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

Subject 107

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

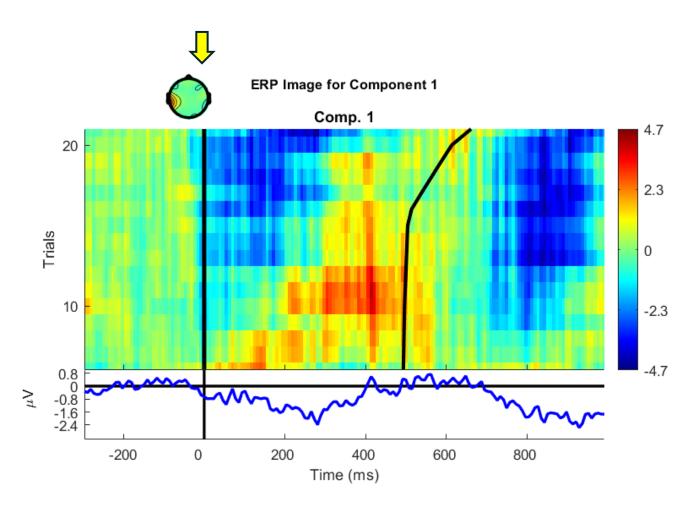
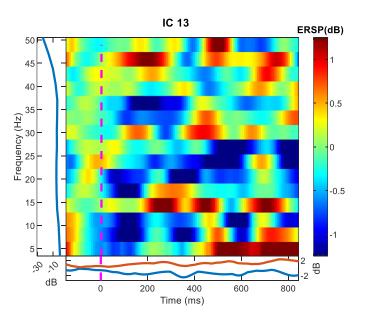
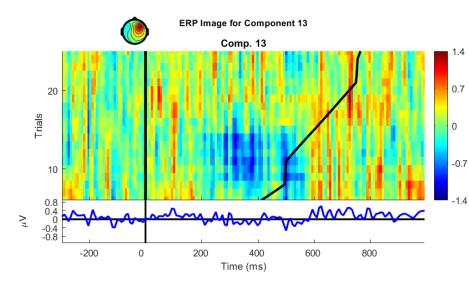


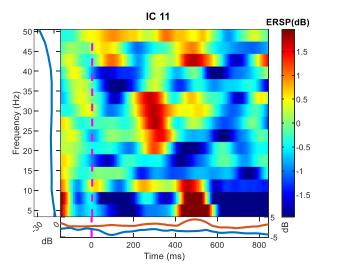
Figure 1. ERP of the 1st component for subject 104 training session 1. Event '7' is the stimulus onset when time = 0ms. Event '6' marks the car's forward movement with a black line, sorted by latency

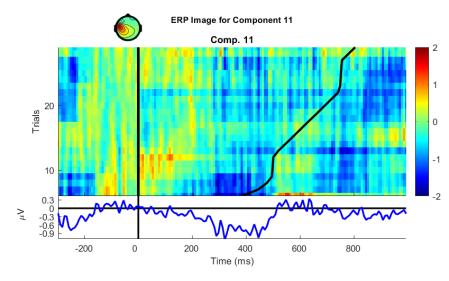
Frontal F4		
Time(ms)	Alpha	
[-50, 100]	desync	
[200, 400]	sync	





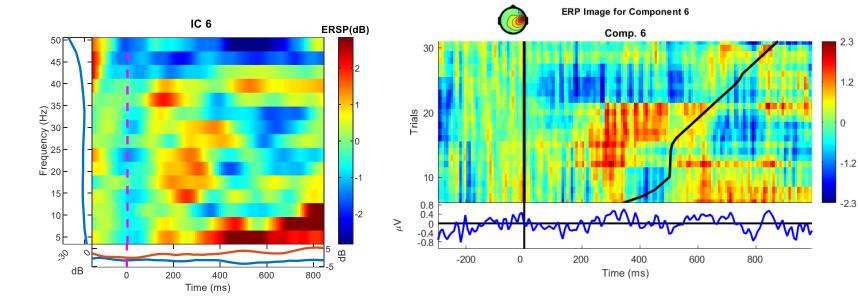
Frontal FC5		
Time(ms)	Alpha	
[-50, 100]	desync	
[200, 400]	sync	

