Preprocessing report:

Time elapsed: 1000.4228

1. Data information:

Subject ID:
Original sampling frequency: 1000
Original data length in mins: 9.3833
Number of channels: 1

2. Filtering:

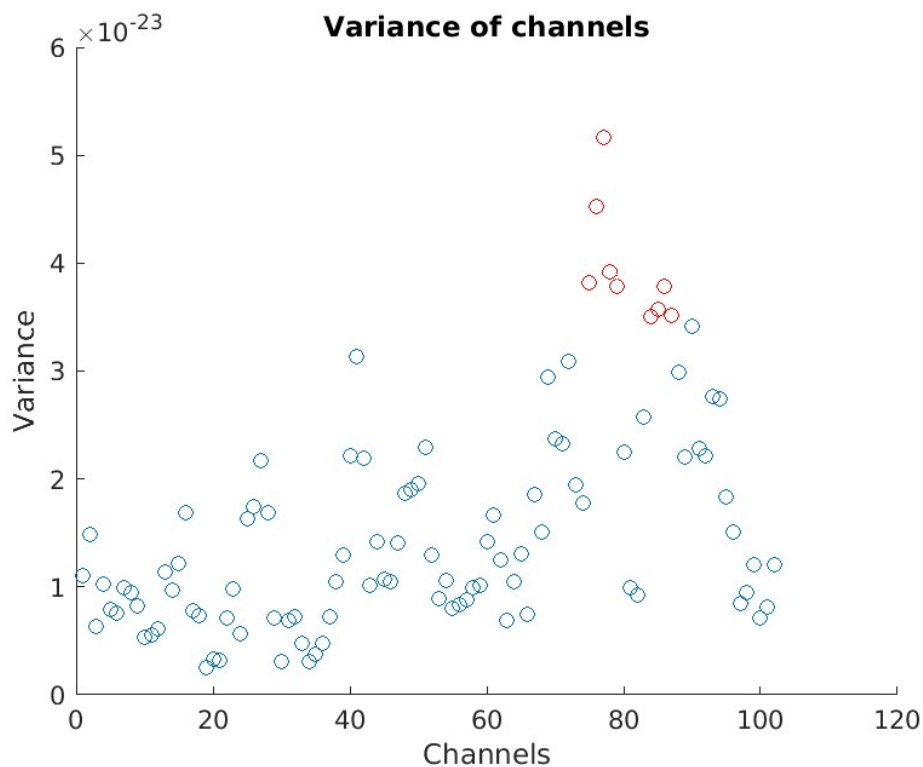Low pass filter cut-off: 1 45

3. Downsampling:

Original sampling frequency: 1000
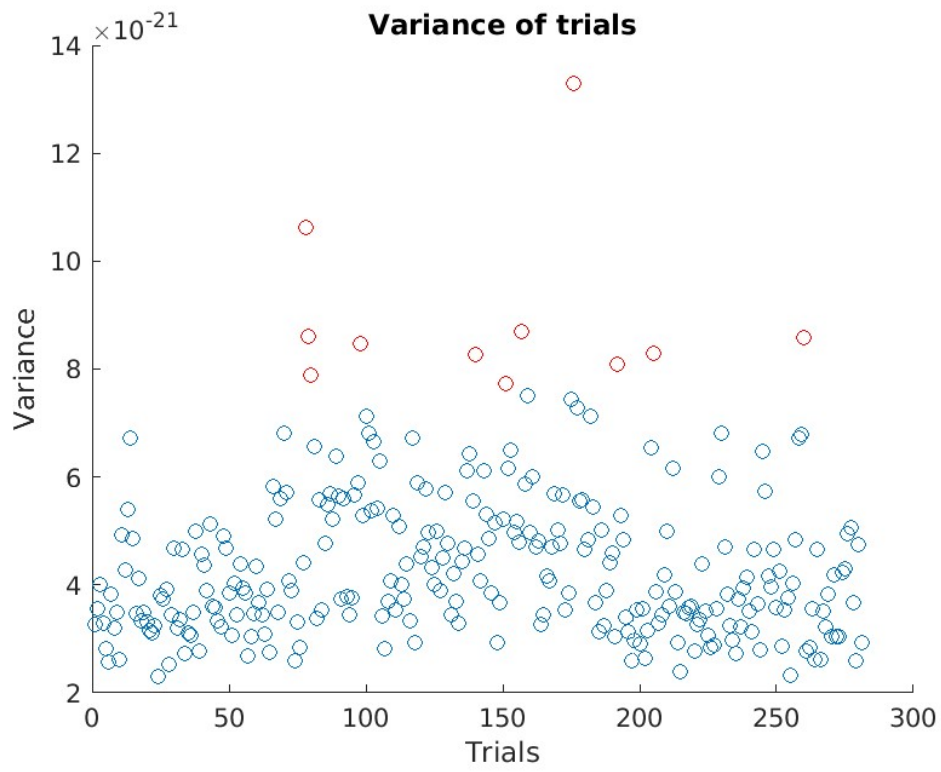New sampling frequency: 200

