

## CW-NZ-0217

### 2100-2170MHz Internal Antenna

#### Key Features

Frequency: 2100-2170MHz

SMA Male Connector

Dimensions: 125\*35\*1.0mm

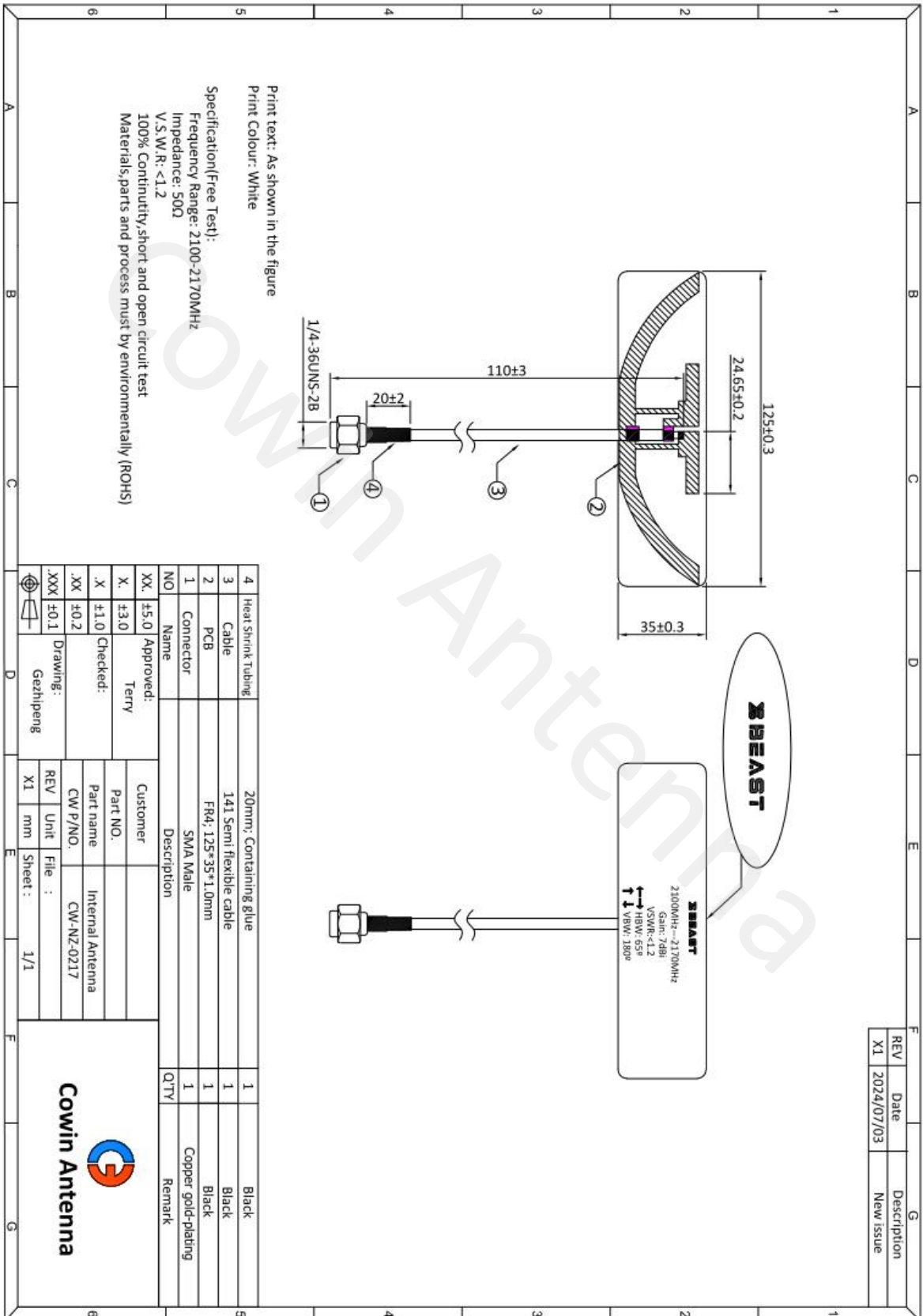


## 1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2100-2170
VSWR	≤1.2
Efficiency (%)	96.97
Peak Gain (dBi)	5.01
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA Male

