

## Attachement with data set for all participants

Denoised

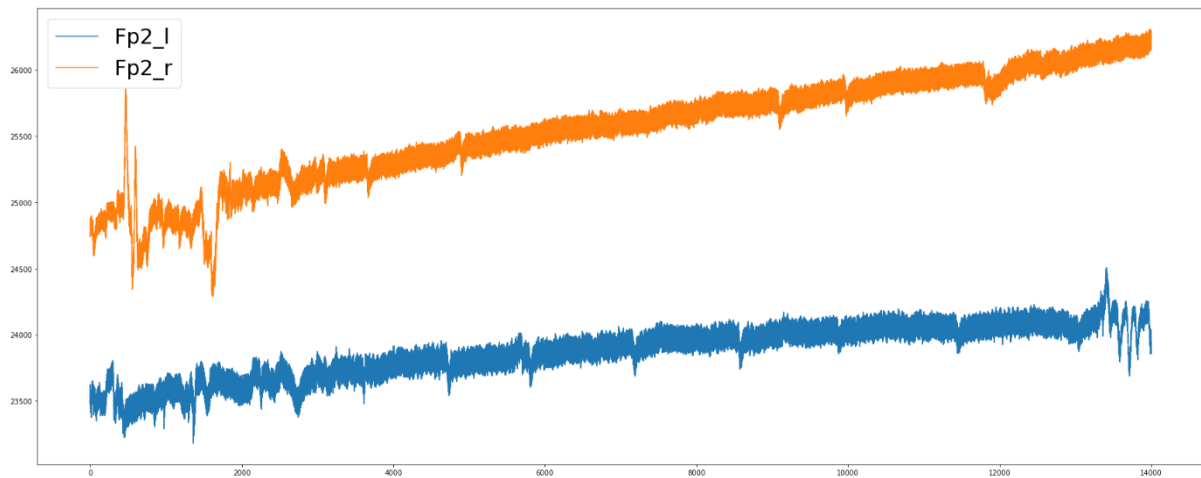


Figure S1: Denoised data example for one participant, sensor FP2. Orange: thoughts on right hand, Blue: thoughts on left hand.

With noise:

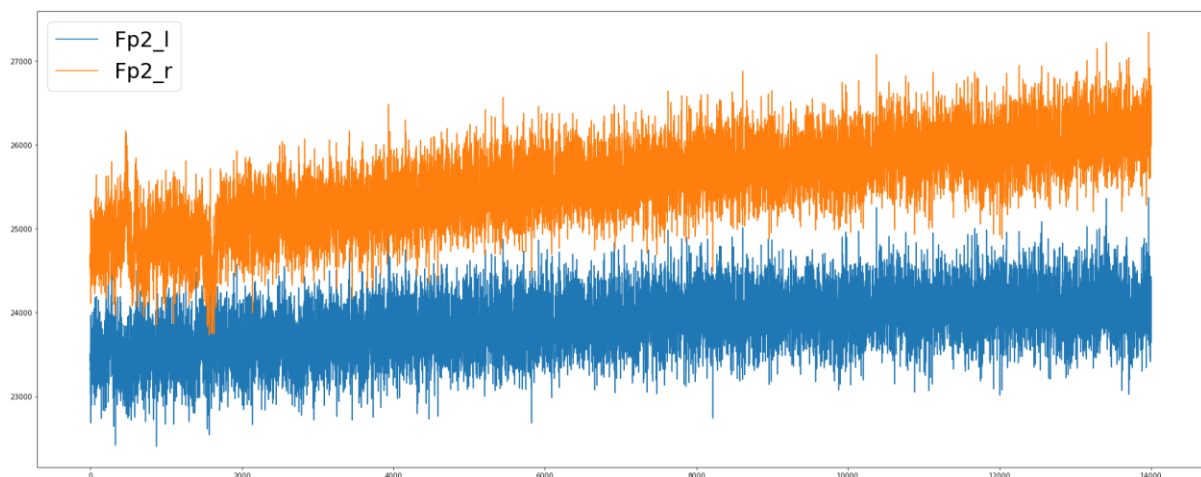


Figure S2: Data example with noise for one participant, sensor FP2. Orange: thoughts on right hand, Blue: thoughts on left hand.

