'Central to successful control is the ability to suppress actions that are no longer relevant or required. '

Subject 108

NF Task: Users look at the car and imagine driving it forward to train alpha inhibition, aiming to enhance information suppression to reduce falling risk in the physical world.

Epoching information

- Event '7' (alpha power drop, car moves backward) is set as time = 0 ms, with epochs from [-300 1000] ms.

- Event '6' (ERSP alpha power increase, car moves forward) is plotted as a black line to show its latency relative to '7' (fig 1).

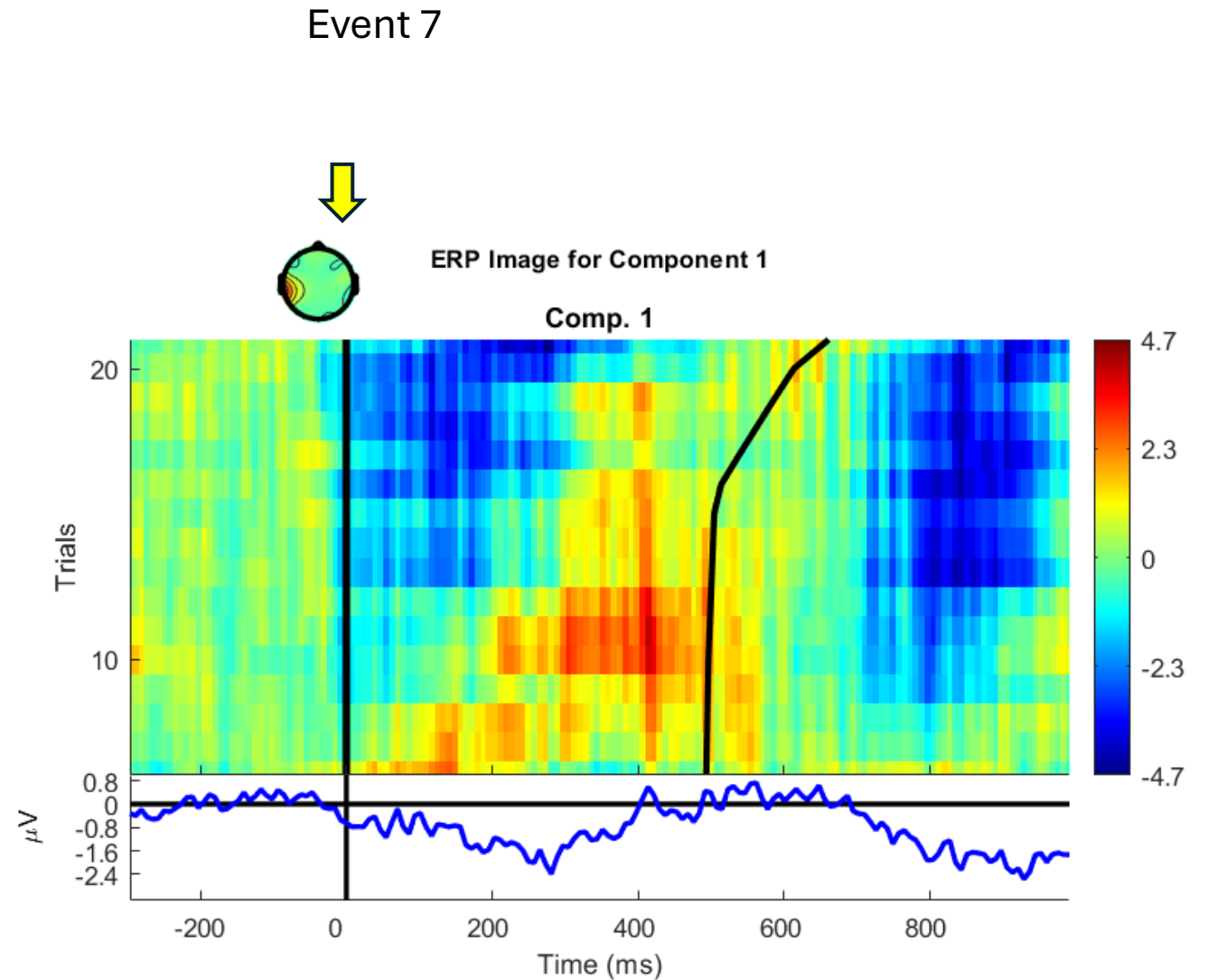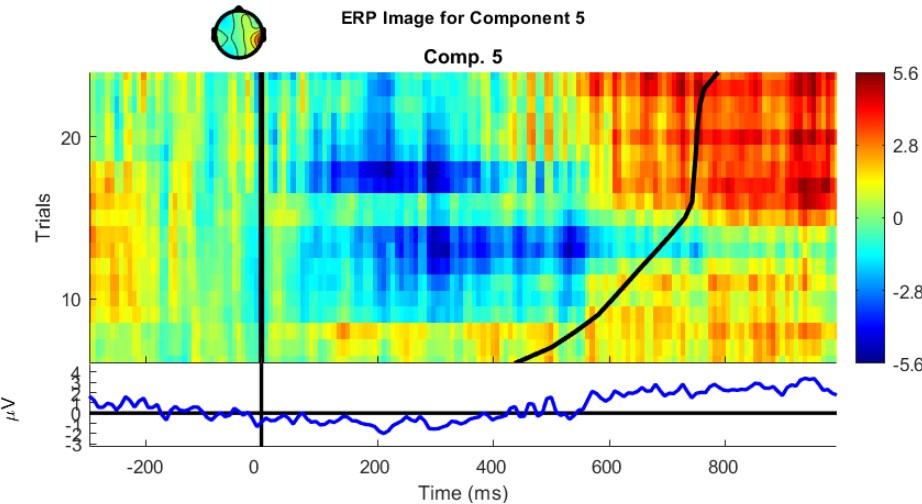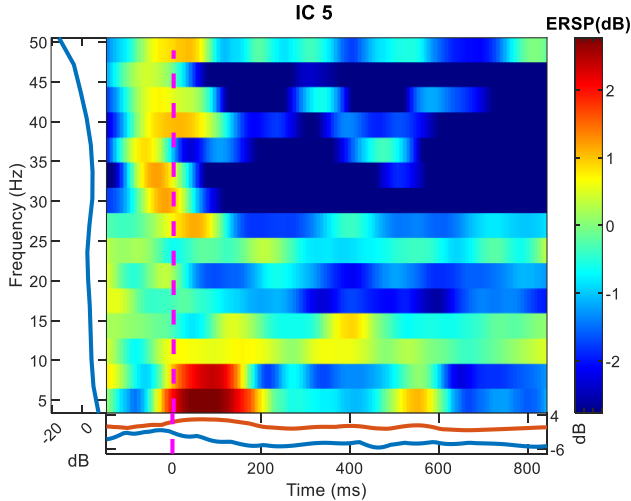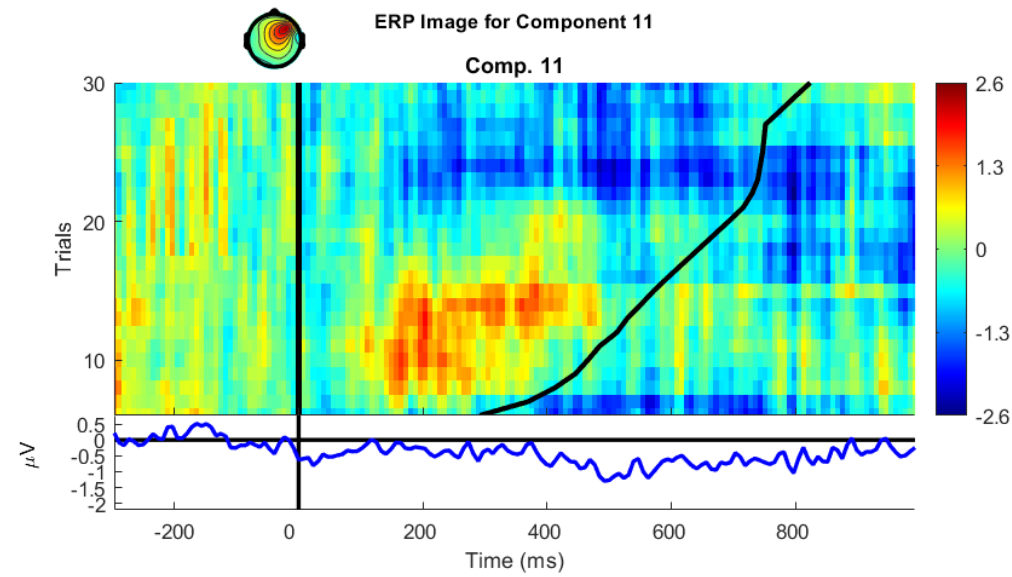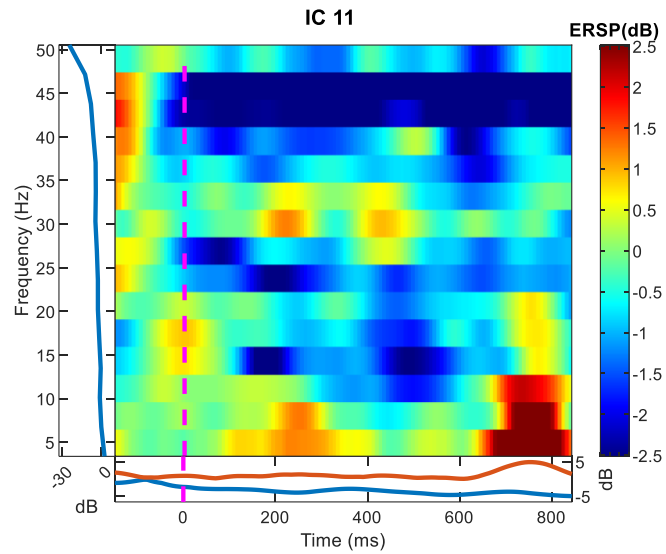- Corrects the baseline by subtracting the -290 to 0 ms mean

