

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022018\
 Data File : VX000108.D
 Acq On : 20 Feb 2018 14:43
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

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 2/22/2018 4:04:31 PM

Quant Time: Feb 21 06:08:44 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	5.04	128	18825	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	115299	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	111452	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.09	65	42013	29.09	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.97%
60) 4-Bromofluorobenzene	11.15	95	55304	30.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.63%
63) Toluene-d8	8.73	98	142097	29.72	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.07%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	103754	90.88	ug/l	99
3) Chloromethane	1.32	50	98712	83.33	ug/l	97
4) Vinyl Chloride	1.40	62	119521	85.94	ug/l	99
5) Bromomethane	1.64	94	102990	82.16	ug/l	98
6) Chloroethane	1.71	64	76488	87.37	ug/l	98
7) Trichlorofluoromethane	1.92	101	209615	88.21	ug/l	98
8) Diethyl Ether	2.20	74	76431	87.94	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.38	101	116995	89.02	ug/l	100
10) 1,1-Dichloroethene	2.37	96	111946	88.74	ug/l	99
11) Methyl Iodide	2.51	142	145641	143.70	ug/l	96
12) Methyl Acetate	2.79	43	195814	87.10	ug/l	97
13) Acrolein	2.30	56	130674	509.17	ug/l	99
14) Acrylonitrile	3.16	53	425239	435.48	ug/l	98
15) Acetone	2.46	58	131485	395.00	ug/l	94
16) Carbon Disulfide	2.57	76	319897	90.14	ug/l	98
17) Allyl chloride	2.73	41	188216	88.81	ug/l	96
18) Methylene Chloride	2.86	84	120089	89.31	ug/l	96
19) trans-1,2-Dichloroethene	3.17	96	123235	90.97	ug/l	96
20) Diisopropyl ether	3.88	45	326922	100.99	ug/l	98
21) 1,1-Dichloroethane	3.70	63	197564	85.79	ug/l	98
22) cis-1,2-Dichloroethene	4.61	96	116442	92.46	ug/l	98
23) tert-Butyl Alcohol	3.10	59	227388	400.34	ug/l	100
24) Methyl tert-Butyl Ether	3.22	73	396723	92.02	ug/l	100
25) Chloroform	5.23	83	210199	96.39	ug/l	99
26) Cyclohexane	5.59	56	159082	92.62	ug/l #	97
29) 1,1-Dichloropropene	5.81	75	153782	92.53	ug/l	99
30) 2-Butanone	4.73	43	552347	415.99	ug/l	100
31) 2,2-Dichloropropane	4.59	77	164699	91.89	ug/l	99
32) 1,1,1-Trichloroethane	5.51	97	194909	96.42	ug/l	98
33) Carbon Tetrachloride	5.79	117	176903	99.08	ug/l	95
34) Benzene	6.15	78	451539	92.97	ug/l	94
35) Methacrylonitrile	5.08	41	104565	88.34	ug/l	87
36) 1,2-Dichloroethane	6.21	62	167090	91.16	ug/l	99
37) Trichloroethene	7.23	130	133530	92.50	ug/l	99
38) Methylcyclohexane	7.47	83	187186	95.62	ug/l	97
39) 1,2-Dichloropropane	7.53	63	110259	89.85	ug/l	99
40) Dibromomethane	7.67	93	89542	97.09	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	170107	95.61	ug/l	98
42) Vinyl Acetate	3.84	43	1528705	478.85	ug/l	99
43) Ethyl Acetate	4.88	43	202456	87.25	ug/l	100
44) Isopropyl Acetate	6.49	43	311760	94.07	ug/l	100
45) 1,4-Dioxane	7.77	88	77641	1892.12	ug/l	96
46) Methyl methacrylate	7.79	41	151690	93.76	ug/l	99
47) n-amyl Acetate	10.91	43	296496	104.12	ug/l	97
48) t-1,3-Dichloropropene	8.45	75	199623	95.57	ug/l	98
49) cis-1,3-Dichloropropene	9.05	75	199711	98.97	ug/l	97
50) 1,1,2-Trichloroethane	9.23	97	132470	99.56	ug/l	99
51) Ethyl methacrylate	9.19	69	206693	101.96	ug/l	98
52) 1,3-Dichloropropane	9.38	76	207095	93.63	ug/l	99
53) Dibromochloromethane	9.59	129	158996	105.45	ug/l	98
54) 1,2-Dibromoethane	9.68	107	149432	98.56	ug/l	99
55) 2-Chloroethyl vinyl ether	8.33	63	464501	449.39	ug/l	99
56) Bromoform	10.87	173	139988	116.90	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	1135674	452.28	ug/l	97
59) 2-Hexanone	9.51	43	952996	445.68	ug/l	98
61) Tetrachloroethene	9.35	164	131028	96.68	ug/l	95
62) Toluene	8.79	91	547490	93.46	ug/l	99
64) Chlorobenzene	10.15	112	372067	95.24	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	138117	99.16	ug/l	97
66) Ethyl Benzene	10.26	91	618475	91.92	ug/l	100
67) m/p-Xylenes	10.37	106	500654	193.98	ug/l	97
68) o-Xylene	10.71	106	243377	95.53	ug/l	96
69) Styrene	10.72	104	415404	98.69	ug/l	99
70) Isopropylbenzene	11.03	105	648303	94.27	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.28	83	233005	98.23	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	195360m	89.65	ug/l	
73) Bromobenzene	11.27	156	179120	100.79	ug/l	96
74) n-propylbenzene	11.37	91	753917	93.58	ug/l	98
75) 2-Chlorotoluene	11.43	91	434998	92.41	ug/l	98
76) 1,3,5-Trimethylbenzene	11.52	105	555397	95.58	ug/l	68
77) t-1,4-Dichloro-2-butene	11.08	75	82226	108.12	ug/l	94
78) 4-Chlorotoluene	11.52	91	524472	94.51	ug/l	98
79) tert-butylbenzene	11.78	119	554118m	94.90	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	570982	94.87	ug/l	100
81) sec-Butylbenzene	11.96	105	676106	93.56	ug/l	99
82) p-Isopropyltoluene	12.07	119	616483	95.43	ug/l	100
83) 1,3-Dichlorobenzene	12.04	146	339938	99.45	ug/l	98
84) 1,4-Dichlorobenzene	12.11	146	347108	98.63	ug/l	99
85) n-Butylbenzene	12.40	91	571488	94.62	ug/l	99
86) Hexachloroethane	12.60	117	108853	102.88	ug/l	94
87) 1,2-Dichlorobenzene	12.40	146	337346	98.36	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	62294	94.41	ug/l	92
89) 1,2,4-Trichlorobenzene	13.66	180	251171	102.28	ug/l	99
90) Hexachlorobutadiene	13.79	225	108179	105.77	ug/l	98
91) Naphthalene	13.85	128	857362	97.38	ug/l	100
92) 1,2,3-Trichlorobenzene	14.03	180	247820	99.11	ug/l	98

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

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