

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071218\
 Data File : VX003354.D
 Acq On : 12 Jul 2018 16:29
 Operator : JC/MD
 Sample : VX0712WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0712WBSD01

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 11:35:56 AM

Quant Time: Jul 12 17:27:47 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	5.03	128	66991	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	341565	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	298522	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	126432	27.63	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	92.10%
60) 4-Bromofluorobenzene	11.14	95	137695	28.71	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.70%
63) Toluene-d8	8.72	98	416680	31.57	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.23%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	92101	18.111 ug/l	100
3) Chloromethane	1.32	50	87894	17.403 ug/l	99
4) Vinyl Chloride	1.40	62	100162	18.189 ug/l	99
5) Bromomethane	1.64	94	46415	20.328 ug/l	99
6) Chloroethane	1.73	64	57868	17.631 ug/l	96
7) Trichlorofluoromethane	1.93	101	134133	18.283 ug/l	95
8) Diethyl Ether	2.19	74	52464	17.487 ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.39	101	79690	17.745 ug/l	97
10) 1,1-Dichloroethene	2.37	96	74969	17.991 ug/l	88
11) Methyl Iodide	2.51	142	80523	21.251 ug/l	92
12) Methyl Acetate	2.78	43	128718	19.027 ug/l	95
13) Acrolein	2.29	56	42788	81.398 ug/l	99
14) Acrylonitrile	3.15	53	222428	87.364 ug/l	100
15) Acetone	2.45	58	60359	90.433 ug/l #	60
16) Carbon Disulfide	2.57	76	207984	17.473 ug/l	99
17) Allyl chloride	2.73	41	142502	17.979 ug/l	86
18) Methylene Chloride	2.86	84	87021	17.795 ug/l	87
19) trans-1,2-Dichloroethene	3.17	96	80192	17.845 ug/l	94
20) Diisopropyl ether	3.88	45	259204	18.099 ug/l	93
21) 1,1-Dichloroethane	3.70	63	152424	18.147 ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	92299	19.319 ug/l	80
23) tert-Butyl Alcohol	3.07	59	96926	91.690 ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	245573	17.646 ug/l	90
25) Chloroform	5.22	83	151074	19.972 ug/l	97
26) Cyclohexane	5.58	56	128557	19.606 ug/l #	95
29) 1,1-Dichloropropene	5.80	75	103002	19.125 ug/l	97
30) 2-Butanone	4.71	43	298247	99.111 ug/l	93
31) 2,2-Dichloropropane	4.58	77	103199	17.743 ug/l	98
32) 1,1,1-Trichloroethane	5.50	97	121553	19.936 ug/l	98
33) Carbon Tetrachloride	5.78	117	102498	19.155 ug/l	97
34) Benzene	6.15	78	316045	19.929 ug/l	98
35) Methacrylonitrile	5.06	41	64242	20.179 ug/l	90
36) 1,2-Dichloroethane	6.20	62	106610	19.332 ug/l #	95
37) Trichloroethene	7.21	130	87436	19.937 ug/l	94
38) Methylcyclohexane	7.46	83	116069	19.068 ug/l	97
39) 1,2-Dichloropropane	7.52	63	79933	19.507 ug/l	95
40) Dibromomethane	7.67	93	52079	19.353 ug/l	96

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

41) Bromodichloromethane	7.90	83	95120	18.916	ug/l	100
42) Vinyl Acetate	3.82	43	1031804	89.251	ug/l	97
43) Ethyl Acetate	4.87	43	109714	19.195	ug/l	95
44) Isopropyl Acetate	6.47	43	168433	19.226	ug/l	94
45) 1,4-Dioxane	7.76	88	37697	403.128	ug/l #	84
46) Methyl methacrylate	7.78	41	84864	18.732	ug/l	88
47) n-amyl Acetate	10.90	43	129716	17.190	ug/l #	89
48) t-1,3-Dichloropropene	8.44	75	114181	18.657	ug/l	100
49) cis-1,3-Dichloropropene	9.04	75	102054	18.414	ug/l	91
50) 1,1,2-Trichloroethane	9.22	97	78796	19.414	ug/l	97
51) Ethyl methacrylate	9.18	69	110678	18.712	ug/l	84
52) 1,3-Dichloropropane	9.37	76	129000	19.351	ug/l	99
53) Dibromochloromethane	9.59	129	74888	18.462	ug/l	100
54) 1,2-Dibromoethane	9.68	107	80916	19.224	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	281255	100.787	ug/l	99
56) Bromoform	10.86	173	53393	17.216	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	544070	102.311	ug/l	93
59) 2-Hexanone	9.50	43	409607	100.569	ug/l	93
61) Tetrachloroethene	9.34	164	97332	21.303	ug/l	99
62) Toluene	8.79	91	341977	20.997	ug/l	99
64) Chlorobenzene	10.14	112	216585	20.082	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	75698	19.788	ug/l	99
66) Ethyl Benzene	10.26	91	361007	20.059	ug/l	100
67) m/p-Xylenes	10.36	106	275337	39.317	ug/l	97
68) o-Xylene	10.70	106	130134	19.314	ug/l	96
69) Styrene	10.71	104	213689	19.078	ug/l	98
70) Isopropylbenzene	11.02	105	351672	19.684	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	109898	19.613	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	96179m	14.675	ug/l	
73) Bromobenzene	11.26	156	94966	19.122	ug/l	97
74) n-propylbenzene	11.37	91	398651	19.158	ug/l	99
75) 2-Chlorotoluene	11.42	91	240717	19.339	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	289749	19.165	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	26812	17.130	ug/l	91
78) 4-Chlorotoluene	11.51	91	274138	18.854	ug/l	98
79) tert-butylbenzene	12.07	119	295880	18.479	ug/l	98
80) 1,2,4-Trimethylbenzene	11.81	105	292791	19.059	ug/l	98
81) sec-Butylbenzene	11.95	105	337529	18.871	ug/l	99
82) p-Isopropyltoluene	12.07	119	295880	18.479	ug/l	98
83) 1,3-Dichlorobenzene	12.03	146	169019	18.369	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	168568	18.151	ug/l	100
85) n-Butylbenzene	12.39	91	244436	17.388	ug/l	99
86) Hexachloroethane	12.60	117	39761	16.870	ug/l	99
87) 1,2-Dichlorobenzene	12.40	146	168099	18.275	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	20658	17.746	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	113997	17.262	ug/l	100
90) Hexachlorobutadiene	13.79	225	53040	16.392	ug/l	99
91) Naphthalene	13.83	128	332611	17.464	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	117491	17.549	ug/l	100

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

