

## **CW-NZ-0193**

### **868/915MHz FPC Antenna**

#### **Key Features**

Frequency:868/915MHz

I-PEX Connector

1.13 Cable

Dimensions: 35\*7\*0.1mm

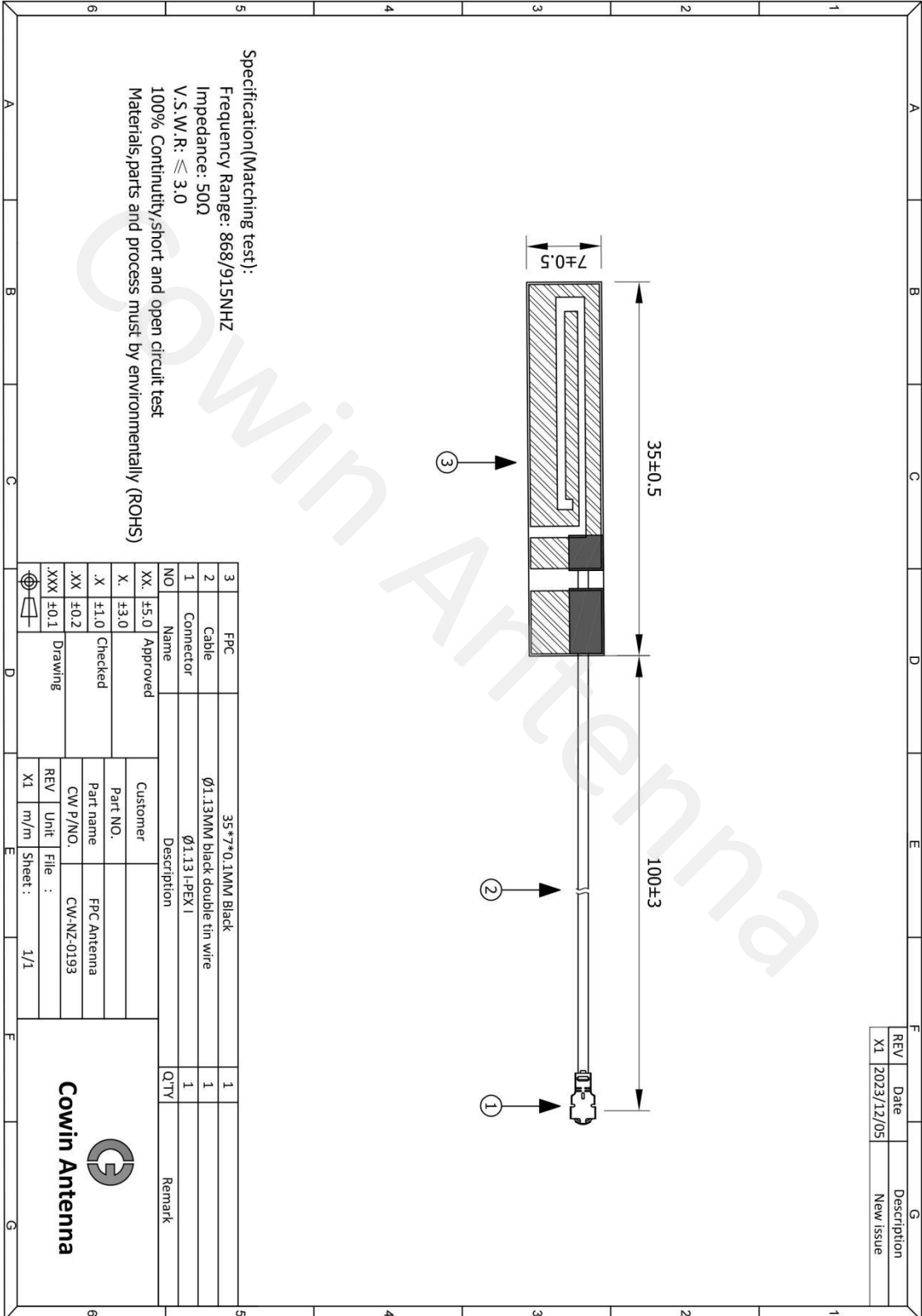


## 1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	868/915MHz
VSWR	≤3
Efficiency (%)	92.8%
Peak Gain (dBi)	3.28
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	I-PEX

