

## 2.4 GHz PCB antenna Specification

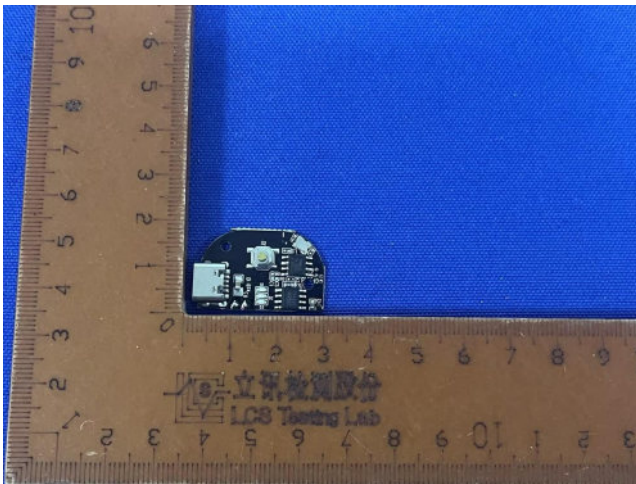
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### Shenzhen Neewer Technology Co., Ltd

#### 1 KEYWORDS

- RA005E-ANT1
- 2.4 GHz
- PCB Antenna

#### 2 Size



### 3 Testing Conditions

#### Antenna Electrical Characteristics

Parameters	Value
Frequency Range	2400~2480MHz
Band Width	120MHz
VSWR	<2.0
Impedence	50 ohm
Max Gain	0dBi
Polarization	Single
Azimuth	Omni-directional