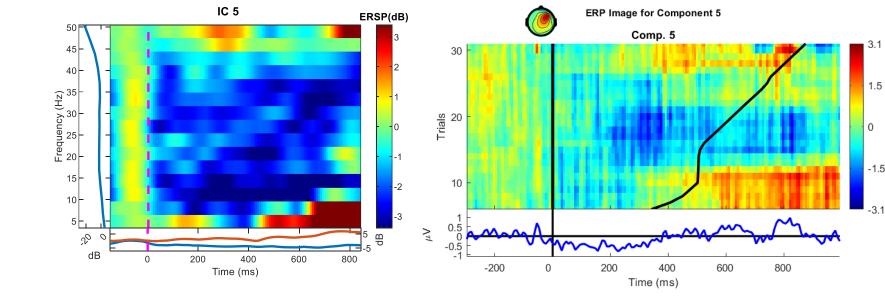




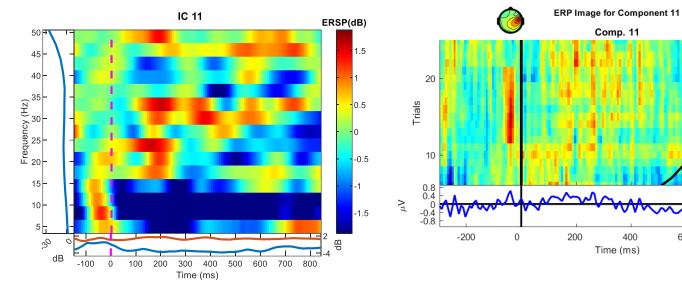
Frontal FC6		
Time(ms)	Alpha	
[-50, 100]	desync	
[150, 390]	sync	

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

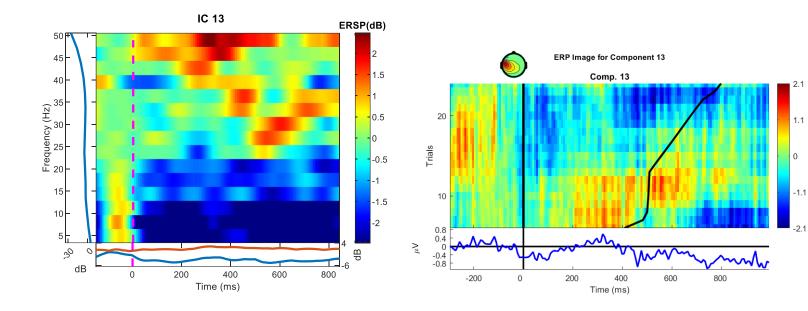




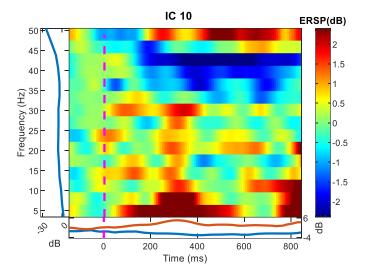
Frontal FC6		
Time(ms)	Alpha	
[0, 100]	desync	
[200, 400]	desync	