For second participant:

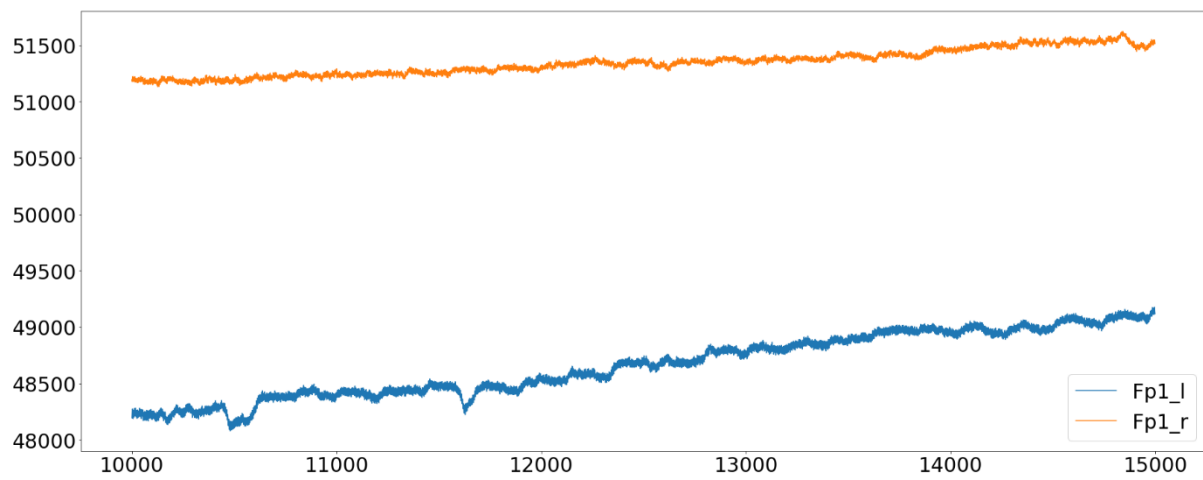


Figure S3: Data plot for second participant, sensor FP1. Orange: thoughts on right hand, Blue: thoughts on left hand.

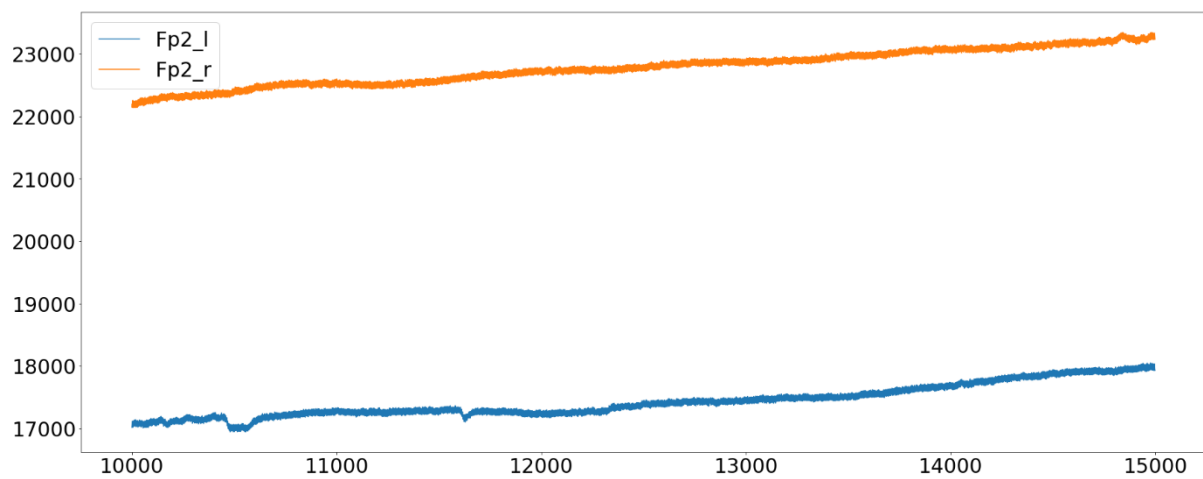


Figure S4: Data plot for second participant, sensor FP2. Orange: thoughts on right hand, Blue: thoughts on left hand.

