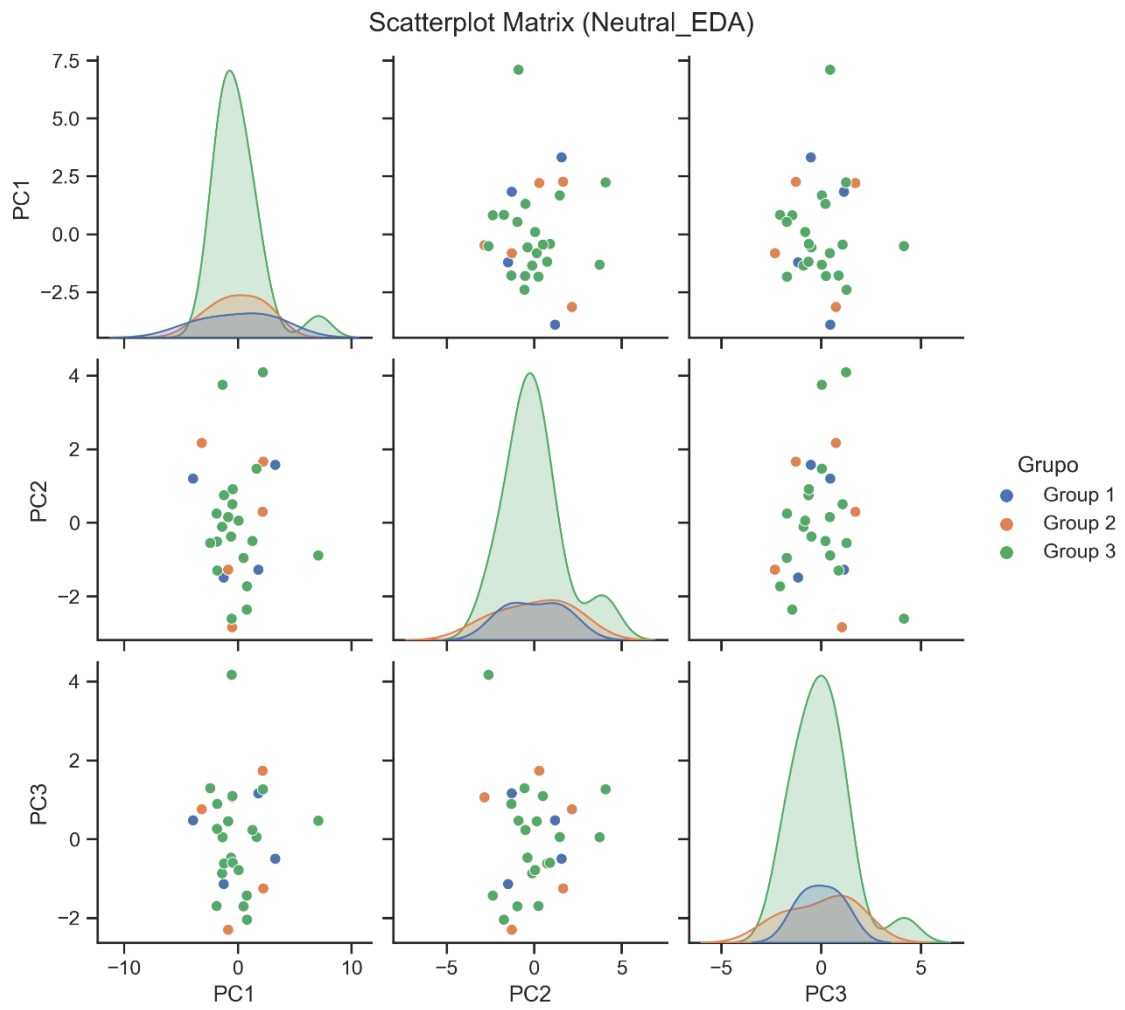**Figure N1:** Scatterplot matrix considering the first three principal components obtained based on the principal components analysis over the features selected based on methodology A and with the consideration of ECG signal on the neutral stimuli.
