

Report of LFP Analysis In saccade conditions

We have separated our complete data set for both vIPFC and SNr regions into 8 conditions:

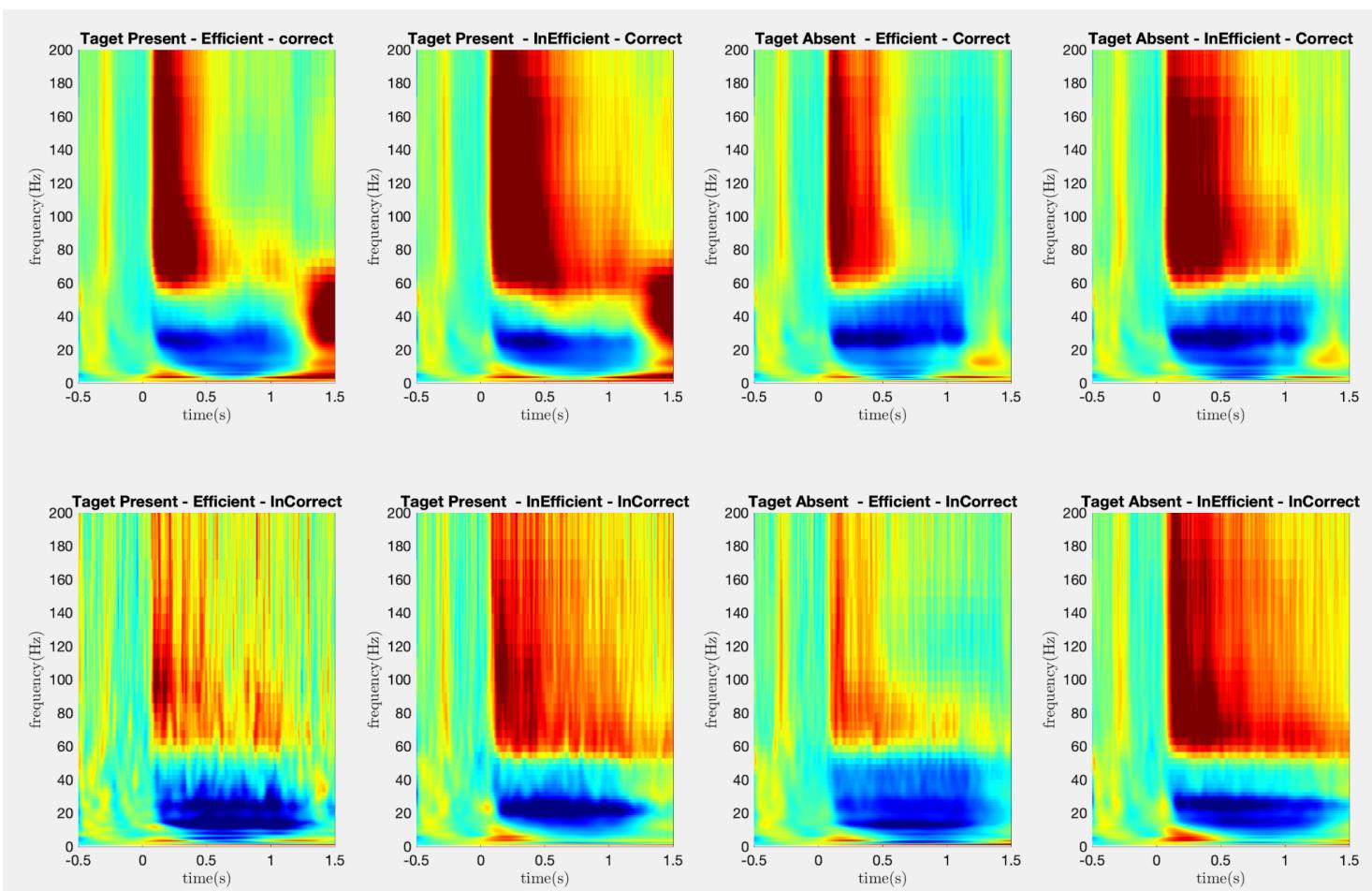
1) Trial Type: 1-Target Present 2- Target Absent

