

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101519\
 Data File : VN058776.D
 Acq On : 15 Oct 2019 12:58
 Operator : JC/SP
 Sample : K5111-09 0.5PPB MDL
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 12:42:36 AM

Quant Time: Oct 16 04:52:19 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	408444	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	671527	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	602630	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	247379	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	331598	57.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.98%	
35) Dibromofluoromethane	7.57	113	236342	56.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.96%	
50) Toluene-d8	10.08	98	876372	52.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.68%	
62) 4-Bromofluorobenzene	12.40	95	292525	46.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.18%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.83	85	2602	0.512	ug/l	91
3) Chloromethane	2.04	50	3979	0.658	ug/l	93
4) Vinyl Chloride	2.17	62	3363	0.558	ug/l	97
5) Bromomethane	2.54	94	2689	0.734	ug/l	92
6) Chloroethane	2.68	64	2469	0.664	ug/l #	74
7) Trichlorofluoromethane	3.00	101	4265	0.592	ug/l	97
8) Diethyl Ether	3.39	74	1544	0.580	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	3.73	101	2223	0.541	ug/l	98
10) Methyl Iodide	3.93	142	2809	0.501	ug/l #	92
11) Tert butyl alcohol	4.76	59	2572	2.777	ug/l #	72
12) 1,1-Dichloroethene	3.72	96	2258	0.576	ug/l #	66
13) Acrolein	3.59	56	2035	2.732	ug/l #	76
14) Allyl chloride	4.30	41	4848m	0.612	ug/l	
15) Acrylonitrile	4.97	53	6432	2.754	ug/l #	64
16) Acetone	3.80	43	7779	3.286	ug/l	99
17) Carbon Disulfide	4.03	76	8141	0.649	ug/l	98
18) Methyl Acetate	4.31	43	5112	0.851	ug/l #	73
19) Methyl tert-butyl Ether	5.01	73	7486m	0.534	ug/l	
20) Methylene Chloride	4.53	84	3473	0.702	ug/l	90
21) trans-1,2-Dichloroethene	5.01	96	2565	0.585	ug/l	85
22) Diisopropyl ether	5.92	45	8391m	0.545	ug/l	
23) Vinyl Acetate	5.88	43	30841	2.483	ug/l	97
24) 1,1-Dichloroethane	5.82	63	5092m	0.581	ug/l	
25) 2-Butanone	6.82	43	10770	3.148	ug/l	98
26) 2,2-Dichloropropane	6.80	77	5103	0.638	ug/l #	71
27) cis-1,2-Dichloroethene	6.81	96	3086	0.603	ug/l	80
28) Bromochloromethane	7.18	49	1766m	0.579	ug/l	
29) Tetrahydrofuran	7.19	42	5734	2.593	ug/l #	72
30) Chloroform	7.36	83	5720	0.649	ug/l	100
31) Cyclohexane	7.64	56	13338	1.590	ug/l #	28
32) 1,1,1-Trichloroethane	7.55	97	4106	0.547	ug/l #	49
36) 1,1-Dichloropropene	7.79	75	3614	0.532	ug/l	94
37) Ethyl Acetate	6.91	43	4655	0.678	ug/l #	75
38) Carbon Tetrachloride	7.75	117	4035	0.610	ug/l	88

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	4165	0.529	ug/l	85
40) Benzene	8.02	78	10917	0.560	ug/l #	87
41) Methacrylonitrile	7.16	41	1570m	0.488	ug/l	
42) 1,2-Dichloroethane	8.11	62	5132	0.685	ug/l	83
43) Isopropyl Acetate	8.15	43	6244	0.534	ug/l #	87
44) Trichloroethene	8.82	130	2554	0.527	ug/l	96
45) 1,2-Dichloropropane	9.10	63	2665m	0.511	ug/l	
46) Dibromomethane	9.20	93	1850	0.559	ug/l	95
47) Bromodichloromethane	9.39	83	3599	0.534	ug/l	93
48) Methyl methacrylate	9.19	41	2895	0.546	ug/l	89
49) 1,4-Dioxane	9.19	88	990	12.069	ug/l #	82
51) 4-Methyl-2-Pentanone	9.98	43	16361	2.490	ug/l	98
52) Toluene	10.15	92	6478	0.543	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	4895	0.633	ug/l #	66
54) cis-1,3-Dichloropropene	9.83	75	4356	0.531	ug/l	93
55) 1,1,2-Trichloroethane	10.55	97	2926	0.599	ug/l	89
56) Ethyl methacrylate	10.43	69	3125	0.438	ug/l	86
57) 1,3-Dichloropropane	10.71	76	4306	0.518	ug/l #	82
58) 2-Chloroethyl Vinyl ether	9.69	63	8381	2.439	ug/l	97
59) 2-Hexanone	10.75	43	12353	2.433	ug/l	96
60) Dibromochloromethane	10.90	129	2383	0.473	ug/l	93
61) 1,2-Dibromoethane	11.01	107	2615	0.535	ug/l	95
64) Tetrachloroethene	10.63	164	2477	0.587	ug/l	93
65) Chlorobenzene	11.43	112	6612	0.540	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.50	131	2451	0.542	ug/l #	51
67) Ethyl Benzene	11.51	91	11046	0.506	ug/l	92
68) m/p-Xylenes	11.62	106	8333	1.018	ug/l	92
69) o-Xylene	11.95	106	3969	0.501	ug/l	95
70) Styrene	11.96	104	5779	0.445	ug/l	99
71) Bromoform	12.13	173	1695	0.511	ug/l #	90
73) Isopropylbenzene	12.25	105	9673	0.540	ug/l	97
74) N-amyl acetate	12.07	43	3914	0.486	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.50	83	3571	0.605	ug/l #	91
76) 1,2,3-Trichloropropane	12.56	75	4153m	0.765	ug/l	
77) Bromobenzene	12.53	156	2865	0.657	ug/l	94
78) n-propylbenzene	12.60	91	12186	0.584	ug/l	97
79) 2-Chlorotoluene	12.68	91	7739	0.597	ug/l	96
80) 1,3,5-Trimethylbenzene	12.74	105	8535	0.558	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.30	75	1194m	0.589	ug/l	
82) 4-Chlorotoluene	12.78	91	7430	0.559	ug/l	97
83) tert-Butylbenzene	13.00	119	7073	0.540	ug/l	91
84) 1,2,4-Trimethylbenzene	13.04	105	8000	0.527	ug/l	98
85) sec-Butylbenzene	13.18	105	8804	0.510	ug/l	96
86) p-Isopropyltoluene	13.29	119	7413	0.472	ug/l	97
87) 1,3-Dichlorobenzene	13.29	146	4548	0.566	ug/l	97
88) 1,4-Dichlorobenzene	13.37	146	4919m	0.602	ug/l	
89) n-Butylbenzene	13.62	91	7291	0.502	ug/l	96
90) Hexachloroethane	13.88	117	1641	0.584	ug/l	89
91) 1,2-Dichlorobenzene	13.66	146	4731	0.604	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.28	75	951	0.690	ug/l #	64

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	2538	0.531	ug/l	89
94) Hexachlorobutadiene	15.02	225	1540	0.612	ug/l	95
95) Naphthalene	15.13	128	7052	0.514	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	2496	0.535	ug/l	91

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