## 2. Material and environmental characteristics

External structure	N/A
Inner structure	Connector/Cable/FPC
Cable Type	RF1.13
Connector Type	I-PEX
Dimensions (mm)	35*7*0.1MM
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS



## 4. Antenna test parameters

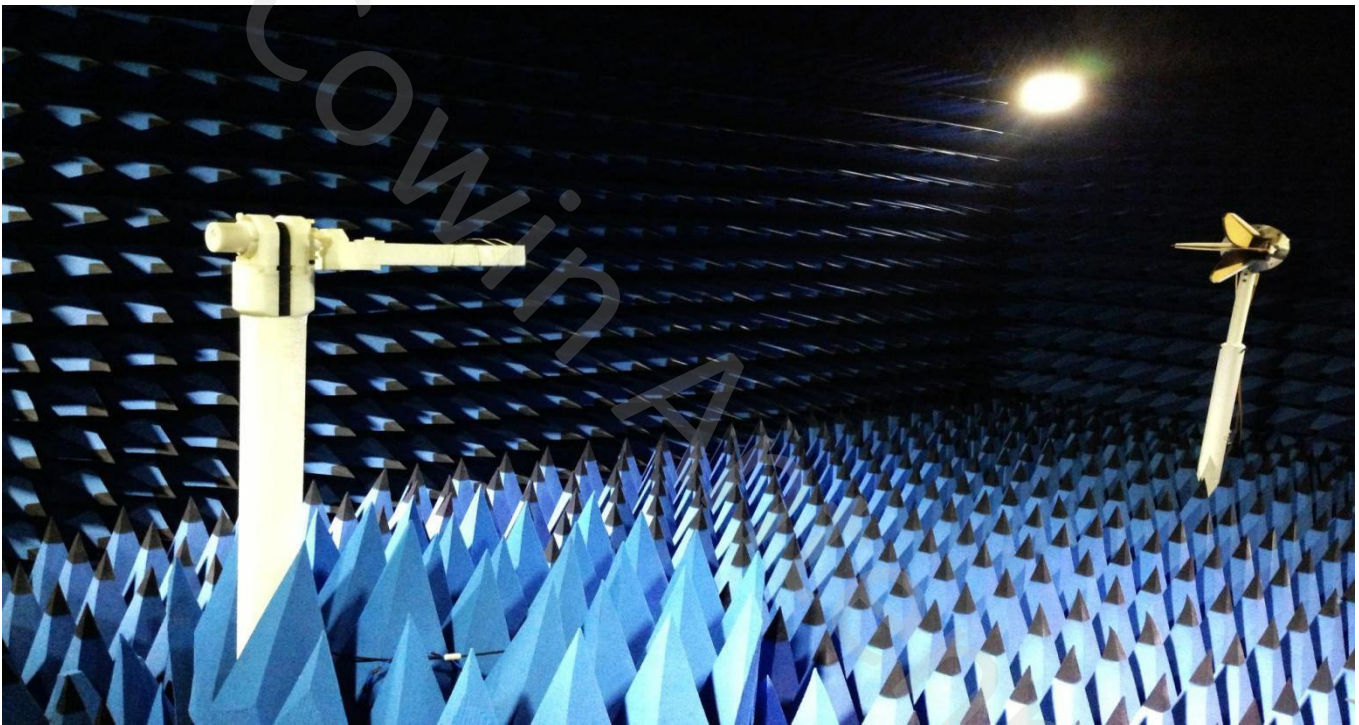
### Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