#### Product Testing Conditions

Parameters	Value
Working Temp	-30°C ~ +60°C

#### Antenna 2D patterns

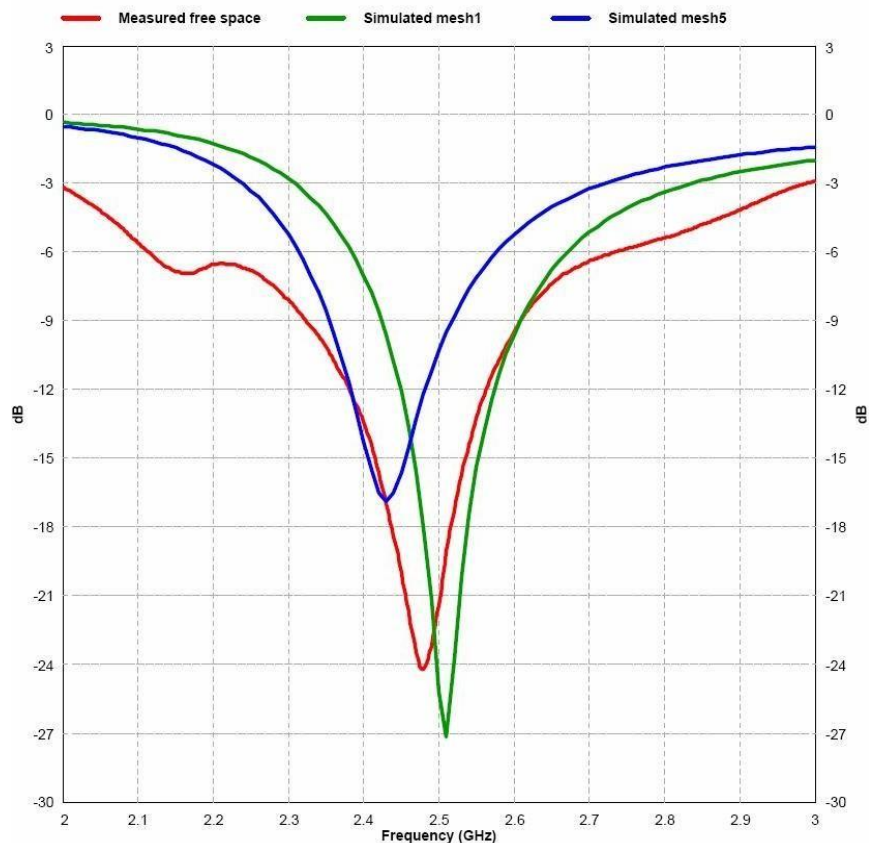
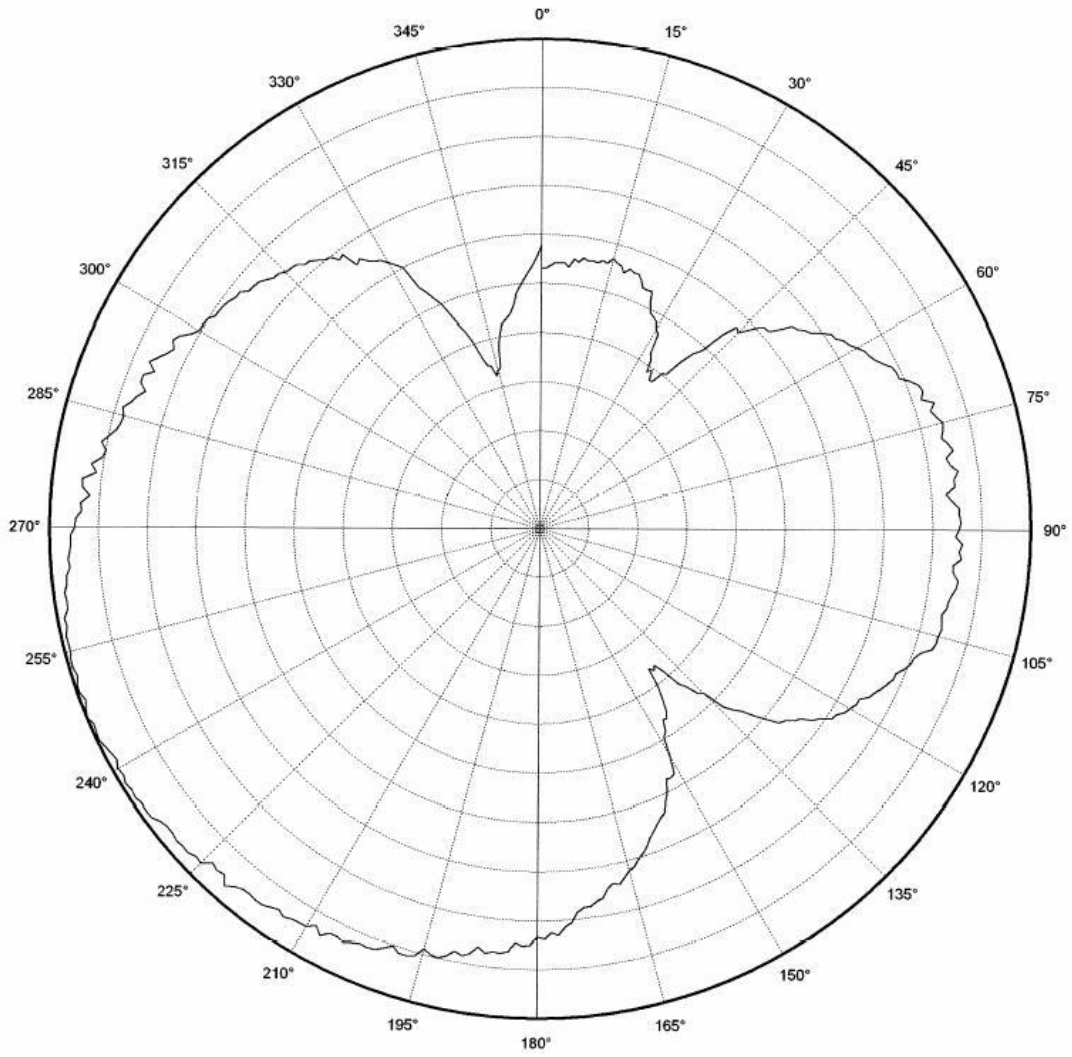


