Communication Systems Design

Lab 7: LTE-Cell-Scanner

Dr. Wu Guang

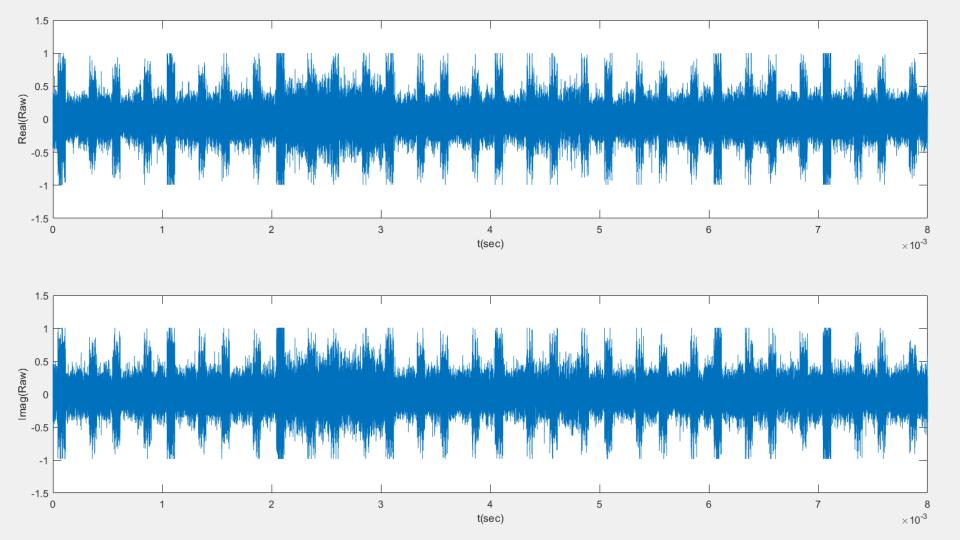
Email: wug@sustech.edu.cn

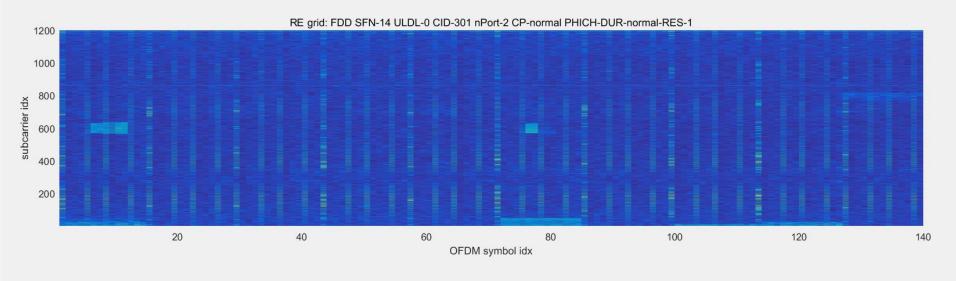
Electrical & Electronic Engineering Southern University of Science and Technology