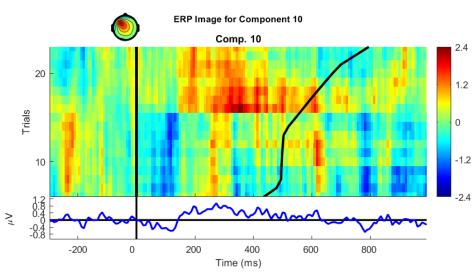


Frontal FC5		
Time(ms)	Alpha	
[0, 100]	desync	
[200, 400]	desync	

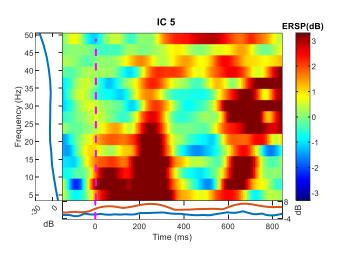


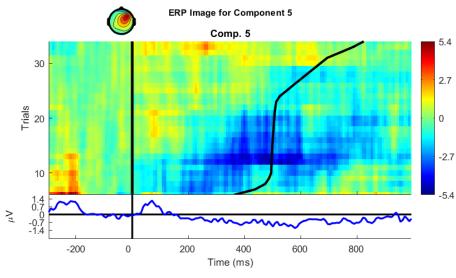
Frontal F3		
Time(ms)	Alpha	
[-50, 50]	desync	
[200, 400]	sync	



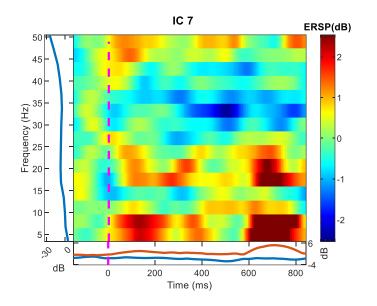


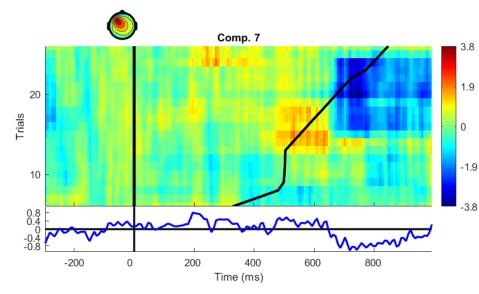
Frontal F4		
Time(ms)	Alpha	
[0, 100]	sync	
[200, 400]	sync	



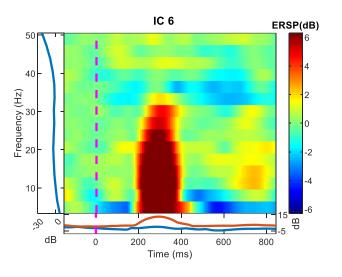


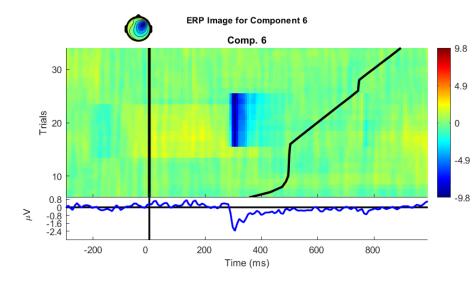
Frontal F3		
Time(ms)	Alpha	
[0, 200]	sync	
[200, 400]	sync	



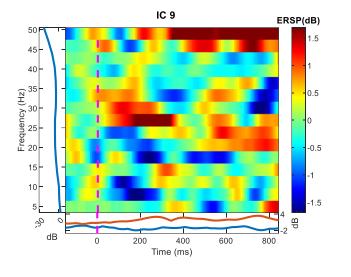


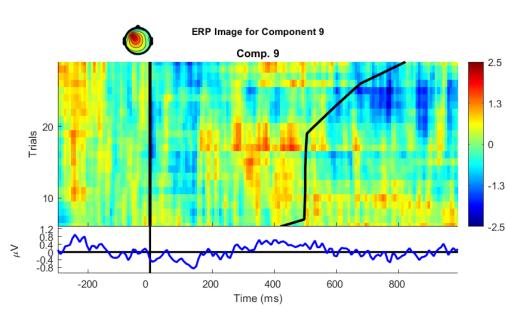
Frontal F4		
Time(ms)	Alpha	
[0, 100]	desync	
[200, 400]	sync	