2) Search Type : 1-Efficient 2-Inefficient

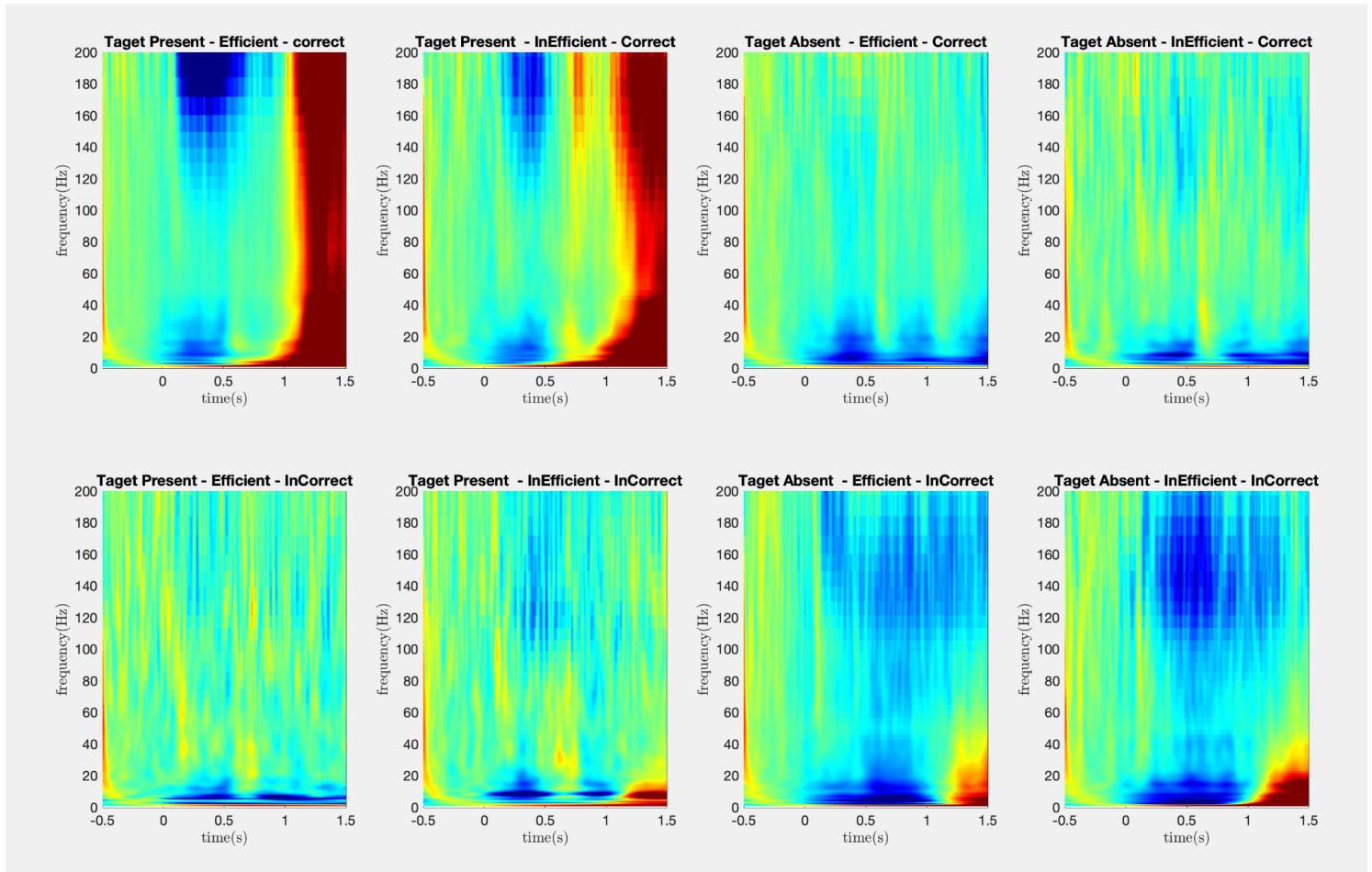
3) Accuracy of choice: 1-Correct 2-Incorrect

