

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX043018\
 Data File : VX001262.D
 Acq On : 30 Apr 2018 19:14
 Operator : JC/MD
 Sample : J2133-07 LOD-MDL 2.5PPB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2018

Manual Integrations
 APPROVED

MMDadoda
 5/2/2018 11:08:07 AM

Quant Time: May 01 09:23:19 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X043018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 01 09:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	32552	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	185326	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	167373	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	72799	31.00	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.33%
60) 4-Bromofluorobenzene	11.14	95	77958	27.80	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.67%
63) Toluene-d8	8.72	98	220448	30.71	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.37%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	4302	2.02	ug/l	98
3) Chloromethane	1.32	50	5206	2.61	ug/l	98
4) Vinyl Chloride	1.40	62	5430	2.60	ug/l	95
5) Bromomethane	1.65	94	4987	3.16	ug/l	89
6) Chloroethane	1.73	64	3607	2.82	ug/l	97
7) Trichlorofluoromethane	1.93	101	9183	2.65	ug/l	95
8) Diethyl Ether	2.20	74	3529	2.93	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	2.39	101	5626	2.86	ug/l	93
10) 1,1-Dichloroethene	2.38	96	5185	2.91	ug/l	96
11) Methyl Iodide	2.52	142	4313	1.99	ug/l	89
12) Methyl Acetate	2.79	43	6928	2.96	ug/l	94
13) Acrolein	2.30	56	4619	16.52	ug/l	92
14) Acrylonitrile	3.15	53	14466	15.50	ug/l	98
15) Acetone	2.45	58	4676	16.11	ug/l	99
16) Carbon Disulfide	2.57	76	11895	2.51	ug/l	96
17) Allyl chloride	2.73	41	8604	2.72	ug/l	99
18) Methylene Chloride	2.86	84	5823	3.00	ug/l	96
19) trans-1,2-Dichloroethene	3.17	96	5506	2.86	ug/l	89
20) Diisopropyl ether	3.87	45	16237	2.61	ug/l	97
21) 1,1-Dichloroethane	3.71	63	9520	2.84	ug/l	96
22) cis-1,2-Dichloroethene	4.60	96	5879	2.74	ug/l	98
23) tert-Butyl Alcohol	3.07	59	7217	18.93	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	17482	2.86	ug/l	93
25) Chloroform	5.23	83	9845	2.70	ug/l	95
26) Cyclohexane	5.59	56	8243	2.71	ug/l #	89
29) 1,1-Dichloropropene	5.81	75	6986	2.54	ug/l	90
30) 2-Butanone	4.71	43	20254	14.40	ug/l	99
31) 2,2-Dichloropropane	4.59	77	6975	2.33	ug/l	98
32) 1,1,1-Trichloroethane	5.51	97	8300	2.50	ug/l	97
33) Carbon Tetrachloride	5.79	117	6657	2.22	ug/l	94
34) Benzene	6.15	78	22079	2.71	ug/l #	88
35) Methacrylonitrile	5.07	41	4732	3.03	ug/l	96
36) 1,2-Dichloroethane	6.21	62	8671	2.78	ug/l #	94
37) Trichloroethene	7.22	130	6531	2.65	ug/l	98
38) Methylcyclohexane	7.46	83	8143	2.52	ug/l	95
39) 1,2-Dichloropropane	7.52	63	5207	2.52	ug/l	96
40) Dibromomethane	7.66	93	3698	2.55	ug/l	86

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

41) Bromodichloromethane	7.91	83	6146	2.24	ug/l #	90
42) Vinyl Acetate	3.83	43	65393	11.82	ug/l	98
43) Ethyl Acetate	4.87	43	8101m	2.99	ug/l	
44) Isopropyl Acetate	6.47	43	11614	2.52	ug/l	99
45) 1,4-Dioxane	7.77	88	2476	59.08	ug/l	87
46) Methyl methacrylate	7.78	41	6082	2.54	ug/l	86
47) n-amyl Acetate	10.90	43	9126	2.06	ug/l	97
48) t-1,3-Dichloropropene	8.45	75	6312	1.96	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	5619	1.82	ug/l #	89
50) 1,1,2-Trichloroethane	9.22	97	5416	2.51	ug/l	98
51) Ethyl methacrylate	9.19	69	6911	2.25	ug/l	91
52) 1,3-Dichloropropane	9.38	76	9130	2.62	ug/l	99
53) Dibromochloromethane	9.59	129	4538	1.91	ug/l	91
54) 1,2-Dibromoethane	9.68	107	5541	2.40	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	16294	10.83	ug/l	98
56) Bromoform	10.86	173	3451	1.77	ug/l #	95
58) 4-Methyl-2-Pentanone	8.66	43	37040	13.33	ug/l	98
59) 2-Hexanone	9.51	43	28409	13.13	ug/l	97
61) Tetrachloroethene	9.34	164	7240	2.82	ug/l	92
62) Toluene	8.79	91	23924	2.66	ug/l	100
64) Chlorobenzene	10.15	112	15883	2.62	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.23	131	4877	2.20	ug/l	95
66) Ethyl Benzene	10.26	91	25263	2.52	ug/l	97
67) m/p-Xylenes	10.37	106	19702	4.94	ug/l	96
68) o-Xylene	10.71	106	9220	2.39	ug/l	94
69) Styrene	10.72	104	14731	2.30	ug/l	98
70) Isopropylbenzene	11.02	105	25491	2.44	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.27	83	7723	2.52	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	7341m	2.67	ug/l	
73) Bromobenzene	11.26	156	7405	2.43	ug/l	96
74) n-propylbenzene	11.37	91	26891	2.27	ug/l	97
75) 2-Chlorotoluene	11.43	91	17327	2.43	ug/l	96
76) 1,3,5-Trimethylbenzene	11.51	105	20733	2.32	ug/l	68
77) t-1,4-Dichloro-2-butene	11.08	75	1240	1.52	ug/l #	52
78) 4-Chlorotoluene	11.52	91	19709	2.32	ug/l	96
79) tert-butylbenzene	12.07	119	21566	2.26	ug/l	95
80) 1,2,4-Trimethylbenzene	11.81	105	21024	2.32	ug/l	98
81) sec-Butylbenzene	11.95	105	24051	2.32	ug/l	98
82) p-Isopropyltoluene	12.07	119	21566	2.26	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	13062	2.35	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	13775	2.44	ug/l	96
85) n-Butylbenzene	12.40	91	17820	2.16	ug/l	98
86) Hexachloroethane	12.60	117	2814	1.93	ug/l	77
87) 1,2-Dichlorobenzene	12.40	146	14015	2.54	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	13.01	75	1429	2.23	ug/l	92
89) 1,2,4-Trichlorobenzene	13.65	180	9527	2.28	ug/l	98
90) Hexachlorobutadiene	13.79	225	5243	2.70	ug/l	98
91) Naphthalene	13.84	128	25106	2.32	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	9895	2.40	ug/l	99

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

