Boxplot of ARL1 for Various Models on Streaming Data with z and alpha: z:1.6449 alpha:1.5, Mean Gap Size of 5, Data Variance of 1 (Outliers in both\_in\_and\_out Period)  $ARL_1$ CTM (Z:1.6449, a:1.5, (0.15, 10))

CTM (Z:1.6449, a:1.5, (0.15, 10))

MC CTM (Z:1,6449, 2:1,5,10.1,15)) WM (2:1,6449,3:1,5,10.1,20)) CTM (Z:1,6449, 2:1,5,10.1,201) WM (Z:1.6449,2:1.5,10.15,20)) CTM (Z:1,6449, a:1.5, (0.1, 10)) WM (Z:1.6449, 8:1.5, (0.1., 15)) TM (Z:1,6449, a:1,5, (0.15, 10)) WM (Z:1.6449, a:1.5, (0.15, 10)) TM (Z:1.6449, 2:1.5, (0.15, 20)) CTM (Z:1.6449, a:1.5, (0.15, 20)) WM (2:1,6449,3:1,5,10.2,10)) CTM (Z:1,6449, a:1.5, (0.2, 10)) TM (Z:1,6449,a:1.5,(0.1,15)) SWM (2.1.6449, 2.1.5,20) TM (Z:1,6449,2:1.5,10.1,20)) CTM (Z:1.6449, a:1.5, (0.15, 15)) TM (Z:1,6449,a:1.5,10.2,15)) Model (Parameters)