Here is the LFP analysis of these conditions. The condition of each plot is specified in its title:

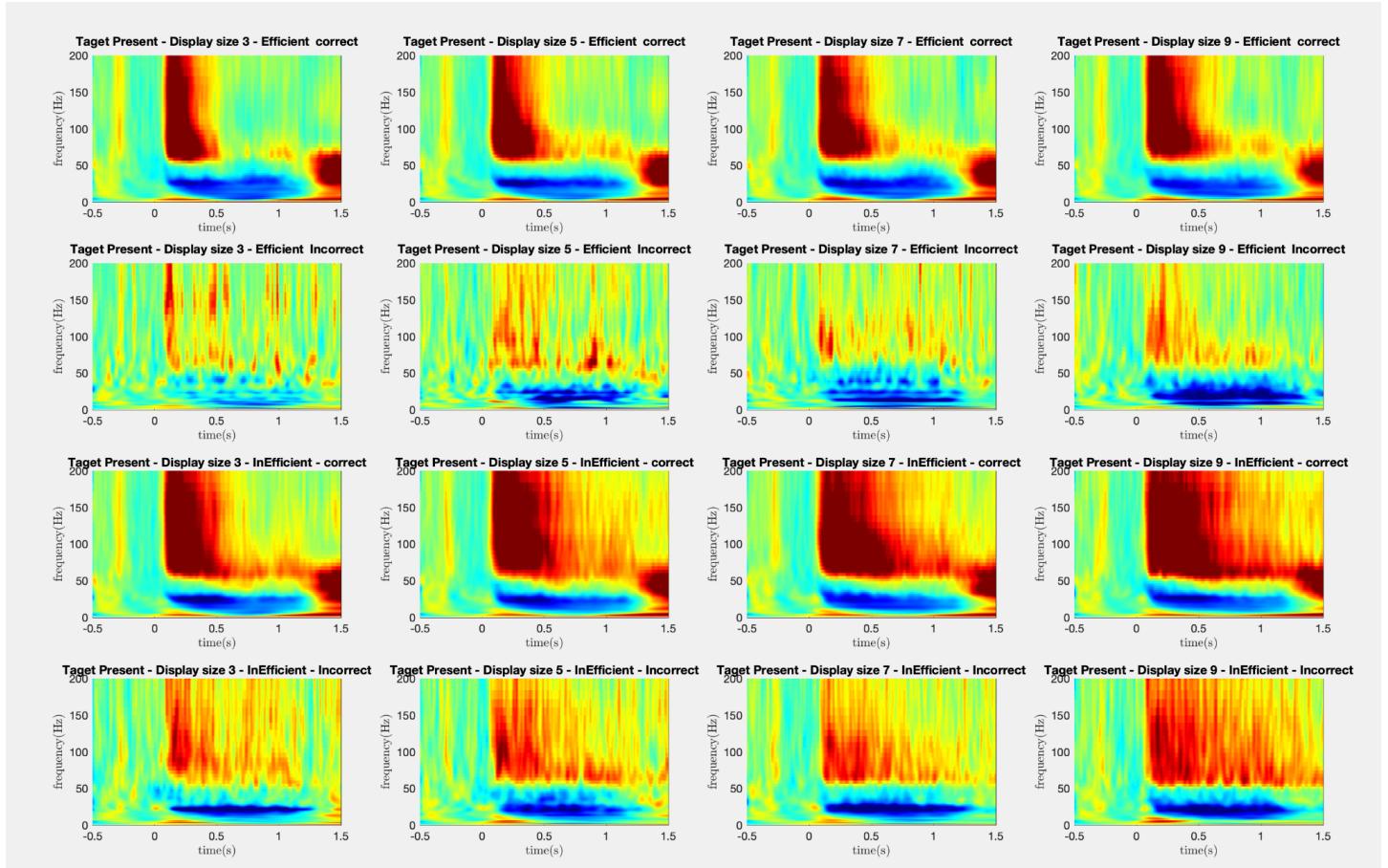
vIPFC - Efficient : n=190 Inefficient : n=180



