) Methyl Acetate	2.76	43	255614	20.880	ug/l 99
13) Acrolein	2.28	56	108785	83.658	ug/l 98
14) Acrylonitrile	3.13	53	454912	101.055	ug/l 99
15) Acetone	2.43	58	146085	107.148	ug/l 99
16) Carbon Disulfide	2.56	76	368786	18.926	ug/l 99
17) Allyl chloride	2.72	41	251956	19.584	ug/l 98
18) Methylene Chloride	2.85	84	161485	20.373	ug/l 98
19) trans-1,2-Dichloroethene	3.16	96	152645	20.444	ug/l 97
20) Diisopropyl ether	3.84	45	512546	20.707	ug/l 88
21) 1,1-Dichloroethane	3.69	63	274657	20.373	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	175746	20.646	ug/l 97
23) tert-Butyl Alcohol	3.03	59	206968	95.535	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	473553	20.481	ug/l 100
25) Chloroform	5.20	83	274722	20.818	ug/l 100
26) Cyclohexane	5.58	56	247645	20.228	ug/l # 100
29) 1,1-Dichloropropene	5.79	75	203304	20.505	ug/l 98
30) 2-Butanone	4.66	43	680854	104.037	ug/l 99
31) 2,2-Dichloropropane	4.57	77	212602	19.800	ug/l 100
32) 1,1,1-Trichloroethane	5.48	97	229169	20.795	ug/l 97
33) Carbon Tetrachloride	5.78	117	192895	20.152	ug/l 98
34) Benzene	6.14	78	630709	20.972	ug/l 99
35) Methacrylonitrile	5.03	41	133887	20.487	ug/l 97
36) 1,2-Dichloroethane	6.19	62	221068	21.001	ug/l 100
37) Trichloroethene	7.21	130	170381	21.148	ug/l 98
38) Methylcyclohexane	7.46	83	251299	20.671	ug/l 99
39) 1,2-Dichloropropane	7.51	63	158051	20.325	ug/l 99
40) Dibromomethane	7.65	93	106063	20.495	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	204176	20.211	ug/l	97
42) Vinyl Acetate	3.80	43	2104125	102.122	ug/l	100
43) Ethyl Acetate	4.82	43	251369	21.060	ug/l	97
44) Isopropyl Acetate	6.44	43	391258	20.392	ug/l	99
45) 1,4-Dioxane	7.73	88	86662	409.115	ug/l	97
46) Methyl methacrylate	7.76	41	188911	19.794	ug/l	99
47) n-amyl Acetate	10.89	43	330787	19.655	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	221090	19.517	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	247356	19.928	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	157364	20.550	ug/l	99
51) Ethyl methacrylate	9.17	69	254312	20.170	ug/l	99
52) 1,3-Dichloropropane	9.37	76	271218	20.718	ug/l	99
53) Dibromochloromethane	9.58	129	160659	19.795	ug/l	97
54) 1,2-Dibromoethane	9.67	107	169102	20.651	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	477672	88.666	ug/l	99
56) Bromoform	10.85	173	125835	19.482	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	1259401	104.661	ug/l	99
59) 2-Hexanone	9.48	43	975970	102.508	ug/l	99
61) Tetrachloroethene	9.33	164	152311	21.443	ug/l	97
62) Toluene	8.78	91	675320	21.048	ug/l	100
64) Chlorobenzene	10.14	112	422967	21.084	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	154570	20.583	ug/l	99
66) Ethyl Benzene	10.25	91	736205	20.886	ug/l	98
67) m/p-Xylenes	10.36	106	562716	41.386	ug/l	99
68) o-Xylene	10.70	106	273240	20.823	ug/l	99
69) Styrene	10.71	104	465757	20.786	ug/l	100
70) Isopropylbenzene	11.01	105	724258	20.946	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	256267	20.699	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	203044m	19.423	ug/l	
73) Bromobenzene	11.25	156	187092	20.518	ug/l	99
74) n-propylbenzene	11.35	91	813790	20.710	ug/l	99
75) 2-Chlorotoluene	11.42	91	483279	20.682	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	607958	20.918	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	77668	18.375	ug/l	92
78) 4-Chlorotoluene	11.51	91	543898	20.316	ug/l	99
79) tert-butylbenzene	11.77	119	607859	20.729	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	596539	20.597	ug/l	100
81) sec-Butylbenzene	11.94	105	691099	20.657	ug/l	100
82) p-Isopropyltoluene	12.06	119	633432	20.549	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	328250	20.475	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	326926	20.544	ug/l	98
85) n-Butylbenzene	12.39	91	527842	19.840	ug/l	99
86) Hexachloroethane	12.59	117	106758	18.873	ug/l	100
87) 1,2-Dichlorobenzene	12.39	146	326361	20.359	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	12.99	75	53942	19.483	ug/l	98
89) 1,2,4-Trichlorobenzene	13.64	180	218313	19.751	ug/l	98
90) Hexachlorobutadiene	13.78	225	103262	19.496	ug/l	96
91) Naphthalene	13.83	128	692011	19.774	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	221043	19.789	ug/l	99

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

