

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120719\
 Data File : VX0137837.D
 Acq On : 07 Dec 2019 13:13
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Manual Integrations
 APPROVED

apatel
 12/9/2019 2:07:22 PM

Quant Time: Dec 09 02:40:34 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	5.00	128	109989	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	624377	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	557986	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	234334	28.85	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.17%
60) 4-Bromofluorobenzene	11.13	95	268095	29.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.63%
63) Toluene-d8	8.71	98	757214	30.01	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.03%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	155537	18.874	ug/l 100
3) Chloromethane	1.32	50	167220	18.618	ug/l 100
4) Vinyl Chloride	1.40	62	192303	18.843	ug/l 98
5) Bromomethane	1.64	94	101586	16.558	ug/l 99
6) Chloroethane	1.72	64	103000	18.360	ug/l 99
7) Trichlorofluoromethane	1.92	101	206774	18.820	ug/l 98
8) Diethyl Ether	2.18	74	92118	18.363	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	128959	19.509	ug/l 100
10) 1,1-Dichloroethene	2.37	96	124044	18.261	ug/l 95
11) Methyl Iodide	2.50	142	134348	16.017	ug/l 98
12) Methyl Acetate	2.76	43	205513	17.266	ug/l 97
13) Acrolein	2.28	56	113402	89.690	ug/l 99
14) Acrylonitrile	3.13	53	360842	82.439	ug/l 99
15) Acetone	2.43	58	134604	101.536	ug/l 96
16) Carbon Disulfide	2.56	76	336785	17.775	ug/l 100
17) Allyl chloride	2.72	41	223667	17.880	ug/l 98
18) Methylene Chloride	2.85	84	147379	19.122	ug/l 97
19) trans-1,2-Dichloroethene	3.15	96	135289	18.635	ug/l 98
20) Diisopropyl ether	3.84	45	453400	18.839	ug/l # 83
21) 1,1-Dichloroethane	3.69	63	242738	18.518	ug/l 96
22) cis-1,2-Dichloroethene	4.58	96	155417	18.777	ug/l 97
23) tert-Butyl Alcohol	3.03	59	154150	73.180	ug/l 100
24) Methyl tert-Butyl Ether	3.18	73	411616	18.309	ug/l 100
25) Chloroform	5.19	83	240194	18.720	ug/l 93
26) Cyclohexane	5.56	56	223329	18.761	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	185595	19.461	ug/l 97
30) 2-Butanone	4.65	43	561515	89.204	ug/l 99
31) 2,2-Dichloropropane	4.57	77	198766	19.245	ug/l 100
32) 1,1,1-Trichloroethane	5.48	97	201776	19.035	ug/l 98
33) Carbon Tetrachloride	5.78	117	170375	18.505	ug/l 98
34) Benzene	6.13	78	556482	19.238	ug/l 98
35) Methacrylonitrile	5.03	41	112572	17.908	ug/l 95
36) 1,2-Dichloroethane	6.18	62	191513	18.915	ug/l 100
37) Trichloroethene	7.20	130	149263	19.261	ug/l 99
38) Methylcyclohexane	7.46	83	227815	19.482	ug/l 98
39) 1,2-Dichloropropane	7.50	63	143005	19.120	ug/l 97
40) Dibromomethane	7.65	93	91486	18.380	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	179363	18.459	ug/l	99
42) Vinyl Acetate	3.80	43	1808442	91.252	ug/l	100
43) Ethyl Acetate	4.81	43	194665	16.956	ug/l	96
44) Isopropyl Acetate	6.43	43	324703	17.595	ug/l	99
45) 1,4-Dioxane	7.73	88	64728	317.686	ug/l	98
46) Methyl methacrylate	7.76	41	164081	17.874	ug/l	97
47) n-amyl Acetate	10.89	43	279280	17.253	ug/l	100
48) t-1,3-Dichloropropene	9.03	75	196700	18.053	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	222477	18.634	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	138813	18.846	ug/l	98
51) Ethyl methacrylate	9.17	69	219377	18.089	ug/l	97
52) 1,3-Dichloropropane	9.37	76	239056	18.985	ug/l	98
53) Dibromochloromethane	9.57	129	144789	18.547	ug/l	98
54) 1,2-Dibromoethane	9.67	107	146080	18.547	ug/l	97
55) 2-Chloroethyl vinyl ether	8.30	63	357219	68.937	ug/l	99
56) Bromoform	10.85	173	105527	16.986	ug/l	98
58) 4-Methyl-2-Pentanone	8.63	43	1019161	87.433	ug/l	100
59) 2-Hexanone	9.48	43	793680	86.055	ug/l	99
61) Tetrachloroethene	9.33	164	140377	20.402	ug/l	93
62) Toluene	8.78	91	592210	19.054	ug/l	99
64) Chlorobenzene	10.14	112	377060	19.403	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	136386	18.749	ug/l	100
66) Ethyl Benzene	10.25	91	665466	19.489	ug/l	100
67) m/p-Xylenes	10.35	106	509556	38.687	ug/l	99
68) o-Xylene	10.70	106	245593	19.321	ug/l	97
69) Styrene	10.71	104	413049	19.029	ug/l	99
70) Isopropylbenzene	11.01	105	647890	19.343	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	216551	18.056	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	199034m	19.655	ug/l	
73) Bromobenzene	11.25	156	166725	18.875	ug/l	99
74) n-propylbenzene	11.35	91	744850	19.568	ug/l	100
75) 2-Chlorotoluene	11.42	91	438671	19.380	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	545867	19.389	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	64947	15.862	ug/l	97
78) 4-Chlorotoluene	11.51	91	498174	19.209	ug/l	100
79) tert-butylbenzene	11.76	119	534651	18.822	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	541566	19.303	ug/l	99
81) sec-Butylbenzene	11.94	105	634733	19.585	ug/l	100
82) p-Isopropyltoluene	12.06	119	579006	19.390	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	297187	19.137	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	298458	19.362	ug/l	98
85) n-Butylbenzene	12.38	91	497350	19.298	ug/l	99
86) Hexachloroethane	12.59	117	99707	18.196	ug/l	99
87) 1,2-Dichlorobenzene	12.38	146	294177	18.944	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	45393	16.925	ug/l	95
89) 1,2,4-Trichlorobenzene	13.64	180	196330	18.336	ug/l	96
90) Hexachlorobutadiene	13.77	225	98338	19.166	ug/l	96
91) Naphthalene	13.83	128	581648	17.157	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	197318	18.236	ug/l	99

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

