

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022018\
 Data File : VX000110.D
 Acq On : 20 Feb 2018 16:04
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDIC005

Manual Integrations
 APPROVED

apatel
 2/22/2018 4:04:34 PM

Quant Time: Feb 21 06:13:53 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X022018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 21 05:38:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	15787	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	93914	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	89579	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	37508	30.96	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.20%
60) 4-Bromofluorobenzene	11.15	95	43177	29.62	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.73%
63) Toluene-d8	8.73	98	115871	30.15	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.50%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	5254	5.49	ug/l	99
3) Chloromethane	1.32	50	5493	5.53	ug/l	99
4) Vinyl Chloride	1.40	62	6446	5.53	ug/l	93
5) Bromomethane	1.64	94	6721	6.39	ug/l	92
6) Chloroethane	1.73	64	4243	5.78	ug/l	93
7) Trichlorofluoromethane	1.93	101	11259	5.65	ug/l	86
8) Diethyl Ether	2.19	74	3773	5.18	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	2.39	101	5677	5.15	ug/l	94
10) 1,1-Dichloroethene	2.37	96	5571	5.27	ug/l	94
11) Methyl Iodide	2.51	142	4983	5.86	ug/l	97
12) Methyl Acetate	2.79	43	10041	5.33	ug/l	93
13) Acrolein	2.30	56	6524	30.31	ug/l	95
14) Acrylonitrile	3.15	53	21874	26.71	ug/l	100
15) Acetone	2.45	58	7107	25.46	ug/l	89
16) Carbon Disulfide	2.57	76	16837	5.66	ug/l #	94
17) Allyl chloride	2.73	41	9995	5.62	ug/l	97
18) Methylene Chloride	2.86	84	6346	5.63	ug/l	97
19) trans-1,2-Dichloroethene	3.17	96	6194	5.45	ug/l	89
20) Diisopropyl ether	3.89	45	15895	5.85	ug/l #	93
21) 1,1-Dichloroethane	3.71	63	10099	5.23	ug/l	95
22) cis-1,2-Dichloroethene	4.61	96	5835	5.52	ug/l	95
23) tert-Butyl Alcohol	3.09	59	13014	27.32	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	19033	5.26	ug/l	98
25) Chloroform	5.23	83	9499	5.19	ug/l	90
26) Cyclohexane	5.58	56	7831	5.44	ug/l #	99
29) 1,1-Dichloropropene	5.81	75	7330	5.41	ug/l	87
30) 2-Butanone	4.73	43	28904	26.73	ug/l #	95
31) 2,2-Dichloropropane	4.60	77	7861	5.38	ug/l #	72
32) 1,1,1-Trichloroethane	5.51	97	8609	5.23	ug/l	97
33) Carbon Tetrachloride	5.79	117	7311	5.03	ug/l	97
34) Benzene	6.15	78	20391	5.15	ug/l #	89
35) Methacrylonitrile	5.09	41	5542	5.75	ug/l	93
36) 1,2-Dichloroethane	6.21	62	8046	5.39	ug/l #	87
37) Trichloroethene	7.22	130	6292	5.35	ug/l	96
38) Methylcyclohexane	7.47	83	8682	5.44	ug/l	96
39) 1,2-Dichloropropane	7.52	63	5364	5.37	ug/l	99
40) Dibromomethane	7.67	93	3900	5.19	ug/l	98

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

41) Bromodichloromethane	7.91	83	7428	5.13	ug/l #	99
42) Vinyl Acetate	3.84	43	79145	30.44	ug/l	98
43) Ethyl Acetate	4.88	43	10169	5.38	ug/l #	74
44) Isopropyl Acetate	6.49	43	14283	5.29	ug/l	98
45) 1,4-Dioxane	7.77	88	3698	110.64	ug/l	97
46) Methyl methacrylate	7.79	41	6756	5.13	ug/l	91
47) n-amyl Acetate	10.91	43	11649	5.02	ug/l	99
48) t-1,3-Dichloropropene	8.45	75	8565	5.03	ug/l	98
49) cis-1,3-Dichloropropene	9.05	75	8123	4.94	ug/l	97
50) 1,1,2-Trichloroethane	9.23	97	5725	5.28	ug/l #	91
51) Ethyl methacrylate	9.20	69	8785	5.32	ug/l	96
52) 1,3-Dichloropropane	9.38	76	9317	5.17	ug/l	99
53) Dibromochloromethane	9.59	129	5811	4.73	ug/l	96
54) 1,2-Dibromoethane	9.68	107	6262	5.07	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	19381	23.02	ug/l	98
56) Bromoform	10.87	173	4362	4.47	ug/l	97
58) 4-Methyl-2-Pentanone	8.66	43	51116	25.33	ug/l	100
59) 2-Hexanone	9.51	43	42794	24.90	ug/l	98
61) Tetrachloroethene	9.34	164	5608	5.15	ug/l	87
62) Toluene	8.79	91	23824	5.06	ug/l	98
64) Chlorobenzene	10.15	112	16578	5.28	ug/l	89
65) 1,1,1,2-Tetrachloroethane	10.23	131	5321	4.75	ug/l	98
66) Ethyl Benzene	10.26	91	27488	5.08	ug/l	99
67) m/p-Xylenes	10.37	106	21363	10.30	ug/l	97
68) o-Xylene	10.71	106	10181	4.97	ug/l	97
69) Styrene	10.72	104	16625	4.91	ug/l	99
70) Isopropylbenzene	11.02	105	28083	5.08	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.27	83	9299	4.88	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	8628m	4.93	ug/l	
73) Bromobenzene	11.26	156	7000	4.90	ug/l	96
74) n-propylbenzene	11.37	91	33477	5.17	ug/l	99
75) 2-Chlorotoluene	11.43	91	18759	4.96	ug/l	99
76) 1,3,5-Trimethylbenzene	11.52	105	23663	5.07	ug/l	71
77) t-1,4-Dichloro-2-butene	11.09	75	2633	4.31	ug/l	86
78) 4-Chlorotoluene	11.52	91	22505	5.05	ug/l	98
79) tert-butylbenzene	11.78	119	23398m	4.99	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	23804	4.92	ug/l	100
81) sec-Butylbenzene	11.96	105	28890	4.97	ug/l	99
82) p-Isopropyltoluene	12.07	119	25243	4.86	ug/l	96
83) 1,3-Dichlorobenzene	12.04	146	13525	4.92	ug/l	98
84) 1,4-Dichlorobenzene	12.11	146	14619	5.17	ug/l	100
85) n-Butylbenzene	12.40	91	24455	5.04	ug/l	98
86) Hexachloroethane	12.60	117	4041	4.75	ug/l	97
87) 1,2-Dichlorobenzene	12.40	146	13442	4.88	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	2652	5.00	ug/l	94
89) 1,2,4-Trichlorobenzene	13.65	180	9907	5.02	ug/l	98
90) Hexachlorobutadiene	13.79	225	4390	5.34	ug/l	95
91) Naphthalene	13.84	128	34202	4.83	ug/l	99
92) 1,2,3-Trichlorobenzene	14.03	180	9978	4.97	ug/l	99

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

