Procedure to run files:

Step 1: Run "load_data_mat.m"

This will load the Received Signal and Transmitted Signal Data.

Step 2: Run "equalize_data.m"

This will process the data and give output Equalized data in "op" variable.

Step 3: Run "plot_data.m"

This will plot the various variables according to your requirements.

Results:

As you can see from the images below,

Initial Opening of Eye= 0.1V

Final Opening of Eye = 1.4V

Difference= 1.3V

Percentage Change = 1300%

Equalized SIgnal Eye