

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051818\
 Data File : VX001812.D
 Acq On : 18 May 2018 07:20
 Operator : JC/MD
 Sample : J2923-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 LOQ-NPW-Precision-Bias-1

Manual Integrations
 APPROVED

apatel
 5/21/2018 5:40:05 PM

Quant Time: May 18 10:06:22 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X051818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 18 10:06:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	60050	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	263942	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	212883	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	119142	30.69	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.30%
60) 4-Bromofluorobenzene	11.14	95	91150	28.80	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.00%
63) Toluene-d8	8.72	98	318890	29.64	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.80%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	7354	4.44	ug/l	90
3) Chloromethane	1.32	50	16041	5.08	ug/l	94
4) Vinyl Chloride	1.40	62	12907	4.71	ug/l	98
5) Bromomethane	1.64	94	9442	5.25	ug/l	95
6) Chloroethane	1.72	64	9845	4.83	ug/l	100
7) Trichlorofluoromethane	1.93	101	14470	4.73	ug/l	98
8) Diethyl Ether	2.19	74	10556	4.91	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.39	101	8023	4.64	ug/l	98
10) 1,1-Dichloroethene	2.37	96	10273	4.85	ug/l	97
11) Methyl Iodide	2.51	142	12405	3.70	ug/l	97
12) Methyl Acetate	2.78	43	24698	4.80	ug/l	97
13) Acrolein	2.30	56	16703	27.18	ug/l	98
14) Acrylonitrile	3.15	53	47559	24.26	ug/l	95
15) Acetone	2.45	58	13770	25.73	ug/l	90
16) Carbon Disulfide	2.57	76	24964	4.71	ug/l	99
17) Allyl chloride	2.73	41	22674	4.79	ug/l	98
18) Methylene Chloride	2.86	84	16161	4.96	ug/l	97
19) trans-1,2-Dichloroethene	3.17	96	12914	4.94	ug/l	98
20) Diisopropyl ether	3.88	45	46910	4.55	ug/l	98
21) 1,1-Dichloroethane	3.70	63	26626	5.04	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	16871	4.98	ug/l	87
23) tert-Butyl Alcohol	3.08	59	21030	25.81	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	50016	4.96	ug/l	99
25) Chloroform	5.21	83	28067	4.99	ug/l	96
26) Cyclohexane	5.58	56	12632	4.40	ug/l	# 97
29) 1,1-Dichloropropene	5.80	75	14691	4.91	ug/l	98
30) 2-Butanone	4.72	43	66527	24.64	ug/l	100
31) 2,2-Dichloropropane	4.59	77	8331	4.40	ug/l	99
32) 1,1,1-Trichloroethane	5.50	97	19078	4.81	ug/l	99
33) Carbon Tetrachloride	5.78	117	14590	4.60	ug/l	93
34) Benzene	6.15	78	58521	4.89	ug/l	98
35) Methacrylonitrile	5.07	41	14140	4.92	ug/l	92
36) 1,2-Dichloroethane	6.20	62	23438	5.01	ug/l	99
37) Trichloroethene	7.22	130	15785	4.83	ug/l	98
38) Methylcyclohexane	7.46	83	11353	4.11	ug/l	99
39) 1,2-Dichloropropane	7.52	63	15131	4.75	ug/l	99
40) Dibromomethane	7.67	93	11040	4.83	ug/l	99

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

41) Bromodichloromethane	7.90	83	18721	4.65	ug/l	98
42) Vinyl Acetate	3.83	43	203079	27.76	ug/l	99
43) Ethyl Acetate	4.87	43	25673	4.99	ug/l #	78
44) Isopropyl Acetate	6.47	43	34891	4.68	ug/l	100
45) 1,4-Dioxane	7.76	88	8571	93.93	ug/l	97
46) Methyl methacrylate	7.78	41	17864	4.55	ug/l	95
47) n-amyl Acetate	10.91	43	22264	4.31	ug/l	99
48) t-1,3-Dichloropropene	8.44	75	17897	4.23	ug/l	97
49) cis-1,3-Dichloropropene	9.05	75	15326	4.14	ug/l	93
50) 1,1,2-Trichloroethane	9.22	97	14975	4.77	ug/l	98
51) Ethyl methacrylate	9.19	69	18654	4.37	ug/l	97
52) 1,3-Dichloropropane	9.38	76	24547	4.93	ug/l	98
53) Dibromochloromethane	9.59	129	13438	4.41	ug/l	97
54) 1,2-Dibromoethane	9.68	107	15151	4.76	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	56572	22.71	ug/l	99
56) Bromoform	10.86	173	10703	4.29	ug/l #	38
58) 4-Methyl-2-Pentanone	8.66	43	120524	22.65	ug/l	100
59) 2-Hexanone	9.51	43	79099	22.66	ug/l	97
61) Tetrachloroethene	9.34	164	14912	4.76	ug/l	96
62) Toluene	8.79	91	58051	4.72	ug/l	99
64) Chlorobenzene	10.15	112	34837	4.84	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.23	131	12802	4.41	ug/l	95
66) Ethyl Benzene	10.26	91	47656	4.66	ug/l	97
67) m/p-Xylenes	10.37	106	36238	8.87	ug/l	97
68) o-Xylene	10.70	106	19526	4.64	ug/l	100
69) Styrene	10.72	104	30766	4.39	ug/l	99
70) Isopropylbenzene	11.02	105	43633	4.42	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	21568	4.81	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	22528	5.28	ug/l	93
73) Bromobenzene	11.26	156	16623	4.75	ug/l	99
74) n-propylbenzene	11.37	91	44265	4.31	ug/l	99
75) 2-Chlorotoluene	11.43	91	33381	4.72	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	35518	4.33	ug/l	98
77) t-1,4-Dichloro-2-butene	11.08	75	3391	3.73	ug/l	86
78) 4-Chlorotoluene	11.52	91	35404	4.54	ug/l	98
79) tert-butylbenzene	12.07	119	32816	4.05	ug/l	98
80) 1,2,4-Trimethylbenzene	11.81	105	36718	4.33	ug/l	99
81) sec-Butylbenzene	11.95	105	36905	4.15	ug/l	99
82) p-Isopropyltoluene	12.07	119	32816	4.05	ug/l	98
83) 1,3-Dichlorobenzene	12.03	146	25851	4.74	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	26084	4.82	ug/l	100
85) n-Butylbenzene	12.39	91	22196	3.78	ug/l	99
86) Hexachloroethane	12.60	117	5944	4.41	ug/l	99
87) 1,2-Dichlorobenzene	12.40	146	28326	4.79	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	4246	4.47	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	15754	4.23	ug/l	92
90) Hexachlorobutadiene	13.79	225	7648	4.19	ug/l	98
91) Naphthalene	13.84	128	54048	4.16	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	18982	4.53	ug/l	97

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

