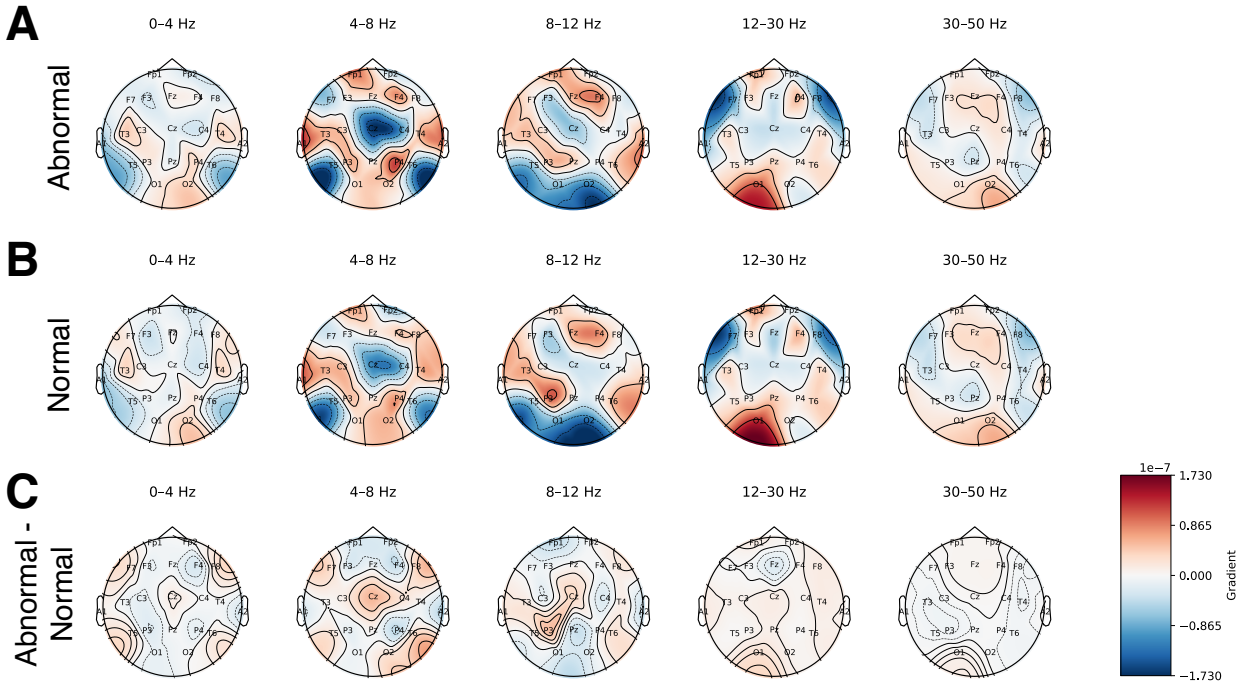
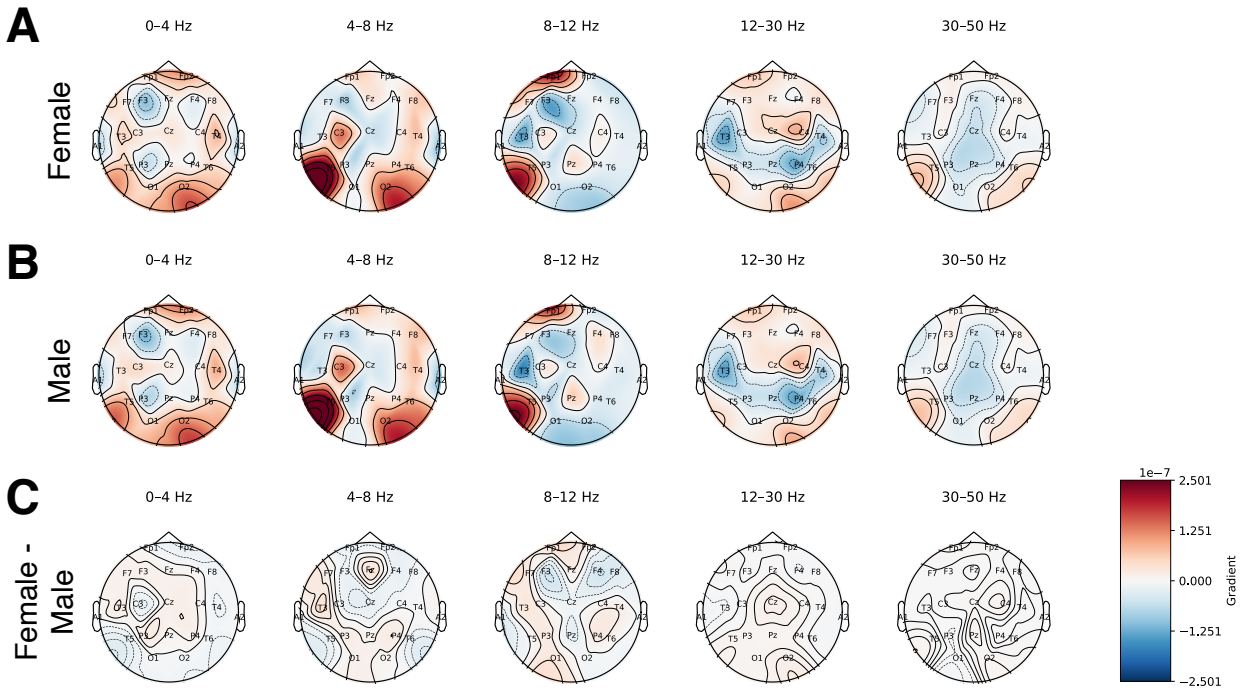
A Appendices

A.1 Amplitude Gradients Analysis

In Supplementary Figures 1 and 2, we present detailed visualizations of the Amplitude Gradients Analysis (AGA) applied to different frequency bands of biological sex classifiers and pathology classifiers on the TUAB dataset.



Supplementary Figure 1. AGA of different frequency bands of biological sex classifiers on TUAB dataset. A) Abnormal, B) Normal, and C) The difference between Abnormal and Normal. Red indicates a stronger relation with the female class, while blue indicates a stronger relation with the male class.



Supplementary Figure 2. AGA of different frequency bands of Pathology classifiers on TUAB dataset. A) Female B) Male C) The difference between Female and Male class. Red indicates a stronger relation with the female class, while blue indicates a stronger relation with the male class.