

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071420\
 Data File : VN062522.D
 Acq On : 14 Jul 2020 11:12
 Operator : JC/MD
 Sample : L3216-09 2.5PPB MDL
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2020

Quant Time: Jul 15 00:59:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Jul 14 00:52:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	39093	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	214555	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	193900	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	102058	30.39	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.30%
60) 4-Bromofluorobenzene	12.38	95	89138	27.01	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.03%
63) Toluene-d8	10.06	98	276764	30.21	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	5259	2.279 ug/l	91
3) Chloromethane	2.04	50	8105	2.433 ug/l	92
4) Vinyl Chloride	2.16	62	7364	2.528 ug/l	97
5) Bromomethane	2.53	94	3888	2.691 ug/l	93
6) Chloroethane	2.67	64	3437	2.397 ug/l	95
7) Trichlorofluoromethane	2.99	101	8544	2.503 ug/l	100
8) Diethyl Ether	3.37	74	4025	2.453 ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.72	101	5679m	2.574 ug/l	
10) 1,1-Dichloroethene	3.70	96	6004	2.667 ug/l	88
11) Methyl Iodide	3.90	142	5763	2.090 ug/l	94
12) Methyl Acetate	4.28	43	7651	2.534 ug/l	95
13) Acrolein	3.57	56	3571m	7.916 ug/l	
14) Acrylonitrile	4.94	53	16157m	11.507 ug/l	
15) Acetone	3.78	58	4693m	10.888 ug/l	
16) Carbon Disulfide	4.01	76	18439	2.513 ug/l	97
17) Allyl chloride	4.27	41	11703	2.444 ug/l	97
18) Methylene Chloride	4.50	84	7412	2.676 ug/l	94
19) trans-1,2-Dichloroethene	4.99	96	6092	2.445 ug/l	85
20) Diisopropyl ether	5.90	45	23197	2.357 ug/l	89
21) 1,1-Dichloroethane	5.79	63	13573	2.608 ug/l #	93
22) cis-1,2-Dichloroethene	6.77	96	7085m	2.521 ug/l	
23) tert-Butyl Alcohol	4.73	59	6000	12.768 ug/l #	100
24) Methyl tert-Butyl Ether	4.99	73	20307	2.447 ug/l #	66
25) Chloroform	7.33	83	11763	2.465 ug/l	100
26) Cyclohexane	7.61	56	10560	2.303 ug/l #	96
29) 1,1-Dichloropropene	7.75	75	8488	2.332 ug/l	94
30) 2-Butanone	6.79	43	21868	11.330 ug/l	98
31) 2,2-Dichloropropane	6.77	77	10465	2.550 ug/l #	90
32) 1,1,1-Trichloroethane	7.53	97	10225	2.614 ug/l	97
33) Carbon Tetrachloride	7.73	117	8688	2.562 ug/l	97
34) Benzene	8.00	78	27589	2.552 ug/l #	27
35) Methacrylonitrile	7.12	41	3955m	2.333 ug/l	
36) 1,2-Dichloroethane	8.09	62	10591	2.725 ug/l #	88
37) Trichloroethene	8.80	130	6183	2.546 ug/l	97
38) Methylcyclohexane	9.05	83	9529	2.334 ug/l	98
39) 1,2-Dichloropropane	9.08	63	7633	2.478 ug/l	93
40) Dibromomethane	9.18	93	4584	2.582 ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	9407	2.498	ug/l	98
42) Vinyl Acetate	5.84	43	93475	11.655	ug/l	100
43) Ethyl Acetate	6.89	43	8284	2.135	ug/l	98
44) Isopropyl Acetate	8.12	43	15114	2.321	ug/l	98
45) 1,4-Dioxane	9.17	88	2066	46.389	ug/l #	90
46) Methyl methacrylate	9.17	41	6930	2.244	ug/l	96
47) n-amyl Acetate	12.05	43	9122	1.662	ug/l	96
48) t-1,3-Dichloropropene	10.35	75	10158	2.313	ug/l	96
49) cis-1,3-Dichloropropene	9.81	75	11212	2.365	ug/l	95
50) 1,1,2-Trichloroethane	10.53	97	6407	2.575	ug/l	97
51) Ethyl methacrylate	10.40	69	8518	2.033	ug/l	94
52) 1,3-Dichloropropane	10.68	76	11852	2.595	ug/l	99
53) Dibromochloromethane	10.88	129	6300	2.324	ug/l	97
54) 1,2-Dibromoethane	10.98	107	6378	2.504	ug/l	97
55) 2-Chloroethyl vinyl ether	9.66	63	12514	9.352	ug/l	99
56) Bromoform	12.10	173	3874	2.092	ug/l	95
58) 4-Methyl-2-Pentanone	9.95	43	43936	11.630	ug/l	99
59) 2-Hexanone	10.72	43	28604	10.324	ug/l	100
61) Tetrachloroethene	10.60	164	5700	2.871	ug/l	90
62) Toluene	10.12	91	29086	2.644	ug/l	98
64) Chlorobenzene	11.41	112	17040	2.636	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.48	131	6045	2.527	ug/l	98
66) Ethyl Benzene	11.48	91	29175	2.395	ug/l	100
67) m/p-Xylenes	11.59	106	20014	4.527	ug/l	99
68) o-Xylene	11.92	106	9880	2.329	ug/l	94
69) Styrene	11.94	104	14371	1.996	ug/l	96
70) Isopropylbenzene	12.22	105	25808	2.266	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.48	83	9263	2.516	ug/l	98
72) 1,2,3-Trichloropropane	12.53	75	8515m	2.378	ug/l	
73) Bromobenzene	12.50	156	6361	2.411	ug/l	98
74) n-propylbenzene	12.57	91	30585	2.259	ug/l	98
75) 2-Chlorotoluene	12.65	91	19355	2.374	ug/l	97
76) 1,3,5-Trimethylbenzene	12.71	105	21526	2.218	ug/l	99
77) t-1,4-Dichloro-2-butene	12.27	75	2601	1.942	ug/l	90
78) 4-Chlorotoluene	12.75	91	17507	2.105	ug/l	100
79) tert-butylbenzene	12.97	119	18704	2.327	ug/l	98
80) 1,2,4-Trimethylbenzene	13.01	105	19304	2.022	ug/l	98
81) sec-Butylbenzene	13.15	105	23044	2.135	ug/l	96
82) p-Isopropyltoluene	13.26	119	19874	2.087	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	9651	2.107	ug/l	98
84) 1,4-Dichlorobenzene	13.34	146	9549	2.112	ug/l	93
85) n-Butylbenzene	13.59	91	15082	1.846	ug/l	97
86) Hexachloroethane	13.85	117	4202	2.286	ug/l	97
87) 1,2-Dichlorobenzene	13.63	146	9282	2.107	ug/l	93
88) 1,2-Dibromo-3-Chloropropan	14.25	75	1244	1.789	ug/l	93
89) 1,2,4-Trichlorobenzene	14.89	180	2980	1.359	ug/l	93
90) Hexachlorobutadiene	14.98	225	2848	2.341	ug/l	92
91) Naphthalene	15.11	128	7608	1.279	ug/l	98
92) 1,2,3-Trichlorobenzene	15.28	180	3311	1.498	ug/l	97

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

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