4. Epoching:

Number of epochs: 112400
Epoch length in samples: 400
Epoch length in seconds: 2

5. Outlier epoch/channel rejection:

Number of rejected channels: 12
Indices of rejected channels: 227 229 259 223 226 230 233 235 250 253 257 260
Number of rejected epochs: 18
Indices of rejected epochs: 11 78 79 80 81 98 103 140 151 157 175 176 177 192 205 245 259 260

Percentage of rejected epochs: 6.4057
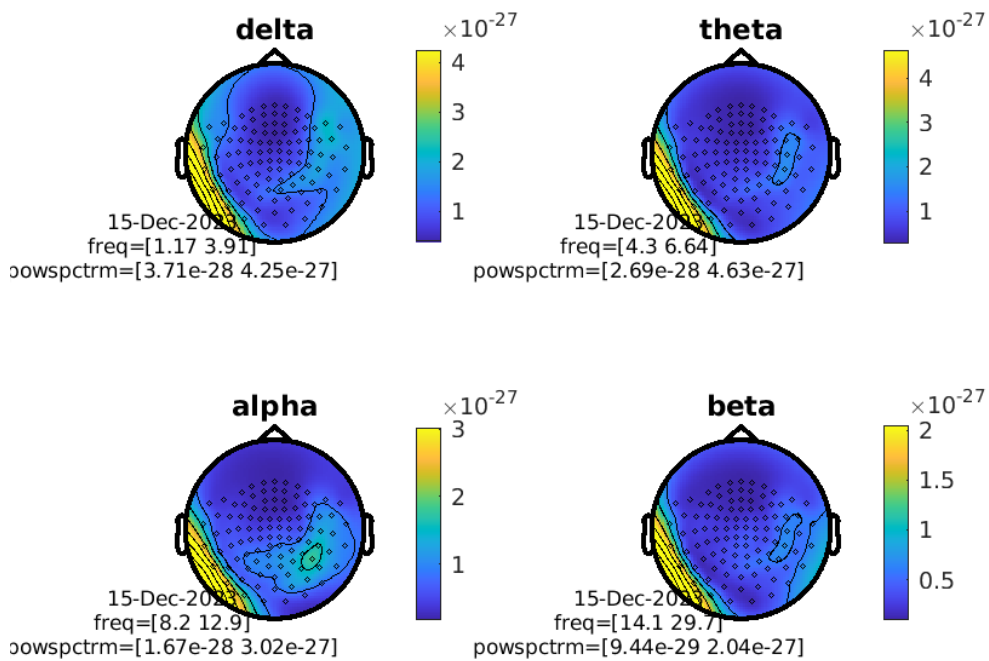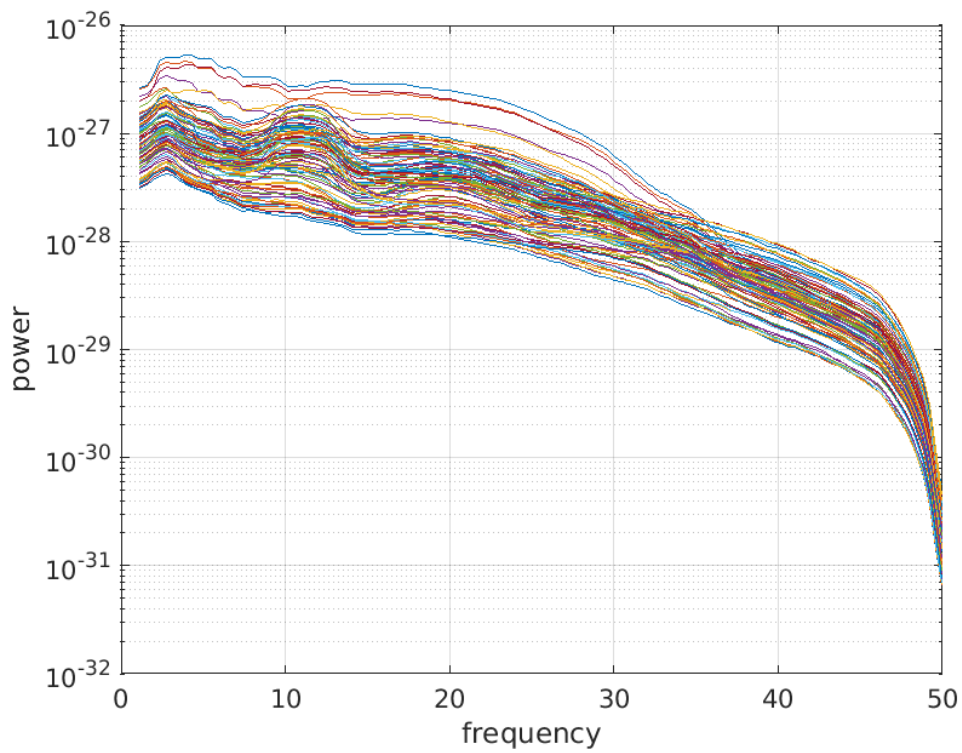
Variance of trials