Figure 1. ERP of the 1st component for subject 104 training session 1. Event '7' is the stimulus onset when time = 0ms. Event '6' marks the car's forward movement with a black line, sorted by latency
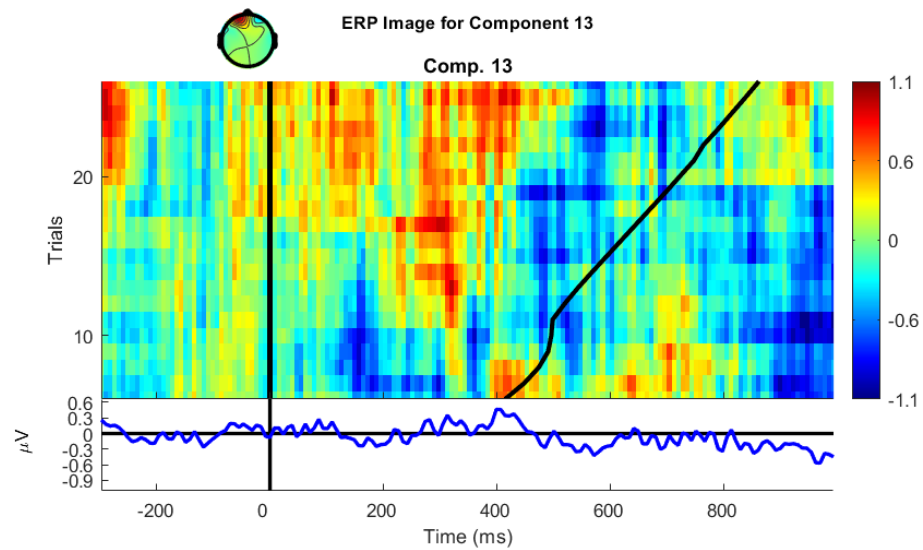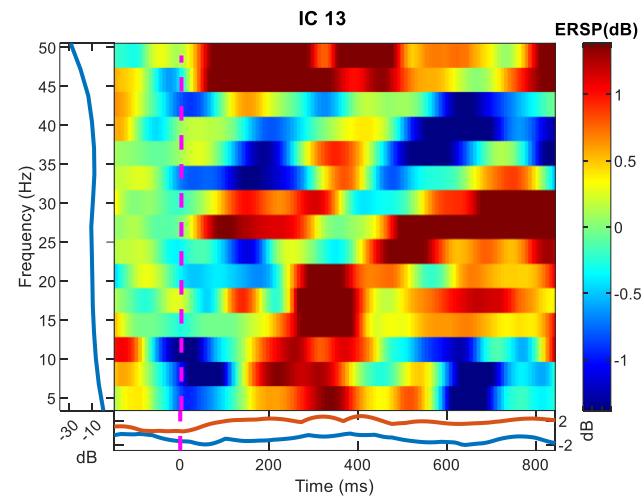
108_2

