

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX123019\
 Data File : VX014348.D
 Acq On : 30 Dec 2019 12:40
 Operator : JC/SP
 Sample : VX1230WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX1230WBSD01

Manual Integrations
 APPROVED

apatel
 12/31/2019 9:32:35 AM

Quant Time: Dec 31 02:13:04 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	82040	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	449329	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	410277	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	174053	29.62	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.73%
60) 4-Bromofluorobenzene	11.13	95	197133	29.76	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.20%
63) Toluene-d8	8.71	98	559425	30.50	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	80884	19.518	ug/l 99
3) Chloromethane	1.32	50	119664	20.487	ug/l 97
4) Vinyl Chloride	1.40	62	120358	20.101	ug/l 100
5) Bromomethane	1.63	94	75669	17.288	ug/l 99
6) Chloroethane	1.72	64	77253	20.888	ug/l 92
7) Trichlorofluoromethane	1.92	101	154302	20.710	ug/l 98
8) Diethyl Ether	2.18	74	72490	21.167	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	94450	21.255	ug/l 100
10) 1,1-Dichloroethene	2.37	96	93779	20.413	ug/l 98
11) Methyl Iodide	2.50	142	109197	18.464	ug/l 99
12) Methyl Acetate	2.76	43	160541	22.573	ug/l 99
13) Acrolein	2.28	56	121992	141.424	ug/l 99
14) Acrylonitrile	3.12	53	314701	113.190	ug/l 99
15) Acetone	2.43	58	89211	109.227	ug/l 95
16) Carbon Disulfide	2.56	76	253785	20.392	ug/l 98
17) Allyl chloride	2.72	41	175406	21.248	ug/l 96
18) Methylene Chloride	2.84	84	115892	20.588	ug/l 96
19) trans-1,2-Dichloroethene	3.16	96	102150	20.305	ug/l 95
20) Diisopropyl ether	3.84	45	363043	21.432	ug/l 94
21) 1,1-Dichloroethane	3.69	63	189464	20.609	ug/l 100
22) cis-1,2-Dichloroethene	4.58	96	118708	20.355	ug/l 97
23) tert-Butyl Alcohol	3.02	59	133260	122.199	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	325072	20.947	ug/l 98
25) Chloroform	5.19	83	183250	20.908	ug/l 98
26) Cyclohexane	5.57	56	175301	21.384	ug/l 97
29) 1,1-Dichloropropene	5.78	75	136131	20.974	ug/l 99
30) 2-Butanone	4.65	43	440734	115.207	ug/l 100
31) 2,2-Dichloropropane	4.57	77	143523	23.906	ug/l 99
32) 1,1,1-Trichloroethane	5.48	97	146828	20.453	ug/l 99
33) Carbon Tetrachloride	5.77	117	126532	20.734	ug/l 97
34) Benzene	6.13	78	435681	21.528	ug/l 99
35) Methacrylonitrile	5.02	41	92318	22.437	ug/l 99
36) 1,2-Dichloroethane	6.18	62	152808	21.737	ug/l 98
37) Trichloroethene	7.20	130	114402	20.775	ug/l 98
38) Methylcyclohexane	7.45	83	173535	22.415	ug/l 100
39) 1,2-Dichloropropane	7.50	63	112097	21.326	ug/l 93
40) Dibromomethane	7.65	93	73370	21.850	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.89	83	139558	21.465	ug/l	97
42) Vinyl Acetate	3.80	43	1562240	115.665	ug/l	100
43) Ethyl Acetate	4.81	43	165228	22.508	ug/l #	86
44) Isopropyl Acetate	6.43	43	272128	22.134	ug/l	100
45) 1,4-Dioxane	7.73	88	58131	504.899	ug/l	99
46) Methyl methacrylate	7.76	41	132015	22.106	ug/l	96
47) n-amyl Acetate	10.89	43	226152	20.687	ug/l	99
48) t-1,3-Dichloropropene	9.03	75	153162	21.583	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	177816	22.281	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	110375	21.299	ug/l	96
51) Ethyl methacrylate	9.17	69	175626	21.306	ug/l	99
52) 1,3-Dichloropropane	9.36	76	191486	21.749	ug/l	100
53) Dibromochloromethane	9.57	129	111839	21.583	ug/l	99
54) 1,2-Dibromoethane	9.67	107	115514	21.650	ug/l	100
55) 2-Chloroethyl vinyl ether	8.30	63	371529	102.247	ug/l	99
56) Bromoform	10.85	173	83605	20.690	ug/l	98
58) 4-Methyl-2-Pentanone	8.63	43	865725	112.776	ug/l	99
59) 2-Hexanone	9.48	43	658515	113.038	ug/l	99
61) Tetrachloroethene	9.33	164	119279	21.976	ug/l	96
62) Toluene	8.78	91	462062	21.175	ug/l	100
64) Chlorobenzene	10.13	112	286146	20.931	ug/l	94
65) 1,1,1,2-Tetrachloroethane	10.21	131	103591	20.464	ug/l	98
66) Ethyl Benzene	10.25	91	506486	21.210	ug/l	98
67) m/p-Xylenes	10.36	106	386546	42.345	ug/l	100
68) o-Xylene	10.69	106	188234	20.815	ug/l	99
69) Styrene	10.71	104	312781	20.339	ug/l	100
70) Isopropylbenzene	11.01	105	491250	21.021	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	170519	20.576	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	146151m	19.812	ug/l	
73) Bromobenzene	11.25	156	127239	20.396	ug/l	98
74) n-propylbenzene	11.35	91	567918	21.426	ug/l	99
75) 2-Chlorotoluene	11.42	91	339803	21.217	ug/l	97
76) 1,3,5-Trimethylbenzene	11.50	105	412297	20.798	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	54365	22.317	ug/l	91
78) 4-Chlorotoluene	11.51	91	378430	20.678	ug/l	98
79) tert-butylbenzene	11.76	119	387926	20.302	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	409041	20.635	ug/l	99
81) sec-Butylbenzene	11.94	105	472140	20.773	ug/l	99
82) p-Isopropyltoluene	12.06	119	431193	21.023	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	220953	20.320	ug/l	100
84) 1,4-Dichlorobenzene	12.09	146	223182	20.613	ug/l	99
85) n-Butylbenzene	12.39	91	365228	21.179	ug/l	100
86) Hexachloroethane	12.59	117	74404	19.997	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	225786	20.444	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	34481	20.874	ug/l	96
89) 1,2,4-Trichlorobenzene	13.64	180	145927	20.673	ug/l	99
90) Hexachlorobutadiene	13.78	225	69827	20.812	ug/l	95
91) Naphthalene	13.83	128	443035	20.882	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	148222	20.703	ug/l	100

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

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