

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX053018\
 Data File : VX002141.D
 Acq On : 30 May 2018 15:16
 Operator : JC/MD
 Sample : VX0530WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0530WBS01

Manual Integrations
 APPROVED

MMDadoda
 5/31/2018 3:07:45 PM

Quant Time: May 31 05:30:20 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X052518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 25 02:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	54023	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	310957	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	283355	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	130280	30.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.17%
60) 4-Bromofluorobenzene	11.14	95	140039	28.87	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.23%
63) Toluene-d8	8.72	98	382350	30.28	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.93%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	55996	19.52	ug/l	99
3) Chloromethane	1.32	50	73047	21.41	ug/l	100
4) Vinyl Chloride	1.40	62	70589	20.80	ug/l	100
5) Bromomethane	1.64	94	38931	20.48	ug/l	97
6) Chloroethane	1.73	64	45917	22.87	ug/l	99
7) Trichlorofluoromethane	1.93	101	118686	22.93	ug/l	98
8) Diethyl Ether	2.19	74	44221	22.70	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.39	101	66396	23.82	ug/l	99
10) 1,1-Dichloroethene	2.37	96	59154	22.01	ug/l	99
11) Methyl Iodide	2.51	142	58530	13.86	ug/l	98
12) Methyl Acetate	2.78	43	107119	24.59	ug/l	98
13) Acrolein	2.29	56	32589	87.86	ug/l	99
14) Acrylonitrile	3.15	53	196010	109.36	ug/l	98
15) Acetone	2.45	58	55175	115.47	ug/l	91
16) Carbon Disulfide	2.57	76	133507	17.39	ug/l	100
17) Allyl chloride	2.73	41	128544	23.17	ug/l	95
18) Methylene Chloride	2.86	84	69354	22.96	ug/l	99
19) trans-1,2-Dichloroethene	3.17	96	63120	22.21	ug/l	96
20) Diisopropyl ether	3.88	45	230234	21.74	ug/l	99
21) 1,1-Dichloroethane	3.70	63	129888	23.04	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	68272	20.15	ug/l	93
23) tert-Butyl Alcohol	3.07	59	98933	106.42	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	237031	22.59	ug/l	98
25) Chloroform	5.22	83	122670	20.69	ug/l	97
26) Cyclohexane	5.58	56	103851	20.01	ug/l	# 99
29) 1,1-Dichloropropene	5.80	75	84445	19.41	ug/l	99
30) 2-Butanone	4.71	43	286301	94.35	ug/l	99
31) 2,2-Dichloropropane	4.59	77	100904	26.39	ug/l	98
32) 1,1,1-Trichloroethane	5.50	97	106075	18.67	ug/l	100
33) Carbon Tetrachloride	5.79	117	91452	17.71	ug/l	96
34) Benzene	6.15	78	257969	19.64	ug/l	99
35) Methacrylonitrile	5.07	41	63201	18.81	ug/l	97
36) 1,2-Dichloroethane	6.20	62	100889	19.71	ug/l	98
37) Trichloroethene	7.21	130	72455	19.44	ug/l	93
38) Methylcyclohexane	7.46	83	103449	20.38	ug/l	99
39) 1,2-Dichloropropane	7.52	63	70040	19.72	ug/l	97
40) Dibromomethane	7.67	93	45814	19.22	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	85563	17.31	ug/l	99
42) Vinyl Acetate	3.83	43	1001003	104.26	ug/l	98
43) Ethyl Acetate	4.87	43	109873	18.45	ug/l	100
44) Isopropyl Acetate	6.47	43	183236	18.50	ug/l	99
45) 1,4-Dioxane	7.76	88	34823	369.56	ug/l #	88
46) Methyl methacrylate	7.78	41	93890	18.72	ug/l	99
47) n-amyl Acetate	10.90	43	167162	18.34	ug/l #	91
48) t-1,3-Dichloropropene	8.44	75	105405	18.97	ug/l	97
49) cis-1,3-Dichloropropene	9.05	75	98176	18.25	ug/l	97
50) 1,1,2-Trichloroethane	9.22	97	69563	20.33	ug/l	96
51) Ethyl methacrylate	9.19	69	111443	18.80	ug/l	98
52) 1,3-Dichloropropane	9.38	76	116051	20.11	ug/l	99
53) Dibromochloromethane	9.59	129	68768	16.45	ug/l	99
54) 1,2-Dibromoethane	9.68	107	71775	19.38	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	406662	146.19	ug/l	100
56) Bromoform	10.86	173	53386	14.53	ug/l	100
58) 4-Methyl-2-Pentanone	8.65	43	596216	96.69	ug/l	99
59) 2-Hexanone	9.50	43	458438	95.81	ug/l	99
61) Tetrachloroethene	9.34	164	83251	19.26	ug/l	99
62) Toluene	8.79	91	285975	19.76	ug/l	99
64) Chlorobenzene	10.15	112	185973	19.86	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	69693	18.29	ug/l	100
66) Ethyl Benzene	10.26	91	321076	19.74	ug/l	99
67) m/p-Xylenes	10.37	106	243884	39.50	ug/l	99
68) o-Xylene	10.70	106	121939	19.72	ug/l	99
69) Styrene	10.72	104	199851	19.25	ug/l	99
70) Isopropylbenzene	11.02	105	331115	20.00	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	98682	19.02	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	90357m	18.49	ug/l	
73) Bromobenzene	11.26	156	86946	19.55	ug/l	97
74) n-propylbenzene	11.37	91	369668	20.01	ug/l	99
75) 2-Chlorotoluene	11.43	91	225921	19.82	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	274726	19.52	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	28636	16.17	ug/l	82
78) 4-Chlorotoluene	11.52	91	255938	19.75	ug/l	99
79) tert-butylbenzene	12.07	119	292887	19.85	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	282939	19.88	ug/l	100
81) sec-Butylbenzene	11.95	105	332893	20.18	ug/l	99
82) p-Isopropyltoluene	12.07	119	292887	19.85	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	154364	19.59	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	154845	19.75	ug/l	99
85) n-Butylbenzene	12.39	91	248697	20.09	ug/l	99
86) Hexachloroethane	12.60	117	44188	15.05	ug/l	100
87) 1,2-Dichlorobenzene	12.40	146	161256	19.87	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	23021	15.23	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	110678	19.20	ug/l	100
90) Hexachlorobutadiene	13.79	225	60598	19.77	ug/l	99
91) Naphthalene	13.84	128	345956	19.02	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	116184	19.30	ug/l	100

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