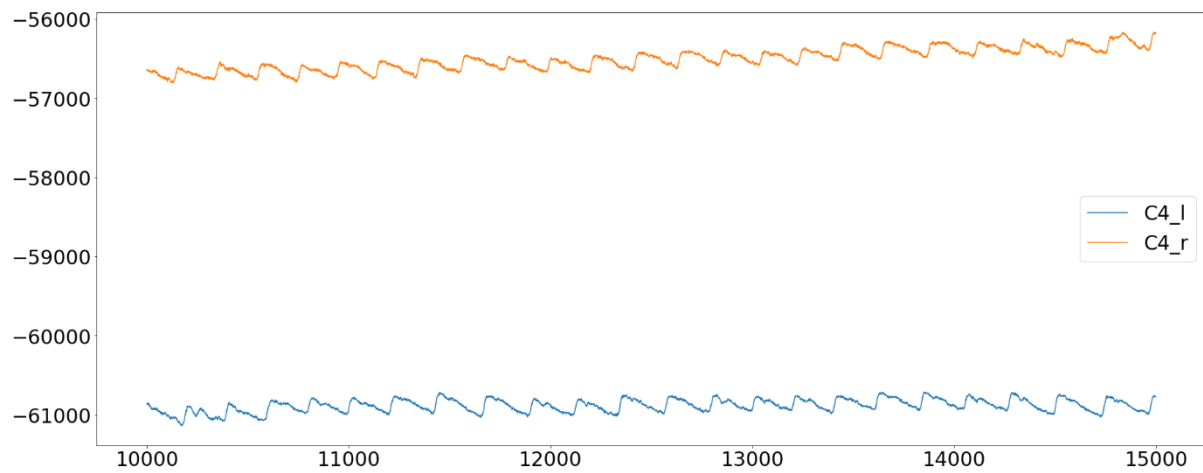


Figure S5: Data plot for second participant, sensor C4. Orange: thoughts on right hand, Blue: thoughts on left hand.

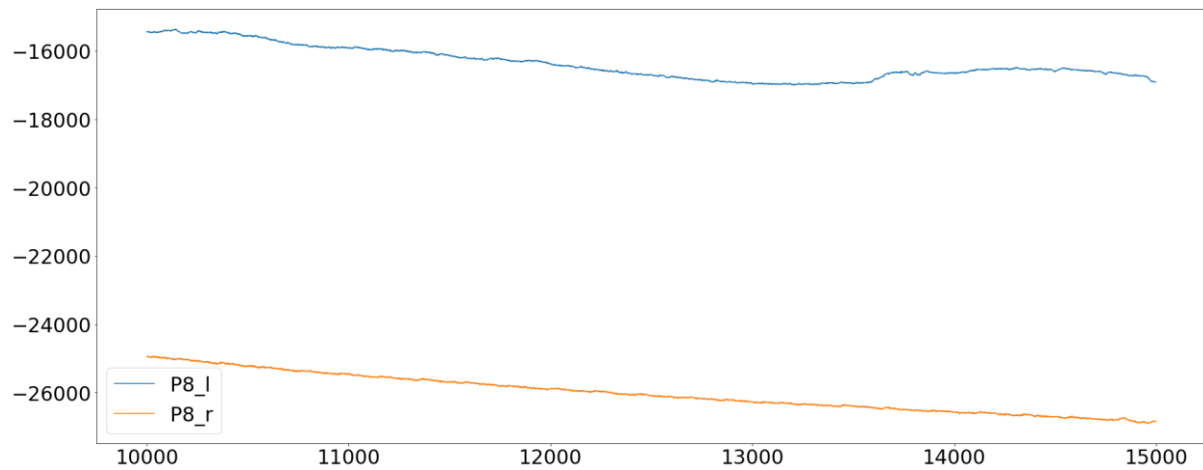


Figure S6: Data plot for second participant, sensor P8. Orange: thoughts on right hand, Blue: thoughts on left hand.