Figure : Comparison of Simulation and Measurements Results

# Antenna 3D patterns

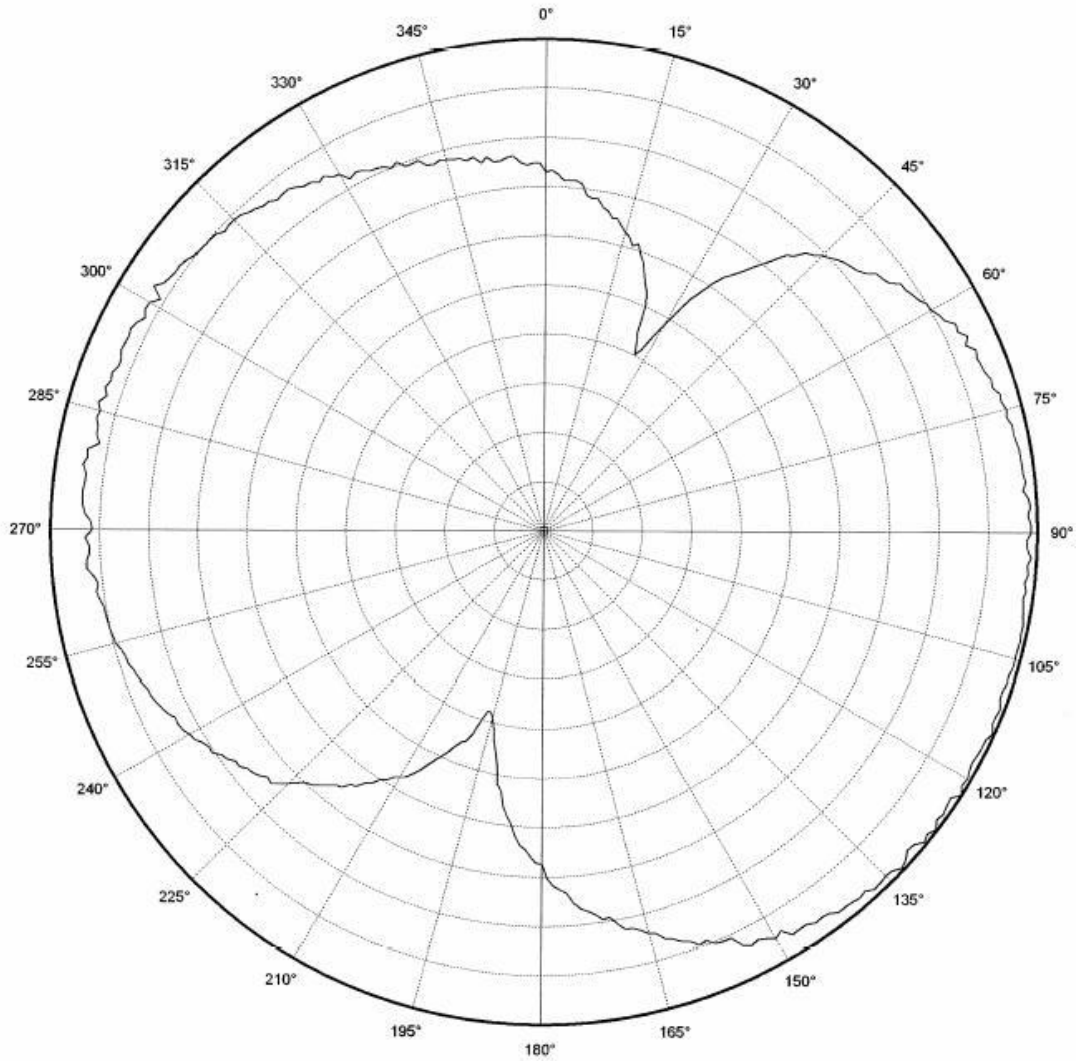


**Vertical Polarization**  
**usb XY**

**CF 2450.000 MHz**  
**4 dB/ div**  
**Ref Lev: -0.5dBi**

**Figure : XY Plane**





Horizontal Polarization

usb XY

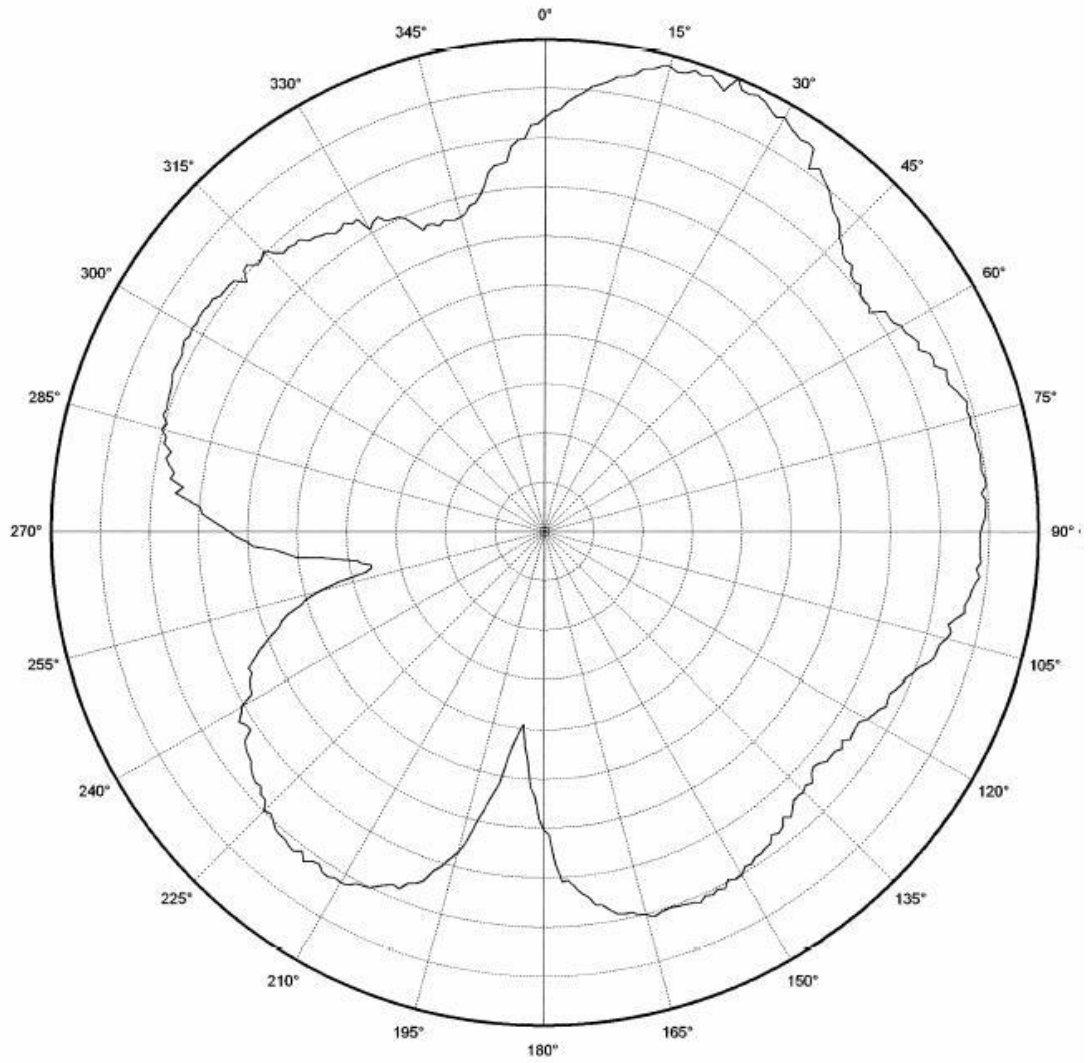
CF 2450.000 MHz

5 dB/ div

Ref Lev: 0.0dBi

Figure :XY Plane





**Vertical Polarization**

**usb XZ**

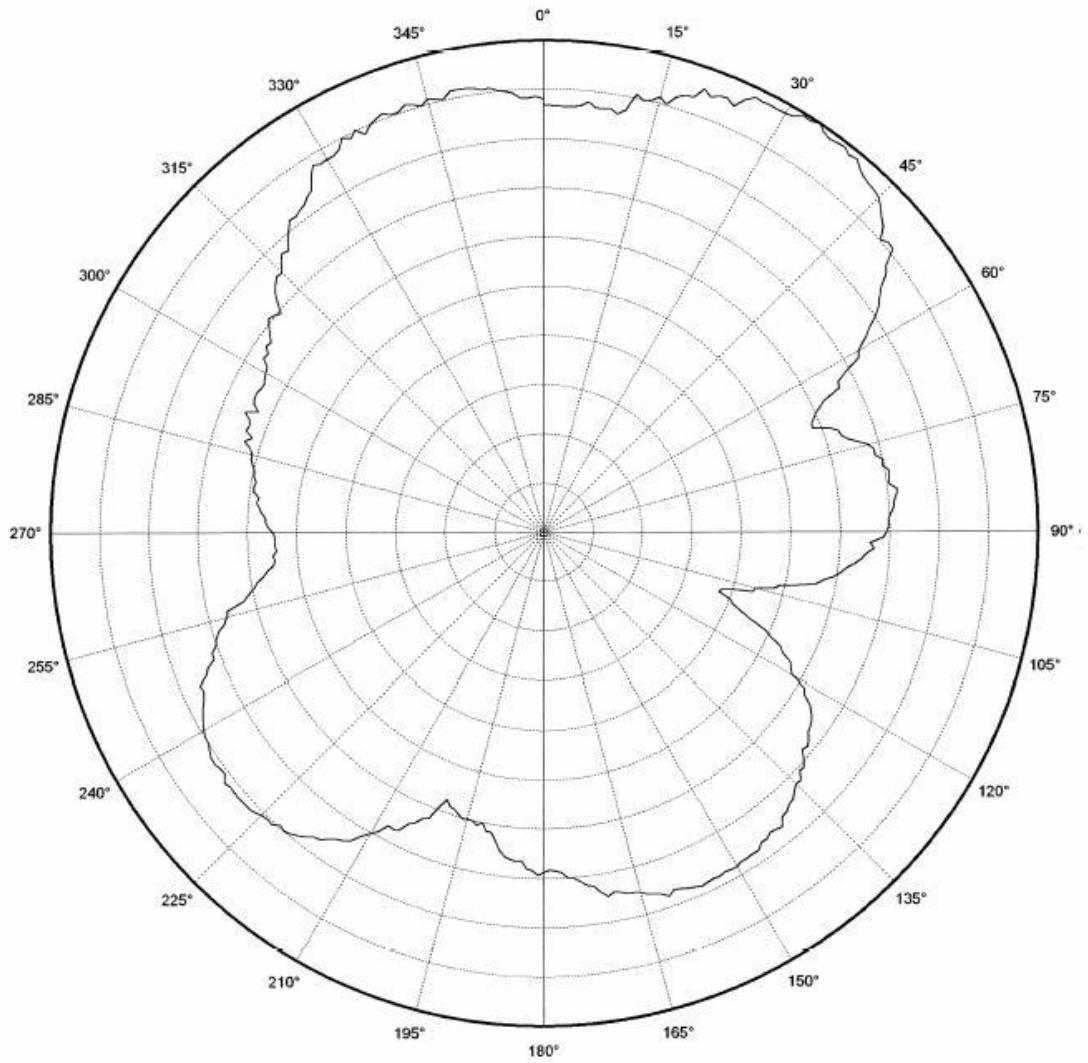
