

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121919\
 Data File : VX014117.D
 Acq On : 19 Dec 2019 13:42
 Operator : JC/SP
 Sample : VX1219WBSD02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX1219WBSD02

Manual Integrations
 APPROVED

apatel
 12/20/2019 10:12:51 AM

Quant Time: Dec 20 02:41:10 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	85824	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	459218	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	425045	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	181109	29.47	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.23%
60) 4-Bromofluorobenzene	11.13	95	202685	29.53	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.43%
63) Toluene-d8	8.71	98	568745	29.94	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	73935	17.054	ug/l 99
3) Chloromethane	1.32	50	110136	18.025	ug/l 97
4) Vinyl Chloride	1.40	62	111101	17.737	ug/l 98
5) Bromomethane	1.63	94	72958	15.933	ug/l 99
6) Chloroethane	1.72	64	72793	18.814	ug/l 99
7) Trichlorofluoromethane	1.92	101	141660	18.175	ug/l 98
8) Diethyl Ether	2.18	74	69978	19.532	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	2.37	101	86226	18.549	ug/l 99
10) 1,1-Dichloroethene	2.36	96	86295	17.956	ug/l 94
11) Methyl Iodide	2.50	142	112048	18.111	ug/l 99
12) Methyl Acetate	2.76	43	144290	19.394	ug/l 97
13) Acrolein	2.28	56	107104	118.690	ug/l 99
14) Acrylonitrile	3.13	53	294766	101.345	ug/l 99
15) Acetone	2.43	58	90087	105.437	ug/l 88
16) Carbon Disulfide	2.56	76	232429	17.853	ug/l 99
17) Allyl chloride	2.72	41	159583	18.479	ug/l 95
18) Methylene Chloride	2.84	84	107230	18.209	ug/l 95
19) trans-1,2-Dichloroethene	3.15	96	95449	18.137	ug/l 96
20) Diisopropyl ether	3.84	45	335001	18.905	ug/l 93
21) 1,1-Dichloroethane	3.69	63	174183	18.111	ug/l 99
22) cis-1,2-Dichloroethene	4.58	96	110994	18.193	ug/l 99
23) tert-Butyl Alcohol	3.03	59	119501	104.751	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	300002	18.479	ug/l 98
25) Chloroform	5.20	83	171024	18.652	ug/l 96
26) Cyclohexane	5.56	56	153211	17.866	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	127086	19.159	ug/l 97
30) 2-Butanone	4.65	43	419937	107.406	ug/l 100
31) 2,2-Dichloropropane	4.56	77	128743	20.982	ug/l 97
32) 1,1,1-Trichloroethane	5.48	97	135934	18.527	ug/l 99
33) Carbon Tetrachloride	5.77	117	113491	18.197	ug/l 94
34) Benzene	6.13	78	394182	19.058	ug/l 98
35) Methacrylonitrile	5.03	41	85158	20.251	ug/l 95
36) 1,2-Dichloroethane	6.18	62	139781	19.455	ug/l 100
37) Trichloroethene	7.20	130	105956	18.827	ug/l 96
38) Methylcyclohexane	7.45	83	153852	19.444	ug/l 99
39) 1,2-Dichloropropane	7.50	63	106700	19.862	ug/l 99
40) Dibromomethane	7.65	93	68220	19.879	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	129302	19.459	ug/l	99
42) Vinyl Acetate	3.80	43	1447542	104.865	ug/l	100
43) Ethyl Acetate	4.81	43	161332	21.504	ug/l	97
44) Isopropyl Acetate	6.43	43	251121	19.985	ug/l	100
45) 1,4-Dioxane	7.73	88	50960	433.084	ug/l	98
46) Methyl methacrylate	7.76	41	122027	19.994	ug/l	97
47) n-amyl Acetate	10.89	43	204347	18.290	ug/l	99
48) t-1,3-Dichloropropene	9.03	75	138394	19.082	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	160426	19.669	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	104613	19.752	ug/l	97
51) Ethyl methacrylate	9.17	69	161086	19.121	ug/l	98
52) 1,3-Dichloropropane	9.36	76	176142	19.575	ug/l	100
53) Dibromochloromethane	9.57	129	101952	19.251	ug/l	99
54) 1,2-Dibromoethane	9.67	107	109646	20.107	ug/l	96
55) 2-Chloroethyl vinyl ether	8.30	63	373565	100.594	ug/l	100
56) Bromoform	10.85	173	74752	18.100	ug/l	99
58) 4-Methyl-2-Pentanone	8.63	43	804790	101.196	ug/l	100
59) 2-Hexanone	9.48	43	602043	99.753	ug/l	99
61) Tetrachloroethene	9.33	164	106094	18.868	ug/l	98
62) Toluene	8.78	91	423824	18.748	ug/l	99
64) Chlorobenzene	10.14	112	268764	18.977	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	97573	18.606	ug/l	100
66) Ethyl Benzene	10.25	91	454613	18.376	ug/l	97
67) m/p-Xylenes	10.35	106	348427	36.843	ug/l	98
68) o-Xylene	10.69	106	168874	18.025	ug/l	99
69) Styrene	10.71	104	288833	18.129	ug/l	99
70) Isopropylbenzene	11.01	105	448936	18.543	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.26	83	161592	18.821	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	135005m	17.665	ug/l	
73) Bromobenzene	11.25	156	119739	18.527	ug/l	97
74) n-propylbenzene	11.35	91	503233	18.326	ug/l	99
75) 2-Chlorotoluene	11.42	91	304692	18.364	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	373879	18.204	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	48636	19.272	ug/l	96
78) 4-Chlorotoluene	11.51	91	348378	18.375	ug/l	99
79) tert-butylbenzene	11.76	119	352821	17.823	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	373011	18.164	ug/l	100
81) sec-Butylbenzene	11.94	105	425808	18.084	ug/l	99
82) p-Isopropyltoluene	12.06	119	383063	18.027	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	202707	17.995	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	203950	18.182	ug/l	99
85) n-Butylbenzene	12.39	91	319913	17.907	ug/l	100
86) Hexachloroethane	12.59	117	67072	17.400	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	205990	18.003	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.99	75	34361	20.079	ug/l	95
89) 1,2,4-Trichlorobenzene	13.64	180	130364	17.827	ug/l	99
90) Hexachlorobutadiene	13.78	225	61936	17.818	ug/l	98
91) Naphthalene	13.83	128	400012	18.199	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	133890	18.051	ug/l	98

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

