

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051818\
 Data File : VX001805.D
 Acq On : 18 May 2018 03:47
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 5/21/2018 2:40:32 PM

Quant Time: May 18 06:56:28 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X051818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 18 06:08:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	60623	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	247430	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	198847	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	115364	26.80	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	89.33%
60) 4-Bromofluorobenzene	11.14	95	85152	27.44	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.47%
63) Toluene-d8	8.72	98	303391	33.36	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	111.20%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	7911	3.04	ug/l	97
3) Chloromethane	1.32	50	15696	4.96	ug/l	97
4) Vinyl Chloride	1.40	62	12780	4.00	ug/l	99
5) Bromomethane	1.64	94	8583	5.32	ug/l	95
6) Chloroethane	1.72	64	10173	4.69	ug/l	97
7) Trichlorofluoromethane	1.93	101	14660	3.32	ug/l	100
8) Diethyl Ether	2.19	74	10337	4.95	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.38	101	8827	3.61	ug/l	96
10) 1,1-Dichloroethene	2.37	96	10222	3.92	ug/l	92
11) Methyl Iodide	2.51	142	12267	3.15	ug/l	94
12) Methyl Acetate	2.78	43	22641	4.75	ug/l	99
13) Acrolein	2.29	56	16436	29.79	ug/l	98
14) Acrylonitrile	3.15	53	46469	24.68	ug/l	99
15) Acetone	2.45	58	12522	24.66	ug/l	95
16) Carbon Disulfide	2.57	76	24133	3.71	ug/l	99
17) Allyl chloride	2.73	41	22839	4.46	ug/l	96
18) Methylene Chloride	2.86	84	16374	5.06	ug/l	97
19) trans-1,2-Dichloroethene	3.17	96	12441	4.29	ug/l	98
20) Diisopropyl ether	3.87	45	48264	4.87	ug/l	92
21) 1,1-Dichloroethane	3.70	63	25607	4.62	ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	15688	4.66	ug/l	94
23) tert-Butyl Alcohol	3.08	59	19144	23.15	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	48494	4.86	ug/l	100
25) Chloroform	5.22	83	26868	4.66	ug/l	100
26) Cyclohexane	5.58	56	12639	3.28	ug/l	# 99
29) 1,1-Dichloropropene	5.80	75	13268	4.44	ug/l	97
30) 2-Butanone	4.71	43	59734	28.23	ug/l	99
31) 2,2-Dichloropropane	4.59	77	9338	3.83	ug/l	# 53
32) 1,1,1-Trichloroethane	5.49	97	18495	4.84	ug/l	98
33) Carbon Tetrachloride	5.78	117	14252	4.30	ug/l	91
34) Benzene	6.15	78	54411	5.43	ug/l	96
35) Methacrylonitrile	5.07	41	12949	5.67	ug/l	94
36) 1,2-Dichloroethane	6.20	62	22698	5.73	ug/l	97
37) Trichloroethene	7.22	130	15047	5.21	ug/l	97
38) Methylcyclohexane	7.46	83	12075	3.87	ug/l	98
39) 1,2-Dichloropropane	7.52	63	14964	5.88	ug/l	95
40) Dibromomethane	7.67	93	10583	5.80	ug/l	99

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 ALS Vial : 26 Sample Multiplier: 1

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	17500	5.16	ug/l	99
42) Vinyl Acetate	3.82	43	195959	29.55	ug/l	99
43) Ethyl Acetate	4.87	43	23821	5.91	ug/l #	76
44) Isopropyl Acetate	6.48	43	32394	5.28	ug/l	98
45) 1,4-Dioxane	7.76	88	8160	113.31	ug/l	96
46) Methyl methacrylate	7.78	41	16363	4.97	ug/l	96
47) n-amyl Acetate	10.90	43	20294	4.04	ug/l	100
48) t-1,3-Dichloropropene	8.44	75	17384	4.68	ug/l	96
49) cis-1,3-Dichloropropene	9.05	75	14456	4.40	ug/l	97
50) 1,1,2-Trichloroethane	9.22	97	16116	6.08	ug/l	97
51) Ethyl methacrylate	9.19	69	19091	5.01	ug/l	97
52) 1,3-Dichloropropane	9.37	76	23583	5.43	ug/l	98
53) Dibromochloromethane	9.59	129	13156	4.81	ug/l	98
54) 1,2-Dibromoethane	9.68	107	14834	5.35	ug/l	97
55) 2-Chloroethyl vinyl ether	8.32	63	52149	25.18	ug/l	99
56) Bromoform	10.86	173	10230	4.54	ug/l #	95
58) 4-Methyl-2-Pentanone	8.66	43	111791	29.31	ug/l	99
59) 2-Hexanone	9.51	43	72942	26.41	ug/l	97
61) Tetrachloroethene	9.34	164	14220	5.02	ug/l	98
62) Toluene	8.79	91	55471	5.70	ug/l	99
64) Chlorobenzene	10.15	112	32979	5.29	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	12397	5.15	ug/l	99
66) Ethyl Benzene	10.26	91	43598	4.51	ug/l	97
67) m/p-Xylenes	10.37	106	34434	8.93	ug/l	99
68) o-Xylene	10.70	106	17816	4.63	ug/l	97
69) Styrene	10.72	104	27837	4.35	ug/l	100
70) Isopropylbenzene	11.02	105	41359	4.26	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	21213	6.09	ug/l	98
72) 1,2,3-Trichloropropane	11.30	75	19208m	5.69	ug/l	
73) Bromobenzene	11.26	156	15604	5.13	ug/l	98
74) n-propylbenzene	11.37	91	41558	3.92	ug/l	99
75) 2-Chlorotoluene	11.43	91	30246	4.48	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	33808	4.14	ug/l	98
77) t-1,4-Dichloro-2-butene	11.08	75	3200	3.80	ug/l	88
78) 4-Chlorotoluene	11.52	91	32456	4.24	ug/l	98
79) tert-butylbenzene	12.07	119	31684	3.72	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	33475	4.00	ug/l	99
81) sec-Butylbenzene	11.95	105	36345	3.89	ug/l	100
82) p-Isopropyltoluene	12.07	119	31684	3.72	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	23857	4.60	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	23295	4.47	ug/l	98
85) n-Butylbenzene	12.39	91	22354	3.33	ug/l	99
86) Hexachloroethane	12.60	117	5564	4.05	ug/l	95
87) 1,2-Dichlorobenzene	12.40	146	25997	4.79	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	3828	4.78	ug/l	96
89) 1,2,4-Trichlorobenzene	13.65	180	14647	3.86	ug/l	96
90) Hexachlorobutadiene	13.79	225	8166	4.27	ug/l	99
91) Naphthalene	13.84	128	45938	3.91	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	16871	4.15	ug/l	97

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

