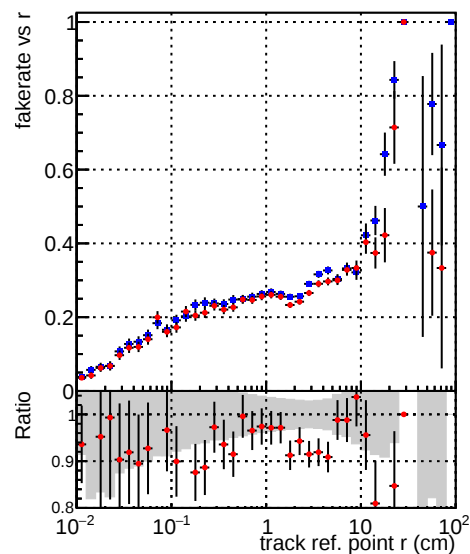
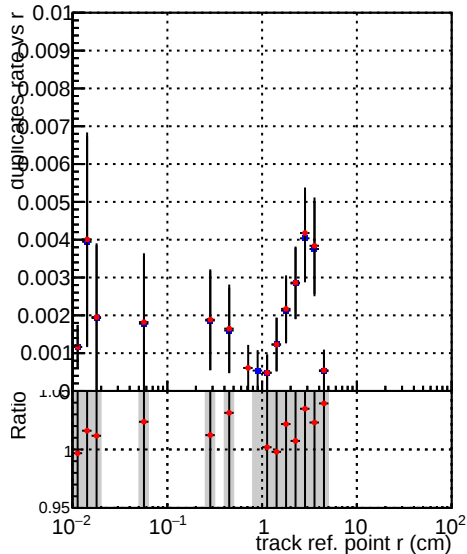


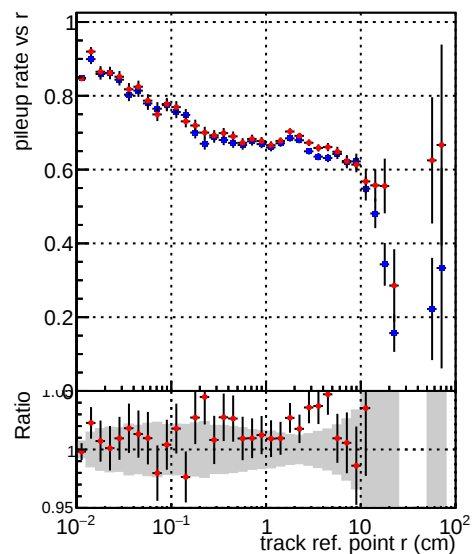
Fake rate vs vertpos



Duplicates Rate vs vertpos



Pileup rate vs vertpos



Fake rate vs v

 DQM_CKF_QCDHighPt_base
 DQM_CKF_QCDHighPt_retrain

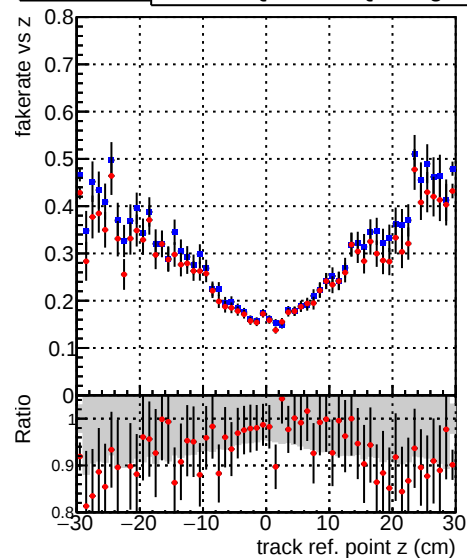
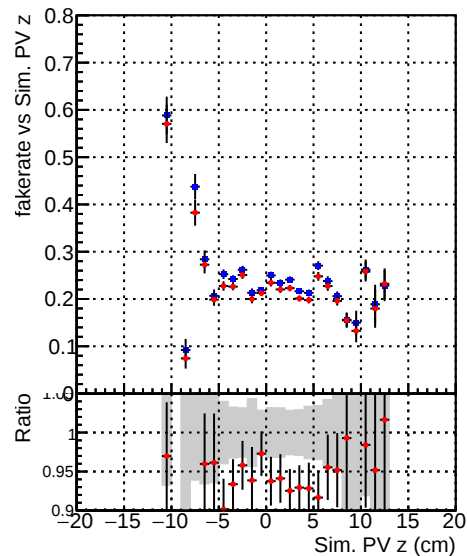
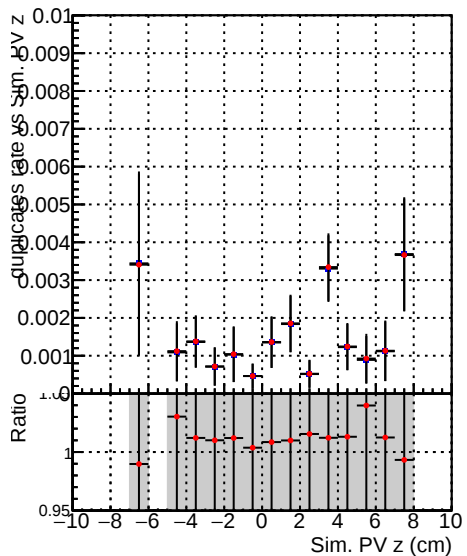


Figure 1 consists of two vertically stacked panels sharing a common x-axis labeled 'track ref. point z (cm)' ranging from -30 to 30. The top panel, titled 'pileup rate vs z', shows the pileup rate on the y-axis (0 to 1) for two data sets: 2012 (blue circles) and 2011 (red diamonds). Both data sets show a similar trend, with the rate peaking at approximately 0.75 around z = 0 and decreasing to about 0.5 at the edges of the plot. The bottom panel, titled 'Ratio', shows the ratio of the 2012 pileup rate to the 2011 pileup rate on the y-axis (0.95 to 1.1). The ratio is mostly consistent with 1.0, with a slight dip around z = 0. A grey shaded region at the bottom of the plot indicates the 10% uncertainty band for the ratio.

Fake rate vs. sim PV z



Duplicates Rate vs sim PV z



Pileup rate vs. sim PV z

