

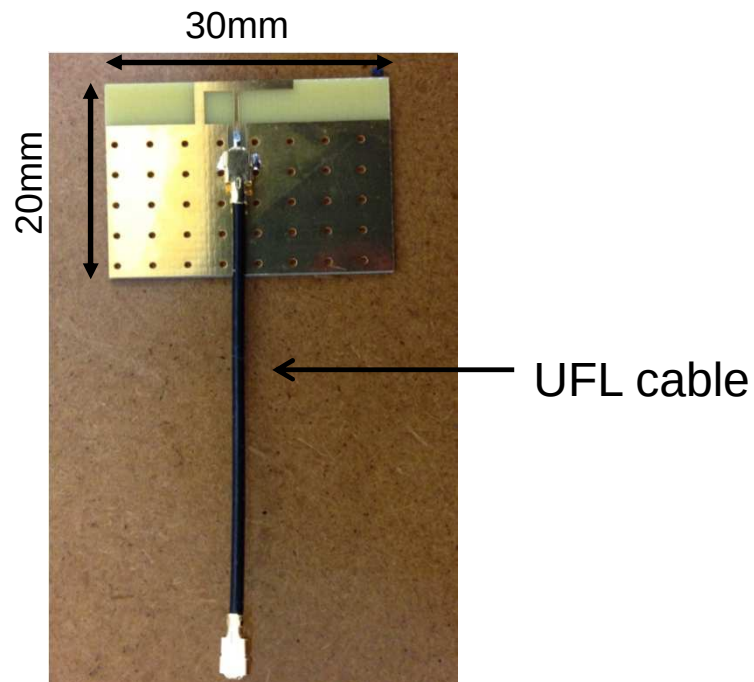


# 5GHz external antenna: 3D radiation pattern

# Description of the measured antenna



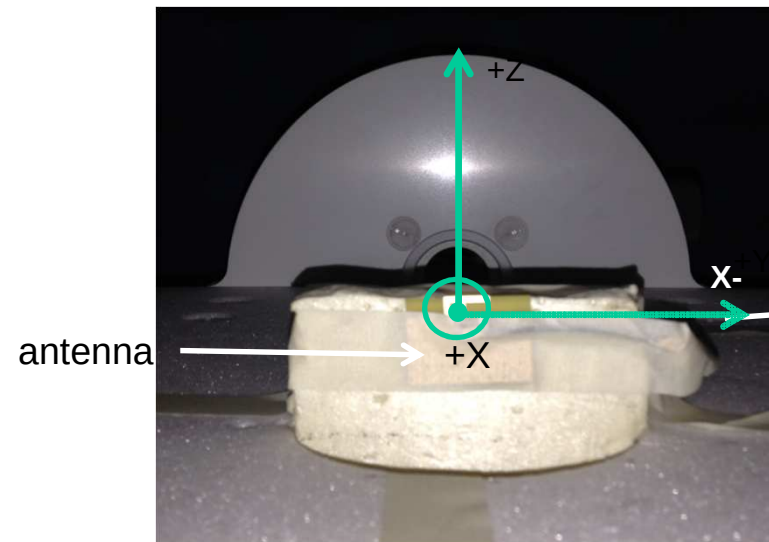
- The measured antenna is an Inverted F Antenna for [5.15GHz-5.85GHz] band
- The antenna is fed by an 50mm UFL cable