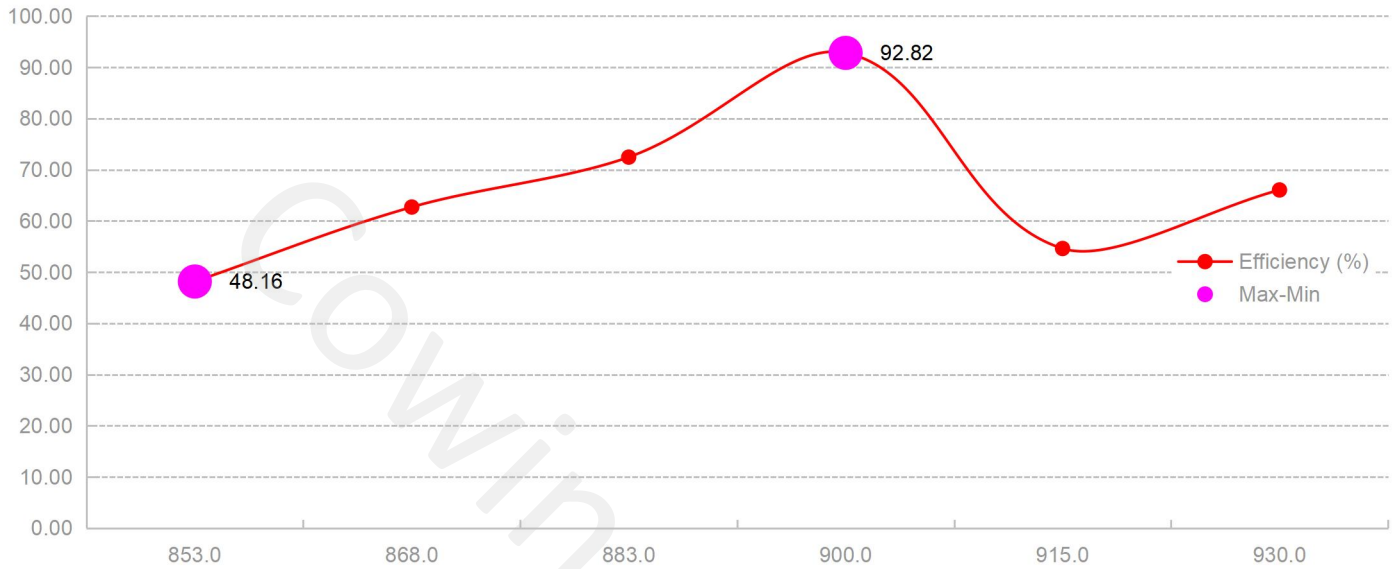
The comprehensive tester is Agilent cmv500