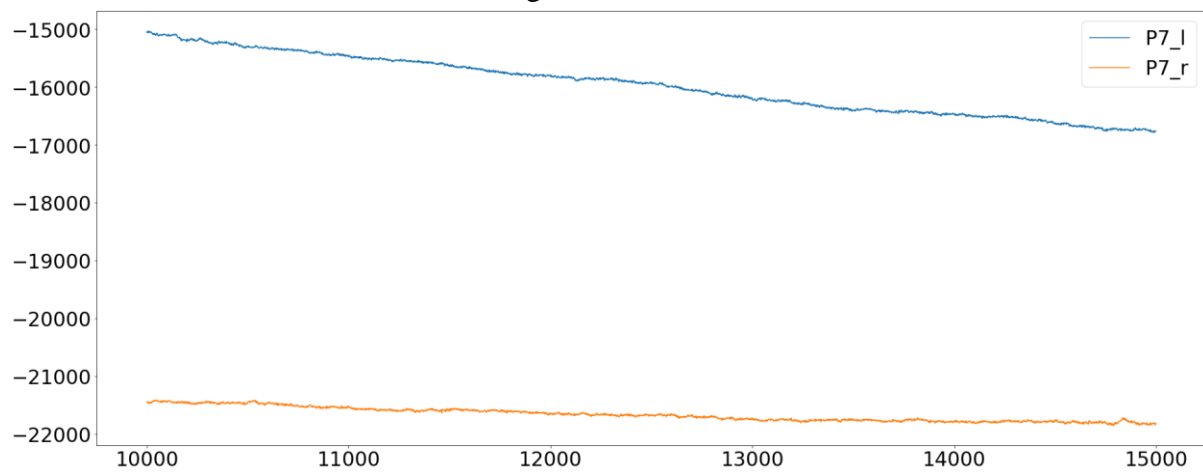


Figure S7: Data plot for second participant, sensor P7. Orange: thoughts on right hand, Blue: thoughts on left hand.

For third participant:

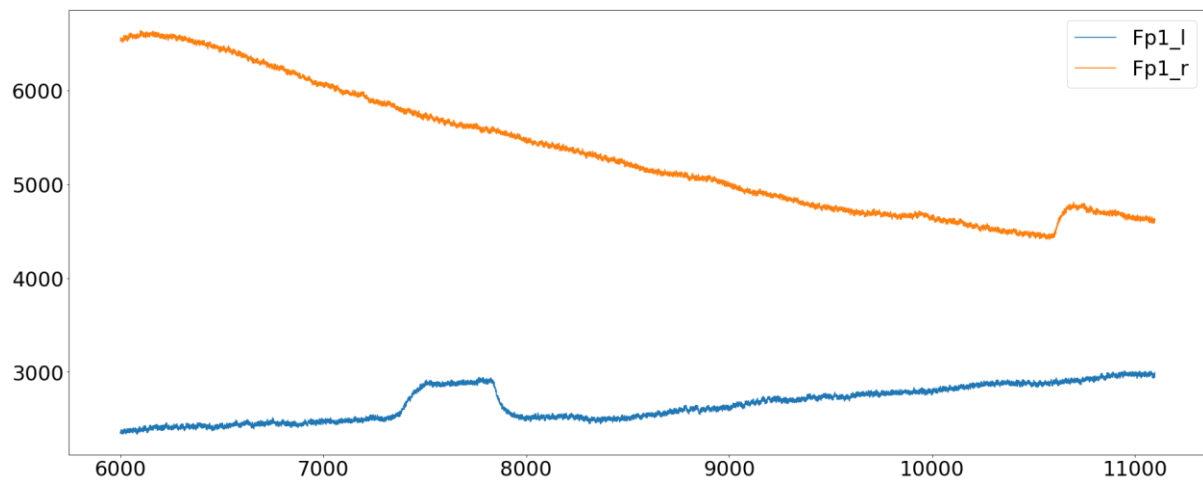


Figure S8: Data plot for third participant, sensor FP1. Orange: thoughts on right hand, Blue: thoughts on left hand.

