

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN051520\
 Data File : VN061414.D
 Acq On : 15 May 2020 17:12
 Operator : JC/MD
 Sample : L2182-09 2.5PPB MDL
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT2-2020DL

Quant Time: May 16 01:04:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N051420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 14 16:04:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	18506	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	106761	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	94614	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	50161	30.27	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.90%
60) 4-Bromofluorobenzene	12.38	95	45818	28.37	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.57%
63) Toluene-d8	10.06	98	133880	30.56	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.87%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	1855	2.20	ug/l	94
3) Chloromethane	2.03	50	4377	2.84	ug/l	97
4) Vinyl Chloride	2.16	62	5492	2.66	ug/l	96
5) Bromomethane	2.54	94	3503	3.34	ug/l	90
6) Chloroethane	2.67	64	4006	2.87	ug/l	89
7) Trichlorofluoromethane	2.98	101	5110	2.31	ug/l	95
8) Diethyl Ether	3.37	74	1681	2.39	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	3.72	101	2442	2.59	ug/l	78
10) 1,1-Dichloroethene	3.70	96	2587	2.60	ug/l	94
11) Methyl Iodide	3.91	142	3020	2.81	ug/l	97
12) Methyl Acetate	4.28	43	3732	3.09	ug/l	96
13) Acrolein	3.56	56	2700	13.28	ug/l	98
14) Acrylonitrile	4.94	53	7244	12.78	ug/l	96
15) Acetone	3.77	58	1897	13.94	ug/l #	49
16) Carbon Disulfide	4.01	76	7601	2.72	ug/l #	94
17) Allyl chloride	4.27	41	4699	2.35	ug/l	98
18) Methylene Chloride	4.50	84	2826	2.36	ug/l #	90
19) trans-1,2-Dichloroethene	4.99	96	3072	2.60	ug/l #	81
20) Diisopropyl ether	5.90	45	11209	2.41	ug/l	99
21) 1,1-Dichloroethane	5.79	63	6045m	2.49	ug/l	
22) cis-1,2-Dichloroethene	6.79	96	3193	2.30	ug/l #	81
23) tert-Butyl Alcohol	4.72	59	2980m	16.41	ug/l	
24) Methyl tert-Butyl Ether	4.99	73	10269m	2.55	ug/l	
25) Chloroform	7.33	83	5672	2.41	ug/l	91
26) Cyclohexane	7.61	56	5488	2.36	ug/l #	98
29) 1,1-Dichloropropene	7.75	75	4517	2.41	ug/l	83
30) 2-Butanone	6.79	43	11238	14.18	ug/l #	90
31) 2,2-Dichloropropane	6.78	77	5295	2.42	ug/l #	72
32) 1,1,1-Trichloroethane	7.53	97	5120	2.44	ug/l	97
33) Carbon Tetrachloride	7.73	117	3266	2.03	ug/l	96
34) Benzene	8.00	78	12386	2.34	ug/l #	4
35) Methacrylonitrile	7.12	41	1845	2.32	ug/l	86
36) 1,2-Dichloroethane	8.09	62	5132	2.52	ug/l #	83
37) Trichloroethene	8.80	130	3294	2.52	ug/l	96
38) Methylcyclohexane	9.05	83	5298	2.36	ug/l	97
39) 1,2-Dichloropropane	9.09	63	3362	2.31	ug/l	99
40) Dibromomethane	9.18	93	2258	2.51	ug/l	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	4603	2.36	ug/l	91
42) Vinyl Acetate	5.84	43	42095	11.19	ug/l	99
43) Ethyl Acetate	6.88	43	4253	2.51	ug/l	98
44) Isopropyl Acetate	8.12	43	8489	2.58	ug/l	# 84
45) 1,4-Dioxane	9.17	88	1155	89.05	ug/l	# 1
46) Methyl methacrylate	9.17	41	4102	2.65	ug/l	97
47) n-amyl Acetate	12.05	43	6633	2.26	ug/l	99
48) t-1,3-Dichloropropene	10.35	75	5112	2.22	ug/l	94
49) cis-1,3-Dichloropropene	9.81	75	5660	2.32	ug/l	97
50) 1,1,2-Trichloroethane	10.54	97	2994	2.41	ug/l	96
51) Ethyl methacrylate	10.40	69	4965	2.32	ug/l	97
52) 1,3-Dichloropropane	10.68	76	5505	2.42	ug/l	99
53) Dibromochloromethane	10.87	129	2919	2.14	ug/l	99
54) 1,2-Dibromoethane	10.98	107	2963	2.31	ug/l	98
55) 2-Chloroethyl vinyl ether	9.66	63	10582	11.15	ug/l	98
56) Bromoform	12.10	173	1704	1.99	ug/l	# 89
58) 4-Methyl-2-Pentanone	9.95	43	22778	13.21	ug/l	97
59) 2-Hexanone	10.72	43	15980	13.10	ug/l	95
61) Tetrachloroethene	10.60	164	2651	2.24	ug/l	# 87
62) Toluene	10.12	91	13717	2.50	ug/l	98
64) Chlorobenzene	11.41	112	7959	2.45	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.48	131	2749	2.32	ug/l	95
66) Ethyl Benzene	11.48	91	14735	2.34	ug/l	97
67) m/p-Xylenes	11.60	106	10928	4.70	ug/l	98
68) o-Xylene	11.92	106	5176	2.33	ug/l	100
69) Styrene	11.94	104	7958	2.08	ug/l	96
70) Isopropylbenzene	12.22	105	13716	2.28	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.48	83	4036	2.43	ug/l	96
72) 1,2,3-Trichloropropane	12.53	75	3848m	2.43	ug/l	
73) Bromobenzene	12.50	156	2732	2.19	ug/l	81
74) n-propylbenzene	12.57	91	16049	2.25	ug/l	100
75) 2-Chlorotoluene	12.65	91	9350	2.28	ug/l	98
76) 1,3,5-Trimethylbenzene	12.71	105	11038	2.19	ug/l	99
77) t-1,4-Dichloro-2-butene	12.28	75	1286	1.95	ug/l	99
78) 4-Chlorotoluene	12.75	91	9655	2.25	ug/l	94
79) tert-butylbenzene	12.97	119	9412	2.25	ug/l	95
80) 1,2,4-Trimethylbenzene	13.01	105	10723	2.13	ug/l	96
81) sec-Butylbenzene	13.15	105	12828	2.22	ug/l	99
82) p-Isopropyltoluene	13.27	119	10992	2.11	ug/l	96
83) 1,3-Dichlorobenzene	13.26	146	5066m	2.18	ug/l	
84) 1,4-Dichlorobenzene	13.34	146	5337	2.32	ug/l	98
85) n-Butylbenzene	13.59	91	10375	2.16	ug/l	99
86) Hexachloroethane	13.85	117	1316	1.82	ug/l	79
87) 1,2-Dichlorobenzene	13.63	146	4798	2.18	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.25	75	828	2.34	ug/l	# 70
89) 1,2,4-Trichlorobenzene	14.89	180	2797	2.21	ug/l	95
90) Hexachlorobutadiene	14.99	225	1263	2.45	ug/l	95
91) Naphthalene	15.11	128	10111	2.54	ug/l	98
92) 1,2,3-Trichlorobenzene	15.29	180	3057	2.49	ug/l	93

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

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