**CF 2450.000 MHz**

**4 dB/ div**

**Ref Lev: -0.2dBi**

**Figure : XZ Plane**

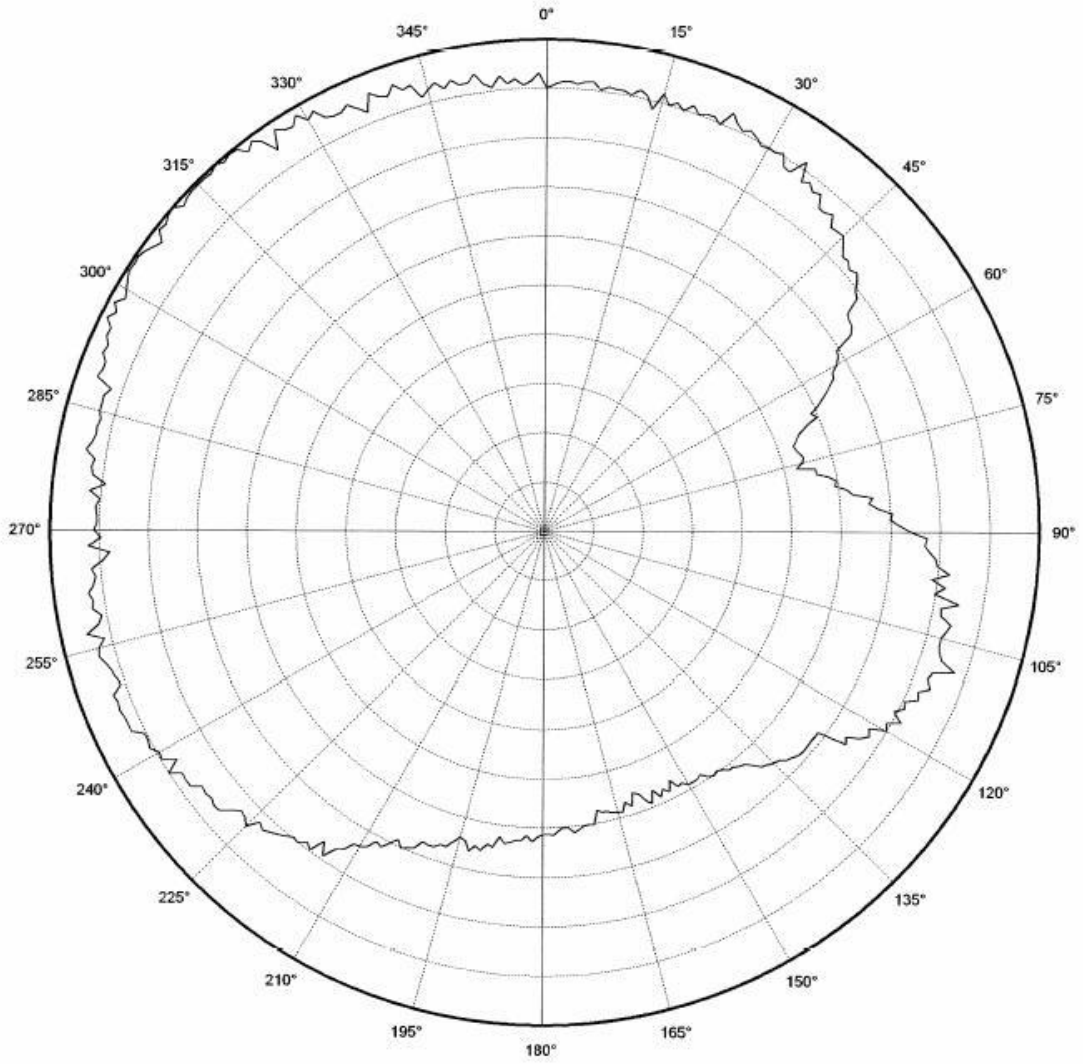




Horizontal Polarization  
usb XZ

CF 2450.000 MHz  
4 dB/ div  
Ref Lev: -0.1dBi

Figure : XZ Plane



