

Lab 7

Field Measurements

In this experiment you explore the *Channel Scanner* capability of the Keysight FieldFox N9914A. To get started add attach a *log periodic* antenna to the spectrum analyzer input.

This is a future lab where you will take N9914A around campus to explore WiFi traffic.

- Scanning the 2.4 GHz WiFi Channels

The 2.4 GHz WiFi channels consist of a set of overlapping bands running from 2.412 GHz to 2.484 GHz, each having a maximum bandwidth of 22 MHz. Figure X, shown below depicts

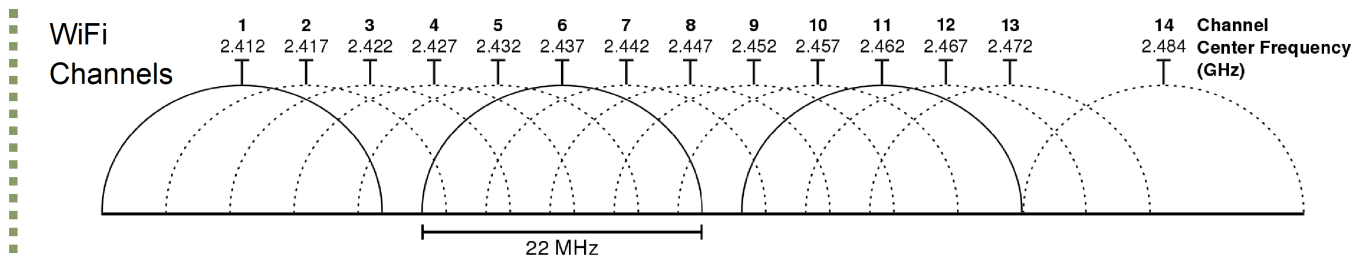


Figure X: The 2.4 GHz unlicensed WiFi spectral allocation.

What next?

What to say about doppler.