

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101218\
 Data File : VN051833.D
 Acq On : 12 Oct 2018 15:26
 Operator : MD\SY
 Sample : J5164-09 2.5ppb
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 MDL-WATER-03-QT4-2018

Manual Integrations
 APPROVED

MMDadoda
 10/15/2018 11:27:58 AM

Quant Time: Oct 13 03:35:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	126299	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	695401	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	581271	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	242078	31.50	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.00%
60) 4-Bromofluorobenzene	12.40	95	217660	25.97	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	86.57%
63) Toluene-d8	10.09	98	809645	32.08	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.93%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	13121	2.67	ug/l	96
3) Chloromethane	2.06	50	15363	2.96	ug/l	98
4) Vinyl Chloride	2.18	62	21608	2.79	ug/l	97
5) Bromomethane	2.57	94	22377	3.27	ug/l	86
6) Chloroethane	2.70	64	16747	3.00	ug/l	94
7) Trichlorofluoromethane	3.01	101	31745	2.88	ug/l	99
8) Diethyl Ether	3.41	74	9270	2.88	ug/l	74
9) 1,1,2-Trichlorotrifluoroet	3.76	101	18162	2.89	ug/l #	74
10) 1,1-Dichloroethene	3.74	96	16017	2.75	ug/l	84
11) Methyl Iodide	3.95	142	17041	2.02	ug/l	93
12) Methyl Acetate	4.34	43	10287	2.85	ug/l	97
13) Acrolein	3.62	56	4702m	19.76	ug/l	
14) Acrylonitrile	4.99	53	19269m	11.94	ug/l	
15) Acetone	3.83	58	4942m	12.39	ug/l	
16) Carbon Disulfide	4.06	76	35926	2.35	ug/l #	90
17) Allyl chloride	4.32	41	16745	2.43	ug/l	81
18) Methylene Chloride	4.55	84	19486	3.00	ug/l	94
19) trans-1,2-Dichloroethene	5.04	96	18636	2.81	ug/l	87
20) Diisopropyl ether	5.96	45	41473	2.70	ug/l #	86
21) 1,1-Dichloroethane	5.85	63	29122	2.71	ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	20306	2.60	ug/l	84
23) tert-Butyl Alcohol	4.80	59	6664m	15.68	ug/l	
24) Methyl tert-Butyl Ether	5.06	73	46786	2.79	ug/l #	60
25) Chloroform	7.37	83	33022	2.59	ug/l	97
26) Cyclohexane	7.65	56	24150	2.65	ug/l #	73
29) 1,1-Dichloropropene	7.79	75	23475	2.62	ug/l	93
30) 2-Butanone	6.85	43	22904	12.23	ug/l #	90
31) 2,2-Dichloropropane	6.83	77	25754	2.44	ug/l #	78
32) 1,1,1-Trichloroethane	7.57	97	31257	2.63	ug/l	95
33) Carbon Tetrachloride	7.78	117	26658	2.48	ug/l	93
34) Benzene	8.04	78	74634	2.81	ug/l #	68
35) Methacrylonitrile	7.21	41	8927m	3.63	ug/l	
36) 1,2-Dichloroethane	8.13	62	24445	2.88	ug/l	96
37) Trichloroethene	8.83	130	21829	2.65	ug/l	94
38) Methylcyclohexane	9.08	83	29231	2.54	ug/l	83
39) 1,2-Dichloropropane	9.12	63	16793	2.69	ug/l	96
40) Dibromomethane	9.21	93	11853	2.56	ug/l	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	22946	2.40	ug/l	92
42) Vinyl Acetate	5.90	43	133806	12.69	ug/l #	92
43) Ethyl Acetate	6.93	43	8891	2.19	ug/l #	71
44) Isopropyl Acetate	8.17	43	20733	2.55	ug/l	98
45) 1,4-Dioxane	9.21	88	3370	51.65	ug/l #	75
46) Methyl methacrylate	9.20	41	9543	2.55	ug/l	77
47) n-amyl Acetate	12.07	43	11867	1.74	ug/l #	80
48) t-1,3-Dichloropropene	10.38	75	20459	2.19	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	23646	2.30	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	16531	2.58	ug/l	96
51) Ethyl methacrylate	10.43	69	16804	2.29	ug/l	86
52) 1,3-Dichloropropane	10.71	76	25343	2.56	ug/l	97
53) Dibromochloromethane	10.90	129	17023	2.15	ug/l	91
54) 1,2-Dibromoethane	11.01	107	16523	2.46	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	36007	11.49	ug/l	93
56) Bromoform	12.13	173	9066	1.74	ug/l #	90
58) 4-Methyl-2-Pentanone	9.99	43	55695	14.32	ug/l #	89
59) 2-Hexanone	10.75	43	31726m	12.09	ug/l	
61) Tetrachloroethene	10.63	164	21010	2.83	ug/l	91
62) Toluene	10.16	91	81697	2.83	ug/l	98
64) Chlorobenzene	11.43	112	51274	2.71	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.51	131	18234	2.51	ug/l	98
66) Ethyl Benzene	11.51	91	81130	2.54	ug/l	99
67) m/p-Xylenes	11.62	106	64029	4.95	ug/l	99
68) o-Xylene	11.95	106	31882	2.50	ug/l	94
69) Styrene	11.97	104	40170	2.05	ug/l	95
70) Isopropylbenzene	12.25	105	85288	2.51	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	16966	2.53	ug/l	93
72) 1,2,3-Trichloropropane	12.56	75	15895m	3.01	ug/l	
73) Bromobenzene	12.53	156	19407	2.30	ug/l	86
74) n-propylbenzene	12.59	91	81463	2.23	ug/l	93
75) 2-Chlorotoluene	12.68	91	52198	2.43	ug/l	93
76) 1,3,5-Trimethylbenzene	12.73	105	64373	2.29	ug/l	97
77) t-1,4-Dichloro-2-butene	12.31	75	2929	1.68	ug/l	85
78) 4-Chlorotoluene	12.78	91	43674	2.07	ug/l	96
79) tert-butylbenzene	12.99	119	63125	2.44	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	58902	2.10	ug/l	96
81) sec-Butylbenzene	13.17	105	73740	2.18	ug/l	97
82) p-Isopropyltoluene	13.29	119	60856	2.01	ug/l	96
83) 1,3-Dichlorobenzene	13.28	146	26775	1.80	ug/l	97
84) 1,4-Dichlorobenzene	13.37	146	24037	1.72	ug/l	94
85) n-Butylbenzene	13.62	91	34971	1.53	ug/l	98
86) Hexachloroethane	13.88	117	10432	2.00	ug/l	83
87) 1,2-Dichlorobenzene	13.65	146	26997	1.88	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	1864	1.86	ug/l #	78
89) 1,2,4-Trichlorobenzene	14.91	180	8125	8.58	ug/l	96
90) Hexachlorobutadiene	15.01	225	9424	2.03	ug/l	88
91) Naphthalene	15.13	128	20398	9.57	ug/l	98
92) 1,2,3-Trichlorobenzene	15.32	180	9351	1.43	ug/l	94

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

