

Antenna Report

Frequency range of operation:

Wi-Fi Antenna:

- Wi-Fi: 2.4 to 2.482 GHz and 5.15 to 5.85 GHz

BT Antenna:

- Bluetooth: 2.4 to 2.48 GHz

Antenna Types:

Wi-Fi: PCB IFA antenna, BT antenna: PCB IFA antenna

Antenna Gain:

Frequency	Peak Gain (dbi)	
	Wi-Fi (Ant1)	BT (Ant2)
	IFA	IFA
2400-2500MHz	3.4	3.6
5150-5250MHz	2.8	-
5250-5350MHz	3.0	-
5470-5725MHz	3.7	-
5725-5850MHz	3.4	-

Measurement Test Method:

Solder pigtailed on feeding point of antenna and measure passive antenna performance by VNA and OTA chamber system.

Test Equipment used:

VNA: Agilent E5071C

OTA chamber: ETS AMS8923

Software for Measurement:

EMQuest

Test Set-up:

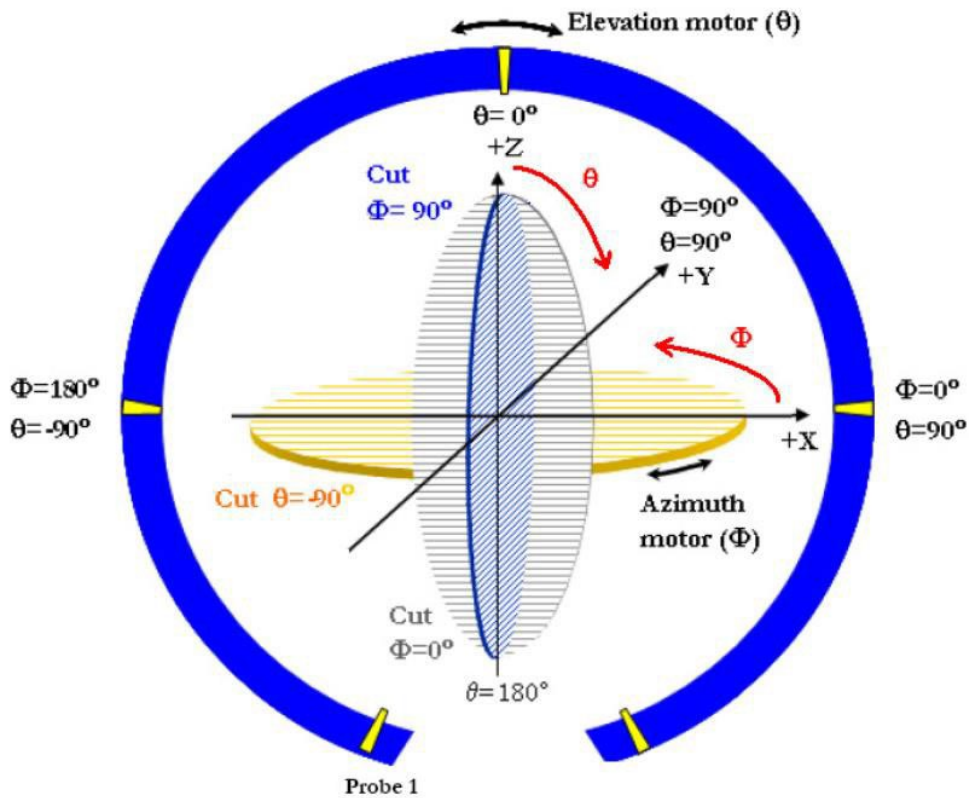
1. Set up the device on the turn table and connect the pigtailed to the RF cable.
2. Measure the 3D passive performance according to the following coordinate axis.

Turntable – Phi: 0-165°, step size: 15°, clockwise rotation

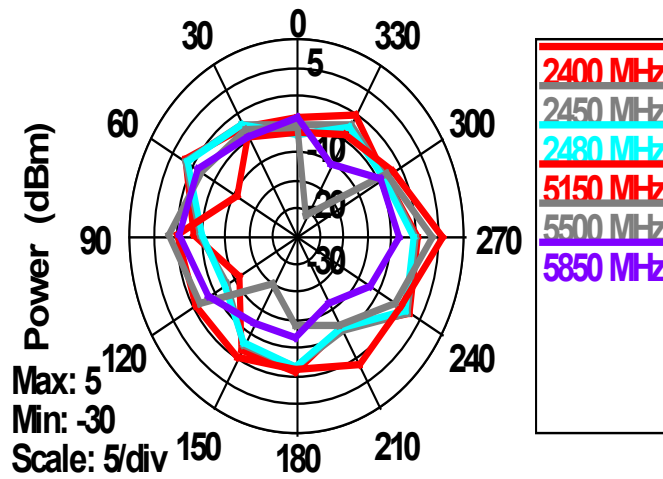
Test Equipment Calibration Information:

Equipment	Manufacturer	SN	Calibration period
OTA laboratory	ETS	Euroshieldpn-CT0000789-1162	2023.10.10
Comprehensive measuring instrument CMW500	R&S	143272	2023.5.11
Spectrum N9010A	Agilent	MY53400052	2023.5.11
E5071C	Agilent	MY46107864	2023.5.11
Standard antenna	ETS	00154418	2023.6.30
Standard antenna	ETS	00153945	2023.6.30

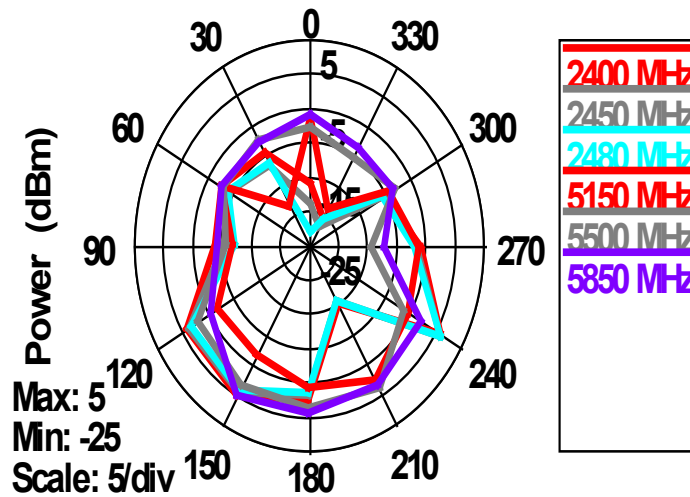
Antenna Radiated Pattern Orientation:



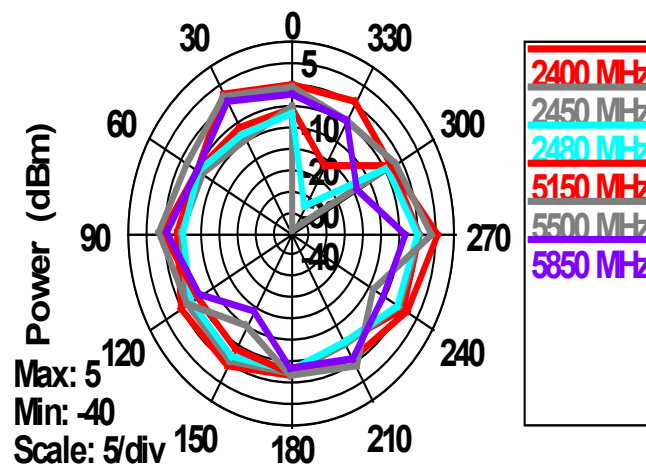
WLAN (2400~2500MHz and 5100~5800MHz)



XY plane



XZ plane



YZ plane

BT Antenna