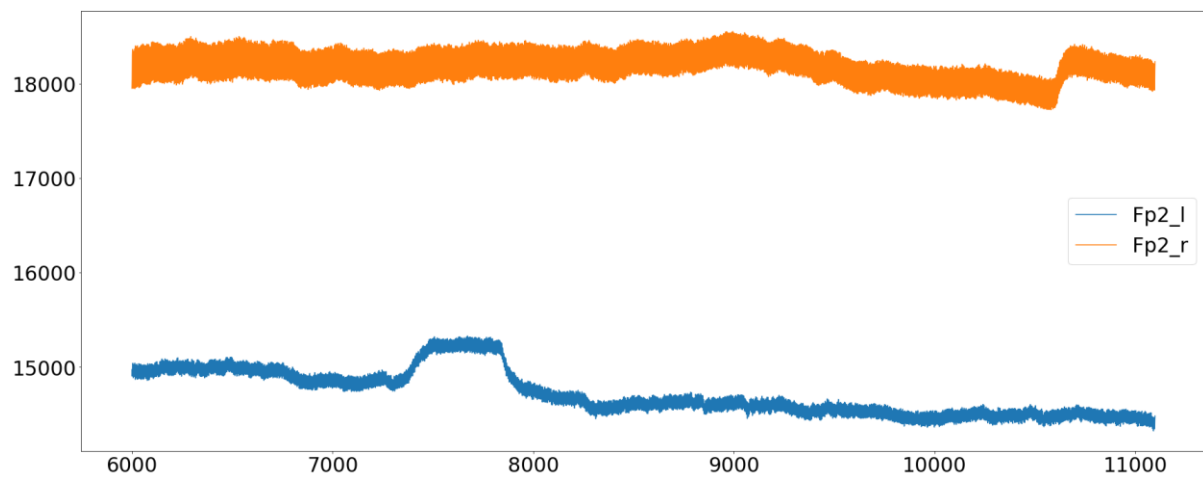


Figure S9: Data plot for third participant, sensor FP2. Orange: thoughts on right hand, Blue: thoughts on left hand.

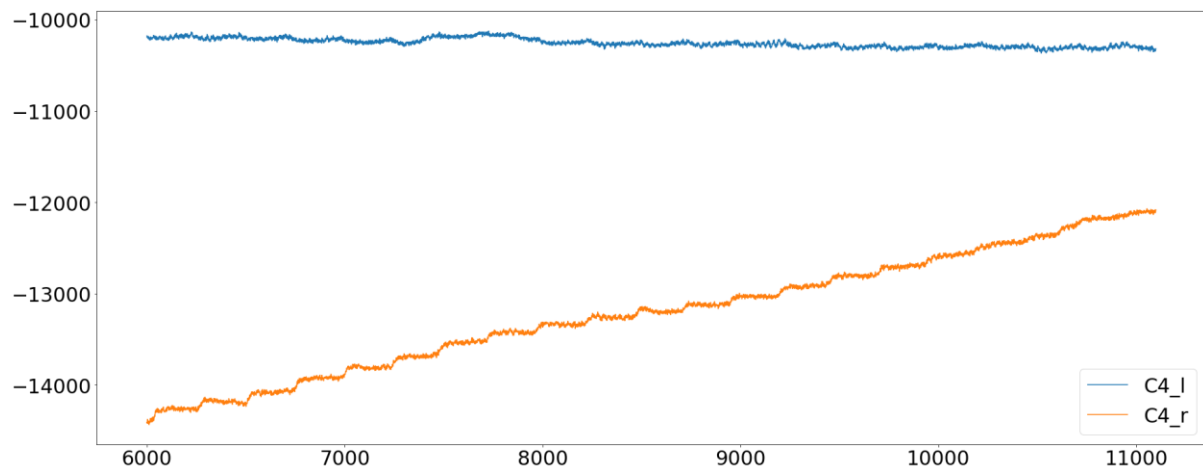


Figure S10: Data plot for second participant, sensor C4. Orange: thoughts on right hand, Blue: thoughts on left hand.