Temporal T8		
Time(ms)	Alpha	
[0, 200]	sync	
[200, 400]	desync	

IC 5

ERP Image for Component 5
Comp. 5

108_3

Frontal F4		
Time(ms)	Alpha	
[0, 100]	desync	
[200, 400]	sync	

IC 11

ERP Image for Component 11

Comp. 11

108_4

Frontal AF3		
Time(ms)	Alpha	
[0, 100]	desync	
[200, 400]	sync	

IC 13

ERP Image for Component 13

Comp. 13

108_5

Frontal F3		
Time(ms)	Alpha	
[-50, 100]	sync	
[200, 400]	desync	

IC 11

ERSP(dB)

ERP Image for Component 11

Comp. 11

108_7
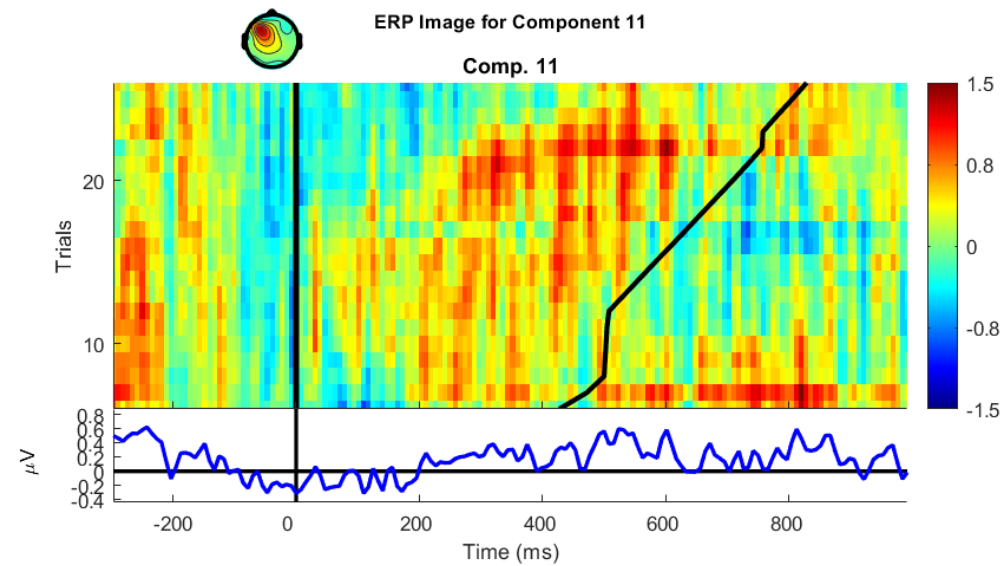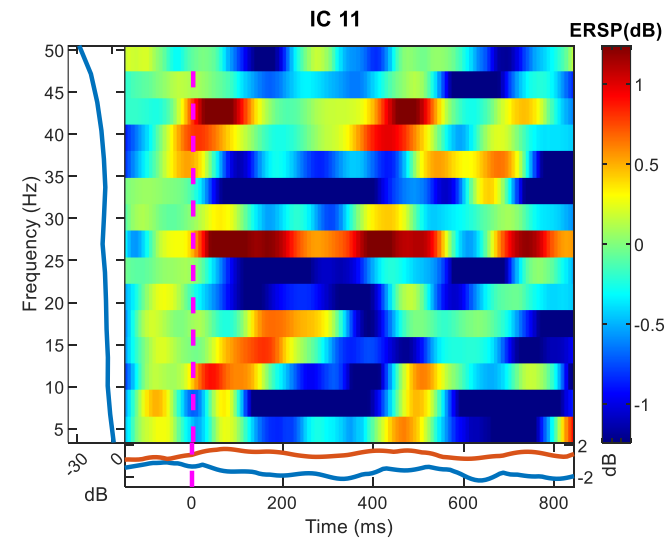
