

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071218\
 Data File : VX003352.D
 Acq On : 12 Jul 2018 15:36
 Operator : JC/MD
 Sample : J3762-08 LOO 10PPB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT3-2018

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 11:35:54 AM

Quant Time: Jul 12 17:21:52 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	57839	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	6.87	114	290372	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	268359	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	115173	29.16	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.20%
60) 4-Bromofluorobenzene	11.14	95	128340	29.76	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.20%
63) Toluene-d8	8.72	98	364076	30.69	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	32062	7.302	ug/l 98
3) Chloromethane	1.32	50	37619	8.627	ug/l 96
4) Vinyl Chloride	1.41	62	41333	8.693	ug/l 98
5) Bromomethane	1.64	94	23432	11.886	ug/l 97
6) Chloroethane	1.71	64	25388	8.959	ug/l 93
7) Trichlorofluoromethane	1.92	101	58225	9.192	ug/l 91
8) Diethyl Ether	2.19	74	25513	9.850	ug/l 93
9) 1,1,2-Trichlorotrifluoroet	2.38	101	36960	9.532	ug/l 99
10) 1,1-Dichloroethene	2.37	96	34597	9.616	ug/l 88
11) Methyl Iodide	2.51	142	26785	13.494	ug/l 94
12) Methyl Acetate	2.78	43	49122	8.410	ug/l # 91
13) Acrolein	2.29	56	29579	65.174	ug/l 99
14) Acrylonitrile	3.15	53	109628	49.872	ug/l 98
15) Acetone	2.45	58	29674	51.494	ug/l 75
16) Carbon Disulfide	2.57	76	93912	9.138	ug/l 97
17) Allyl chloride	2.73	41	66144	9.665	ug/l 87
18) Methylene Chloride	2.86	84	41968	9.940	ug/l 94
19) trans-1,2-Dichloroethene	3.16	96	37298	9.613	ug/l 98
20) Diisopropyl ether	3.88	45	116218	9.399	ug/l 93
21) 1,1-Dichloroethane	3.70	63	72625	10.014	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	39862	9.664	ug/l 86
23) tert-Butyl Alcohol	3.09	59	45902	50.293	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	116309	9.680	ug/l 91
25) Chloroform	5.21	83	63786	9.767	ug/l 96
26) Cyclohexane	5.58	56	53787	9.501	ug/l # 95
29) 1,1-Dichloropropene	5.80	75	44210	9.656	ug/l 98
30) 2-Butanone	4.71	43	129249	50.523	ug/l 93
31) 2,2-Dichloropropane	4.58	77	45272	9.156	ug/l 97
32) 1,1,1-Trichloroethane	5.49	97	51981	10.028	ug/l 99
33) Carbon Tetrachloride	5.78	117	42823	9.414	ug/l 95
34) Benzene	6.15	78	135650	10.062	ug/l 98
35) Methacrylonitrile	5.06	41	28220	10.427	ug/l 91
36) 1,2-Dichloroethane	6.20	62	48417	10.327	ug/l 96
37) Trichloroethene	7.21	130	37904	10.167	ug/l 91
38) Methylcyclohexane	7.46	83	49123	9.493	ug/l 98
39) 1,2-Dichloropropane	7.52	63	34523	9.910	ug/l 96
40) Dibromomethane	7.67	93	23092	10.094	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	39664	9.278	ug/l	100
42) Vinyl Acetate	3.82	43	488484	49.703	ug/l	97
43) Ethyl Acetate	4.87	43	50341m	10.360	ug/l	
44) Isopropyl Acetate	6.47	43	72464	9.730	ug/l	95
45) 1,4-Dioxane	7.76	88	16274	204.715	ug/l #	84
46) Methyl methacrylate	7.78	41	36218	9.404	ug/l	91
47) n-amyl Acetate	10.90	43	57974	9.037	ug/l #	88
48) t-1,3-Dichloropropene	8.44	75	47890	9.205	ug/l	99
49) cis-1,3-Dichloropropene	9.04	75	41897	8.892	ug/l	95
50) 1,1,2-Trichloroethane	9.22	97	33931	9.834	ug/l	96
51) Ethyl methacrylate	9.18	69	47596	9.465	ug/l	85
52) 1,3-Dichloropropane	9.38	76	57124	10.080	ug/l	98
53) Dibromochloromethane	9.59	129	30697	8.902	ug/l	99
54) 1,2-Dibromoethane	9.68	107	35124	9.816	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	120845	50.939	ug/l	99
56) Bromoform	10.86	173	22904	8.687	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	236436	49.459	ug/l	94
59) 2-Hexanone	9.50	43	181566	49.590	ug/l	96
61) Tetrachloroethene	9.34	164	42759	10.410	ug/l	99
62) Toluene	8.79	91	149576	10.216	ug/l	99
64) Chlorobenzene	10.14	112	96452	9.948	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	32479	9.444	ug/l	98
66) Ethyl Benzene	10.26	91	158203	9.778	ug/l	100
67) m/p-Xylenes	10.36	106	121633	19.321	ug/l	99
68) o-Xylene	10.70	106	58196	9.608	ug/l	98
69) Styrene	10.71	104	96432	9.577	ug/l	98
70) Isopropylbenzene	11.02	105	158522	9.870	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	50138	9.954	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	44161m	7.496	ug/l	
73) Bromobenzene	11.26	156	43399	9.721	ug/l	97
74) n-propylbenzene	11.36	91	180268	9.637	ug/l	99
75) 2-Chlorotoluene	11.43	91	108276	9.677	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	130037	9.568	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	11469	8.151	ug/l	82
78) 4-Chlorotoluene	11.51	91	125407	9.594	ug/l	99
79) tert-butylbenzene	12.07	119	131992	9.170	ug/l	98
80) 1,2,4-Trimethylbenzene	11.81	105	132369	9.585	ug/l	98
81) sec-Butylbenzene	11.95	105	152394	9.478	ug/l	99
82) p-Isopropyltoluene	12.07	119	131992	9.170	ug/l	98
83) 1,3-Dichlorobenzene	12.03	146	78022	9.432	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	78745	9.432	ug/l	100
85) n-Butylbenzene	12.39	91	109090	8.632	ug/l	100
86) Hexachloroethane	12.60	117	17267	8.149	ug/l	99
87) 1,2-Dichlorobenzene	12.40	146	79565	9.622	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	9119	8.714	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	52978	8.924	ug/l	100
90) Hexachlorobutadiene	13.79	225	25443	8.747	ug/l	98
91) Naphthalene	13.84	128	152021	8.879	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	54955	9.131	ug/l	99

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