## 2. Material and environmental characteristics

External Structure	N/A
Inner Structure	PCB
Cable Type	141 Semi flexible cable
Connector Type	SMA Male
Dimensions (mm)	125*35*1.0
Antenna Colour	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS



## 4. Antenna test parameters

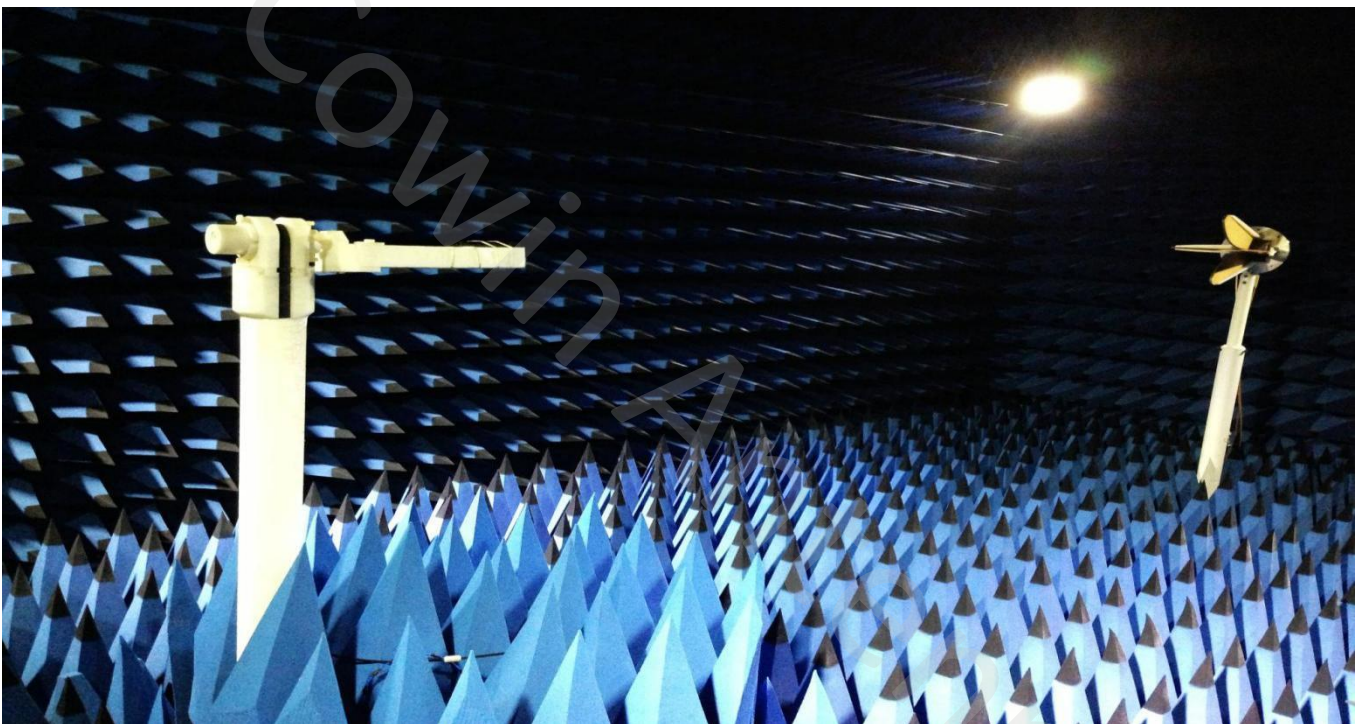
**Antenna Measurement Conditions:**

Mounted on Ground Plane of 280 x 80 mm

Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

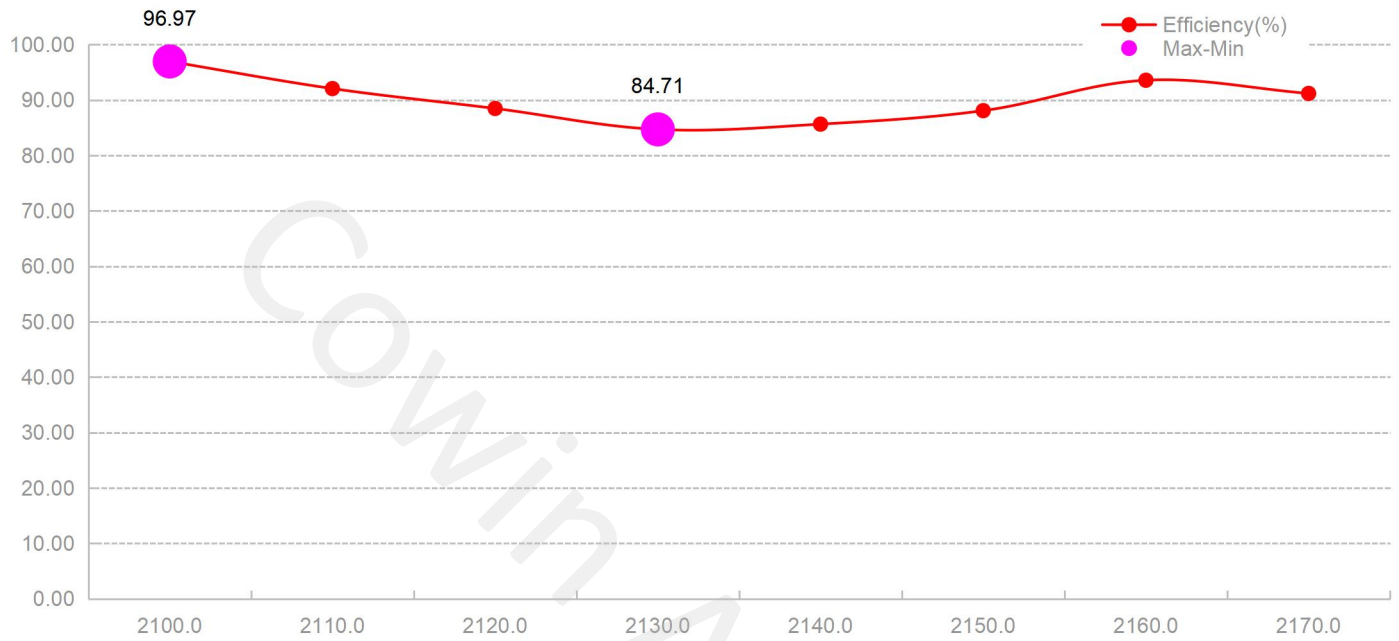
The comprehensive tester is Agilent cmv500