Frontal F7		
Time(ms)	Alpha	
[0, 100]	desync	
[200, 400]	sync	
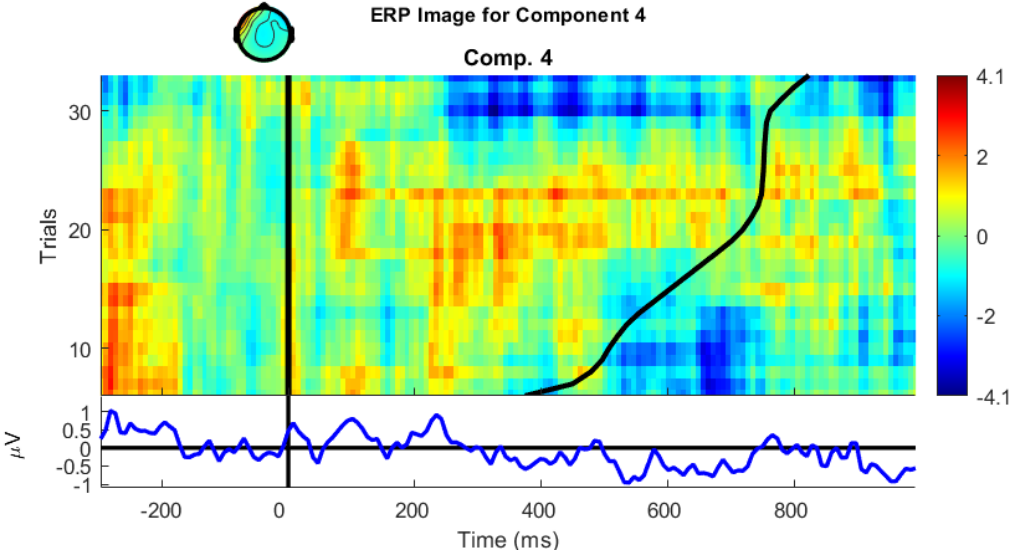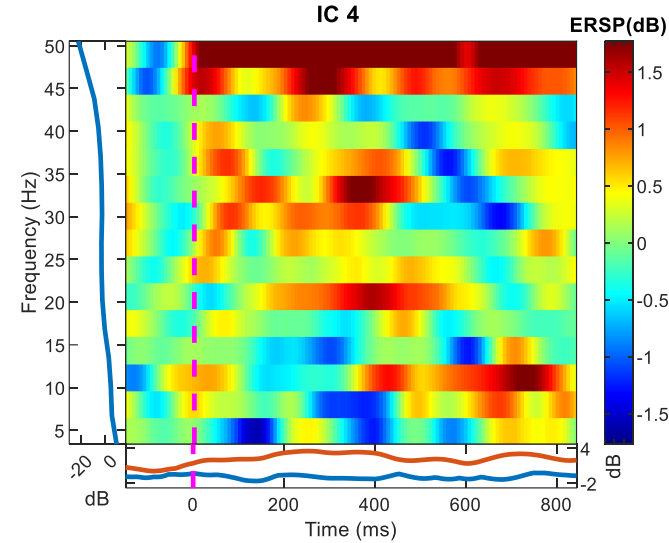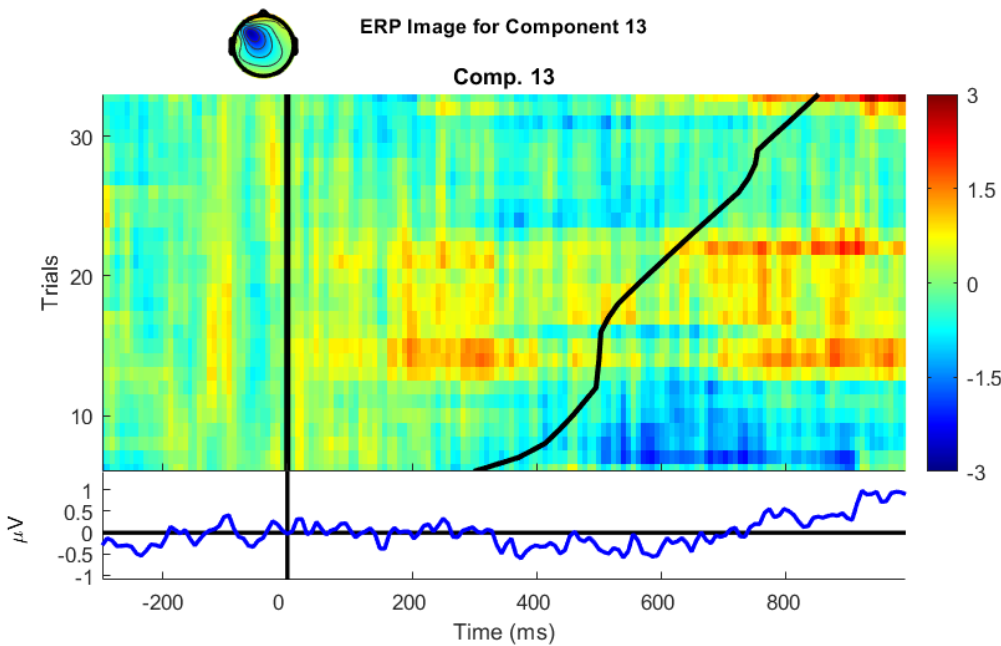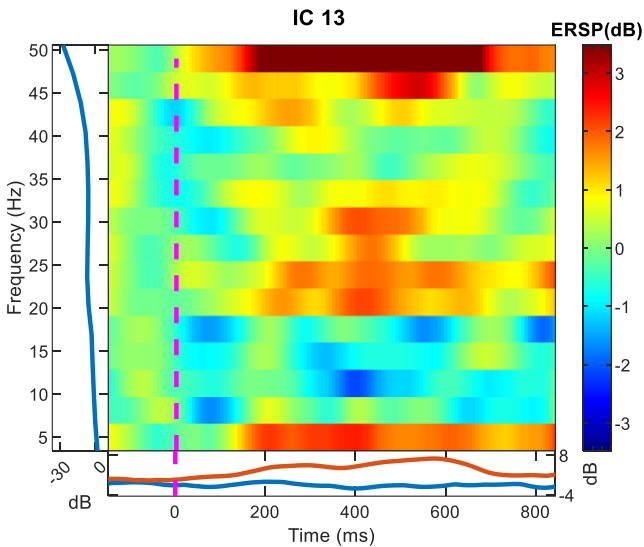
IC 4

ERSP(dB)

ERP Image for Component 4

Comp. 4

108_8

Frontal F3		
Time(ms)	Alpha	
[-50, 100]	desync	
[200, 400]	sync	

IC 13

ERP Image for Component 13

Comp. 13

108_11

Frontal F4		
Time(ms)	Alpha	
[0, 100]	desync	
[400, 600]	sync	

IC 14

ERSP(dB)