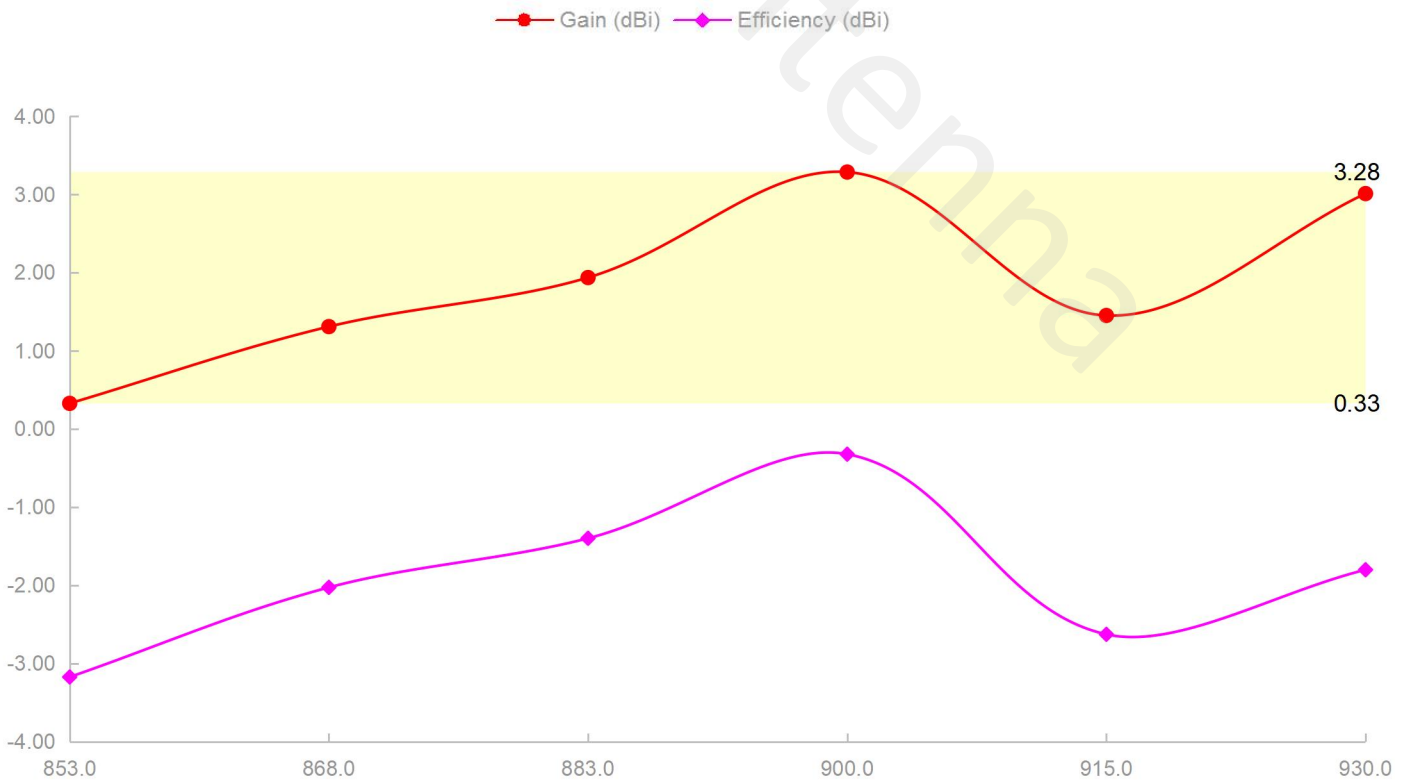
## 4.1 VSWR



## 4.2 Efficiency



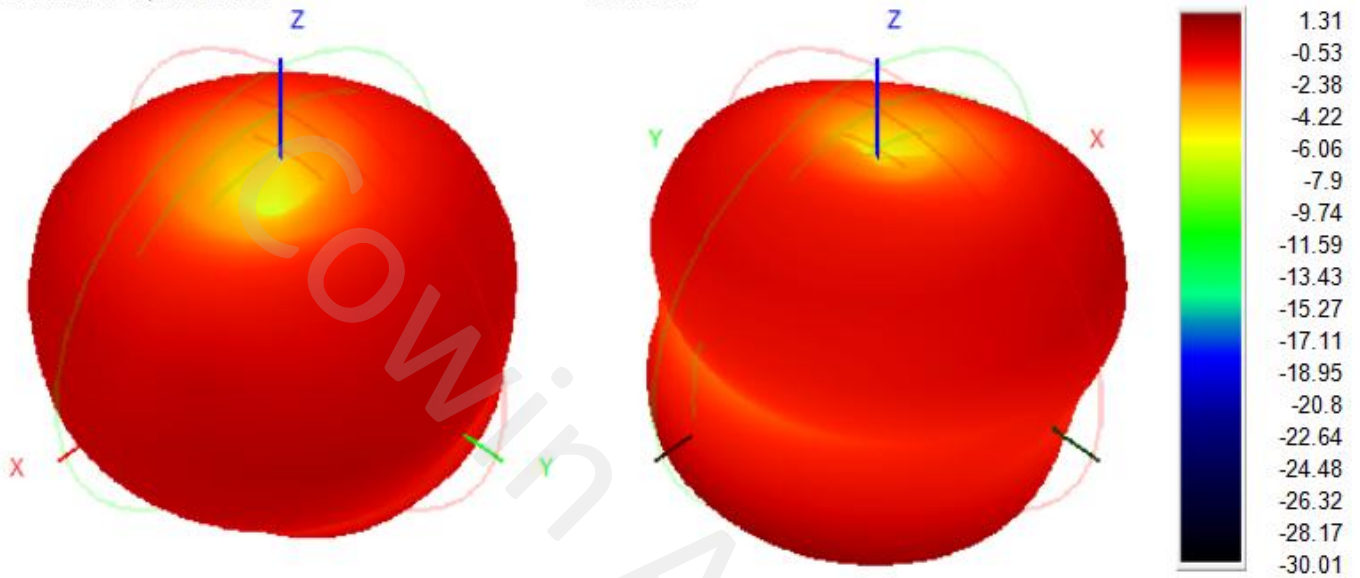
## 4.3 Peak gain



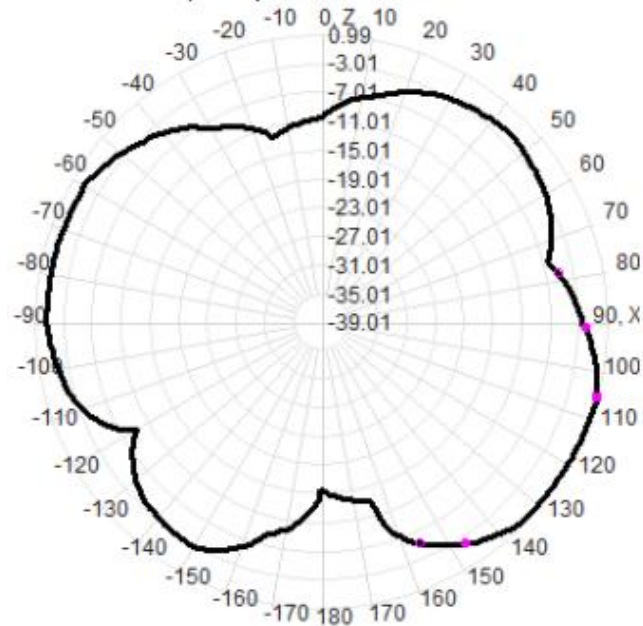
## 4.4 3D&2D Radiation Patterns

868.0MHz H+V, Eff. 62.7%