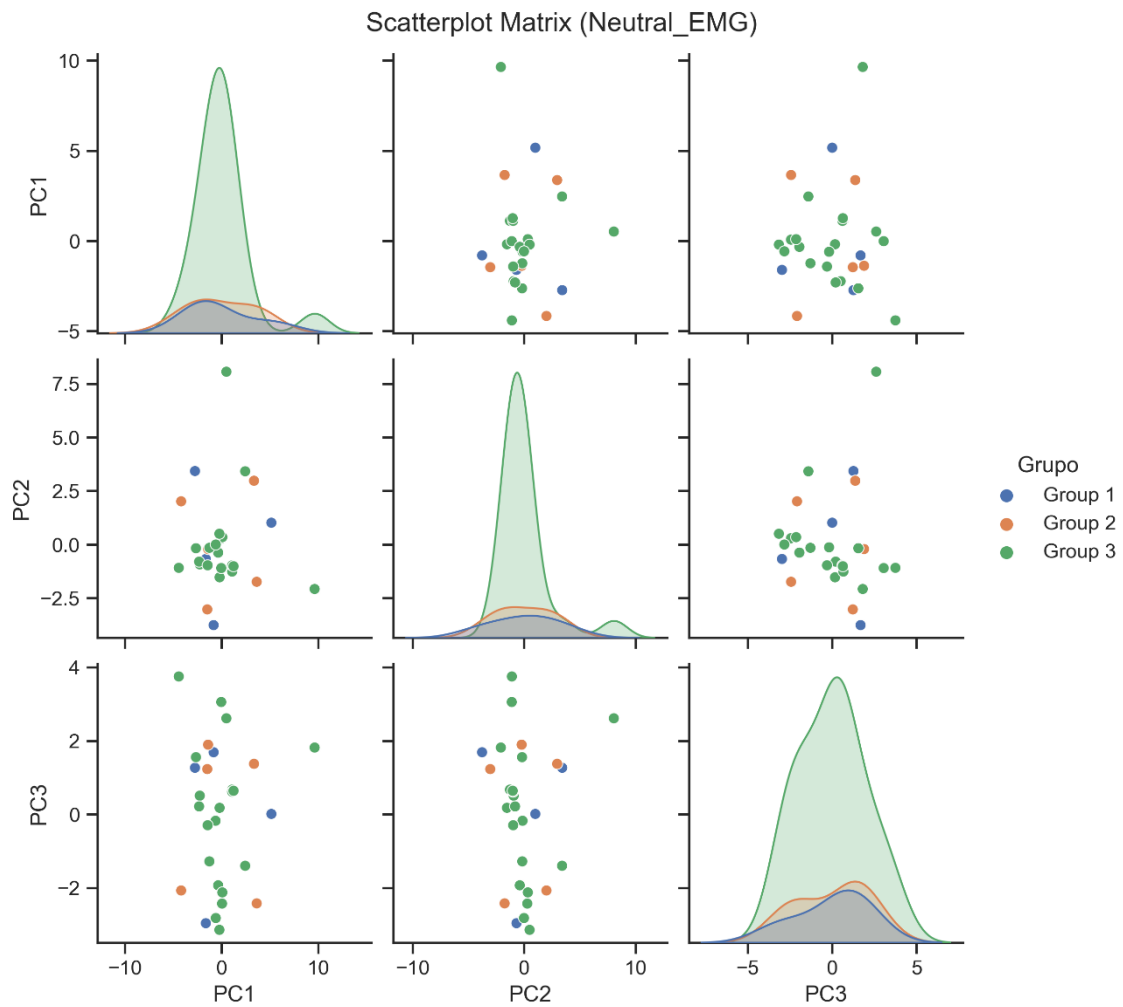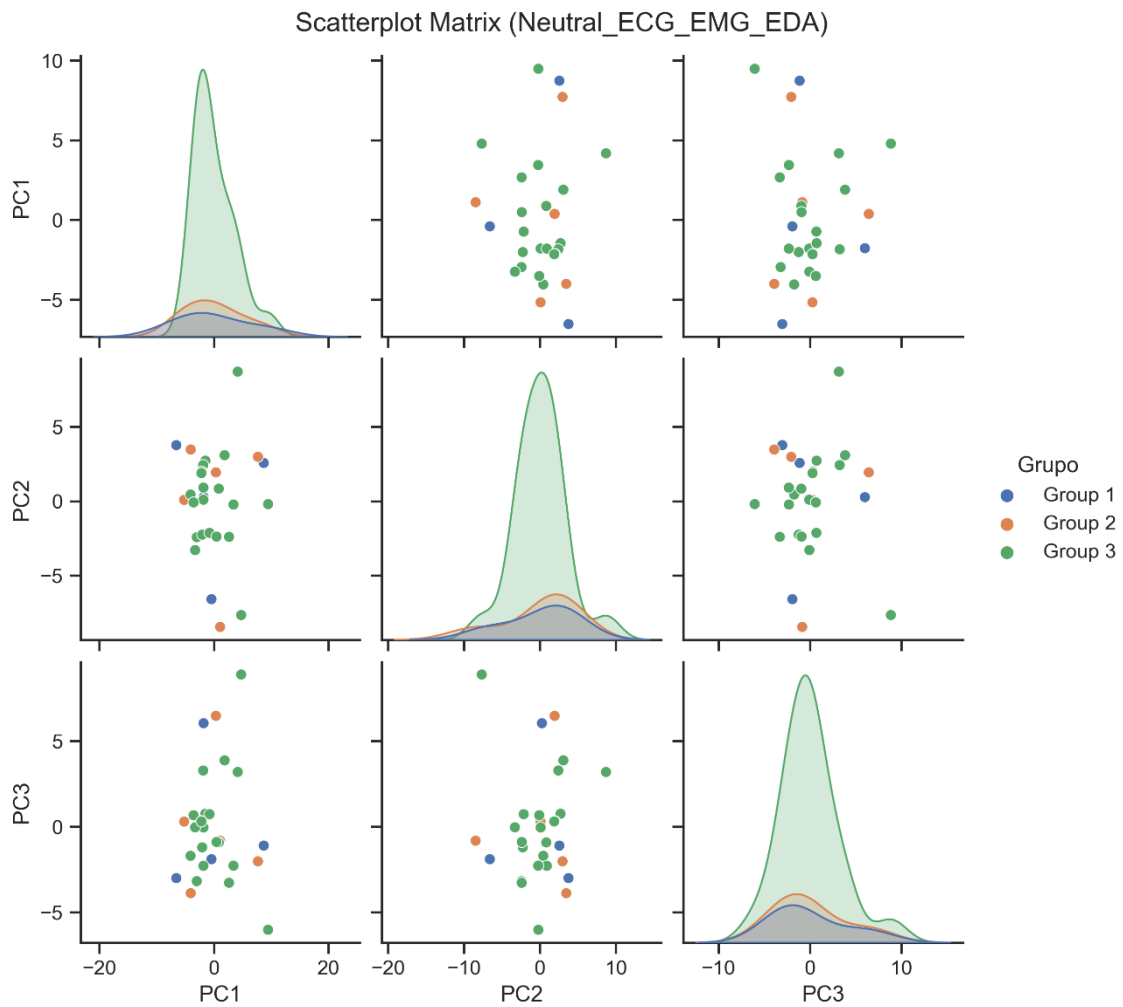
Figure N2: Scatterplot matrix considering the first three principal components obtained based on the principal components analysis over the features selected based on methodology A and with the consideration of EDA signal on the neutral stimuli.

Figure N3: Scatterplot matrix considering the first three principal components obtained based on the principal components analysis over the features selected based on methodology A and with the consideration of EMG signal on the neutral stimuli.

Figure N4: Scatterplot matrix considering the first three principal components obtained based on the principal components analysis over the features selected based on methodology A and with the consideration of consideration of all physiological signals together on the neutral stimuli.