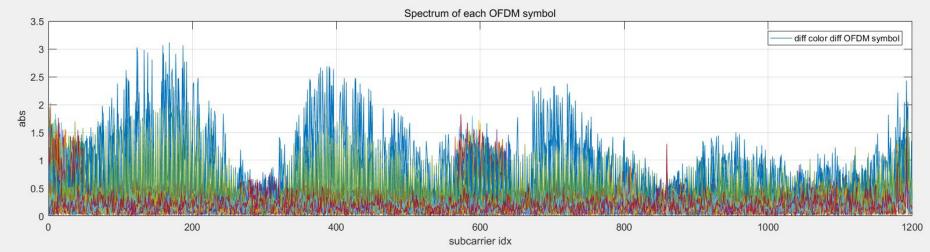


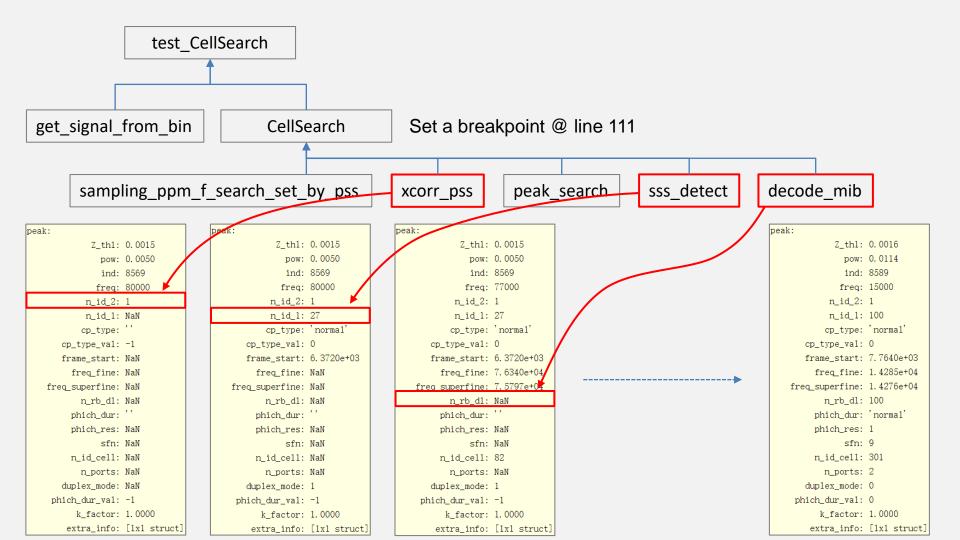




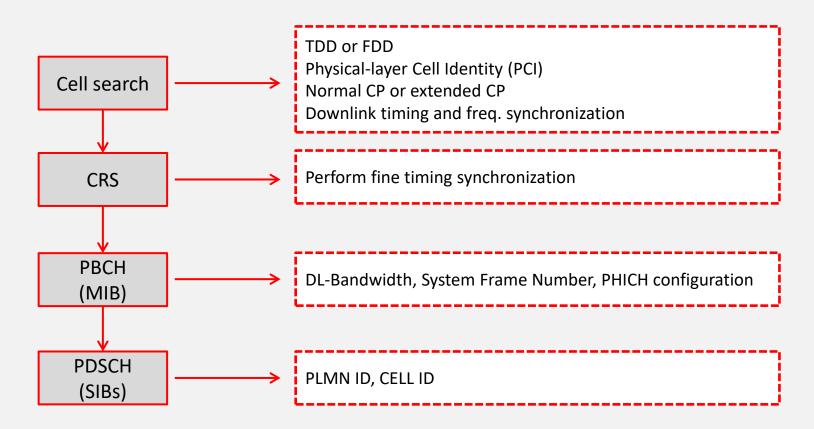


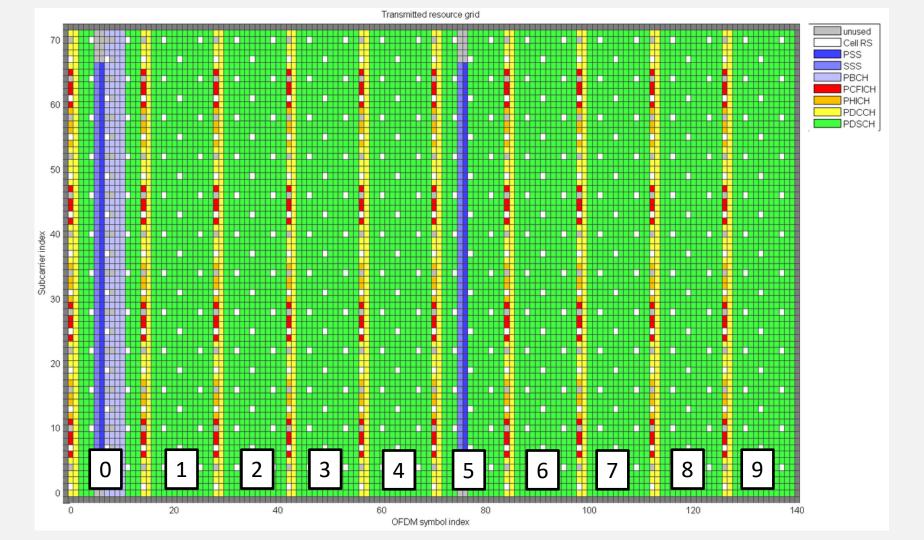


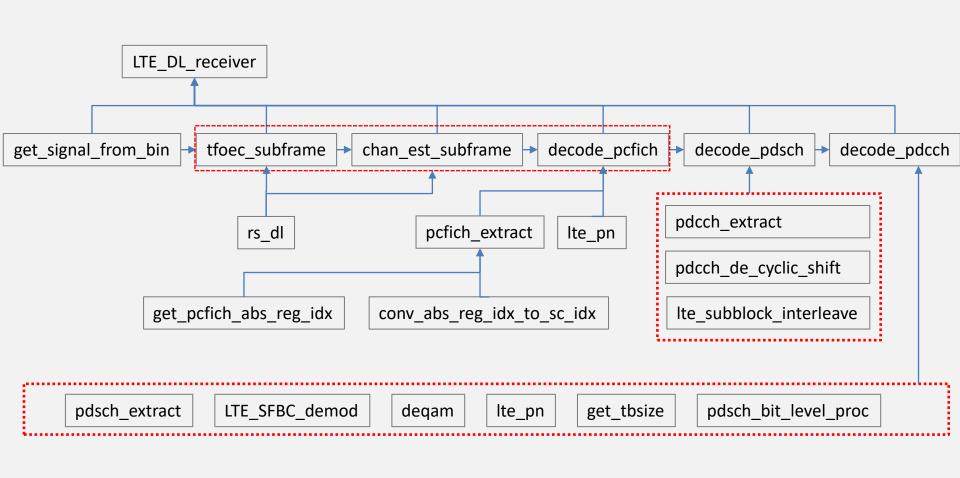


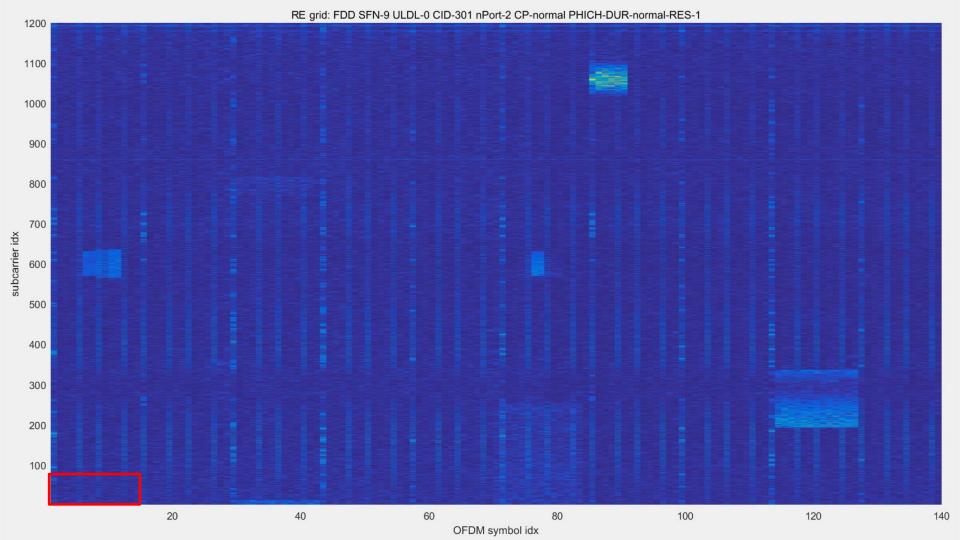


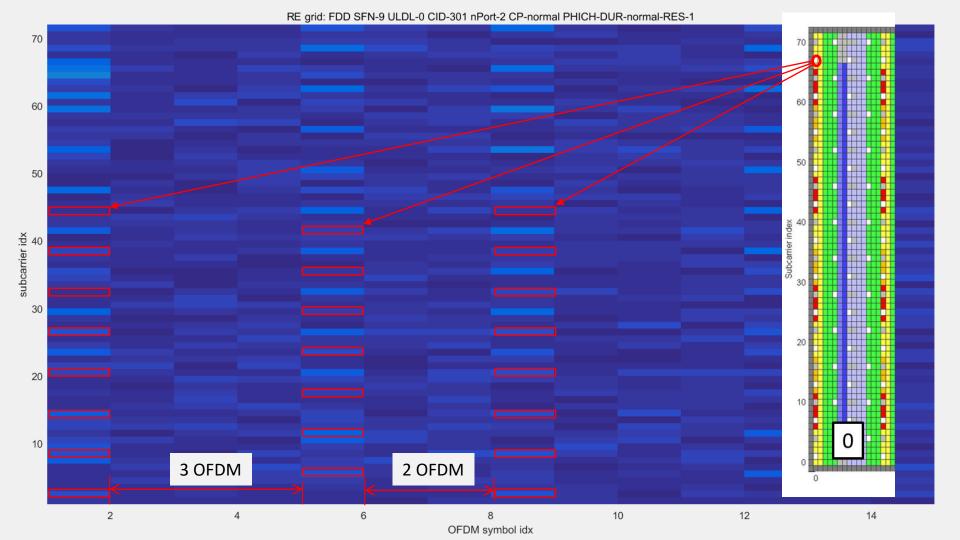
Flow chart of received signal processing

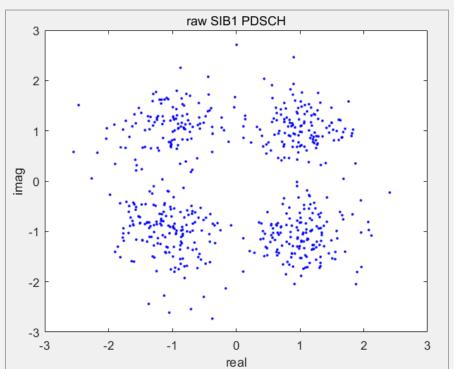


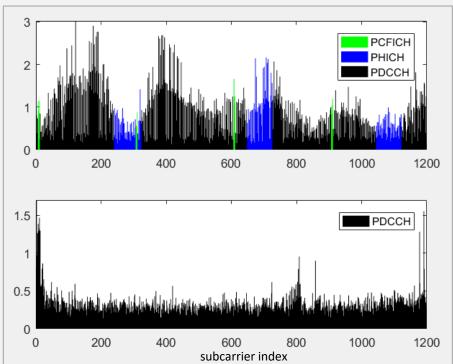










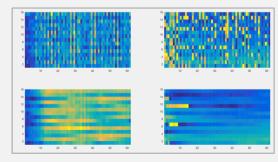


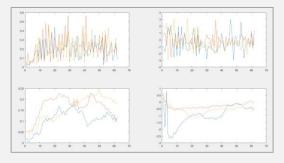
Assignments

Read the example 'An enhanced LTE Cell Scanner/tracker' in the website: https://github.com/JiaoXianjun/LTE-Cell-Scanner

- Explain and add comments to the function, sss_detect.m (Comments one-by-one line)
- Explain the results, such as the sub figures.

Lots of captured IQ files are in:
https://github.com/JiaoXianjun/LTE-Cell-Scanner-big-file





Questions