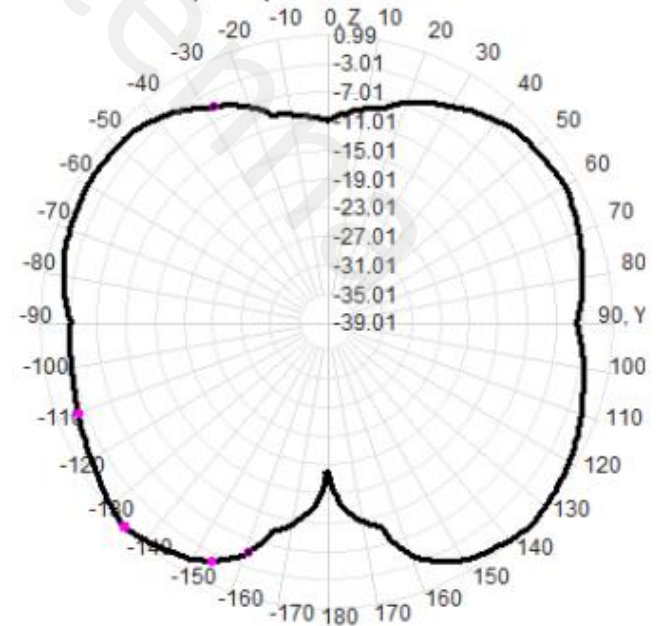
Back View



868.0MHz Total(E1-XZ), Max= 0.58dBi

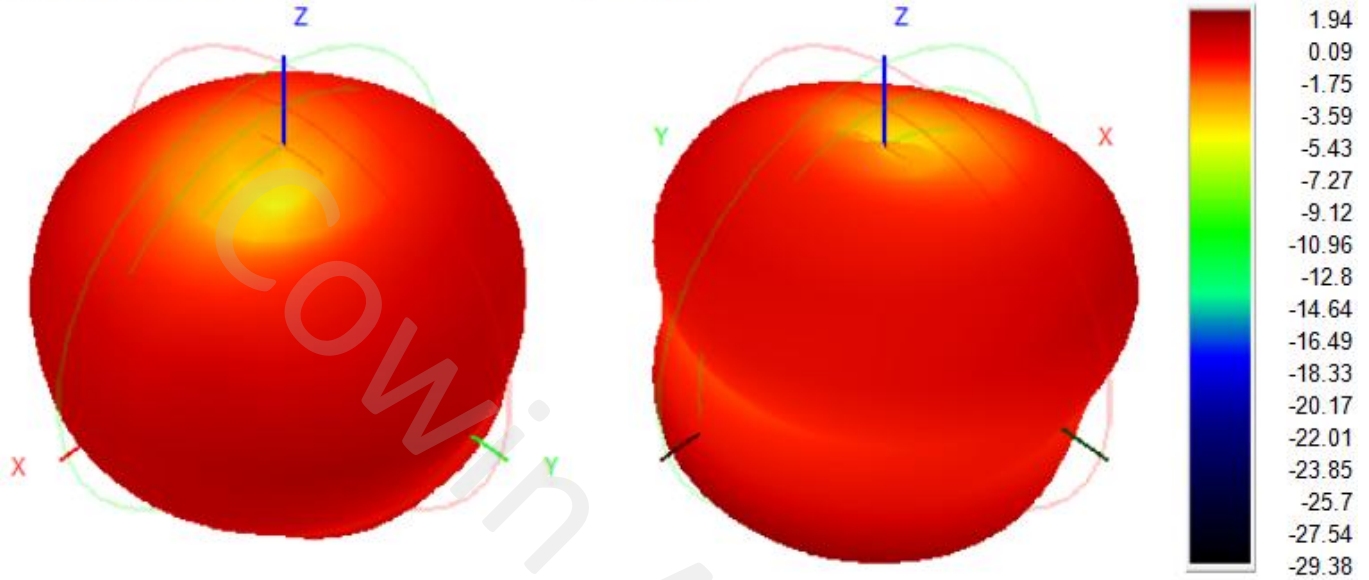


868.0MHz Total(E2-YZ), Max= 0.99dBi



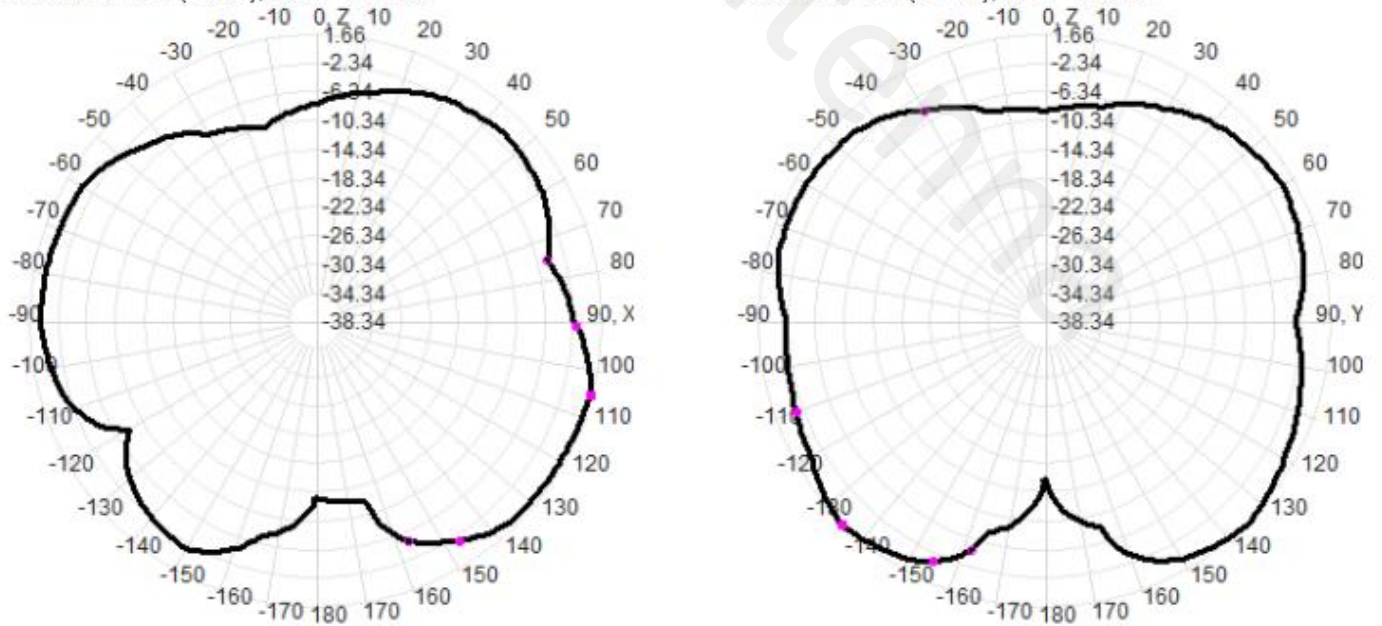
