

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX123019\
 Data File : VX014347.D
 Acq On : 30 Dec 2019 12:05
 Operator : JC/SP
 Sample : VX1230WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1230WBS01

Manual Integrations
 APPROVED

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

Quant Time: Dec 31 01:38:16 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	85159	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	470569	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	426469	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	177283	29.07	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.90%
60) 4-Bromofluorobenzene	11.13	95	207163	30.08	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.27%
63) Toluene-d8	8.71	98	582824	30.57	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	87752	20.399	ug/l 97
3) Chloromethane	1.32	50	125908	20.767	ug/l 99
4) Vinyl Chloride	1.40	62	128156	20.620	ug/l 98
5) Bromomethane	1.63	94	76919	16.930	ug/l 96
6) Chloroethane	1.72	64	83989	21.877	ug/l 99
7) Trichlorofluoromethane	1.92	101	164776	21.305	ug/l 100
8) Diethyl Ether	2.18	74	74572	20.977	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	101624	22.032	ug/l 99
10) 1,1-Dichloroethene	2.37	96	98561	20.668	ug/l 98
11) Methyl Iodide	2.50	142	109545	17.845	ug/l 97
12) Methyl Acetate	2.76	43	155736	21.095	ug/l 99
13) Acrolein	2.28	56	121845	136.080	ug/l 100
14) Acrylonitrile	3.12	53	308638	106.944	ug/l 98
15) Acetone	2.43	58	91259	107.642	ug/l 86
16) Carbon Disulfide	2.56	76	271545	21.020	ug/l 98
17) Allyl chloride	2.72	41	184657	21.549	ug/l 98
18) Methylene Chloride	2.85	84	118343	20.253	ug/l 97
19) trans-1,2-Dichloroethene	3.15	96	107095	20.508	ug/l 93
20) Diisopropyl ether	3.84	45	371616	21.135	ug/l 92
21) 1,1-Dichloroethane	3.69	63	198595	20.811	ug/l 99
22) cis-1,2-Dichloroethene	4.58	96	122406	20.220	ug/l 97
23) tert-Butyl Alcohol	3.02	59	127566	112.694	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	330774	20.534	ug/l 98
25) Chloroform	5.19	83	188334	20.701	ug/l 96
26) Cyclohexane	5.57	56	181698	21.353	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	143715	21.143	ug/l 100
30) 2-Butanone	4.65	43	433856	108.290	ug/l 99
31) 2,2-Dichloropropane	4.57	77	154158	24.518	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	157279	20.920	ug/l 99
33) Carbon Tetrachloride	5.78	117	133236	20.847	ug/l 96
34) Benzene	6.13	78	451403	21.298	ug/l 98
35) Methacrylonitrile	5.02	41	91906	21.329	ug/l 98
36) 1,2-Dichloroethane	6.18	62	149385	20.291	ug/l # 86
37) Trichloroethene	7.20	130	121397	21.050	ug/l 94
38) Methylcyclohexane	7.45	83	185574	22.888	ug/l 98
39) 1,2-Dichloropropane	7.50	63	116927	21.241	ug/l 92
40) Dibromomethane	7.65	93	72518	20.622	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	143858	21.127	ug/l	99
42) Vinyl Acetate	3.80	43	1565878	110.702	ug/l	99
43) Ethyl Acetate	4.82	43	170350	22.159	ug/l	100
44) Isopropyl Acetate	6.43	43	268167	20.827	ug/l	98
45) 1,4-Dioxane	7.73	88	56439	468.077	ug/l	99
46) Methyl methacrylate	7.76	41	129991	20.785	ug/l	97
47) n-amyl Acetate	10.89	43	227558	19.876	ug/l	100
48) t-1,3-Dichloropropene	9.03	75	157504	21.193	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	177878	21.283	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	112108	20.657	ug/l	98
51) Ethyl methacrylate	9.17	69	171390	19.854	ug/l	99
52) 1,3-Dichloropropane	9.36	76	193573	20.993	ug/l	99
53) Dibromochloromethane	9.57	129	110614	20.383	ug/l	98
54) 1,2-Dibromoethane	9.67	107	117465	21.022	ug/l	97
55) 2-Chloroethyl vinyl ether	8.30	63	373640	98.187	ug/l	99
56) Bromoform	10.85	173	81822	19.334	ug/l	99
58) 4-Methyl-2-Pentanone	8.63	43	843324	105.687	ug/l	98
59) 2-Hexanone	9.48	43	642026	106.023	ug/l	99
61) Tetrachloroethene	9.33	164	125113	22.176	ug/l	97
62) Toluene	8.78	91	480435	21.181	ug/l	99
64) Chlorobenzene	10.14	112	296238	20.847	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.21	131	108119	20.548	ug/l	99
66) Ethyl Benzene	10.25	91	520597	20.973	ug/l	98
67) m/p-Xylenes	10.35	106	397350	41.876	ug/l	98
68) o-Xylene	10.70	106	191654	20.388	ug/l	98
69) Styrene	10.71	104	323153	20.215	ug/l	99
70) Isopropylbenzene	11.01	105	513252	21.129	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	169041	19.623	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	143160m	18.670	ug/l	
73) Bromobenzene	11.25	156	131846	20.332	ug/l	99
74) n-propylbenzene	11.35	91	588796	21.370	ug/l	98
75) 2-Chlorotoluene	11.42	91	349808	21.012	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	428549	20.797	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	54555	21.545	ug/l	94
78) 4-Chlorotoluene	11.51	91	396269	20.831	ug/l	100
79) tert-butylbenzene	11.76	119	406357	20.459	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	426777	20.712	ug/l	100
81) sec-Butylbenzene	11.94	105	495825	20.987	ug/l	100
82) p-Isopropyltoluene	12.06	119	447767	21.002	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	231274	20.462	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	229057	20.352	ug/l	100
85) n-Butylbenzene	12.38	91	383225	21.379	ug/l	100
86) Hexachloroethane	12.59	117	77216	19.964	ug/l	96
87) 1,2-Dichlorobenzene	12.38	146	232491	20.251	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	35282	20.548	ug/l	99
89) 1,2,4-Trichlorobenzene	13.64	180	149725	20.406	ug/l	99
90) Hexachlorobutadiene	13.77	225	74375	21.325	ug/l	98
91) Naphthalene	13.83	128	439043	19.908	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	148657	19.975	ug/l	99

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

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