

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031220\
 Data File : VX015236.D
 Acq On : 12 Mar 2020 15:44
 Operator : JC/SP
 Sample : L1161-07 2.5PPB LOD
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2020

Manual Integrations
 APPROVED

MMDadoda
 3/16/2020 11:43:45 AM

Quant Time: Mar 13 04:09:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031220W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 12 14:12:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	46587	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	6.85	114	253283	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	230626	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	93276	29.68	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.93%
60) 4-Bromofluorobenzene	11.13	95	105491	28.73	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.77%
63) Toluene-d8	8.71	98	302719	30.64	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	6420	2.740	ug/l 99
3) Chloromethane	1.31	50	9291	2.747	ug/l 96
4) Vinyl Chloride	1.40	62	9365	2.721	ug/l 90
5) Bromomethane	1.65	94	6843	3.051	ug/l 94
6) Chloroethane	1.72	64	5794	2.680	ug/l 98
7) Trichlorofluoromethane	1.92	101	10904	2.485	ug/l 94
8) Diethyl Ether	2.18	74	4999	2.570	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	2.38	101	7301	2.713	ug/l 97
10) 1,1-Dichloroethene	2.36	96	7541	2.779	ug/l 81
11) Methyl Iodide	2.50	142	5669	2.031	ug/l 91
12) Methyl Acetate	2.76	43	7944	2.373	ug/l 96
13) Acrolein	2.29	56	7599	14.377	ug/l 100
14) Acrylonitrile	3.13	53	18324	11.798	ug/l 97
15) Acetone	2.44	58	5642	12.380	ug/l 84
16) Carbon Disulfide	2.56	76	20140	2.651	ug/l 98
17) Allyl chloride	2.72	41	11635	2.311	ug/l 94
18) Methylene Chloride	2.85	84	8390	2.736	ug/l # 94
19) trans-1,2-Dichloroethene	3.16	96	7846	2.681	ug/l 94
20) Diisopropyl ether	3.84	45	23341	2.334	ug/l 96
21) 1,1-Dichloroethane	3.69	63	12814	2.419	ug/l 98
22) cis-1,2-Dichloroethene	4.59	96	8078	2.442	ug/l 93
23) tert-Butyl Alcohol	3.05	59	9518	15.674	ug/l # 97
24) Methyl tert-Butyl Ether	3.19	73	21080	2.405	ug/l 100
25) Chloroform	5.20	83	12416	2.464	ug/l 95
26) Cyclohexane	5.57	56	12628m	2.565	ug/l
29) 1,1-Dichloropropene	5.79	75	9808	2.523	ug/l 98
30) 2-Butanone	4.66	43	23844	11.456	ug/l 98
31) 2,2-Dichloropropane	4.57	77	9807	2.456	ug/l 92
32) 1,1,1-Trichloroethane	5.48	97	9090m	2.149	ug/l
33) Carbon Tetrachloride	5.76	117	8876m	2.452	ug/l
34) Benzene	6.14	78	29245	2.483	ug/l 97
35) Methacrylonitrile	5.03	41	4566	2.029	ug/l 93
36) 1,2-Dichloroethane	6.18	62	9499m	2.418	ug/l
37) Trichloroethene	7.20	130	8612	2.644	ug/l 97
38) Methylcyclohexane	7.45	83	12090	2.560	ug/l 97
39) 1,2-Dichloropropane	7.51	63	8126	2.671	ug/l 99
40) Dibromomethane	7.65	93	5291	2.736	ug/l 99

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

41) Bromodichloromethane	7.89	83	10222	2.673	ug/l #	80
42) Vinyl Acetate	3.81	43	94292	11.488	ug/l	99
43) Ethyl Acetate	4.82	43	9133	2.313	ug/l #	88
44) Isopropyl Acetate	6.43	43	15280m	2.287	ug/l	
45) 1,4-Dioxane	7.75	88	3627	55.284	ug/l #	87
46) Methyl methacrylate	7.76	41	7797	2.367	ug/l	93
47) n-amyl Acetate	10.89	43	11006	1.836	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	9183	2.208	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	10517	2.227	ug/l #	92
50) 1,1,2-Trichloroethane	9.21	97	6380	2.231	ug/l	93
51) Ethyl methacrylate	9.17	69	9452	2.119	ug/l	91
52) 1,3-Dichloropropane	9.36	76	12496	2.582	ug/l	99
53) Dibromochloromethane	9.57	129	7018	2.305	ug/l	93
54) 1,2-Dibromoethane	9.67	107	7871	2.668	ug/l	93
55) 2-Chloroethyl vinyl ether	8.30	63	24385	10.913	ug/l	97
56) Bromoform	10.85	173	4862	2.036	ug/l #	91
58) 4-Methyl-2-Pentanone	8.63	43	46047	11.728	ug/l	97
59) 2-Hexanone	9.48	43	31251	10.531	ug/l	99
61) Tetrachloroethene	9.32	164	8118	2.529	ug/l	88
62) Toluene	8.78	91	30813	2.525	ug/l	98
64) Chlorobenzene	10.14	112	19902	2.552	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	7344	2.557	ug/l	97
66) Ethyl Benzene	10.25	91	32220	2.370	ug/l	95
67) m/p-Xylenes	10.35	106	23035	4.414	ug/l	95
68) o-Xylene	10.70	106	11466	2.292	ug/l	94
69) Styrene	10.71	104	18380	2.111	ug/l	94
70) Isopropylbenzene	11.01	105	31678	2.379	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	10393	2.404	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	10835	3.062	ug/l	82
73) Bromobenzene	11.25	156	8781	2.418	ug/l	96
74) n-propylbenzene	11.35	91	33710	2.143	ug/l	99
75) 2-Chlorotoluene	11.42	91	20547	2.237	ug/l	96
76) 1,3,5-Trimethylbenzene	11.50	105	26093	2.295	ug/l	97
77) t-1,4-Dichloro-2-butene	11.07	75	2546	1.718	ug/l	88
78) 4-Chlorotoluene	11.51	91	24541	2.320	ug/l	100
79) tert-butylbenzene	11.76	119	24028	2.254	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	24192	2.152	ug/l	100
81) sec-Butylbenzene	11.94	105	28527	2.157	ug/l	98
82) p-Isopropyltoluene	12.06	119	25366	2.085	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	15692	2.445	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	15481	2.412	ug/l	97
85) n-Butylbenzene	12.38	91	21227	1.991	ug/l	97
86) Hexachloroethane	12.59	117	4648	2.183	ug/l	93
87) 1,2-Dichlorobenzene	12.39	146	15146	2.421	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	2446	2.748	ug/l	85
89) 1,2,4-Trichlorobenzene	13.64	180	10718	2.317	ug/l	98
90) Hexachlorobutadiene	13.78	225	5898	2.479	ug/l	97
91) Naphthalene	13.83	128	23904	1.866	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	11397	2.448	ug/l	94

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