ERP Image for Component 14

Comp. 14

Frontal FC6		
Time(ms)	Alpha	
[0, 100]	desync	
[400, 600]	sync	

IC 8

ERSP(dB)

ERP Image for Component 8

Comp. 8

108_14
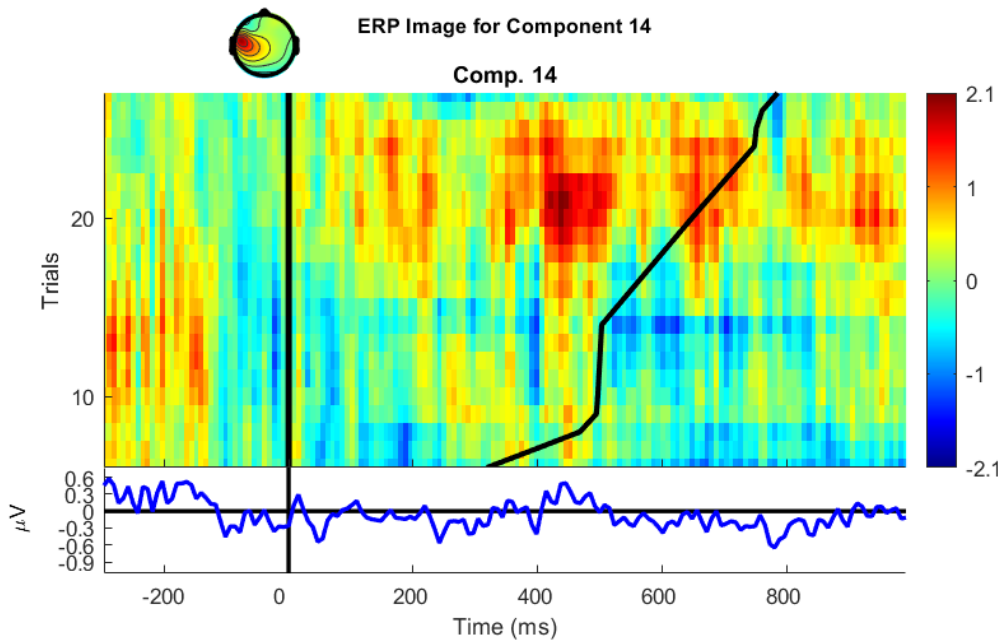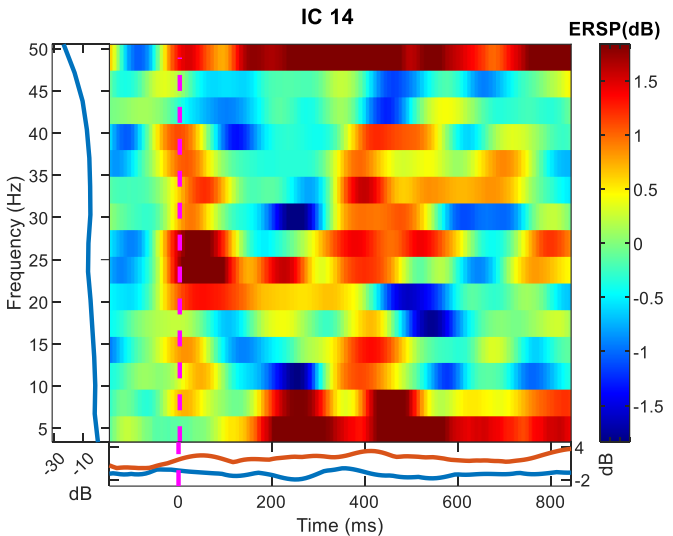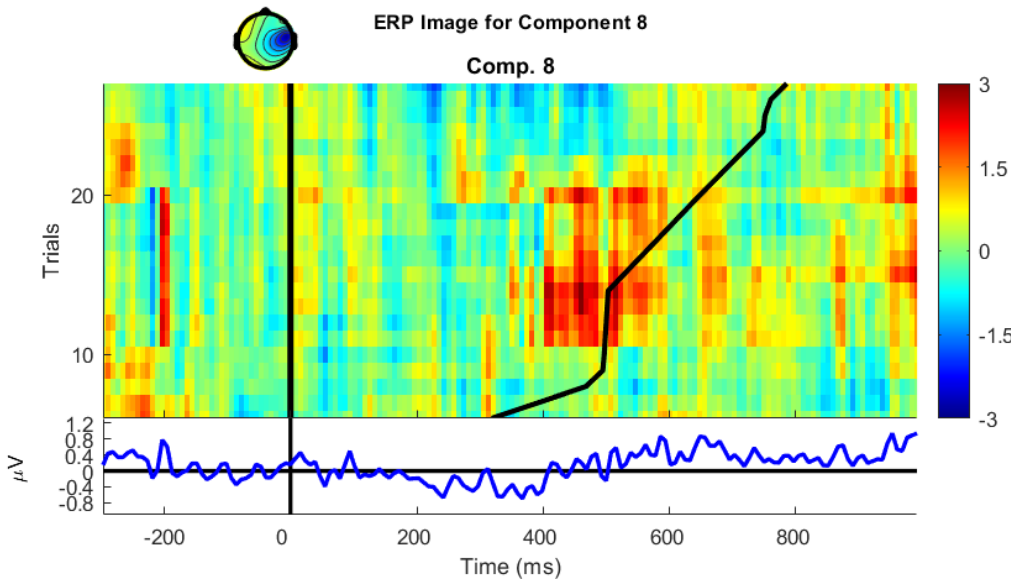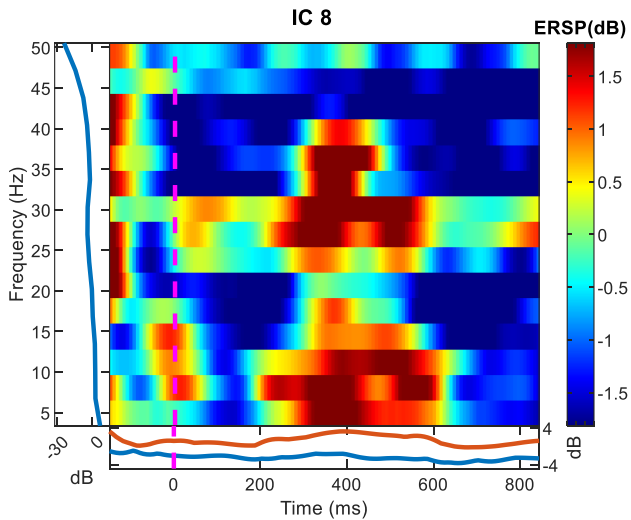
Frontal FC5		
Time(ms)	Alpha	
[-50, 100]	desync	
[200, 400]	sync	

