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

Subject 118

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.

We will look at alpha power progression

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

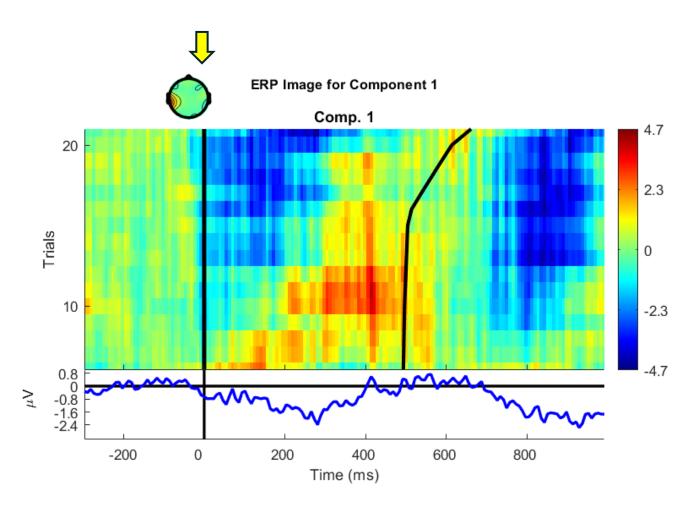
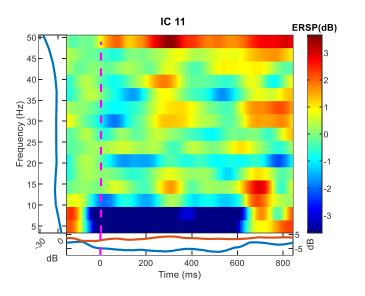
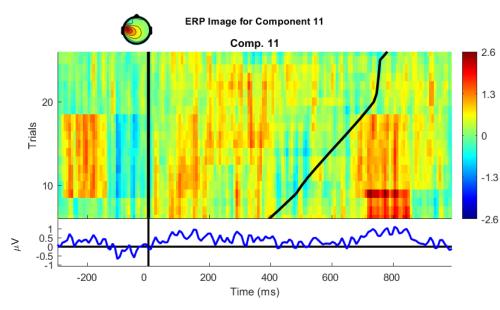


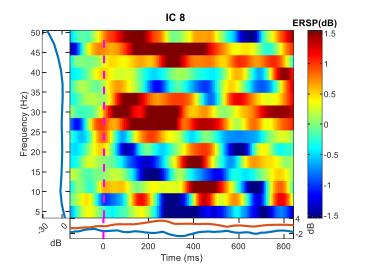
Figure 1. ERP of the 1st component for subject 104 training session 1. Event '7' is the stimulus onset when time = 0ms. Event '6' marks the car's forward movement with a black line, sorted by latency

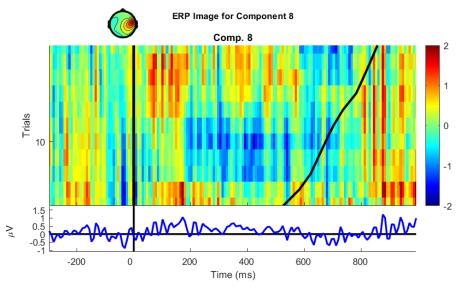
Frontal FC5		
Time(ms)	Alpha	
[0, 50]	desync	
[150, 350]	sync	



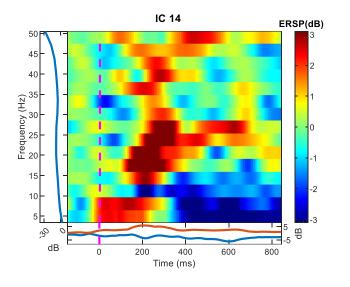


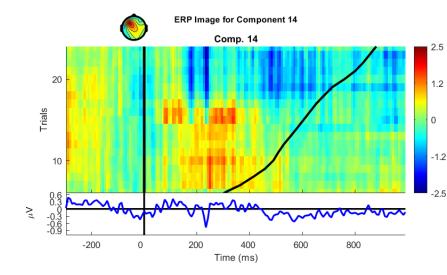
Frontal FC5		
Time(ms)	Alpha	
[0, 50]	desync	
[250, 370]	sync	



