

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070618\
 Data File : VX003214.D
 Acq On : 06 Jul 2018 14:18
 Operator : JC/MD
 Sample : VX0706WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0706WBSD03

Manual Integrations
 APPROVED

apatel
 7/18/2018 11:52:02 AM

Quant Time: Jul 16 01:12:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X061818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jun 18 15:18:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	53818	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	269135	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	250584	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	115169	28.02	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	93.40%
60) 4-Bromofluorobenzene	11.14	95	122689	29.64	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.80%
63) Toluene-d8	8.72	98	321885	29.41	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.03%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	42343	16.484	ug/l 98
3) Chloromethane	1.32	50	41833	15.002	ug/l 98
4) Vinyl Chloride	1.40	62	48534	15.620	ug/l 98
5) Bromomethane	1.64	94	19862	10.942	ug/l 96
6) Chloroethane	1.72	64	32161	15.391	ug/l 96
7) Trichlorofluoromethane	1.93	101	82401	14.920	ug/l 90
8) Diethyl Ether	2.19	74	32965	16.741	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.38	101	50296	15.912	ug/l 97
10) 1,1-Dichloroethene	2.37	96	43707	15.709	ug/l 98
11) Methyl Iodide	2.51	142	40728	12.711	ug/l 98
12) Methyl Acetate	2.78	43	97937	21.691	ug/l 99
13) Acrolein	2.29	56	7853	24.462	ug/l 97
14) Acrylonitrile	3.15	53	154234	90.823	ug/l 98
15) Acetone	2.45	58	40381	85.550	ug/l 92
16) Carbon Disulfide	2.57	76	94020	13.496	ug/l 99
17) Allyl chloride	2.73	41	86314	15.590	ug/l 97
18) Methylene Chloride	2.86	84	68368	21.469	ug/l 95
19) trans-1,2-Dichloroethene	3.17	96	46672	15.644	ug/l 96
20) Diisopropyl ether	3.88	45	181949	17.636	ug/l 98
21) 1,1-Dichloroethane	3.70	63	93618	16.876	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	62517	19.495	ug/l # 79
23) tert-Butyl Alcohol	3.08	59	75538	97.973	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	170925	16.454	ug/l 95
25) Chloroform	5.22	83	107976	19.395	ug/l 99
26) Cyclohexane	5.57	56	80267	17.031	ug/l # 94
29) 1,1-Dichloropropene	5.80	75	71766	19.746	ug/l 97
30) 2-Butanone	4.71	43	240447	115.615	ug/l 94
31) 2,2-Dichloropropane	4.59	77	79371	20.433	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	89874	20.470	ug/l 98
33) Carbon Tetrachloride	5.79	117	80579	20.419	ug/l 93
34) Benzene	6.15	78	222722m	20.692	ug/l
35) Methacrylonitrile	5.07	41	51028	22.536	ug/l 94
36) 1,2-Dichloroethane	6.20	62	87516	20.710	ug/l 98
37) Trichloroethene	7.22	130	63442	20.124	ug/l 90
38) Methylcyclohexane	7.46	83	75918	17.169	ug/l 98
39) 1,2-Dichloropropane	7.52	63	58015	20.663	ug/l 93
40) Dibromomethane	7.66	93	40334	20.677	ug/l 94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	74161	20.239	ug/l	98
42) Vinyl Acetate	3.83	43	724057	91.798	ug/l	99
43) Ethyl Acetate	4.87	43	87808	22.075	ug/l	97
44) Isopropyl Acetate	6.47	43	139917	20.994	ug/l	97
45) 1,4-Dioxane	7.76	88	30139	461.616	ug/l #	84
46) Methyl methacrylate	7.78	41	70084	20.580	ug/l	95
47) n-amyl Acetate	10.90	43	111789	17.776	ug/l #	89
48) t-1,3-Dichloropropene	8.44	75	85195	19.805	ug/l	97
49) cis-1,3-Dichloropropene	9.05	75	77037	19.174	ug/l	96
50) 1,1,2-Trichloroethane	9.22	97	62089	21.579	ug/l	97
51) Ethyl methacrylate	9.19	69	86512	19.918	ug/l	87
52) 1,3-Dichloropropane	9.38	76	97763	20.802	ug/l	97
53) Dibromochloromethane	9.59	129	62175	20.355	ug/l	99
54) 1,2-Dibromoethane	9.68	107	64422	21.246	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	212506	103.012	ug/l	98
56) Bromoform	10.86	173	48799	20.012	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	474571	111.545	ug/l	97
59) 2-Hexanone	9.50	43	361495	111.149	ug/l	98
61) Tetrachloroethene	9.34	164	72943	21.210	ug/l	99
62) Toluene	8.79	91	240410	19.904	ug/l	98
64) Chlorobenzene	10.14	112	164263	20.469	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	61172	20.796	ug/l	99
66) Ethyl Benzene	10.26	91	261521	19.225	ug/l	100
67) m/p-Xylenes	10.36	106	205537	38.881	ug/l	97
68) o-Xylene	10.70	106	100252	19.465	ug/l	96
69) Styrene	10.71	104	165896	19.307	ug/l	98
70) Isopropylbenzene	11.02	105	274050	19.297	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	91125	21.464	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	79118m	21.498	ug/l	
73) Bromobenzene	11.26	156	78259	19.815	ug/l	91
74) n-propylbenzene	11.37	91	305135	18.509	ug/l	98
75) 2-Chlorotoluene	11.43	91	186861	19.476	ug/l	97
76) 1,3,5-Trimethylbenzene	11.51	105	227517	18.867	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	21651	18.291	ug/l	85
78) 4-Chlorotoluene	11.51	91	214858	18.903	ug/l	97
79) tert-butylbenzene	12.07	119	241821	18.182	ug/l	98
80) 1,2,4-Trimethylbenzene	11.81	105	232517	18.883	ug/l	98
81) sec-Butylbenzene	11.95	105	269369	18.261	ug/l	99
82) p-Isopropyltoluene	12.07	119	241821	18.182	ug/l	98
83) 1,3-Dichlorobenzene	12.03	146	142015	19.540	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	143201	19.508	ug/l	98
85) n-Butylbenzene	12.39	91	195002	16.541	ug/l	99
86) Hexachloroethane	12.60	117	34888	17.306	ug/l	98
87) 1,2-Dichlorobenzene	12.40	146	143926	19.609	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	19452	20.510	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	103843	18.744	ug/l	100
90) Hexachlorobutadiene	13.79	225	50994	17.680	ug/l	98
91) Naphthalene	13.84	128	294582	20.060	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	107613	19.523	ug/l	98

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