883.0MHz H+V, Eff. 72.5%

Back View



883.0MHz Total(E1-XZ), Max= 1.13dBi

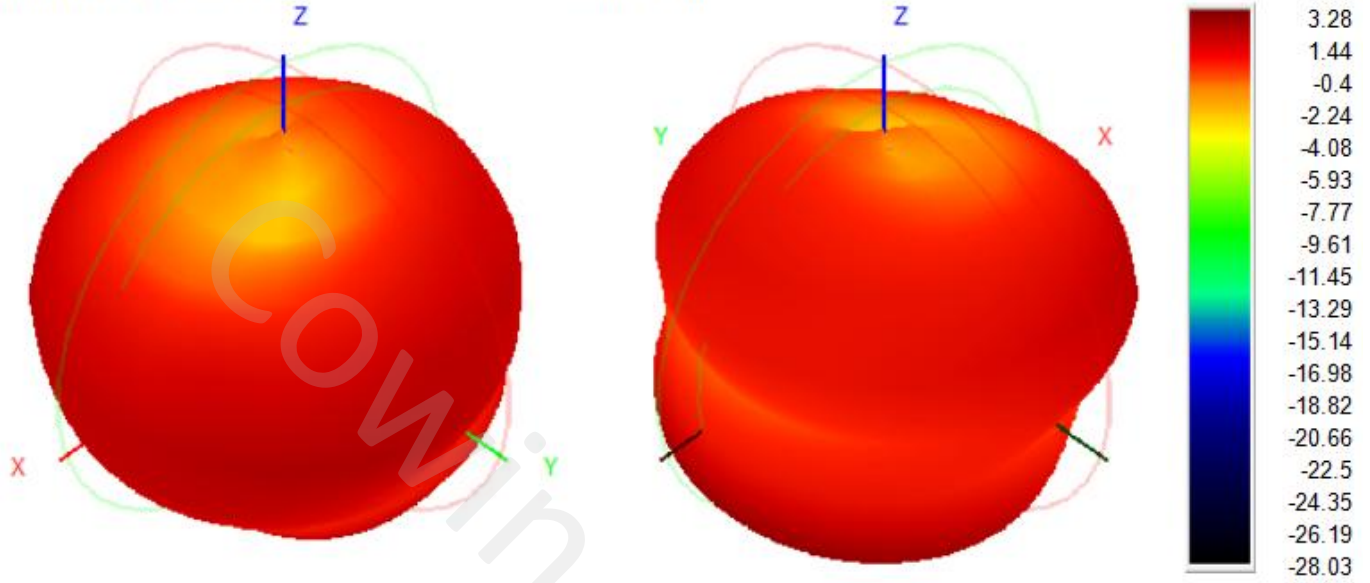
883.0MHz Total(E2-YZ), Max= 1.66dBi



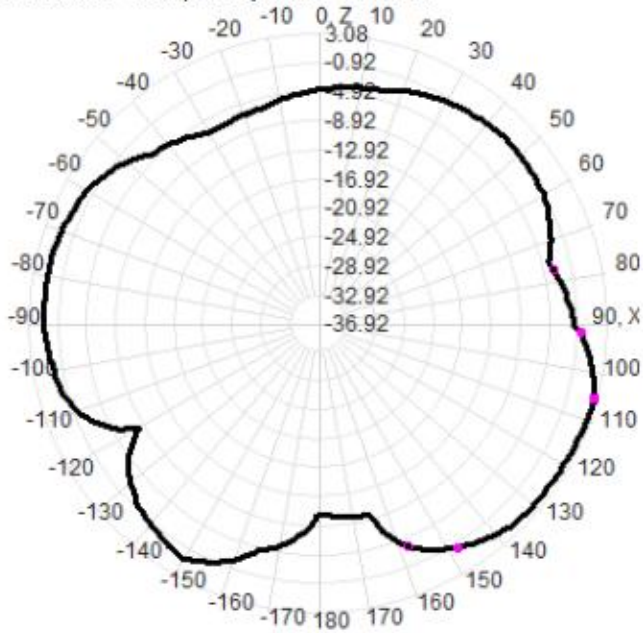