**Vertical Polarization**

**usb YZ**

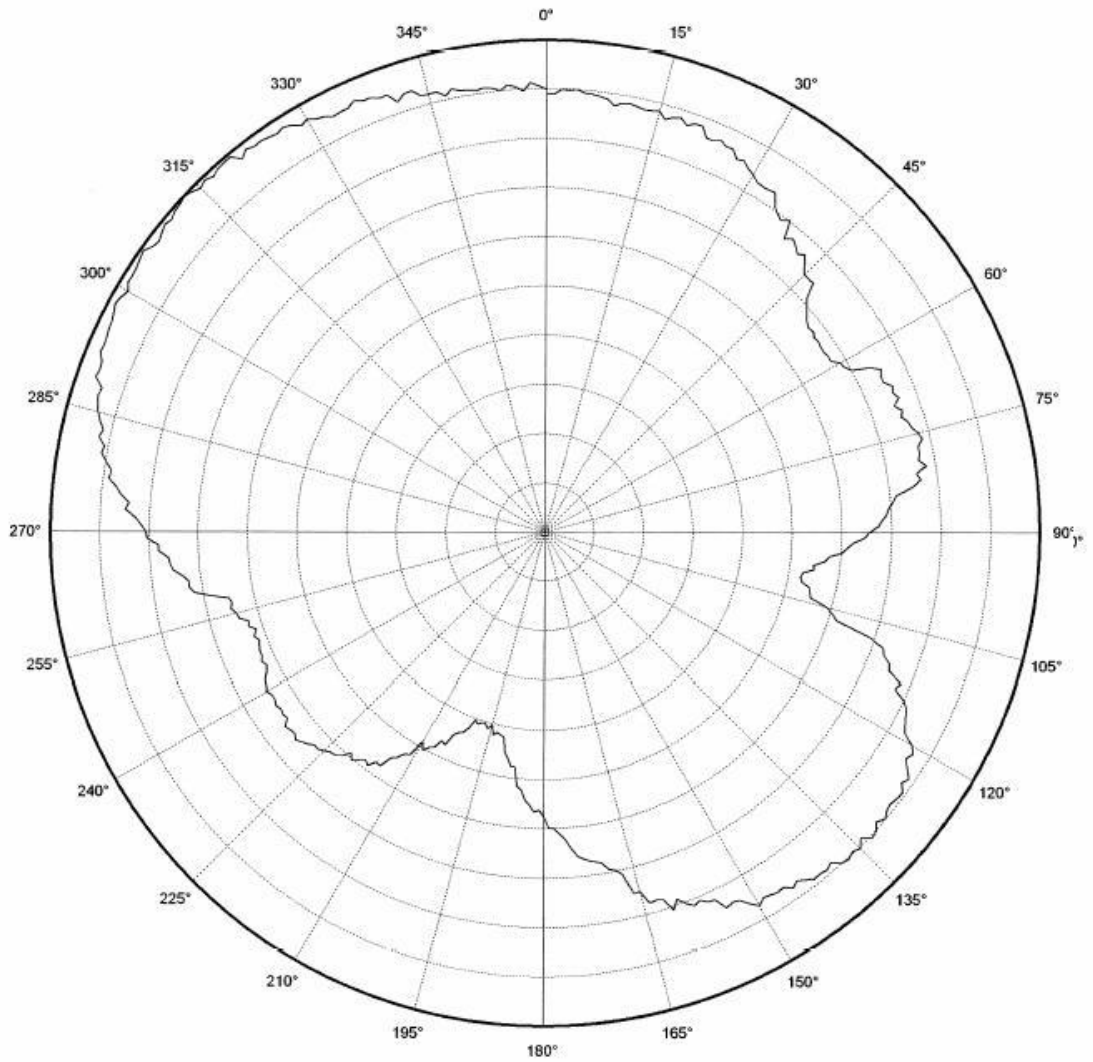
**CF 2450.000 MHz**

**2 dB/ div**

**Ref Lev: -0.1dBi**

**Figure : YZ Plane**





**Horizontal Polarization**

**usb YZ**

**CF 2450.000 MHz**