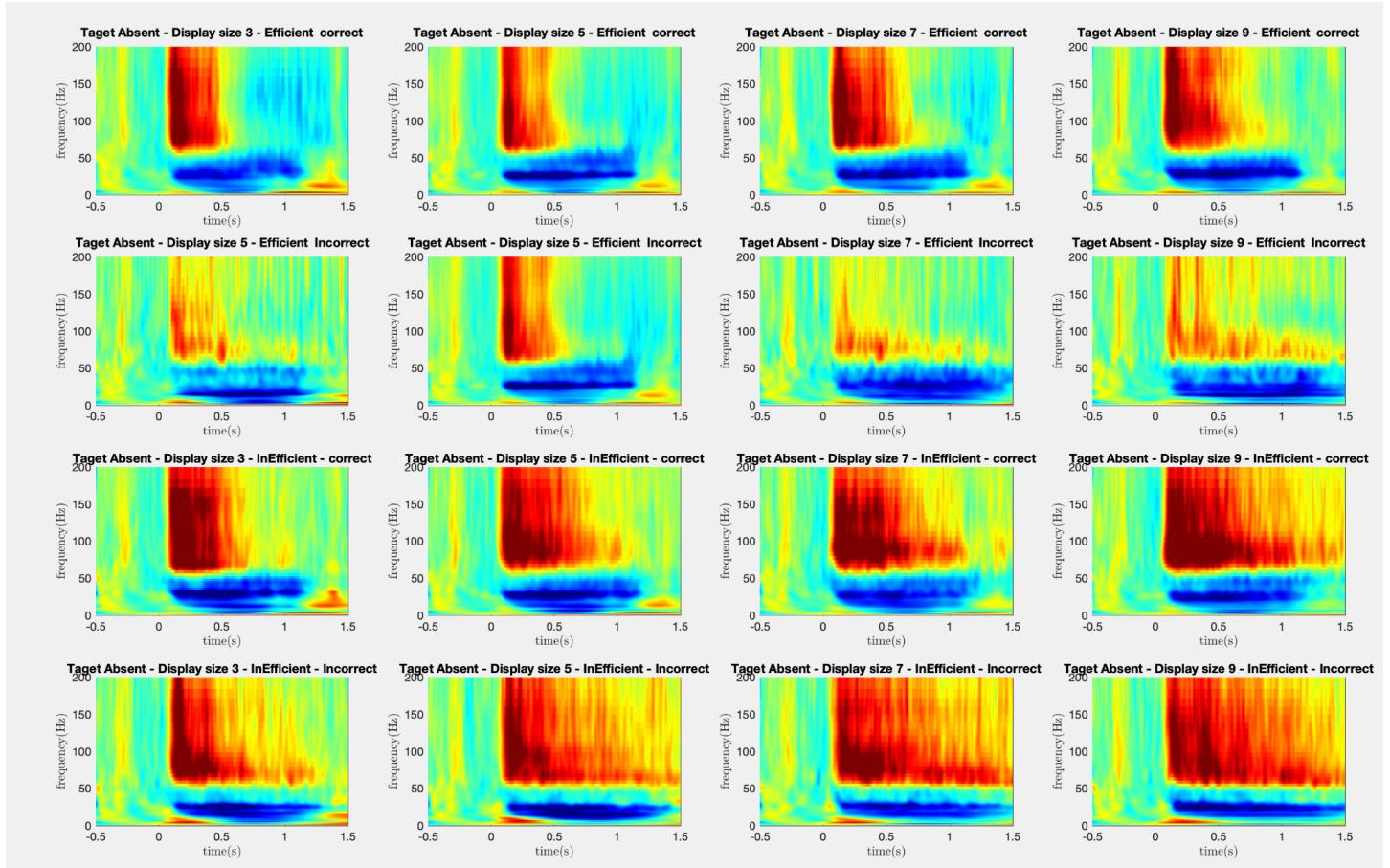
SNr - Efficient : n=31 Inefficient : n=22