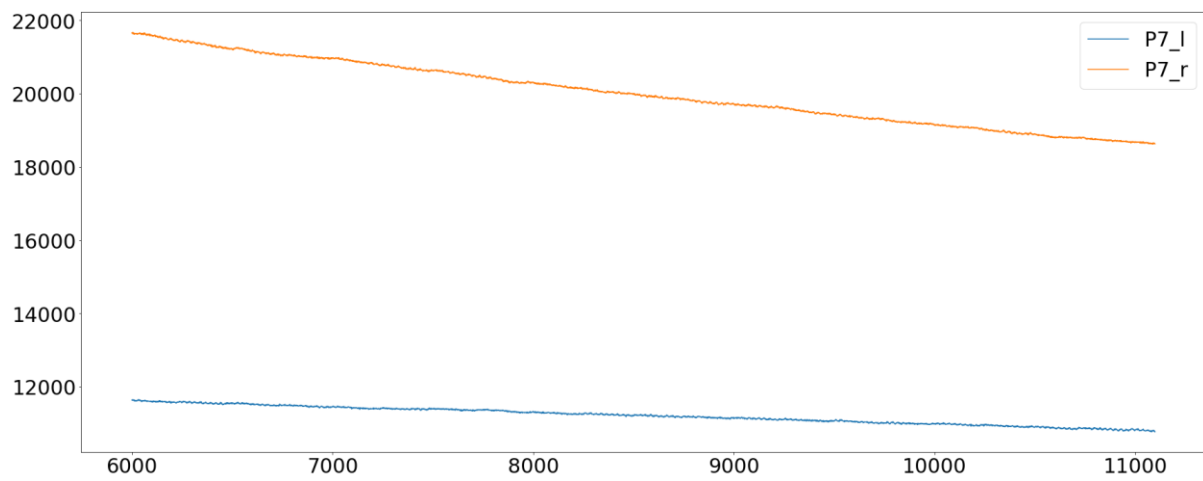


Figure S11: Data plot for second participant, sensor P7. Orange: thoughts on right hand, Blue: thoughts on left hand.

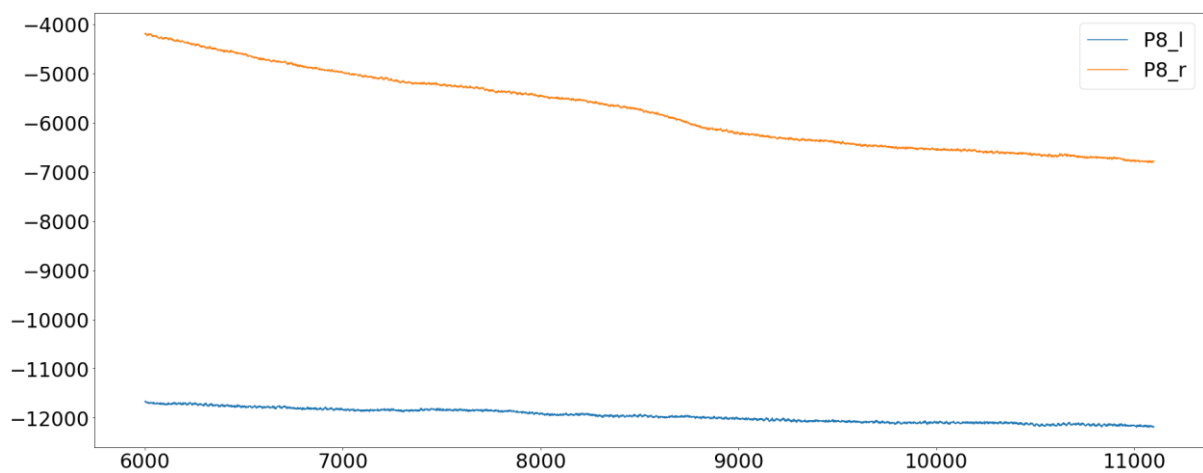


Figure S12: Data plot for second participant, sensor P8. Orange: thoughts on right hand, Blue: thoughts on left hand.

For forth participants:

