Boxplot of ARL₁ for Various Models on Streaming Data with z and alpha: z:2.5759 alpha:2.5, Mean Gap Size of 10 (Outliers in in-control Period) CTM (Z:2:5759, 3:2:5,10.1,201) WM (2:2.5759, a:2.5, (0.1, 10)) CTM (Z:2:5759, 2:2:5, (0.1, 10)) CTM (Z:2:5759, a:2:5,10.1, 15)) WM (2:2.5759, a:2.5, (0.1, 20)) TM (Z:2.5759, 3:2.5, (0.15, 10)) SWM (2:2.5/159,a:2.5,15) TM (Z:2.5759, a:2.5, (0.1, 15)) WM (2:2.5759, a:2.5, (0.1, 15)) SWM (2:2.5759, a:2.5,20) TM (2:2.5759, a:2.5, (0.1, 20))

20.0

17.5

15.0

12.5

10.0

2.5

 ARL_1

CTM (z:2.5759, a:2.5, (0.75, 10))
SWM (z:2.5759, a:2.5, 30) WM (2:2.5759, a:2.5, (0.15, 10)) TM (Z:2.5759, a:2.5, (0.15, 20)) WM (2:2.5759,a:2.5,10.15,20)) CTM (2:2:5759, 2:2:5, (0.15, 20)) CTM (Z:2.5759, 2:2.5, (0.2, 10)) WM (2:25759, a:2.5, (0.2, 15)) CTM (Z:2:5759, 3:2:5, 10.2, 15)) TM (Z:2.5759, a:2.5, (0.15, 15)) CTM (2:2.5/59, a:2.5, (0.15, 15)) TM (Z:2.5759, 3:2.5, (0.2, 10)) WM (2:25759, a:2.5, (0.2, 10)) TM (Z:2.5759, 2:2.5, (0.2, 15)) TM (Z:2.5759, 2:2.5, (0.2, 20)) Model (Parameters)