7. Channel interpolation:

Number of Interpolated channels: 12
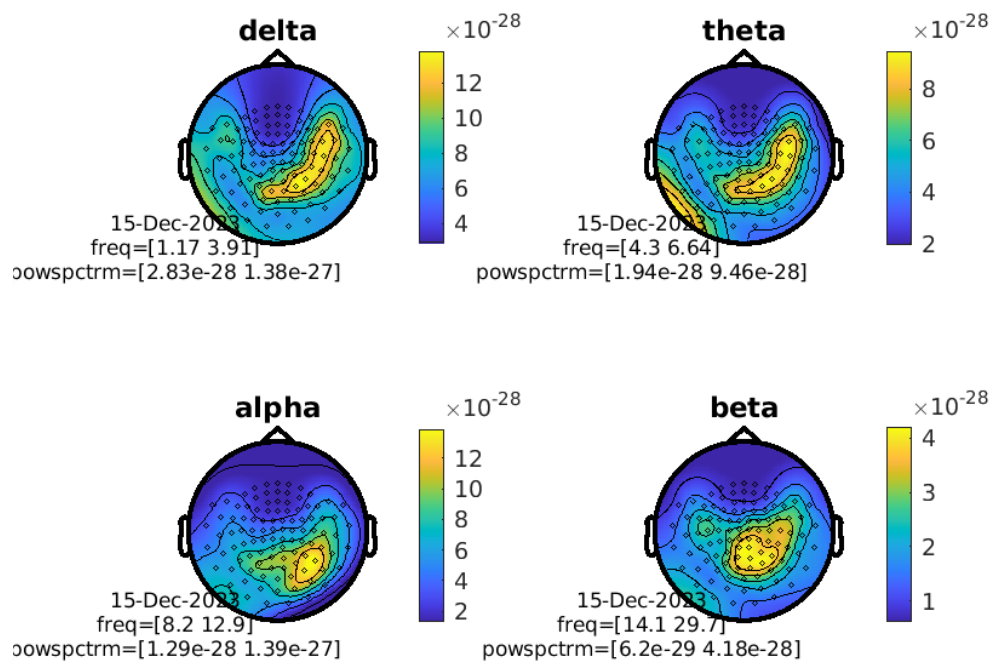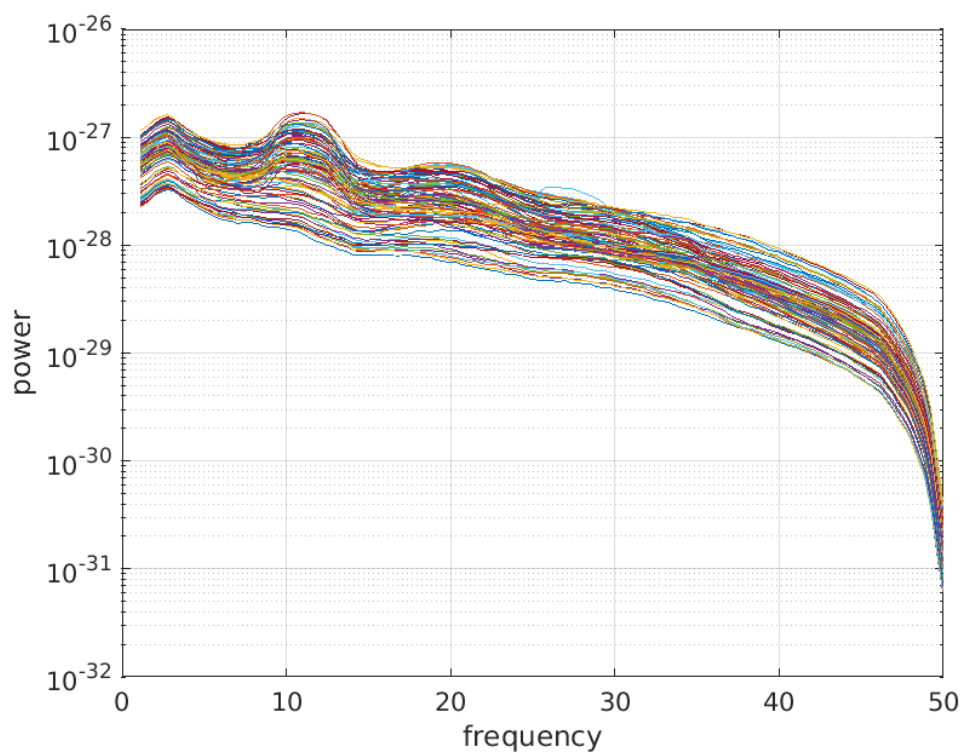Indices of Interpolated channels: 227 229 259 223 226 230 233 235 250 253 257 260

Spectra plots and topoplots:

After import:

delta
freq=[1.17 3.91]
powspctrm=[3.71e-28 4.25e-27]
15-Dec-20...

theta
freq=[4.3 6.64]
powspctrm=[2.69e-28 4.63e-27]
15-Dec-20...

alpha
freq=[8.2 12.9]
powspctrm=[1.67e-28 3.02e-27]
15-Dec-20...

beta
freq=[14.1 29.7]
powspctrm=[9.44e-29 2.04e-27]
15-Dec-20...

After regressing eye and heart activity

delta

15-Dec-2023
freq=[1.17 3.91]
powspctrm=[2.83e-28 1.38e-27]

theta

15-Dec-2023
freq=[4.3 6.64]
powspctrm=[1.94e-28 9.46e-28]

alpha

15-Dec-2023
freq=[8.2 12.9]
powspctrm=[1.29e-28 1.39e-27]

beta

15-Dec-2023
freq=[14.1 29.7]
powspctrm=[6.2e-29 4.18e-28]

After rejecting channels and trials and interpolation

delta — freq=[1.17 3.91], powspctrm=[2.85e-28 1.38e-27]

theta — freq=[4.3 6.64], powspctrm=[1.94e-28 9.3e-28]

alpha — freq=[8.2 12.9], powspctrm=[1.25e-28 1.18e-27]

beta — freq=[14.1 29.7], powspctrm=[6.11e-29 4.05e-28]

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