

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101519\
 Data File : VN058774.D
 Acq On : 15 Oct 2019 12:14
 Operator : JC/SP
 Sample : K5111-09 0.5PPB MDL
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 12:42:32 AM

Quant Time: Oct 16 04:31:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	351833	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	578130	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	518173	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	209831	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	257611	52.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.60%	
35) Dibromofluoromethane	7.57	113	180910	50.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.32%	
50) Toluene-d8	10.08	98	664889	46.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.12%	
62) 4-Bromofluorobenzene	12.40	95	225633	41.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.48%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.83	85	2170	0.495	ug/l	99
3) Chloromethane	2.04	50	2874	0.552	ug/l	95
4) Vinyl Chloride	2.17	62	2551	0.492	ug/l	96
5) Bromomethane	2.56	94	2021m	0.640	ug/l	
6) Chloroethane	2.69	64	1743	0.545	ug/l #	79
7) Trichlorofluoromethane	3.00	101	3041	0.490	ug/l	97
8) Diethyl Ether	3.39	74	934	0.407	ug/l #	28
9) 1,1,2-Trichlorotrifluoroet	3.73	101	1813m	0.512	ug/l	
10) Methyl Iodide	3.93	142	1885	0.390	ug/l #	82
11) Tert butyl alcohol	4.76	59	2414m	3.026	ug/l	
12) 1,1-Dichloroethene	3.72	96	1787m	0.529	ug/l	
13) Acrolein	3.59	56	1700	2.650	ug/l #	61
14) Allyl chloride	4.29	41	3728	0.547	ug/l #	72
15) Acrylonitrile	4.97	53	4915m	2.443	ug/l	
16) Acetone	3.80	43	6368	3.123	ug/l	89
17) Carbon Disulfide	4.03	76	6712	0.621	ug/l #	89
18) Methyl Acetate	4.31	43	3499	0.676	ug/l #	89
19) Methyl tert-butyl Ether	5.02	73	5928	0.491	ug/l	99
20) Methylene Chloride	4.52	84	2834	0.665	ug/l #	82
21) trans-1,2-Dichloroethene	5.01	96	2006m	0.531	ug/l	
22) Diisopropyl ether	5.93	45	5671m	0.428	ug/l	
23) Vinyl Acetate	5.88	43	23843	2.229	ug/l	99
24) 1,1-Dichloroethane	5.81	63	3942m	0.522	ug/l	
25) 2-Butanone	6.82	43	7480	2.538	ug/l #	89
26) 2,2-Dichloropropane	6.81	77	4335	0.629	ug/l #	68
27) cis-1,2-Dichloroethene	6.80	96	2276m	0.516	ug/l	
28) Bromochloromethane	7.18	49	1569	0.597	ug/l #	76
29) Tetrahydrofuran	7.19	42	4448	2.335	ug/l #	71
30) Chloroform	7.36	83	4616	0.608	ug/l	98
31) Cyclohexane	7.64	56	11520	1.595	ug/l #	19
32) 1,1,1-Trichloroethane	7.56	97	3333	0.515	ug/l #	37
36) 1,1-Dichloropropene	7.77	75	2855	0.488	ug/l #	85
37) Ethyl Acetate	6.92	43	2535	0.429	ug/l #	72
38) Carbon Tetrachloride	7.76	117	2636m	0.463	ug/l	

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

39) Methylcyclohexane	9.07	83	2744	0.405	ug/l #	82
40) Benzene	8.02	78	8309	0.495	ug/l	93
41) Methacrylonitrile	7.14	41	981m	0.355	ug/l	
42) 1,2-Dichloroethane	8.11	62	3677	0.570	ug/l #	78
43) Isopropyl Acetate	8.15	43	4200	0.417	ug/l #	88
44) Trichloroethene	8.82	130	2356	0.565	ug/l	79
45) 1,2-Dichloropropane	9.11	63	2212	0.492	ug/l	97
46) Dibromomethane	9.20	93	1480	0.519	ug/l	91
47) Bromodichloromethane	9.39	83	2719	0.469	ug/l #	92
48) Methyl methacrylate	9.19	41	2249	0.493	ug/l #	85
49) 1,4-Dioxane	9.19	88	630	8.921	ug/l #	59
51) 4-Methyl-2-Pentanone	9.98	43	12930	2.286	ug/l	98
52) Toluene	10.15	92	5370	0.523	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	4450	0.669	ug/l #	40
54) cis-1,3-Dichloropropene	9.83	75	3517	0.498	ug/l	92
55) 1,1,2-Trichloroethane	10.55	97	2268	0.540	ug/l	89
56) Ethyl methacrylate	10.42	69	2415	0.393	ug/l #	77
57) 1,3-Dichloropropane	10.71	76	3272	0.457	ug/l #	86
58) 2-Chloroethyl Vinyl ether	9.69	63	6139	2.075	ug/l	94
59) 2-Hexanone	10.75	43	9881	2.261	ug/l	93
60) Dibromochloromethane	10.90	129	1777	0.410	ug/l	100
61) 1,2-Dibromoethane	11.00	107	2047	0.486	ug/l	92
64) Tetrachloroethene	10.63	164	2189	0.604	ug/l	91
65) Chlorobenzene	11.43	112	5170	0.491	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.51	131	1996	0.513	ug/l #	54
67) Ethyl Benzene	11.51	91	8806	0.469	ug/l	99
68) m/p-Xylenes	11.62	106	6109	0.868	ug/l	99
69) o-Xylene	11.95	106	2821	0.414	ug/l	100
70) Styrene	11.97	104	4135	0.370	ug/l	92
71) Bromoform	12.13	173	1227	0.430	ug/l #	78
73) Isopropylbenzene	12.25	105	7579	0.499	ug/l	95
74) N-amyl acetate	12.07	43	2715	0.398	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.51	83	2989	0.597	ug/l #	93
76) 1,2,3-Trichloropropane	12.56	75	3615m	0.785	ug/l	
77) Bromobenzene	12.53	156	2154	0.583	ug/l	84
78) n-propylbenzene	12.59	91	9500	0.536	ug/l	98
79) 2-Chlorotoluene	12.68	91	5685	0.517	ug/l	95
80) 1,3,5-Trimethylbenzene	12.74	105	6187	0.477	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.31	75	1352m	0.787	ug/l	
82) 4-Chlorotoluene	12.78	91	5707	0.506	ug/l	99
83) tert-Butylbenzene	13.00	119	5595	0.503	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	5662	0.440	ug/l	87
85) sec-Butylbenzene	13.18	105	6609	0.451	ug/l	87
86) p-Isopropyltoluene	13.29	119	5805	0.436	ug/l	94
87) 1,3-Dichlorobenzene	13.29	146	3458	0.507	ug/l	92
88) 1,4-Dichlorobenzene	13.37	146	3971m	0.573	ug/l	
89) n-Butylbenzene	13.62	91	5197	0.422	ug/l	98
90) Hexachloroethane	13.88	117	1351	0.567	ug/l	81
91) 1,2-Dichlorobenzene	13.66	146	3292	0.496	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	14.27	75	897	0.767	ug/l #	52

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	1846	0.455	ug/l	85
94) Hexachlorobutadiene	15.01	225	1172	0.549	ug/l	95
95) Naphthalene	15.13	128	5590	0.480	ug/l	97
96) 1,2,3-Trichlorobenzene	15.30	180	1909	0.482	ug/l #	86

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