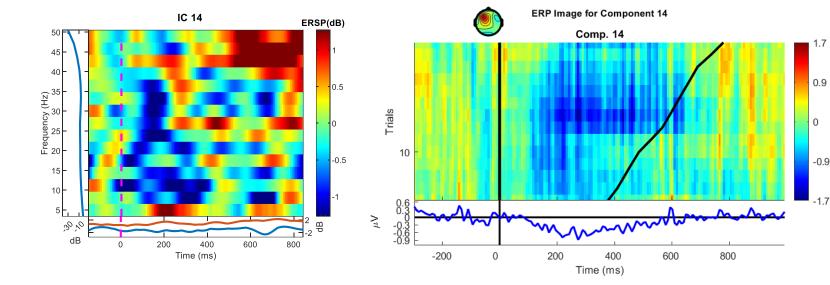


Frontal F3		
Time(ms)	Alpha	
[0, 100]	desync	
[250, 400]	sync	

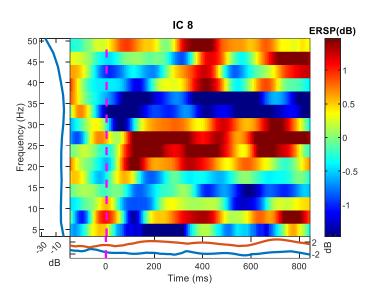


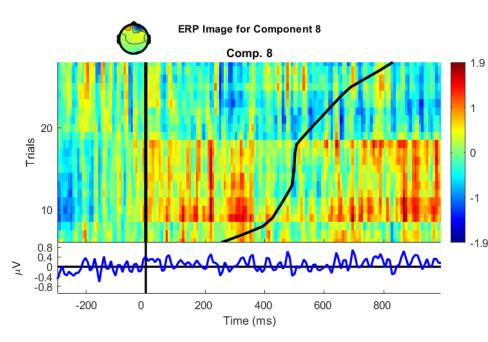


Frontal F3		
Time(ms)	Alpha	
[0, 50]	desync	
[150, 350]	sync	

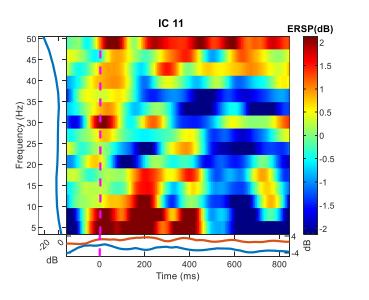


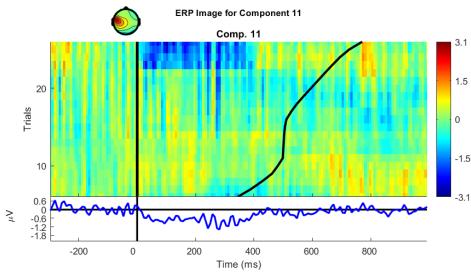
Frontal AF4			
Time(ms) Alpha			
[0, 50]	desync		
[50, 200]	sync		



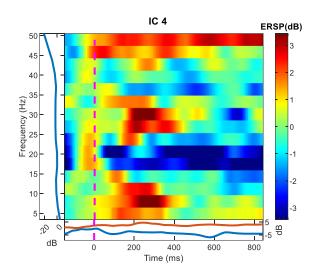


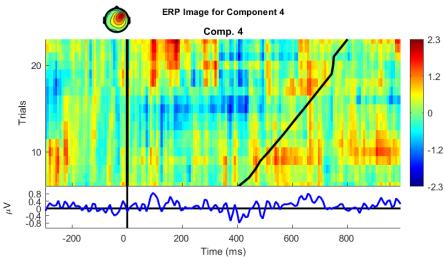
Frontal FC5		
Time(ms)	Alpha	
[0, 50]	desync	
[150, 250]	sync	



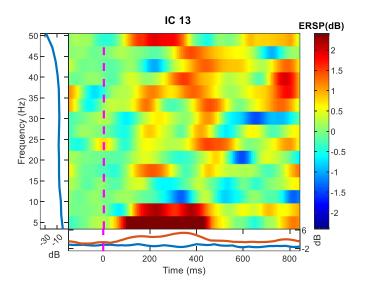


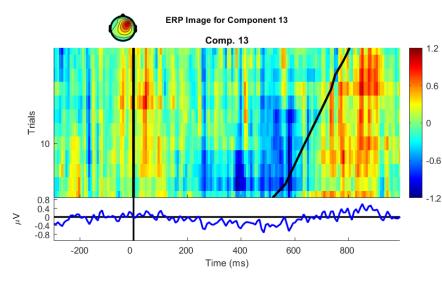
Frontal F4		
Time(ms)	Alpha	
[0, 50]	desync	
[150, 350]	sync	



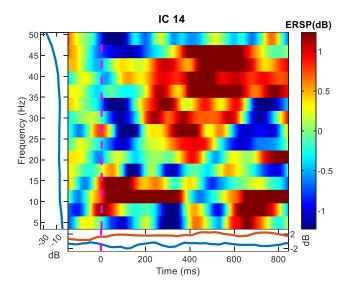


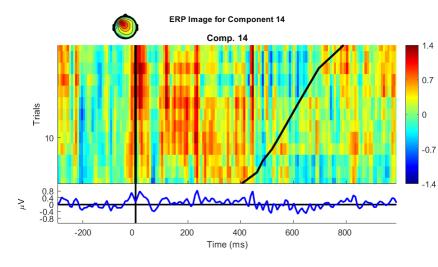
Frontal F4		
Time(ms)	Alpha	
[0, 50]	desync	
[150, 350]	sync	