108_16
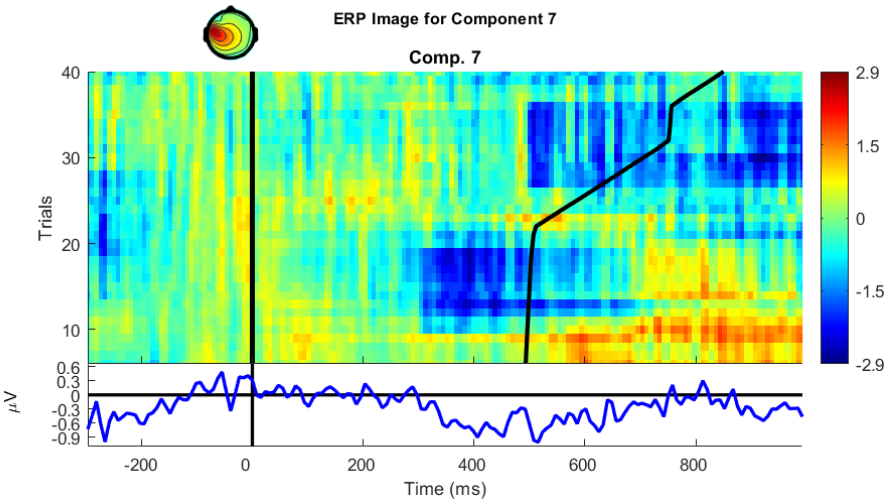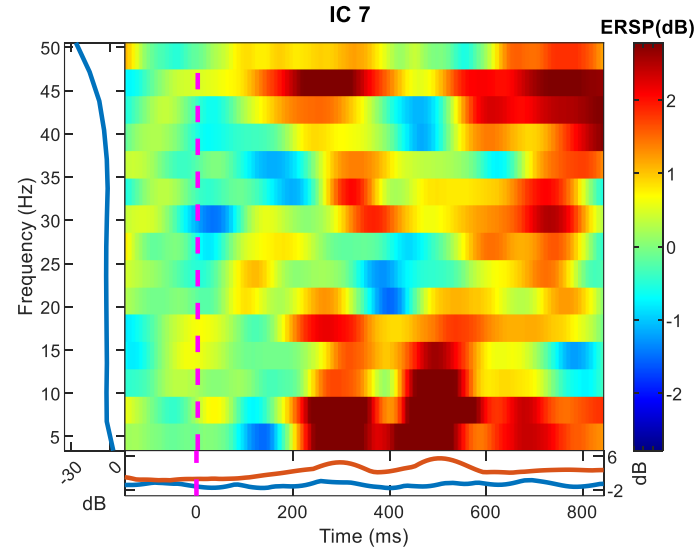
Frontal F4		
Time(ms)	Alpha	
[350,500]	sync	

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IC 8

ERP Image for Component 8

Comp. 8

108_18
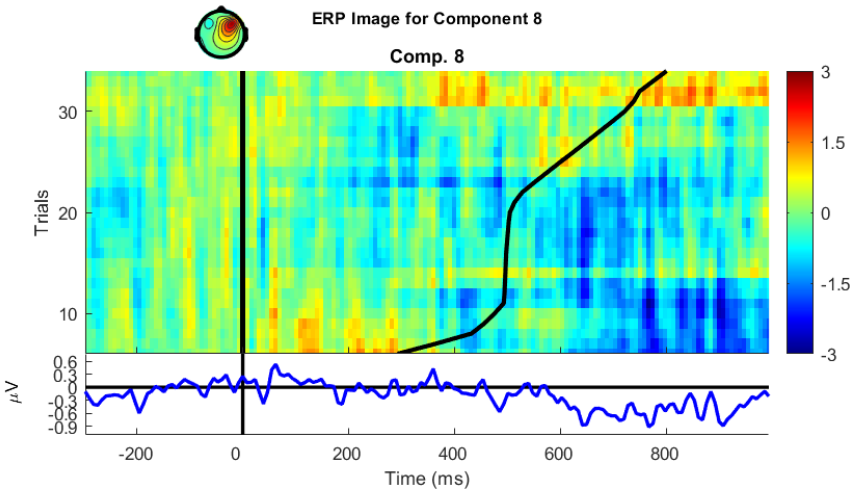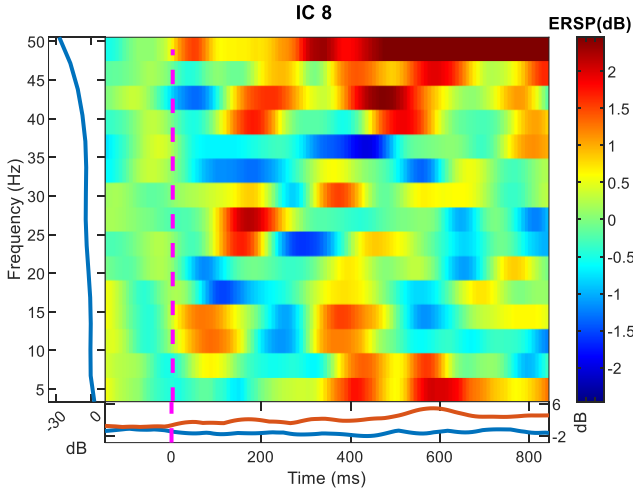
Frontal FC5		
Time(ms)	Alpha	
[0, 100]	sync	
[200, 400]	sync	