900.0MHz H+V, Eff. 92.8%

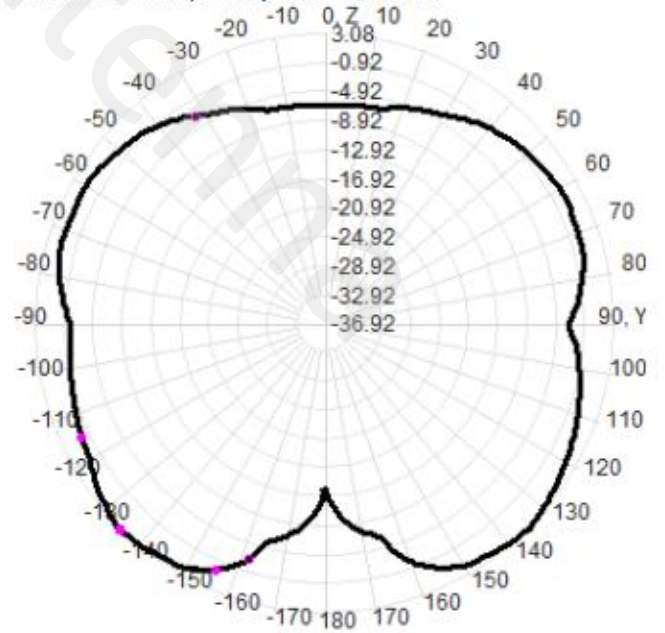
Back View



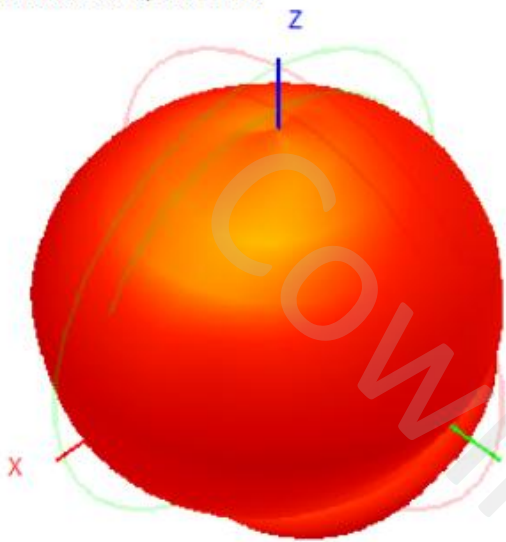
900.0MHz Total(E1-XZ), Max= 2.43dBi



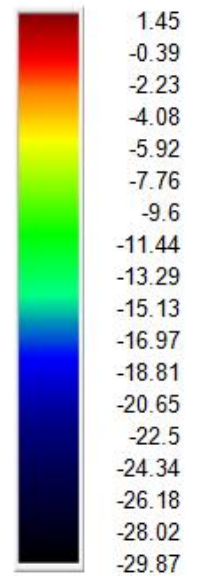
