01QZD
Laboratorio di Internet e Comunicazioni

Comunicazioni

LAB #3.2

Using Matlab and the SDR receiver implement a RF spectrum analyzer.

Properly select parameters in order to analyze a given spectral region observing channel transmitted.

Select at least one service who is based on frequency division multiplexing FDM (FM radio, DAB, DVB-T, GSM, UMTS, etc) and scan the spectrum to verify number of channels, channel bandwidth, guardbands, etc.

FM radio: http://radiomap.eu/it/torino

DVB-T: http://www.dtti.it/frequenze/frequenze-piemonte/

GSM-UMTS:

https://www.frequencycheck.com/countries/italy

https://en.wikipedia.org/wiki/UMTS_frequency_bands

https://en.wikipedia.org/wiki/GSM_frequency_bands