108_21
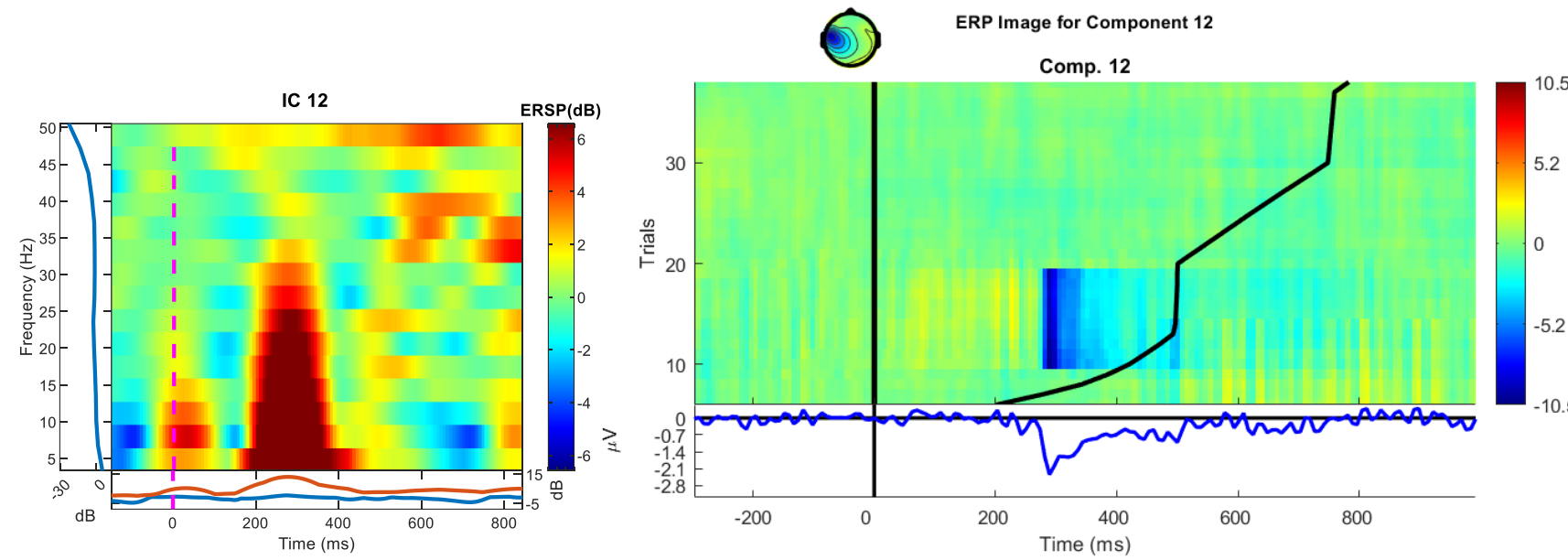
Frontal FC5		
Time(ms)	Alpha	
[0, 200]	desync	
[300, 450]	sync	

108_23
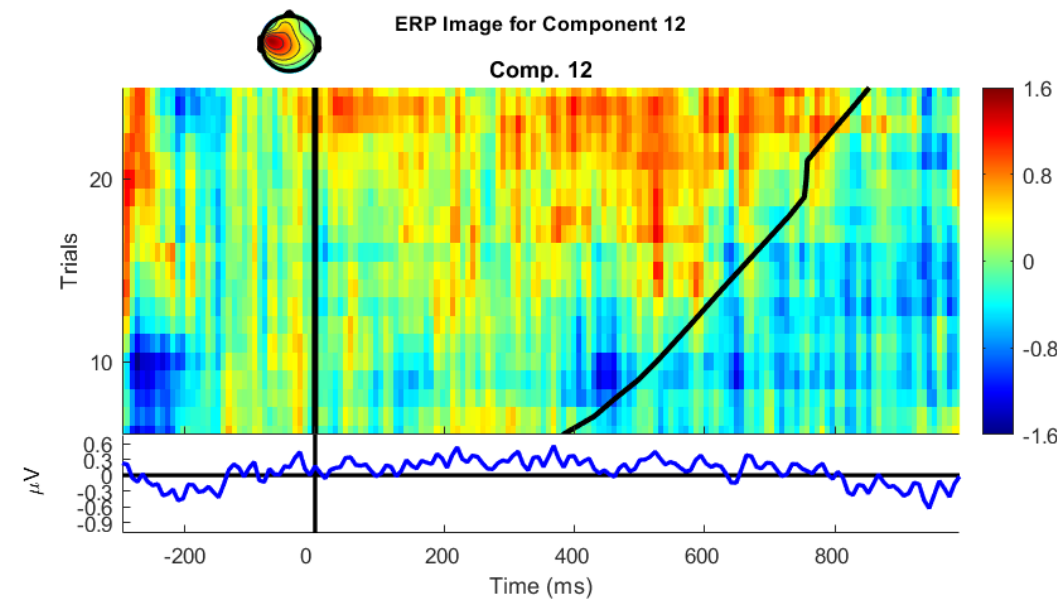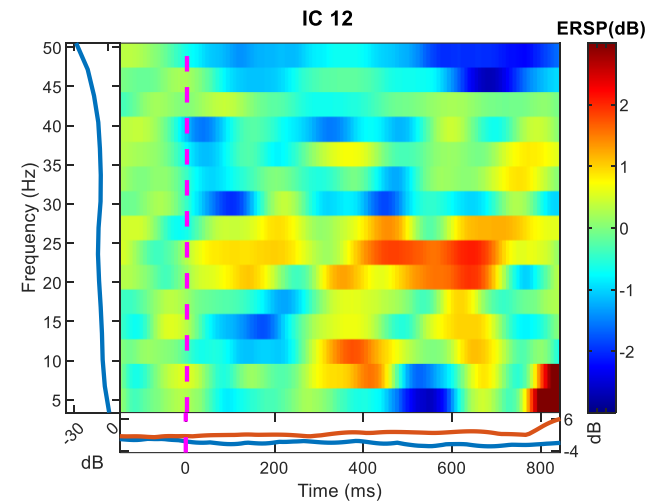
Frontal FC6		
Time(ms)	Alpha	
[0, 100]	desync	
[250, 410]	sync	