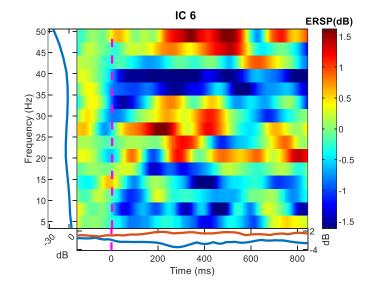


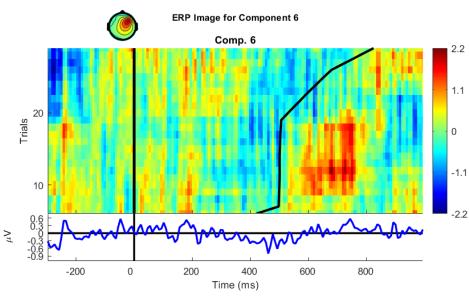
Frontal F3		
Time(ms)	Alpha	
[0, 100]	desync	
[300, 500]	sync	



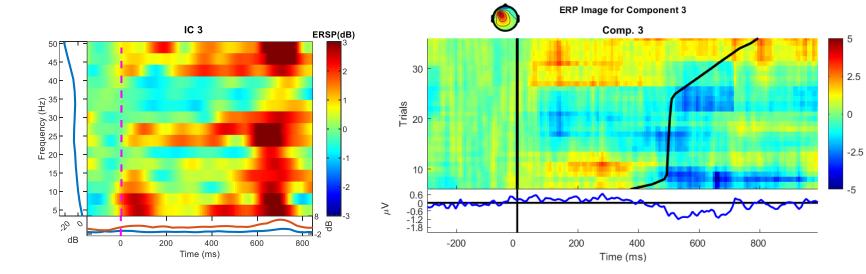


Frontal F4		
Time(ms)	Alpha	
[0, 100]	desync	
[200, 400]	sync	

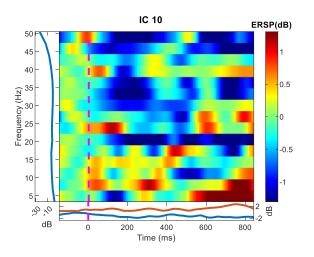


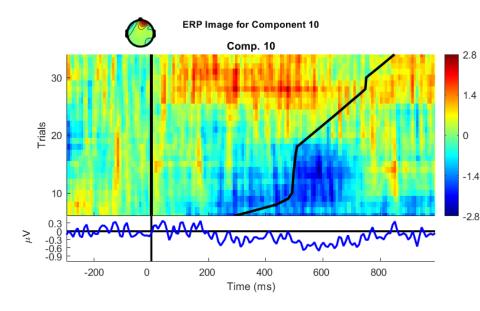


Frontal F3		
Time(ms)	Alpha	
[0, 200]	sync	
[400, 800]	sync	



Frontal AF4			
Time(ms)	Alpha		
[-50, 100]	desync		
[200, 400]	sync		





==== All Regions Summary ===== Region: Left-Frontal Components processed: 6 p-value (Early vs Middle): 0.0078223 (increase) p-value (Middle vs Later): 0.0015537354 (decrease) p-value (Early vs Later): 0.57339117 (decrease) Region: Right-Frontal Components processed: 9 p-value (Early vs Middle): 0.0010182 (decrease) p-value (Middle vs Later): 0.004624703 (increase) p-value (Early vs Later): 0.86550305 (increase) Region: Left-Temporal Components processed: 0 p-value (Early vs Middle): NA p-value (Middle vs Later): NA p-value (Early vs Later): NA Region: Right-Temporal Components processed: 0 p-value (Early vs Middle): NA p-value (Middle vs Later): NA p-value (Early vs Later): NA

Region: Left-Occipital Components processed: 0 p-value (Early vs Middle): NA p-value (Middle vs Later): NA p-value (Early vs Later): NA Region: Right-Occipital Components processed: 0 p-value (Early vs Middle): NA p-value (Middle vs Later): NA p-value (Early vs Later): NA Region: Left-Parietal Components processed: 0 p-value (Early vs Middle): NA p-value (Middle vs Later): NA p-value (Early vs Later): NA Region: Right-Parietal Components processed: 0 p-value (Early vs Middle): NA p-value (Middle vs Later): NA p-value (Early vs Later): NA