Boxplot of ARL₁ for Various Models on Streaming Data with z and alpha: z:1.6449 alpha:1, Mean Gap Size of 10, Data Variance of 9 (Outliers in in-control Period) 14 12 $ARL_1^{}$ CTM (Z:1.6449, 2:1, (0.15, 10))
CTM (Z:1.6449, 2:1, 30) CTM (Z:1.6449, a:1,(0.1,20)) CTM (2:1.64A9, a:1, (0.15, 20)) TM (Z:1,6449,8:1,10.1,10)) WM (Z:1,6449,8:1,(0.1,10)) CTM (2:1.6449, a:1, (0.1, 10)) SWM (2.1.6449, a.1, 15) TM (Z:1,6449,3:1,10.1,15)) WM (Z:1.6449, a:1, (0.1, 15)) CTM (Z:1.6449, a:1, (0.1, 15)) SWM (2.1.6449, a.1,20) TM (Z:1,6449,3:1,10.1,201) WM (2:1.6449, a:1, (0:1, 20)) TM (Z:1.6449, a:1, (0.15, 10)) WM (Z:1,6449,3:1,(0.15,10)) WM (Z:1,6449,8:1,(0.15, 15)) CTM (Z:1.6449, a:1, (0.15, 15)) TM (Z:1.6449, a:1, (0.15, 20)) WM (2:1,6449,3:1,10.15,20)) TM (Z.1.6449, 3:1, (0.2, 10)) WM (Z:1.6449, 2:1, (0.2, 10)) CTM (2:1.6449, 3:1, (0.2, 10)) CTM (Z:1 6449, 3:1, (0.2, 15)) TM (2:1,6449,3:1,102,201) TM (Z:1,6449,3:1,10.2,151)

Model (Parameters)