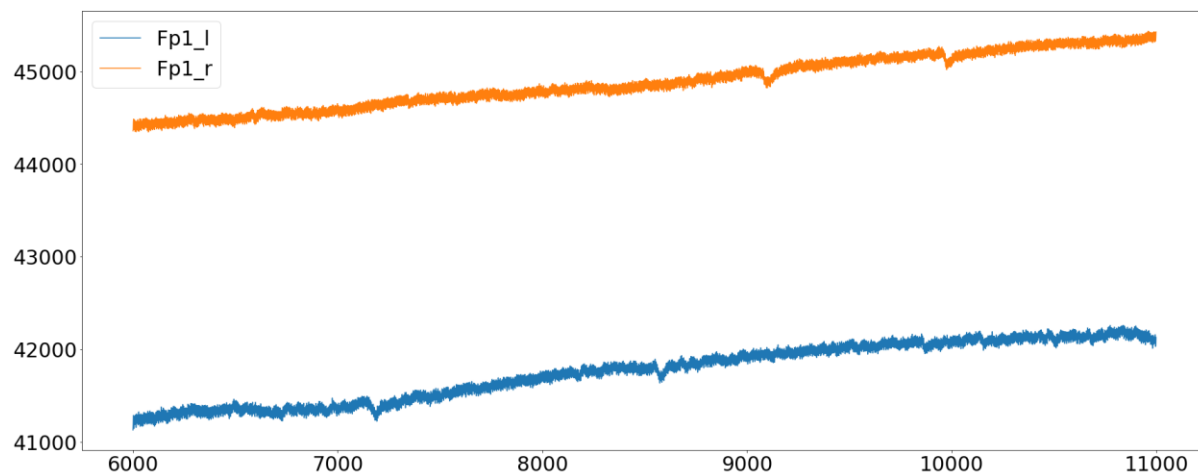


Figure S13: Data plot for forth participant, sensor FP1. Orange: thoughts on right hand, Blue: thoughts on left hand.

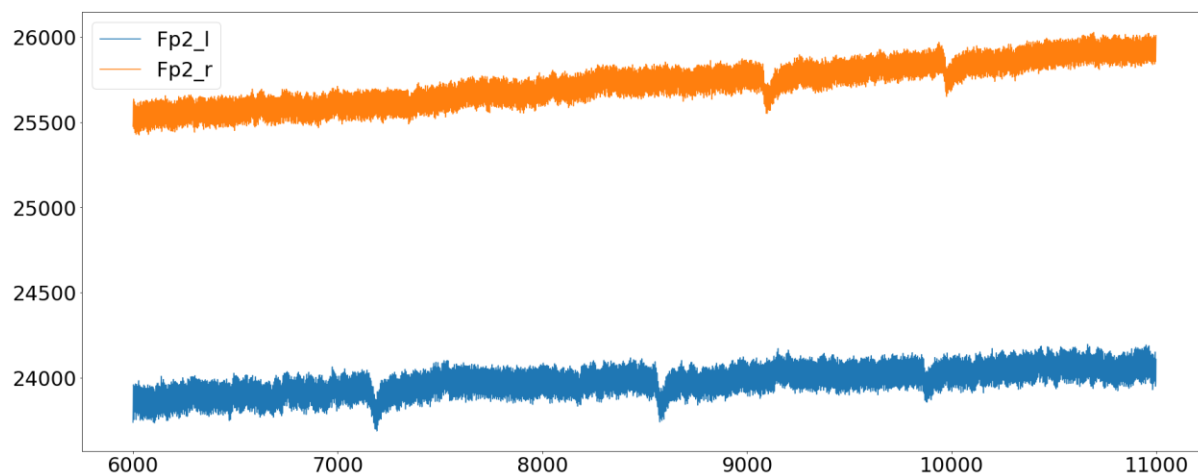


Figure S14: Data plot for forth participant, sensor FP1. Orange: thoughts on right hand, Blue: thoughts on left hand.

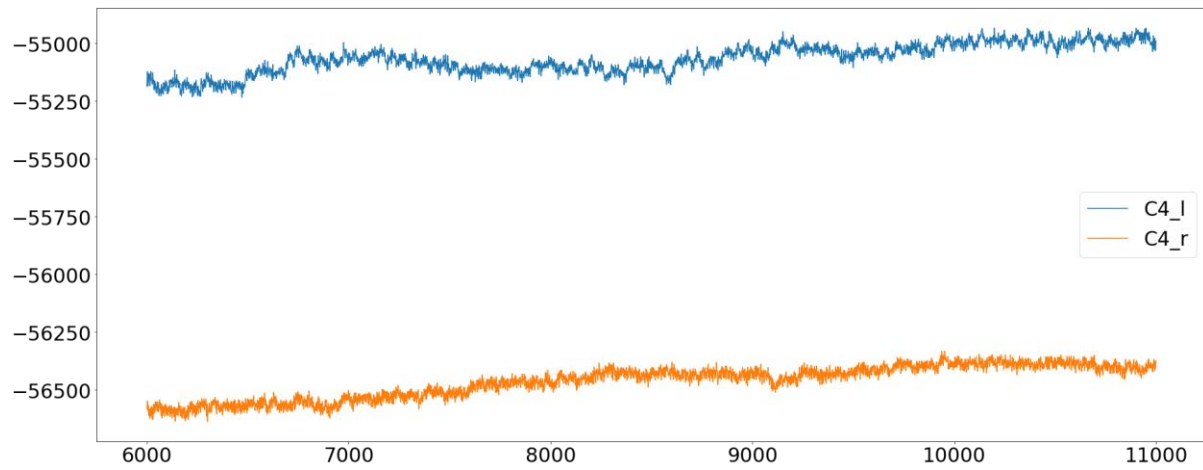


Figure S15: Data plot for forth participant, sensor C4. Orange: thoughts on right hand, Blue: thoughts on left hand.