**Now we can add the condition of display sizes to our analysis:
vIPFC:
ALL TP trials:**

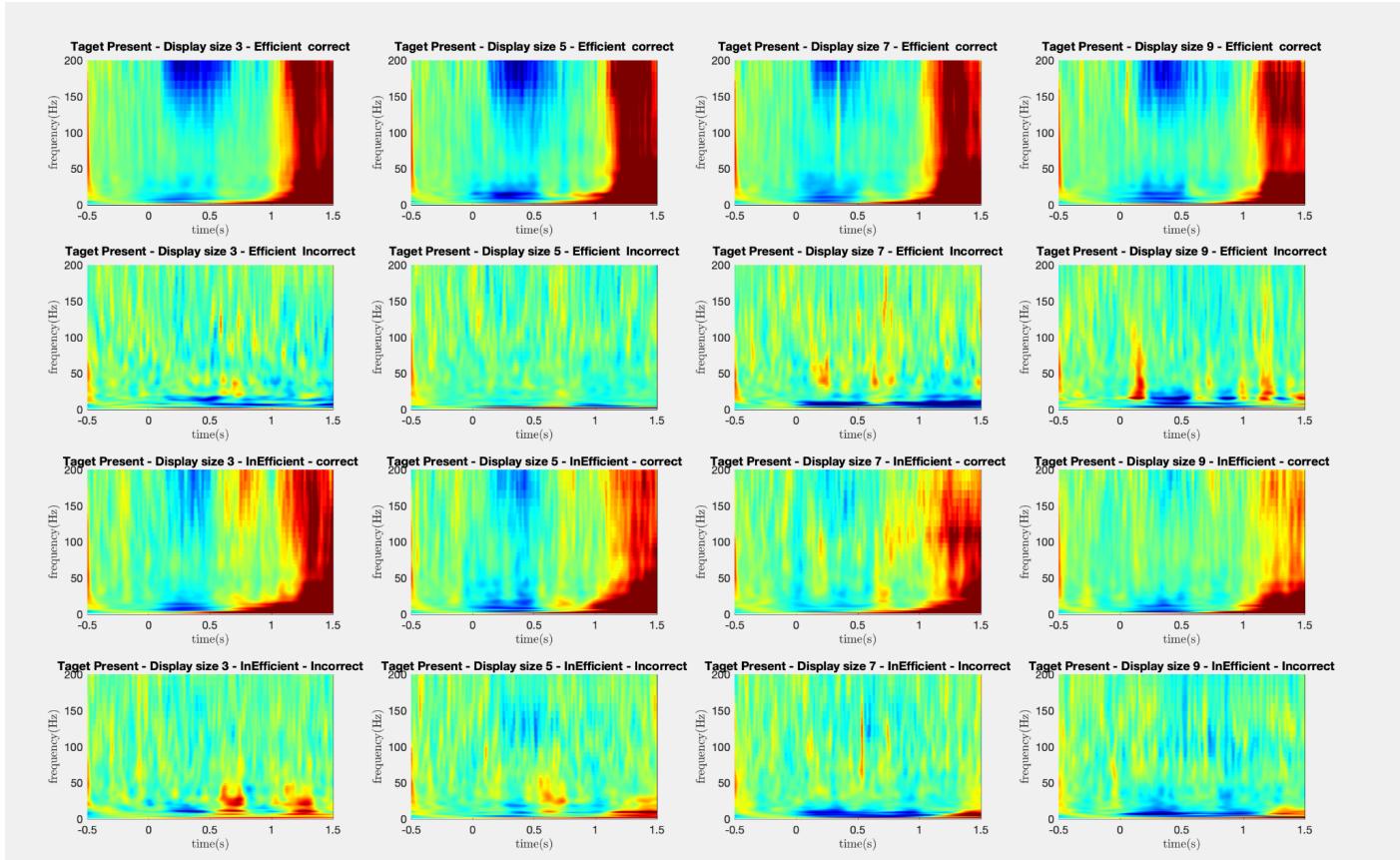


ALL TA trials:

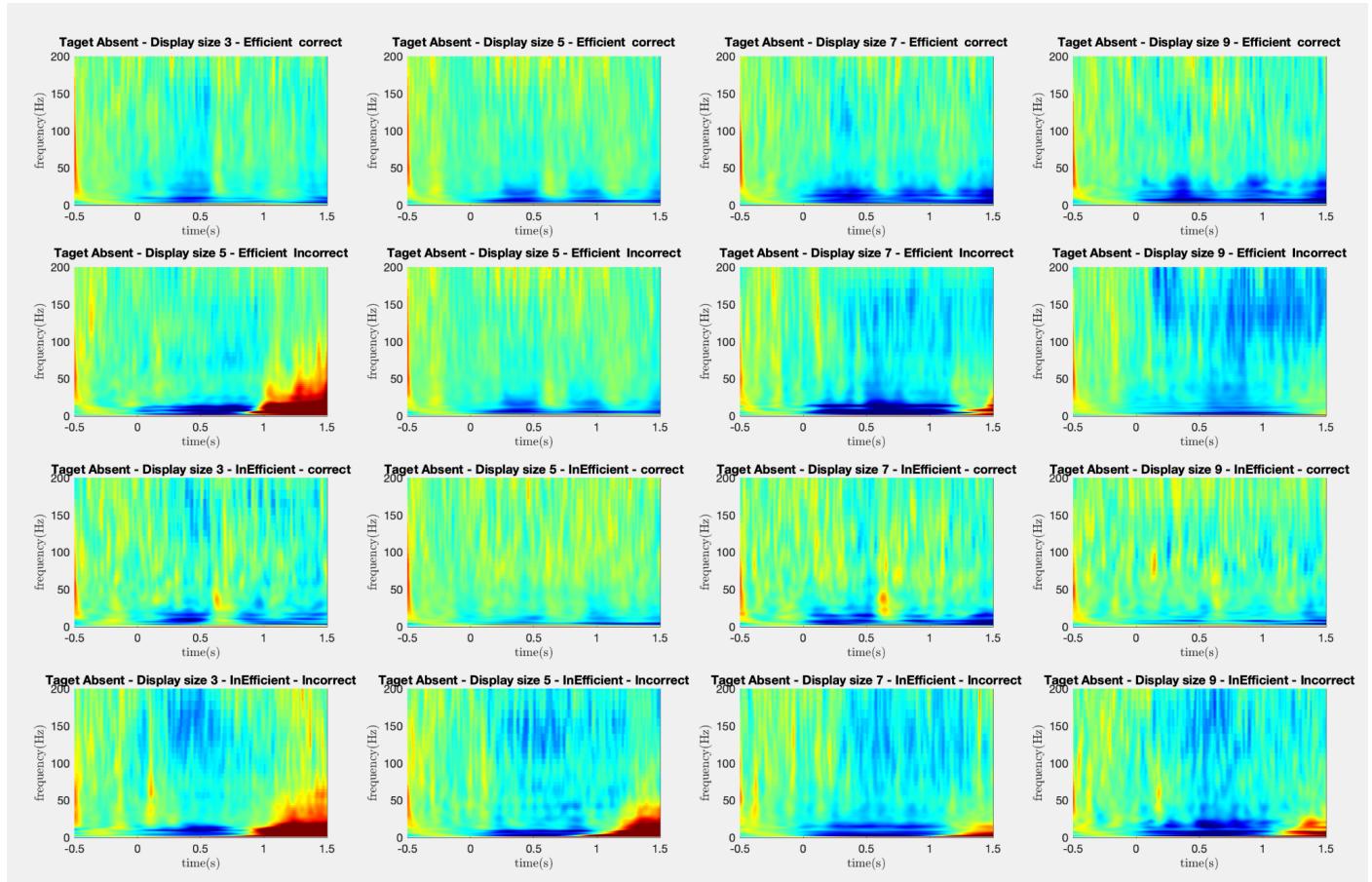


SNr:

ALL TP trials:



ALL TA trials:



Supplementary

In this section we want to start working with LFP analysis following our previous results of PSTH analysis to investigate neural activities in saccade conditions.

Local Field potential:

This signal metric measures subthreshold activity due to synaptic inputs from the population of neurons. This measurement is typically around the frequencies between 1-300 Hz.

The way that both spikes and LFP are separated in a single cell recording is based on the filtering range of recorded signals.