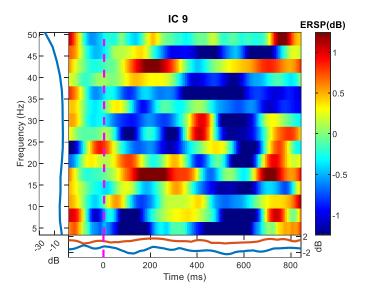


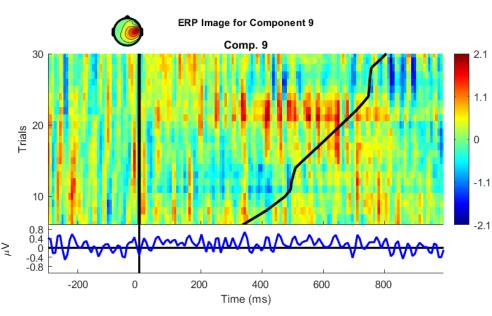
Frontal FC5		
Time(ms)	Alpha	
[0, 50]	desync	
[150, 250]	sync	



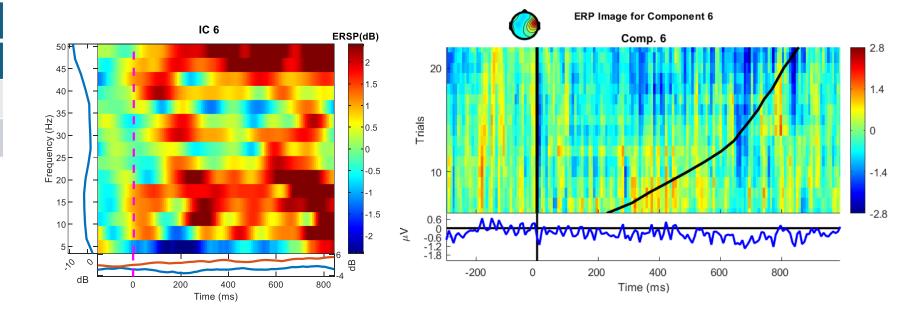


Frontal FC6		
Time(ms)	Alpha	
[0, 50]	desync	
[200, 400]	sync	



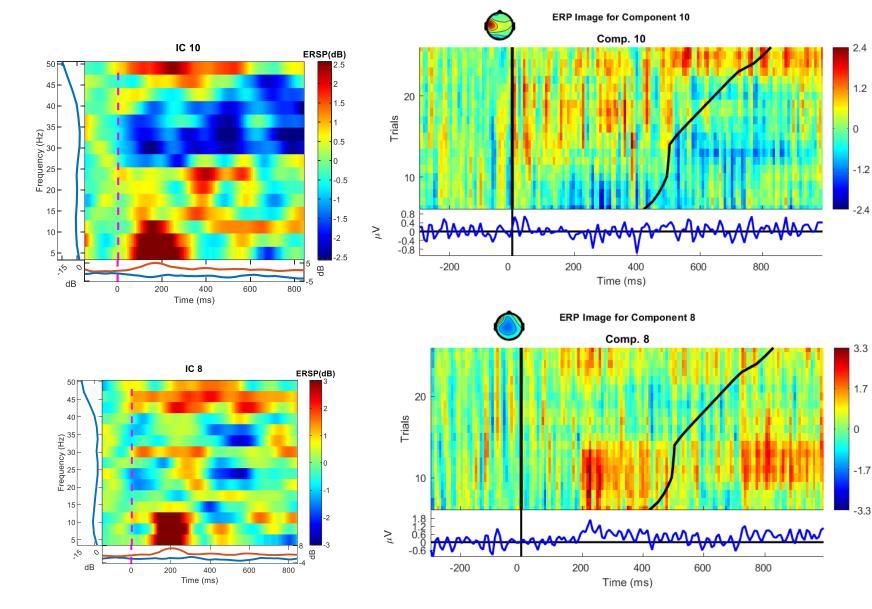


Frontal FC6			
Time(ms) Alpha			
[0, 50]	desync		
[200, 400]	sync		



Frontal FC5		
Time(ms)	Alpha	
[0, 50]	desync	
[150, 350]	sync	

Frontal F7		
Time(ms)	Alpha	
[0, 50]	desync	
[150, 350]	sync	



==== All Regions Summary =====

Region: Left-Frontal

Components processed: 8

p-value (Early vs Middle): 3.7532e-12 (decrease)

p-value (Middle vs Later): 1.015574e-13 (increase)

p-value (Early vs Later): 0.039355972 (increase)

Region: Right-Frontal

Components processed: 5

p-value (Early vs Middle): 0.06997 (increase)

p-value (Middle vs Later): 0.029055235 (increase)

p-value (Early vs Later): 0.0006968766 (increase)

No data available for Left-Temporal

No data available for Right-Temporal

No data available for Left-Occipital

No data available for Right-Occipital

No data available for Left-Parietal

No data available for Left-Parietal

No data available for Right-Parietal