# Measurement setup



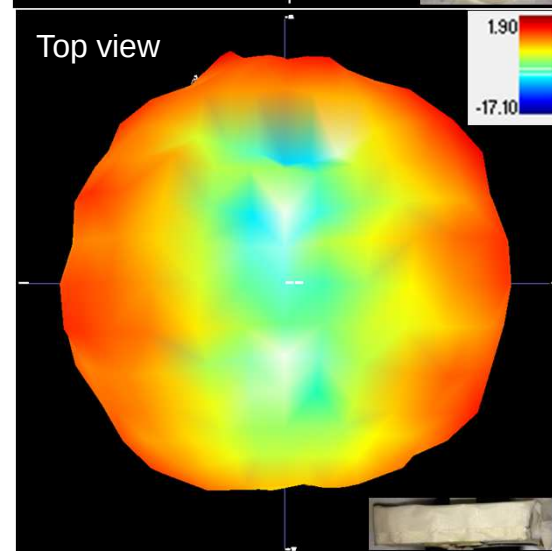
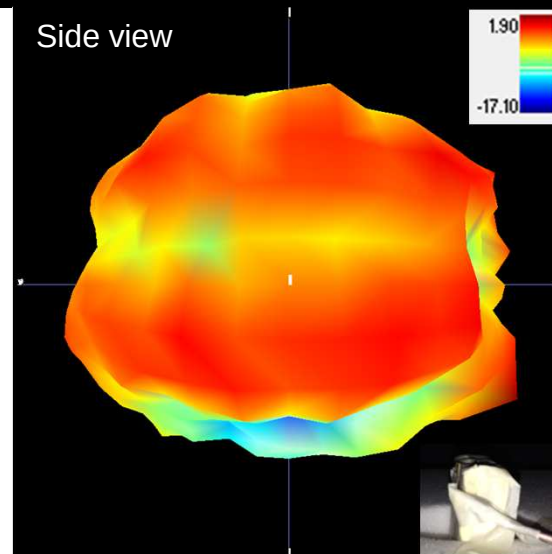
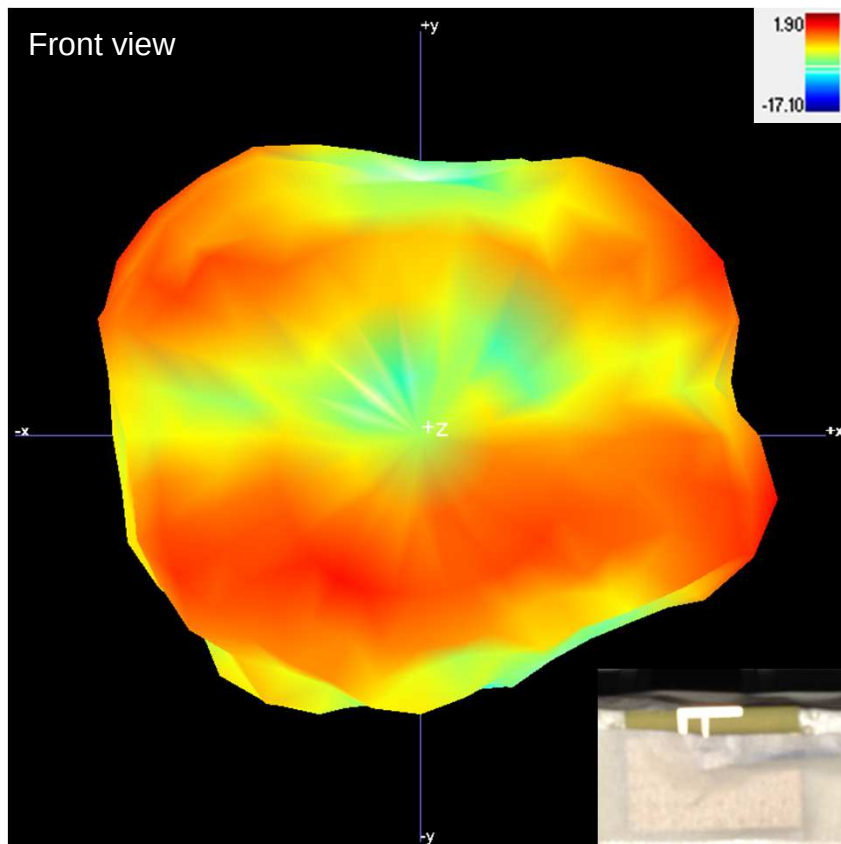
- The measurement was made at Parrot radio test laboratory, with Diarray3D system.
- The antenna was connected to a CW signal generator (R&S SMB100A), signal power=10dBm.
- Angular resolution is :  $10^\circ$
- Measurement uncertainty :  $\pm 1\text{dB}$



