Boxplot of ARL<sub>1</sub> for Various Models on Streaming Data with z and alpha: z:1.96 alpha:1.5, Mean Gap Size of 5, Data Variance of 4 (Outliers in in-control Period) 12 ARL<sub>1</sub> CTM (Z:1.96, a:1.5, (0.15, 10)) (2:1.96, a:1.5, 30) CTM (Z:1.96, 2:1.5, (0:1, 10)) CTM (Z:1.96, 2:1, 5, (0.1, 15)) SWM (2.1.96.3.1.5.20) CTM (2:1.96, 2:1.5, (0.1, 20)) CTM (Z:1,96,a:1.5,(0.15,20)) CTM (2:1.96, 2:1.5, (0.2, 15)) SWM (Z.1.96, a.1.5, 15) WM (Z:1.96,8:1.5,(0.1., 15)) WM (Z:1.96,2:1.5,(0.1,20)) SWM (2.1.96,a.1.5,25) WM (Z:1.96,2:1.5,(0.15, 10)) WM (Z:1.96,8:1.5,(0.15, 15)) WM (2:1.96, a:1.5, (0.15, 20)) TM (Z.1.96, a.1.5, (0.2, 10)) WM (Z:1.96,a:1.5,(0.2, 10)) TM (Z:1.96,2:1.5,10.2,20)) WM (2:1.96,8:1.5,(0.1.10)) TM (Z:1.96,a:1.5,(0.1, 15)) TM (Z:1.96,a:1.5,(0.1,20)) TM (Z:1,96,8:1,5,(0.15,10)) TM (Z:1.96,8:1.5,(0.15, 15)) CTM (Z:1.96,a:1.5,(0.15, 15)) TM (Z:1,96,8:1,5,10,15,20)) CTM (2:1.96,3:1.5,10.2,10)) TM (Z:1.96,a:1.5,10.2,151) Model (Parameters)