

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX043018\
 Data File : VX001266.D
 Acq On : 30 Apr 2018 21:21
 Operator : JC/MD
 Sample : VX0430WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0430WBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/2/2018 11:08:12 AM

Quant Time: May 01 09:29:02 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X043018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 01 09:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	35644	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	198344	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	184638	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	77545	30.16	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.53%
60) 4-Bromofluorobenzene	11.14	95	90424	29.23	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.43%
63) Toluene-d8	8.72	98	240014	30.31	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.03%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	47911	20.50	ug/l	99
3) Chloromethane	1.32	50	42872	19.66	ug/l	97
4) Vinyl Chloride	1.40	62	46790	20.45	ug/l	99
5) Bromomethane	1.65	94	35426	20.50	ug/l	99
6) Chloroethane	1.73	64	28340	20.25	ug/l	98
7) Trichlorofluoromethane	1.93	101	77672	20.44	ug/l	99
8) Diethyl Ether	2.19	74	27369	20.74	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	2.39	101	43222	20.06	ug/l	92
10) 1,1-Dichloroethene	2.38	96	39455	20.21	ug/l	96
11) Methyl Iodide	2.51	142	41558	17.50	ug/l	97
12) Methyl Acetate	2.78	43	57677	22.47	ug/l	100
13) Acrolein	2.29	56	29459	96.23	ug/l	99
14) Acrylonitrile	3.15	53	113707	111.30	ug/l	100
15) Acetone	2.45	58	31838	100.16	ug/l	95
16) Carbon Disulfide	2.57	76	98930	19.05	ug/l	97
17) Allyl chloride	2.73	41	71031	20.50	ug/l	98
18) Methylene Chloride	2.86	84	44011	20.68	ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	42848	20.36	ug/l	95
20) Diisopropyl ether	3.88	45	132081	19.37	ug/l	96
21) 1,1-Dichloroethane	3.70	63	72278	19.73	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	47097	20.04	ug/l	99
23) tert-Butyl Alcohol	3.07	59	52083	124.75	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	139862	20.89	ug/l	94
25) Chloroform	5.22	83	78404	19.65	ug/l	98
26) Cyclohexane	5.58	56	64301	19.30	ug/l	# 95
29) 1,1-Dichloropropene	5.81	75	57246	19.48	ug/l	99
30) 2-Butanone	4.71	43	154920	102.88	ug/l	97
31) 2,2-Dichloropropane	4.59	77	56126	17.50	ug/l	100
32) 1,1,1-Trichloroethane	5.50	97	67703	19.04	ug/l	98
33) Carbon Tetrachloride	5.79	117	59296	18.50	ug/l	98
34) Benzene	6.15	78	170074	19.53	ug/l	93
35) Methacrylonitrile	5.07	41	33926	20.30	ug/l	92
36) 1,2-Dichloroethane	6.21	62	65327	19.55	ug/l	98
37) Trichloroethene	7.22	130	51204	19.39	ug/l	99
38) Methylcyclohexane	7.46	83	65660	18.99	ug/l	95
39) 1,2-Dichloropropane	7.53	63	43666	19.77	ug/l	98
40) Dibromomethane	7.67	93	30568	19.68	ug/l	87

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

41) Bromodichloromethane	7.91	83	54464	18.56	ug/l #	99
42) Vinyl Acetate	3.83	43	567977	95.89	ug/l	98
43) Ethyl Acetate	4.87	43	60832	20.98	ug/l	100
44) Isopropyl Acetate	6.48	43	97567	19.77	ug/l	98
45) 1,4-Dioxane	7.76	88	20006	446.06	ug/l	100
46) Methyl methacrylate	7.79	41	51101	19.91	ug/l	93
47) n-amyl Acetate	10.90	43	87466	18.47	ug/l	100
48) t-1,3-Dichloropropene	8.45	75	63420	18.36	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	57848	17.48	ug/l	93
50) 1,1,2-Trichloroethane	9.22	97	45139	19.56	ug/l	99
51) Ethyl methacrylate	9.19	69	63558	19.33	ug/l	96
52) 1,3-Dichloropropane	9.38	76	74131	19.88	ug/l	99
53) Dibromochloromethane	9.59	129	46066	18.09	ug/l	97
54) 1,2-Dibromoethane	9.68	107	47738	19.33	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	155128	96.33	ug/l	100
56) Bromoform	10.86	173	36709	17.61	ug/l #	98
58) 4-Methyl-2-Pentanone	8.65	43	323109	105.44	ug/l	98
59) 2-Hexanone	9.50	43	244360	102.34	ug/l	97
61) Tetrachloroethene	9.34	164	58901	20.82	ug/l	90
62) Toluene	8.79	91	194436	19.59	ug/l	100
64) Chlorobenzene	10.14	112	130108	19.43	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.23	131	46762	19.13	ug/l	97
66) Ethyl Benzene	10.26	91	212867	19.22	ug/l	99
67) m/p-Xylenes	10.37	106	166761	37.90	ug/l	100
68) o-Xylene	10.70	106	82727	19.45	ug/l	99
69) Styrene	10.72	104	133820	18.91	ug/l	99
70) Isopropylbenzene	11.02	105	223124	19.32	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	66706	19.69	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	54880m	18.10	ug/l	
73) Bromobenzene	11.26	156	64008	19.07	ug/l	94
74) n-propylbenzene	11.37	91	250560	19.21	ug/l	99
75) 2-Chlorotoluene	11.43	91	150058	19.06	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	188087	19.12	ug/l	68
77) t-1,4-Dichloro-2-butene	11.08	75	14477	16.05	ug/l	86
78) 4-Chlorotoluene	11.52	91	174481	18.58	ug/l	99
79) tert-butylbenzene	12.07	119	203826	19.36	ug/l	95
80) 1,2,4-Trimethylbenzene	11.81	105	194344	19.41	ug/l	99
81) sec-Butylbenzene	11.95	105	226072	19.79	ug/l	99
82) p-Isopropyltoluene	12.07	119	203826	19.36	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	115568	18.89	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	118057	18.92	ug/l	99
85) n-Butylbenzene	12.40	91	171930	18.88	ug/l	99
86) Hexachloroethane	12.60	117	27643	17.18	ug/l	70
87) 1,2-Dichlorobenzene	12.40	146	114385	18.80	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.01	75	14245	20.12	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	88435	19.18	ug/l	98
90) Hexachlorobutadiene	13.79	225	45874	21.43	ug/l	99
91) Naphthalene	13.84	128	245278	20.51	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	90394	19.86	ug/l	97

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

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