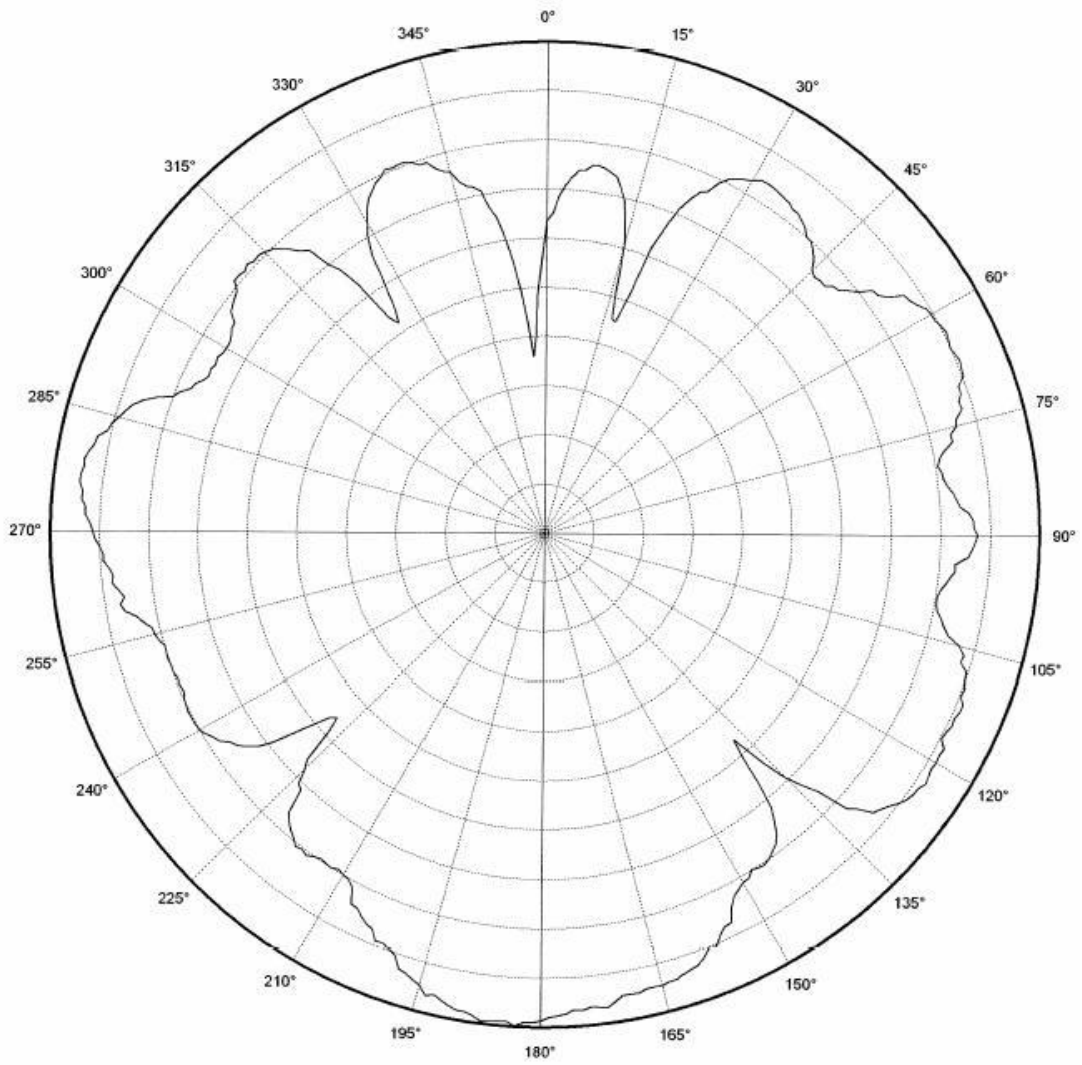
**3 dB/ div**

**Ref Lev: -1.2dBi**

**Figure YZ Plane**





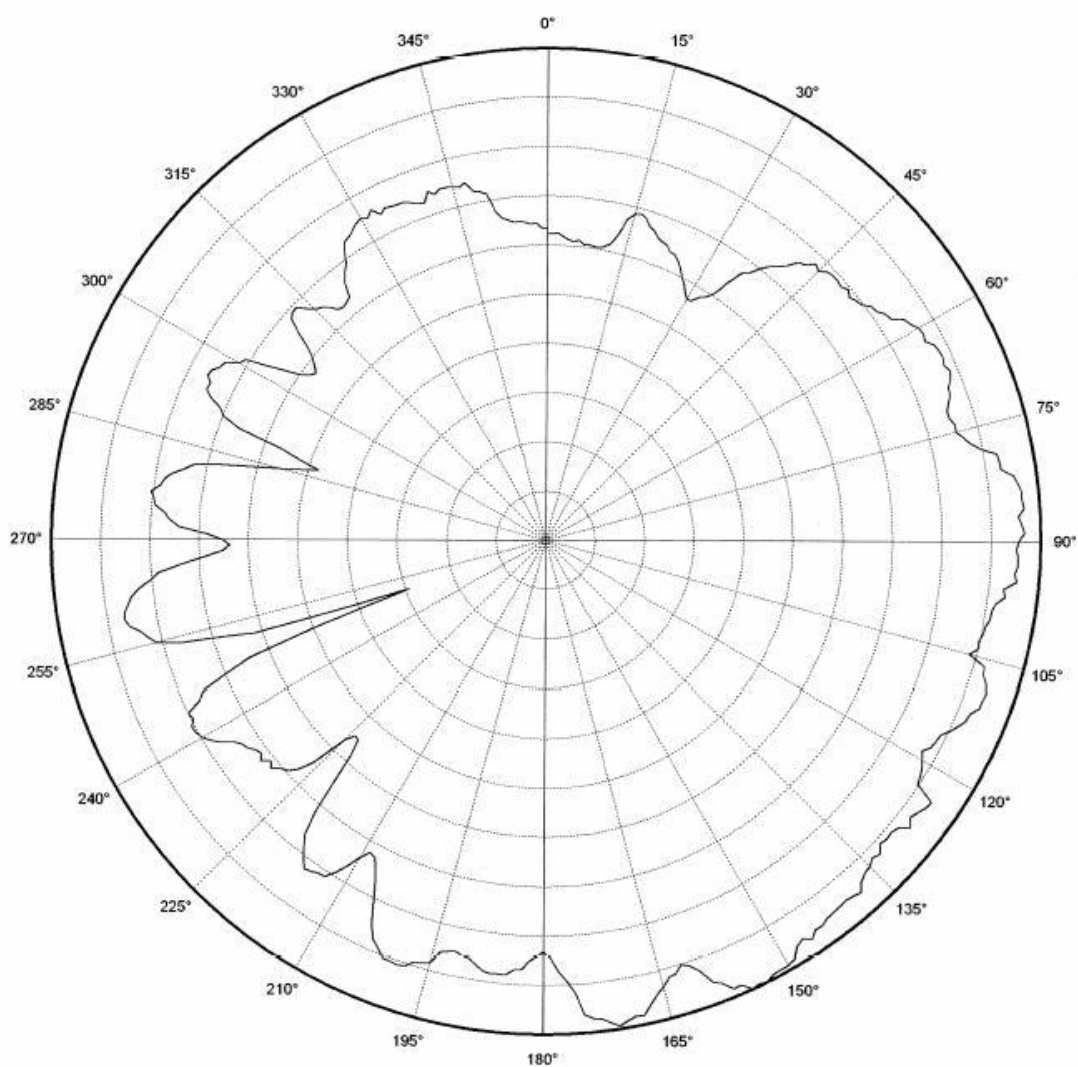


**Vertical Polarization**  
**Laptop USB XY**

**CF 2450.000 MHz**  
**5 dB/ div**  
**Ref Lev: -0.2dBi**

**Figure: Laptop XY Plane**

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**Horizontal Polarization**  
**Laptop USB XY**

**CF 2450.000 MHz**  
**4 dB/ div**  
**Ref Lev: -0.3dBi**

**Figure: Laptop XY**