

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\
 Data File : VX010984.D
 Acq On : 19 Jul 2019 01:51
 Operator : JC/SP
 Sample : K3591-07 LOD-MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 LOD-MDL-WATER-01-QT3-2019 DL

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 3:13:05 PM

Quant Time: Jul 19 03:48:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:27:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	36678	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	195376	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	170667	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	73162	29.42	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.07%
60) 4-Bromofluorobenzene	11.13	95	78970	28.11	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.70%
63) Toluene-d8	8.71	98	229623	30.61	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.03%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	4465	1.841 ug/l	92
3) Chloromethane	1.33	50	5434	2.548 ug/l	95
4) Vinyl Chloride	1.40	62	5231	2.352 ug/l	92
5) Bromomethane	1.64	94	4548	3.716 ug/l	92
6) Chloroethane	1.73	64	3741	2.844 ug/l	97
7) Trichlorofluoromethane	1.93	101	8396	2.274 ug/l	94
8) Diethyl Ether	2.19	74	3469	2.860 ug/l	89
9) 1,1,2-Trichlorotrifluoroet	2.39	101	4989	2.444 ug/l	96
10) 1,1-Dichloroethene	2.37	96	4758	2.320 ug/l	96
11) Methyl Iodide	2.51	142	4792	1.740 ug/l	87
12) Methyl Acetate	2.78	43	7532	2.614 ug/l	95
13) Acrolein	2.29	56	3977	11.513 ug/l	100
14) Acrylonitrile	3.14	53	15103	13.394 ug/l	99
15) Acetone	2.45	58	4650	14.810 ug/l	86
16) Carbon Disulfide	2.57	76	12354	2.344 ug/l	99
17) Allyl chloride	2.73	41	6577	2.215 ug/l	94
18) Methylene Chloride	2.86	84	6500	2.846 ug/l	94
19) trans-1,2-Dichloroethene	3.17	96	5223	2.410 ug/l #	75
20) Diisopropyl ether	3.85	45	15547	2.480 ug/l #	95
21) 1,1-Dichloroethane	3.70	63	8521	2.362 ug/l #	96
22) cis-1,2-Dichloroethene	4.59	96	6205	2.490 ug/l	98
23) tert-Butyl Alcohol	3.03	59	13700	23.271 ug/l #	100
24) Methyl tert-Butyl Ether	3.20	73	16772	2.547 ug/l	99
25) Chloroform	5.21	83	10004	2.532 ug/l	100
26) Cyclohexane	5.58	56	7262	2.200 ug/l #	97
29) 1,1-Dichloropropene	5.80	75	6661	2.424 ug/l	85
30) 2-Butanone	4.68	43	19672	13.264 ug/l #	78
31) 2,2-Dichloropropane	4.57	77	4919	2.051 ug/l #	59
32) 1,1,1-Trichloroethane	5.49	97	7261	2.191 ug/l	97
33) Carbon Tetrachloride	5.79	117	5779	2.006 ug/l #	84
34) Benzene	6.14	78	20901	2.536 ug/l	99
35) Methacrylonitrile	5.04	41	3133	2.029 ug/l	89
36) 1,2-Dichloroethane	6.20	62	7766	2.635 ug/l #	82
37) Trichloroethene	7.21	130	6039	2.503 ug/l	92
38) Methylcyclohexane	7.46	83	7659	2.209 ug/l	98
39) 1,2-Dichloropropane	7.51	63	5403	2.623 ug/l	95
40) Dibromomethane	7.66	93	3924	2.590 ug/l	98

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

41) Bromodichloromethane	7.90	83	6118	2.218	ug/l	90
42) Vinyl Acetate	3.82	43	58077	11.886	ug/l	100
43) Ethyl Acetate	4.84	43	6232	2.189	ug/l	93
44) Isopropyl Acetate	6.45	43	11174	2.410	ug/l	99
45) 1,4-Dioxane	7.74	88	3434	56.897	ug/l #	95
46) Methyl methacrylate	7.77	41	5470	2.430	ug/l	93
47) n-amyl Acetate	10.90	43	7911	1.902	ug/l	94
48) t-1,3-Dichloropropene	9.04	75	5485	1.887	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	6255	1.972	ug/l	94
50) 1,1,2-Trichloroethane	9.21	97	5763	2.599	ug/l	93
51) Ethyl methacrylate	9.18	69	7464	2.176	ug/l	95
52) 1,3-Dichloropropane	9.37	76	9073	2.546	ug/l	98
53) Dibromochloromethane	9.59	129	4354	1.818	ug/l	95
54) 1,2-Dibromoethane	9.67	107	5743	2.383	ug/l	95
55) 2-Chloroethyl vinyl ether	8.31	63	19185	13.210	ug/l	98
56) Bromoform	10.85	173	3357	1.882	ug/l #	96
58) 4-Methyl-2-Pentanone	8.64	43	36359	12.615	ug/l	98
59) 2-Hexanone	9.49	43	27614	12.520	ug/l	99
61) Tetrachloroethene	9.34	164	6023	2.673	ug/l	95
62) Toluene	8.79	91	22661	2.499	ug/l	99
64) Chlorobenzene	10.14	112	14797	2.547	ug/l	92
65) 1,1,1,2-Tetrachloroethane	10.22	131	4656	2.205	ug/l	99
66) Ethyl Benzene	10.25	91	23382	2.291	ug/l	96
67) m/p-Xylenes	10.36	106	18021	4.615	ug/l	96
68) o-Xylene	10.69	106	8824	2.306	ug/l	95
69) Styrene	10.71	104	13720	2.133	ug/l	99
70) Isopropylbenzene	11.02	105	23079	2.265	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.27	83	8014	2.439	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	6909m	2.519	ug/l	
73) Bromobenzene	11.25	156	6550	2.383	ug/l	99
74) n-propylbenzene	11.36	91	24705	2.154	ug/l	98
75) 2-Chlorotoluene	11.42	91	16177	2.369	ug/l	95
76) 1,3,5-Trimethylbenzene	11.51	105	18301	2.122	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	1546	1.709	ug/l	77
78) 4-Chlorotoluene	11.51	91	17534	2.235	ug/l	98
79) tert-butylbenzene	11.77	119	18225	2.179	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	18902	2.176	ug/l	98
81) sec-Butylbenzene	11.94	105	21028	2.133	ug/l	99
82) p-Isopropyltoluene	12.06	119	18364	2.007	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	10618	2.188	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	11210	2.324	ug/l	97
85) n-Butylbenzene	12.38	91	14407	1.849	ug/l	98
86) Hexachloroethane	12.60	117	2489	1.725	ug/l	92
87) 1,2-Dichlorobenzene	12.39	146	11332	2.385	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	1551	2.144	ug/l	87
89) 1,2,4-Trichlorobenzene	13.65	180	6836	2.086	ug/l	98
90) Hexachlorobutadiene	13.78	225	3126	1.973	ug/l	95
91) Naphthalene	13.83	128	20409	2.041	ug/l	97
92) 1,2,3-Trichlorobenzene	14.02	180	7415	2.257	ug/l	98

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