# IFA 5GHz: 3D radiation pattern @5150 MHz



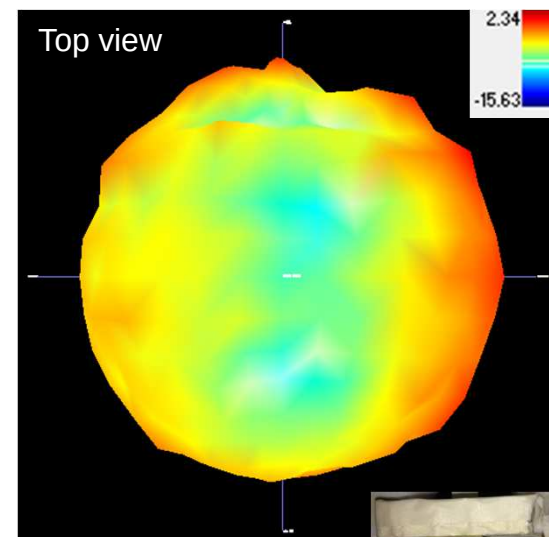
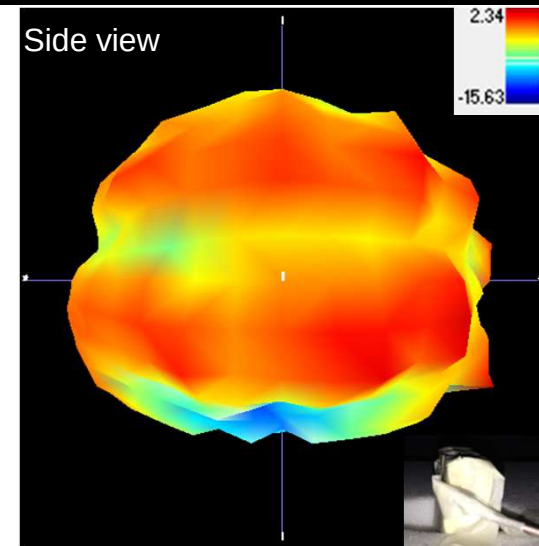
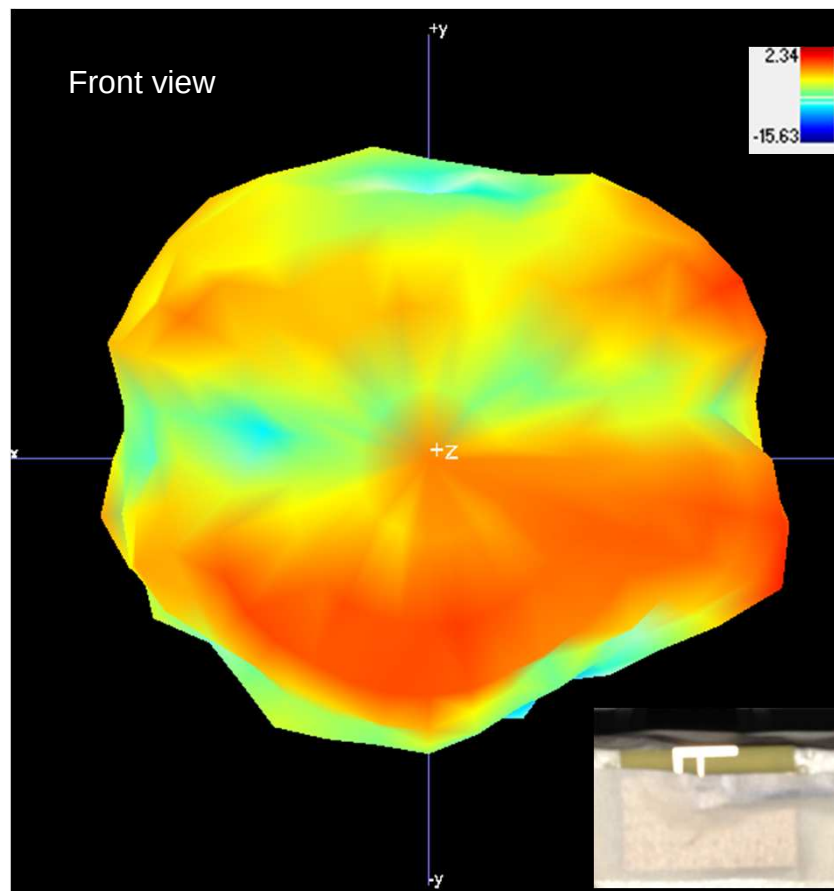
Max gain = 1.9dBi  
Min gain = -17.1dBi  
Mean gain = - 4dBi