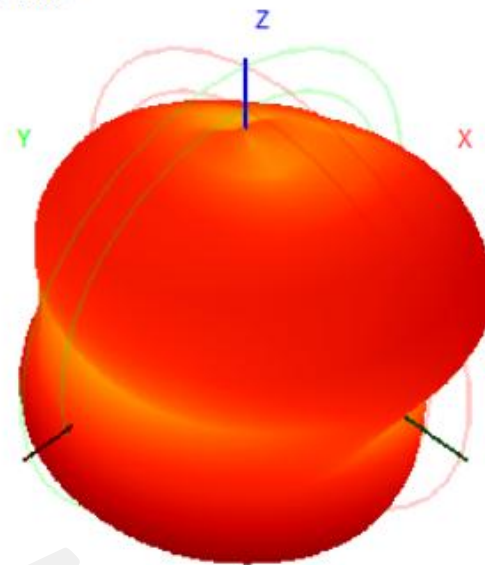
900.0MHz Total(E2-YZ), Max= 3.08dBi



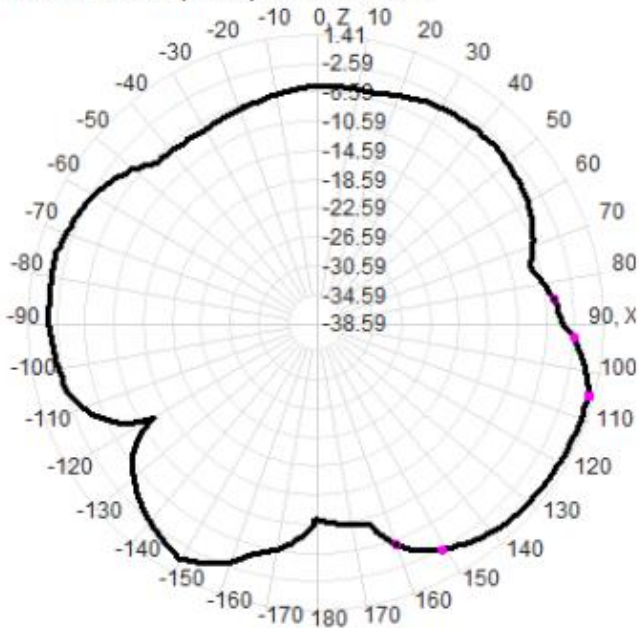
915.0MHz H+V, Eff 54.6%



Back View



915.0MHz Total(E1-XZ), Max= 0.38dBi



915.0MHz Total(E2-YZ), Max= 1.41dBi

