

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX031119\
 Data File : VX007963.D
 Acq On : 11 Mar 2019 11:44
 Operator : JC/SP
 Sample : VX0311WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0311WBS01

Manual Integrations
 APPROVED

Quant Time: Mar 12 08:18:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X030819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 08 12:01:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	58097	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	314888	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	278170	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	112031	29.34	ug/l	0.00	MMDadoda
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.80%	
60) 4-Bromofluorobenzene	11.13	95	134366	30.26	ug/l	0.00	
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.87%	
63) Toluene-d8	8.71	98	378679	29.75	ug/l	0.00	
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.17%	3/12/2019 1:09:59 PM

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	78495	22.759	ug/l 99
3) Chloromethane	1.33	50	81297	21.197	ug/l 96
4) Vinyl Chloride	1.41	62	80701	21.242	ug/l 99
5) Bromomethane	1.64	94	42189	22.275	ug/l 98
6) Chloroethane	1.73	64	47551	21.432	ug/l 93
7) Trichlorofluoromethane	1.93	101	103686	21.917	ug/l 96
8) Diethyl Ether	2.19	74	55743	22.880	ug/l 90
9) 1,1,2-Trichlorotrifluoroet	2.39	101	84707	23.816	ug/l 97
10) 1,1-Dichloroethene	2.38	96	79894	23.699	ug/l 98
11) Methyl Iodide	2.51	142	126610	23.991	ug/l 94
12) Methyl Acetate	2.78	43	115273	21.620	ug/l 96
13) Acrolein	2.29	56	57736	92.303	ug/l 98
14) Acrylonitrile	3.15	53	255082	112.704	ug/l 99
15) Acetone	2.45	58	83051	101.637	ug/l 99
16) Carbon Disulfide	2.57	76	239638	22.657	ug/l 100
17) Allyl chloride	2.73	41	157664	22.812	ug/l 91
18) Methylene Chloride	2.86	84	87260	22.721	ug/l 95
19) trans-1,2-Dichloroethene	3.17	96	83304	23.354	ug/l 97
20) Diisopropyl ether	3.87	45	287993	22.777	ug/l 95
21) 1,1-Dichloroethane	3.70	63	158335	23.025	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	93326	22.682	ug/l 92
23) tert-Butyl Alcohol	3.06	59	103286	113.119	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	269509	23.252	ug/l 95
25) Chloroform	5.21	83	148732	22.915	ug/l 97
26) Cyclohexane	5.57	56	145709	22.930	ug/l # 91
29) 1,1-Dichloropropene	5.80	75	115373	23.108	ug/l 97
30) 2-Butanone	4.70	43	363625	107.982	ug/l 98
31) 2,2-Dichloropropane	4.58	77	111737	24.230	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	126448	23.421	ug/l 99
33) Carbon Tetrachloride	5.78	117	113161	23.631	ug/l 95
34) Benzene	6.14	78	348836	22.799	ug/l 98
35) Methacrylonitrile	5.06	41	72074	21.964	ug/l 96
36) 1,2-Dichloroethane	6.20	62	111993	22.498	ug/l 98
37) Trichloroethene	7.21	130	97036	23.407	ug/l 97
38) Methylcyclohexane	7.46	83	148026	23.319	ug/l 96
39) 1,2-Dichloropropane	7.51	63	90877	22.774	ug/l 98
40) Dibromomethane	7.66	93	58423	23.082	ug/l 93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	110328	23.061	ug/l	98
42) Vinyl Acetate	3.82	43	1265796	116.122	ug/l	97
43) Ethyl Acetate	4.85	43	129435m	22.067	ug/l	
44) Isopropyl Acetate	6.46	43	198688	22.200	ug/l	98
45) 1,4-Dioxane	7.75	88	42554	454.464	ug/l	92
46) Methyl methacrylate	7.77	41	105727	22.462	ug/l	91 MMDadoda
47) n-amyl Acetate	10.90	43	170757	22.143	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	122042	23.553	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	136782	23.313	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	88163	22.851	ug/l	96
51) Ethyl methacrylate	9.18	69	133032	22.737	ug/l	94 3/12/2019 1:09:59 PM
52) 1,3-Dichloropropane	9.37	76	146157	22.927	ug/l	99
53) Dibromochloromethane	9.58	129	93610	23.588	ug/l	99
54) 1,2-Dibromoethane	9.67	107	92142	22.844	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	317104	116.526	ug/l	99
56) Bromoform	10.85	173	74418	23.509	ug/l #	96
58) 4-Methyl-2-Pentanone	8.65	43	653672	114.136	ug/l	99
59) 2-Hexanone	9.49	43	504156	111.518	ug/l	99
61) Tetrachloroethene	9.34	164	97438	24.013	ug/l	97
62) Toluene	8.78	91	372448	22.930	ug/l	100
64) Chlorobenzene	10.13	112	237129	22.906	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	88330	23.831	ug/l	99
66) Ethyl Benzene	10.25	91	403079	23.103	ug/l	97
67) m/p-Xylenes	10.36	106	311457	46.556	ug/l	96
68) o-Xylene	10.69	106	150345	23.144	ug/l	98
69) Styrene	10.71	104	249217	23.283	ug/l	99
70) Isopropylbenzene	11.02	105	411682	23.717	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.27	83	128380	22.393	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	127084m	23.517	ug/l	
73) Bromobenzene	11.26	156	108695	23.553	ug/l	98
74) n-propylbenzene	11.36	91	454774	23.226	ug/l	100
75) 2-Chlorotoluene	11.42	91	272218	23.195	ug/l	96
76) 1,3,5-Trimethylbenzene	11.51	105	337063	23.430	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	39212	23.485	ug/l	85
78) 4-Chlorotoluene	11.51	91	310582	23.406	ug/l	96
79) tert-butylbenzene	12.06	119	365770	23.693	ug/l	97
80) 1,2,4-Trimethylbenzene	11.80	105	343329	23.515	ug/l	97
81) sec-Butylbenzene	11.94	105	404173	23.373	ug/l	99
82) p-Isopropyltoluene	12.06	119	365770	23.693	ug/l	97
83) 1,3-Dichlorobenzene	12.02	146	192773	23.462	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	192187	23.379	ug/l	99
85) n-Butylbenzene	12.39	91	306855	23.242	ug/l	99
86) Hexachloroethane	12.60	117	59974	23.843	ug/l	82
87) 1,2-Dichlorobenzene	12.39	146	189242	23.306	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	26875	22.950	ug/l	100
89) 1,2,4-Trichlorobenzene	13.65	180	136638	23.414	ug/l	100
90) Hexachlorobutadiene	13.78	225	74946	23.286	ug/l	99
91) Naphthalene	13.83	128	389566	23.288	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	134297	23.153	ug/l	99

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

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