

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX121719\
 Data File : VX014069.D
 Acq On : 17 Dec 2019 22:48
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

apatel
 12/18/2019 11:04:42 AM

Quant Time: Dec 18 08:06:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 13 01:35:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	90226	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	498622	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	450945	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	192751	29.83	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.43%
60) 4-Bromofluorobenzene	11.14	95	212674	29.21	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.37%
63) Toluene-d8	8.71	98	614054	30.46	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.53%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	81471	17.876	ug/l 98
3) Chloromethane	1.32	50	125790	19.582	ug/l 97
4) Vinyl Chloride	1.40	62	127783	19.405	ug/l 100
5) Bromomethane	1.63	94	80240	16.669	ug/l 99
6) Chloroethane	1.72	64	78080	19.196	ug/l 97
7) Trichlorofluoromethane	1.92	101	161145	19.666	ug/l 99
8) Diethyl Ether	2.18	74	75890	20.149	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	2.37	101	96507	19.748	ug/l 97
10) 1,1-Dichloroethene	2.37	96	99673	19.728	ug/l 97
11) Methyl Iodide	2.50	142	117809	18.113	ug/l 98
12) Methyl Acetate	2.76	43	160811	20.560	ug/l 97
13) Acrolein	2.28	56	105458	111.164	ug/l 100
14) Acrylonitrile	3.13	53	322508	105.474	ug/l 98
15) Acetone	2.43	58	130322	145.085	ug/l 90
16) Carbon Disulfide	2.56	76	264044	19.292	ug/l 97
17) Allyl chloride	2.72	41	177145	19.512	ug/l 92
18) Methylene Chloride	2.85	84	115264	18.618	ug/l 98
19) trans-1,2-Dichloroethene	3.15	96	107403	19.412	ug/l 97
20) Diisopropyl ether	3.84	45	359632	19.305	ug/l 97
21) 1,1-Dichloroethane	3.69	63	192748	19.064	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	121914	19.008	ug/l 99
23) tert-Butyl Alcohol	3.03	59	133412	111.239	ug/l 100
24) Methyl tert-Butyl Ether	3.18	73	330786	19.381	ug/l 96
25) Chloroform	5.20	83	189368	19.645	ug/l 98
26) Cyclohexane	5.57	56	173484	19.243	ug/l 99
29) 1,1-Dichloropropene	5.79	75	141002	19.577	ug/l 99
30) 2-Butanone	4.65	43	504640	118.871	ug/l 100
31) 2,2-Dichloropropane	4.58	77	132685	19.916	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	156784	19.681	ug/l 99
33) Carbon Tetrachloride	5.78	117	131467	19.413	ug/l 96
34) Benzene	6.14	78	448688	19.979	ug/l 98
35) Methacrylonitrile	5.03	41	91749	20.095	ug/l 98
36) 1,2-Dichloroethane	6.18	62	152675	19.571	ug/l 99
37) Trichloroethene	7.21	130	124494	20.372	ug/l 95
38) Methylcyclohexane	7.46	83	165759	19.294	ug/l 99
39) 1,2-Dichloropropane	7.51	63	111757	19.160	ug/l 95
40) Dibromomethane	7.65	93	74307	19.942	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	138983	19.263	ug/l	99
42) Vinyl Acetate	3.80	43	1024584	68.359	ug/l	98
43) Ethyl Acetate	4.81	43	172652	21.195	ug/l	99
44) Isopropyl Acetate	6.43	43	275612	20.201	ug/l	100
45) 1,4-Dioxane	7.73	88	54832	429.165	ug/l	98
46) Methyl methacrylate	7.76	41	133930	20.210	ug/l	98
47) n-amyl Acetate	10.89	43	223193	18.398	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	152057	19.309	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	174034	19.652	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	114348	19.884	ug/l	99
51) Ethyl methacrylate	9.17	69	177998	19.459	ug/l	97
52) 1,3-Dichloropropane	9.37	76	191401	19.590	ug/l	97
53) Dibromochloromethane	9.57	129	110014	19.132	ug/l	98
54) 1,2-Dibromoethane	9.67	107	117024	19.765	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	397916	98.683	ug/l	99
56) Bromoform	10.85	173	83466	18.613	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	887030	105.131	ug/l	100
59) 2-Hexanone	9.48	43	703473	109.865	ug/l	100
61) Tetrachloroethene	9.33	164	173266	29.044	ug/l	95
62) Toluene	8.78	91	478232	19.940	ug/l	99
64) Chlorobenzene	10.14	112	298724	19.881	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	106805	19.196	ug/l	98
66) Ethyl Benzene	10.25	91	514287	19.594	ug/l	98
67) m/p-Xylenes	10.35	106	392270	39.097	ug/l	100
68) o-Xylene	10.70	106	191674	19.284	ug/l	99
69) Styrene	10.71	104	317448	18.781	ug/l	99
70) Isopropylbenzene	11.01	105	501378	19.520	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	160595	17.630	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	166339m	20.515	ug/l	
73) Bromobenzene	11.25	156	129900	18.945	ug/l	98
74) n-propylbenzene	11.35	91	557315	19.130	ug/l	98
75) 2-Chlorotoluene	11.42	91	338695	19.241	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	410350	18.833	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	50786	18.968	ug/l	97
78) 4-Chlorotoluene	11.51	91	379584	18.871	ug/l	99
79) tert-butylbenzene	11.76	119	354484	16.878	ug/l	93
80) 1,2,4-Trimethylbenzene	11.80	105	408329	18.742	ug/l	99
81) sec-Butylbenzene	11.94	105	473557	18.957	ug/l	100
82) p-Isopropyltoluene	12.06	119	425312	18.866	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	222518	18.619	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	217080	18.241	ug/l	99
85) n-Butylbenzene	12.39	91	341781	18.032	ug/l	99
86) Hexachloroethane	12.59	117	72715	17.780	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	223835	18.439	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.99	75	34821	19.179	ug/l	94
89) 1,2,4-Trichlorobenzene	13.64	180	137138	17.676	ug/l	100
90) Hexachlorobutadiene	13.78	225	70120	19.014	ug/l	97
91) Naphthalene	13.83	128	429573	18.421	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	144681	18.386	ug/l	99

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

