

P/L3 Statistical pulsed signal characterization Procedure

Objectives

Characterize the capacity of the RFI Monitoring system to detect pulsed signals by statistical algorithms.

Steps to follow

- Turn on equipment
 - Power supply
 - Signal generator
 - Configure to desired parameters
 - Power supply
 - Set Voltage to 3.3V
 - Set current limit to 0.3A
 - Signal generator
 - Set output frequency to some IF Band frequency periodic pulsed signals
 - Set up nucleo board and PC
 - Make sure the proper code is loaded into the nucleo board
 - Make connections
 - Connect the power supply to the payload:
 - Vcc to PoL (RED)
 - GND to GND (BLACK)
 - Connect the DAC output to the DAC_In (GREEN)
 - Connect the ADC input to the ADC_Out
 - Load the IF Input with a 50 Ohm perfectly matched load.
- Captura.PNG
- Connect PC to ground (plug in the charger).
 - Connect nucleo board to computer by USB.
- Power on power supply.
 - Begin the measurements procedure
 - Run the flashed program in Debug mode.

- Once the program stops at the breakpoint, collect the calculated mean and plot it in a data processing software like Matlab.
 - Analyze the collected data.
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