

A PCA plot showing the distribution of data points in a 2D space defined by PC1 (56.96% variance) on the x-axis and PC2 (22.14% variance) on the y-axis. The plot includes a legend in the top-left corner identifying three data series: Training Set (blue dots), Test Set (Class 8) (green dots), and Test Set (Other Classes) (red dots). The Training Set points are densely clustered in the upper-right quadrant, centered around PC1 = 0.0 and PC2 = 0.0. The Test Set (Class 8) points are scattered throughout the plot, with a notable concentration in the upper-right quadrant. The Test Set (Other Classes) points are more widely distributed, with a significant cluster in the lower-left quadrant, centered around PC1 = -0.3 and PC2 = -0.15, and several points scattered in the upper-left and lower-right quadrants.

