

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX043018\
 Data File : VX001264.D
 Acq On : 30 Apr 2018 20:30
 Operator : JC/MD
 Sample : J2133-10 L00 10.0PPB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-04-QT2-2018

Manual Integrations
 APPROVED

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

Quant Time: May 01 09:26:37 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	32916	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	184913	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	171490	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	72116	30.37	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.23%
60) 4-Bromofluorobenzene	11.14	95	83158	28.94	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.47%
63) Toluene-d8	8.72	98	222525	30.26	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.87%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	16456	7.63	ug/l	97
3) Chloromethane	1.32	50	18868	9.37	ug/l	98
4) Vinyl Chloride	1.40	62	19824	9.38	ug/l	100
5) Bromomethane	1.64	94	18008	11.29	ug/l	100
6) Chloroethane	1.72	64	13266	10.26	ug/l	100
7) Trichlorofluoromethane	1.93	101	35389	10.08	ug/l	100
8) Diethyl Ether	2.19	74	13514	11.09	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.39	101	20235	10.17	ug/l	94
10) 1,1-Dichloroethene	2.37	96	18386	10.20	ug/l	90
11) Methyl Iodide	2.51	142	15366	7.01	ug/l	98
12) Methyl Acetate	2.78	43	27438	11.58	ug/l	100
13) Acrolein	2.29	56	16933	59.90	ug/l	98
14) Acrylonitrile	3.15	53	56091	59.45	ug/l	100
15) Acetone	2.45	58	16199	55.18	ug/l	92
16) Carbon Disulfide	2.57	76	43903	9.15	ug/l	98
17) Allyl chloride	2.73	41	33057	10.33	ug/l	92
18) Methylene Chloride	2.86	84	21958	11.17	ug/l	96
19) trans-1,2-Dichloroethene	3.17	96	20003	10.29	ug/l	87
20) Diisopropyl ether	3.88	45	61216	9.72	ug/l	95
21) 1,1-Dichloroethane	3.70	63	34380	10.16	ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	22827	10.52	ug/l	97
23) tert-Butyl Alcohol	3.08	59	26134	67.78	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	67285	10.88	ug/l	94
25) Chloroform	5.22	83	36904	10.02	ug/l	97
26) Cyclohexane	5.58	56	29680	9.65	ug/l	# 96
29) 1,1-Dichloropropene	5.81	75	26692	9.74	ug/l	100
30) 2-Butanone	4.71	43	78680	56.04	ug/l	97
31) 2,2-Dichloropropane	4.59	77	26387	8.82	ug/l	100
32) 1,1,1-Trichloroethane	5.51	97	31580	9.53	ug/l	97
33) Carbon Tetrachloride	5.79	117	26430	8.85	ug/l	99
34) Benzene	6.15	78	81023	9.98	ug/l	93
35) Methacrylonitrile	5.07	41	17198	11.04	ug/l	93
36) 1,2-Dichloroethane	6.20	62	31716	10.18	ug/l	99
37) Trichloroethene	7.21	130	23992	9.75	ug/l	97
38) Methylcyclohexane	7.47	83	31536	9.78	ug/l	95
39) 1,2-Dichloropropane	7.52	63	20739	10.07	ug/l	98
40) Dibromomethane	7.67	93	14531	10.03	ug/l	87

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	24933	9.11	ug/l	99
42) Vinyl Acetate	3.83	43	262745	47.58	ug/l	98
43) Ethyl Acetate	4.87	43	29720	10.99	ug/l #	91
44) Isopropyl Acetate	6.47	43	45599	9.91	ug/l	99
45) 1,4-Dioxane	7.76	88	10507	251.28	ug/l	96
46) Methyl methacrylate	7.79	41	24253	10.13	ug/l	93
47) n-amyl Acetate	10.90	43	39063	8.85	ug/l	97
48) t-1,3-Dichloropropene	8.44	75	28137	8.74	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	24415	7.91	ug/l #	88
50) 1,1,2-Trichloroethane	9.22	97	21714	10.10	ug/l	97
51) Ethyl methacrylate	9.19	69	28827	9.41	ug/l	93
52) 1,3-Dichloropropane	9.38	76	35044	10.08	ug/l	100
53) Dibromochloromethane	9.59	129	20385	8.59	ug/l	99
54) 1,2-Dibromoethane	9.68	107	22576	9.81	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	69854	46.53	ug/l	99
56) Bromoform	10.86	173	15823	8.14	ug/l #	97
58) 4-Methyl-2-Pentanone	8.66	43	153774	54.03	ug/l	98
59) 2-Hexanone	9.51	43	119770	54.01	ug/l	96
61) Tetrachloroethene	9.34	164	28530	10.86	ug/l	91
62) Toluene	8.79	91	91441	9.92	ug/l	99
64) Chlorobenzene	10.15	112	62576	10.06	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	21067	9.28	ug/l	98
66) Ethyl Benzene	10.26	91	101541	9.87	ug/l	97
67) m/p-Xylenes	10.37	106	79561	19.47	ug/l	98
68) o-Xylene	10.70	106	39142	9.91	ug/l	99
69) Styrene	10.72	104	62052	9.44	ug/l	99
70) Isopropylbenzene	11.02	105	104656	9.76	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.27	83	31941	10.15	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	29076m	10.33	ug/l	
73) Bromobenzene	11.26	156	30587	9.81	ug/l	95
74) n-propylbenzene	11.37	91	116789	9.64	ug/l	98
75) 2-Chlorotoluene	11.43	91	71348	9.76	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	87823	9.61	ug/l	67
77) t-1,4-Dichloro-2-butene	11.08	75	6058	7.23	ug/l	71
78) 4-Chlorotoluene	11.52	91	82259	9.43	ug/l	98
79) tert-butylbenzene	12.07	119	93659	9.58	ug/l	95
80) 1,2,4-Trimethylbenzene	11.81	105	89477	9.62	ug/l	100
81) sec-Butylbenzene	11.95	105	104977	9.89	ug/l	99
82) p-Isopropyltoluene	12.07	119	93659	9.58	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	54336	9.56	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	55358	9.55	ug/l	98
85) n-Butylbenzene	12.40	91	76386	9.03	ug/l	98
86) Hexachloroethane	12.60	117	12119	8.11	ug/l	67
87) 1,2-Dichlorobenzene	12.40	146	55146	9.76	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.01	75	6073	9.24	ug/l	96
89) 1,2,4-Trichlorobenzene	13.65	180	41826	9.77	ug/l	97
90) Hexachlorobutadiene	13.79	225	22109	11.12	ug/l	98
91) Naphthalene	13.84	128	115105	10.36	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	43183	10.22	ug/l	98

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

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