# IFA 5GHz: 3D radiation pattern @5500 MHz



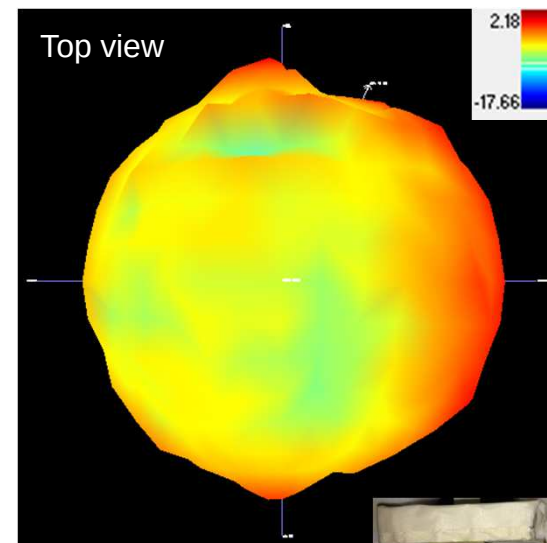
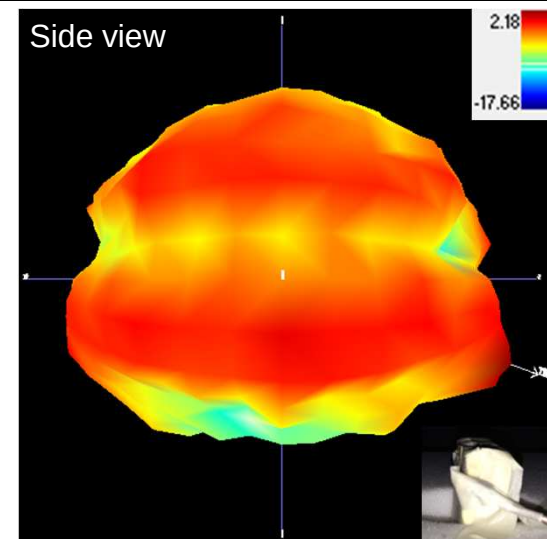
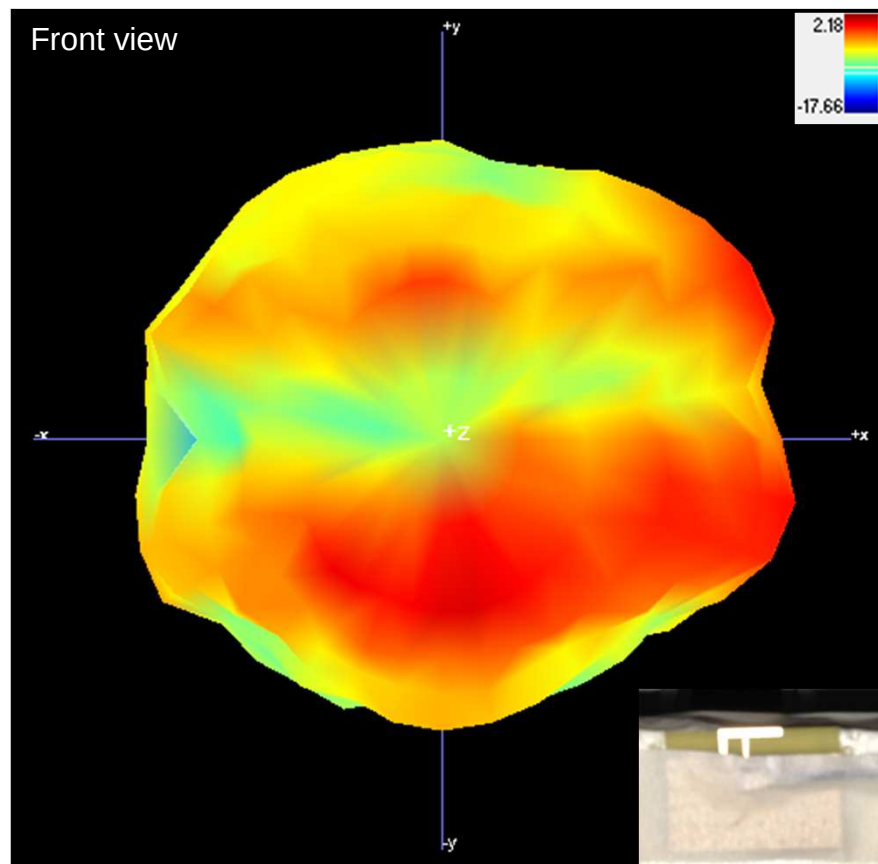
Max gain = 2.34dBi  
Min gain = -15.63dBi  
Mean gain = -3.72dBi



# IFA 5GHz: 3D radiation pattern @5850 MHz



Max gain = 2.18dBi  
Min gain = -17.66dBi  
Mean gain = -4dBi





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