

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071218\
 Data File : VX003351.D
 Acq On : 12 Jul 2018 15:09
 Operator : JC/MD
 Sample : J3762-09 MDL 2.5PPB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2018

Quant Time: Jul 12 15:57:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 12 13:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	63547	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	6.87	114	300038	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	273780	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	118570	27.32	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	91.07%
60) 4-Bromofluorobenzene	11.14	95	124375	28.27	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.23%
63) Toluene-d8	8.72	98	370305	30.59	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	8571	1.777 ug/l	95
3) Chloromethane	1.32	50	11373	2.374 ug/l	94
4) Vinyl Chloride	1.40	62	11793	2.258 ug/l	96
5) Bromomethane	1.64	94	8718	4.025 ug/l	93
6) Chloroethane	1.73	64	7590	2.438 ug/l	94
7) Trichlorofluoromethane	1.93	101	16237	2.333 ug/l	94
8) Diethyl Ether	2.19	74	6955	2.444 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	10291	2.416 ug/l	94
10) 1,1-Dichloroethene	2.37	96	9121	2.307 ug/l	97
11) Methyl Iodide	2.51	142	6693	9.739 ug/l	93
12) Methyl Acetate	2.78	43	12863	2.004 ug/l	96
13) Acrolein	2.29	56	8216	16.477 ug/l	100
14) Acrylonitrile	3.15	53	29353	12.154 ug/l	99
15) Acetone	2.45	58	8278	13.075 ug/l	85
16) Carbon Disulfide	2.57	76	27783	2.461 ug/l	98
17) Allyl chloride	2.73	41	17889	2.379 ug/l	88
18) Methylene Chloride	2.86	84	13087	2.821 ug/l #	82
19) trans-1,2-Dichloroethene	3.17	96	10339	2.425 ug/l	91
20) Diisopropyl ether	3.87	45	32230	2.372 ug/l	97
21) 1,1-Dichloroethane	3.70	63	19012	2.386 ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	11196	2.470 ug/l #	39
23) tert-Butyl Alcohol	3.07	59	12653	12.618 ug/l #	99
24) Methyl tert-Butyl Ether	3.21	73	31748	2.405 ug/l	90
25) Chloroform	5.21	83	17351	2.418 ug/l	100
26) Cyclohexane	5.58	56	14873	2.391 ug/l #	94
29) 1,1-Dichloropropene	5.81	75	12150	2.568 ug/l	96
30) 2-Butanone	4.71	43	35573	13.457 ug/l #	92
31) 2,2-Dichloropropane	4.59	77	13164	2.576 ug/l #	77
32) 1,1,1-Trichloroethane	5.49	97	13735	2.564 ug/l	98
33) Carbon Tetrachloride	5.79	117	12230	2.602 ug/l	96
34) Benzene	6.15	78	35984	2.583 ug/l #	95
35) Methacrylonitrile	5.06	41	7754	2.773 ug/l	89
36) 1,2-Dichloroethane	6.20	62	13132	2.711 ug/l #	92
37) Trichloroethene	7.21	130	10287	2.670 ug/l	93
38) Methylcyclohexane	7.46	83	13411	2.508 ug/l	97
39) 1,2-Dichloropropane	7.52	63	9337	2.594 ug/l	96
40) Dibromomethane	7.67	93	6064	2.565 ug/l	99

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

41) Bromodichloromethane	7.90	83	10420	2.359	ug/l	98
42) Vinyl Acetate	3.83	43	136635	13.455	ug/l	98
43) Ethyl Acetate	4.87	43	14674	2.923	ug/l #	88
44) Isopropyl Acetate	6.47	43	18631	2.421	ug/l	92
45) 1,4-Dioxane	7.76	88	4305	52.409	ug/l #	90
46) Methyl methacrylate	7.78	41	8964	2.252	ug/l	88
47) n-amyl Acetate	10.90	43	13276	2.003	ug/l #	88
48) t-1,3-Dichloropropene	8.44	75	11432	2.127	ug/l	97
49) cis-1,3-Dichloropropene	9.05	75	10291	2.114	ug/l	95
50) 1,1,2-Trichloroethane	9.22	97	9400	2.636	ug/l	99
51) Ethyl methacrylate	9.18	69	11910	2.292	ug/l	85
52) 1,3-Dichloropropane	9.37	76	14917	2.547	ug/l	99
53) Dibromochloromethane	9.59	129	7825	2.196	ug/l	100
54) 1,2-Dibromoethane	9.68	107	9018	2.439	ug/l	98
55) 2-Chloroethyl vinyl ether	8.32	63	29313	11.958	ug/l	100
56) Bromoform	10.86	173	5646	2.072	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	58762	12.049	ug/l	95
59) 2-Hexanone	9.50	43	42226	11.304	ug/l	97
61) Tetrachloroethene	9.34	164	11441	2.730	ug/l	96
62) Toluene	8.79	91	39833	2.667	ug/l	97
64) Chlorobenzene	10.14	112	25865	2.615	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	8333	2.375	ug/l	99
66) Ethyl Benzene	10.26	91	39945	2.420	ug/l	99
67) m/p-Xylenes	10.36	106	29499	4.593	ug/l	99
68) o-Xylene	10.70	106	14525	2.351	ug/l	94
69) Styrene	10.71	104	22110	2.152	ug/l	98
70) Isopropylbenzene	11.02	105	37774	2.305	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	13109	2.551	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	14402	2.396	ug/l	90
73) Bromobenzene	11.26	156	11410	2.505	ug/l	95
74) n-propylbenzene	11.36	91	44248	2.319	ug/l	100
75) 2-Chlorotoluene	11.43	91	28086	2.460	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	30810	2.222	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	2554	1.779	ug/l	77
78) 4-Chlorotoluene	11.51	91	31436	2.357	ug/l	98
79) tert-butylbenzene	12.07	119	30812	2.098	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	30553	2.169	ug/l	98
81) sec-Butylbenzene	11.95	105	36647	2.234	ug/l	98
82) p-Isopropyltoluene	12.07	119	30812	2.098	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	19999	2.370	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	20496	2.406	ug/l	97
85) n-Butylbenzene	12.39	91	25685	1.992	ug/l	99
86) Hexachloroethane	12.60	117	4019	1.859	ug/l	98
87) 1,2-Dichlorobenzene	12.40	146	19796	2.347	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	2181	2.043	ug/l	96
89) 1,2,4-Trichlorobenzene	13.65	180	12804	2.114	ug/l	98
90) Hexachlorobutadiene	13.79	225	6409	2.160	ug/l	97
91) Naphthalene	13.83	128	34639	1.983	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	13607	2.216	ug/l	97

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