108_24
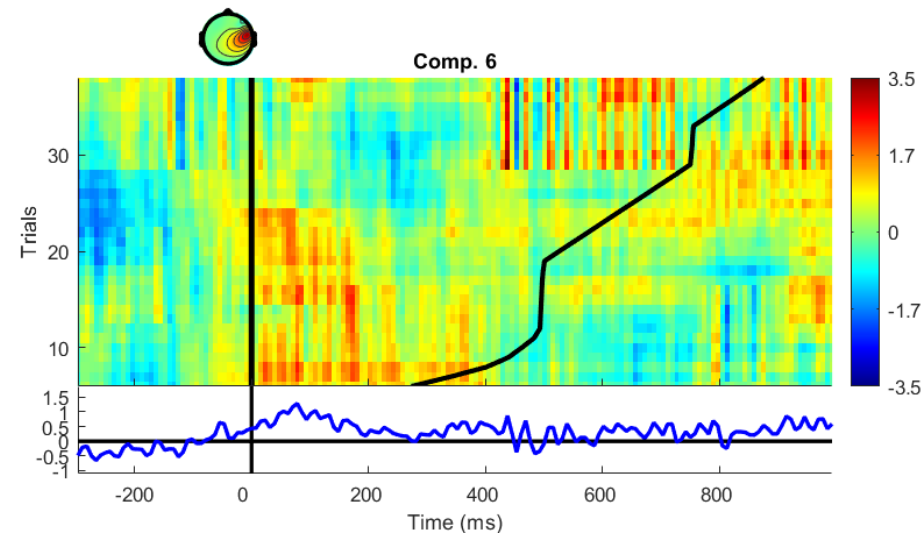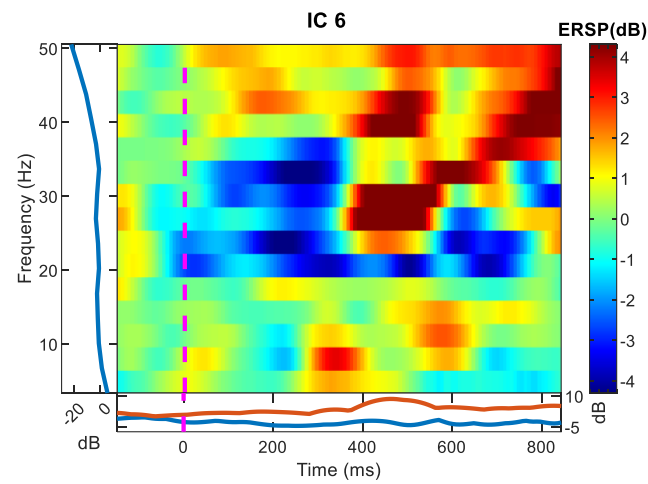
Frontal F4		
Time(ms)	Alpha	
[0, 50]	desync	
[100, 300]	sync	

ERP Image for Component 8
Comp. 8
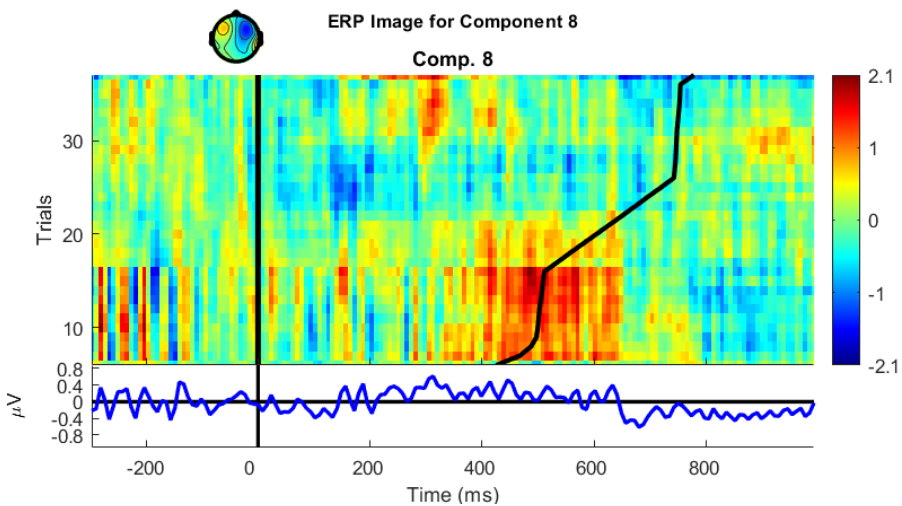
===== All Regions Summary =====
Region: Left-Frontal
Components processed: 10
==p-value (Early vs Middle): 0.0022732 (increase)==
p-value (Middle vs Later): 4.7271635e-08 (decrease)
p-value (Early vs Later): 3.9749173e-06 (decrease)

Region: Right-Frontal
Components processed: 6
p-value (Early vs Middle): 0.31848 (decrease)
p-value (Middle vs Later): 0.4783427 (increase)
p-value (Early vs Later): 0.49005049 (decrease)

No data available for Left-Occipital

No data available for Right-Occipital

No data available for Left-Parietal

No data available for Right-Parietal