Boxplot of ARL<sub>0</sub> for Various Models on Streaming Data with z and alpha: z:1.96 alpha:1, Mean Gap Size of 5, Data Variance of 9 (Outliers in in-control Period) 500  $ARL_0$ CTM (z.1.96, a.1, (0.1, 15)) SWM (z.1.96, a.1, 20) CTM (z:1.96, a:1, (0.1, 201) (z:1.96, a:1, 25) CTM (5:1.96.8:1,10.1,10)) 8:1,15) CTM (Z:1.96, a:1, (0.15, 10)) (Z:1.30) MW (5:1:06:3:1,(0.1,20)) TM (Z:1.96,2:1,(0.2,10)) WM (z:1:96,a:1,(0.1,10)) WW (x:1.98,a:1,(0.1, 15)) TM (Z:1,96,3:1,(0.1,20)) TM (2:1.96, a:1, (0.15, 20)) WM (Z:1.96,8:1,(0.15,20)) CTM (Z:1.96, 3:1, (0.15, 20)) WM (z:1.96, a:1, (0.2, 10)) CTM (Z:1.96.3:1, (0.2, 10)) Model (Parameters)