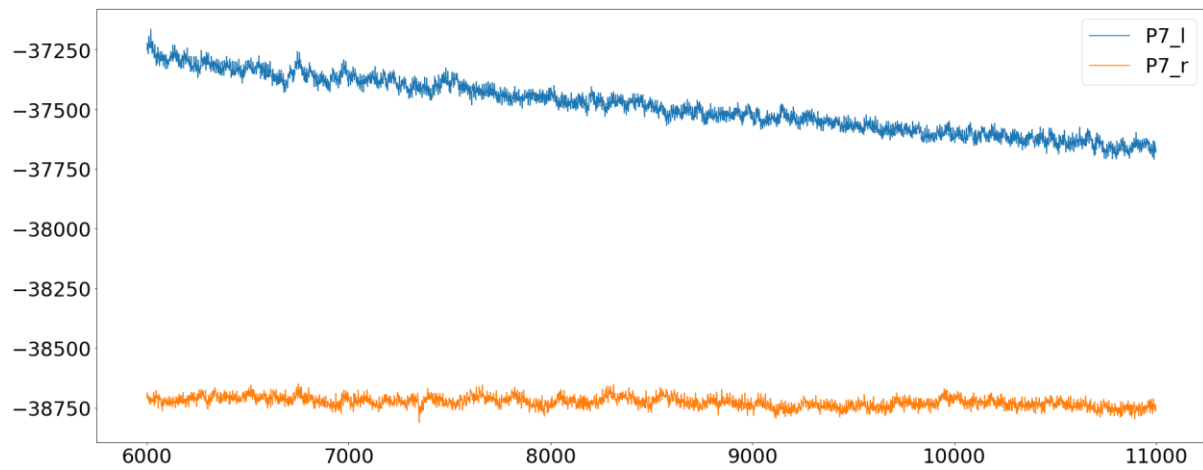


Figure S16: Data plot for second participant, sensor P7. Orange: thoughts on right hand, Blue: thoughts on left hand.

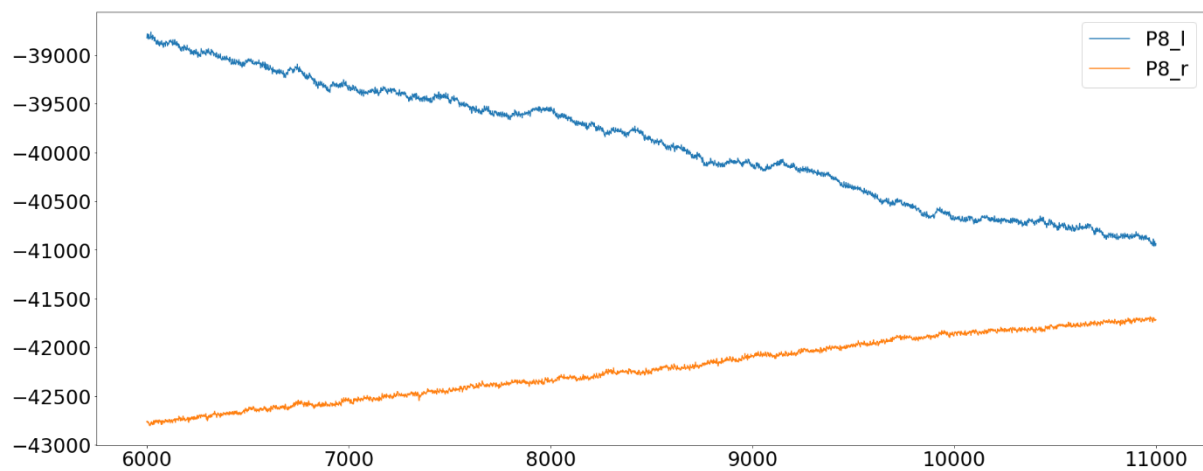


Figure S17: Data plot for second participant, sensor P8. Orange: thoughts on right hand, Blue: thoughts on left hand.