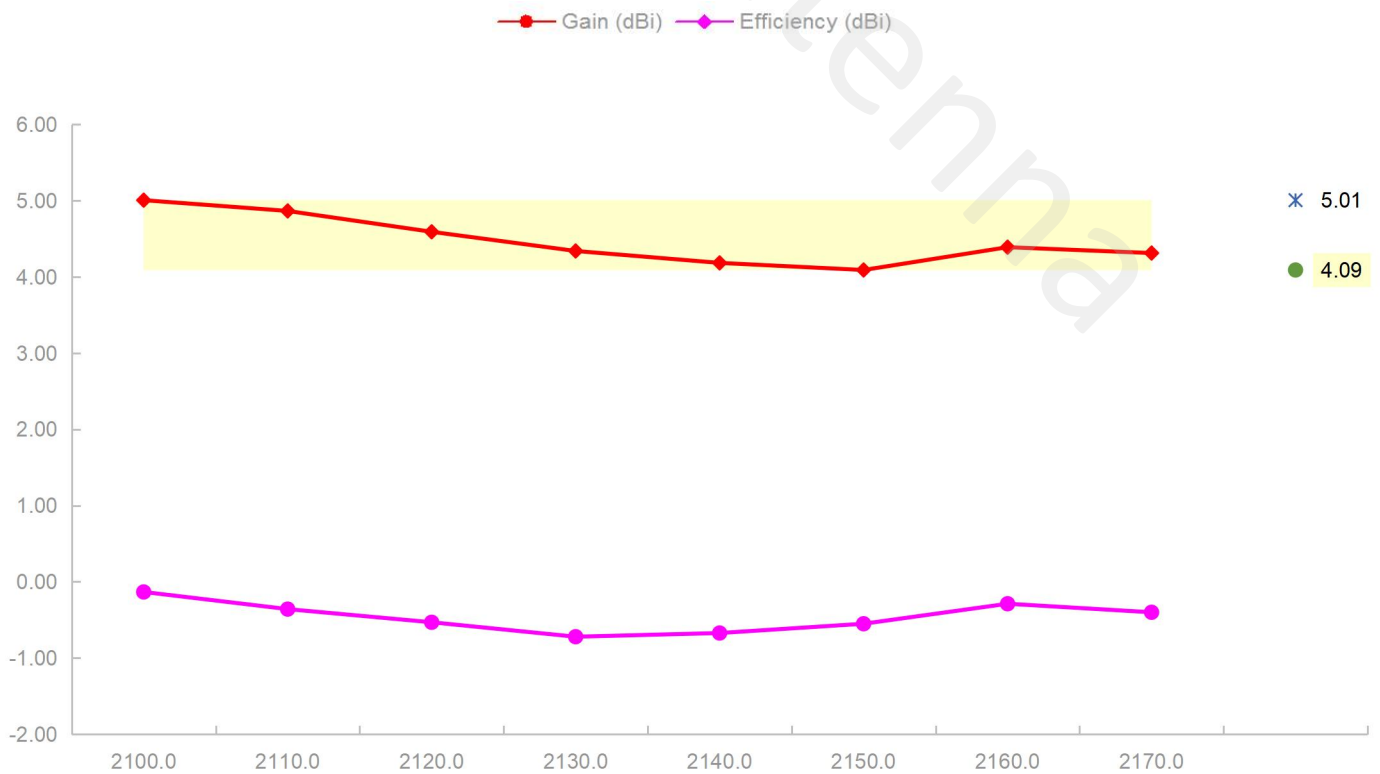
## 4.1 VSWR



## 4.2 Efficiency



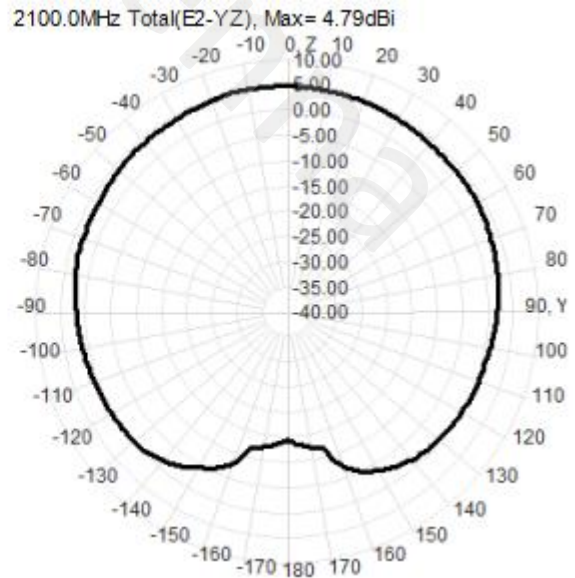
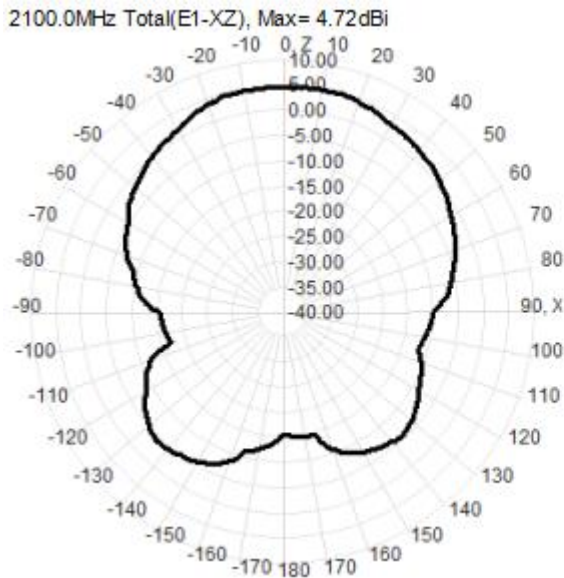
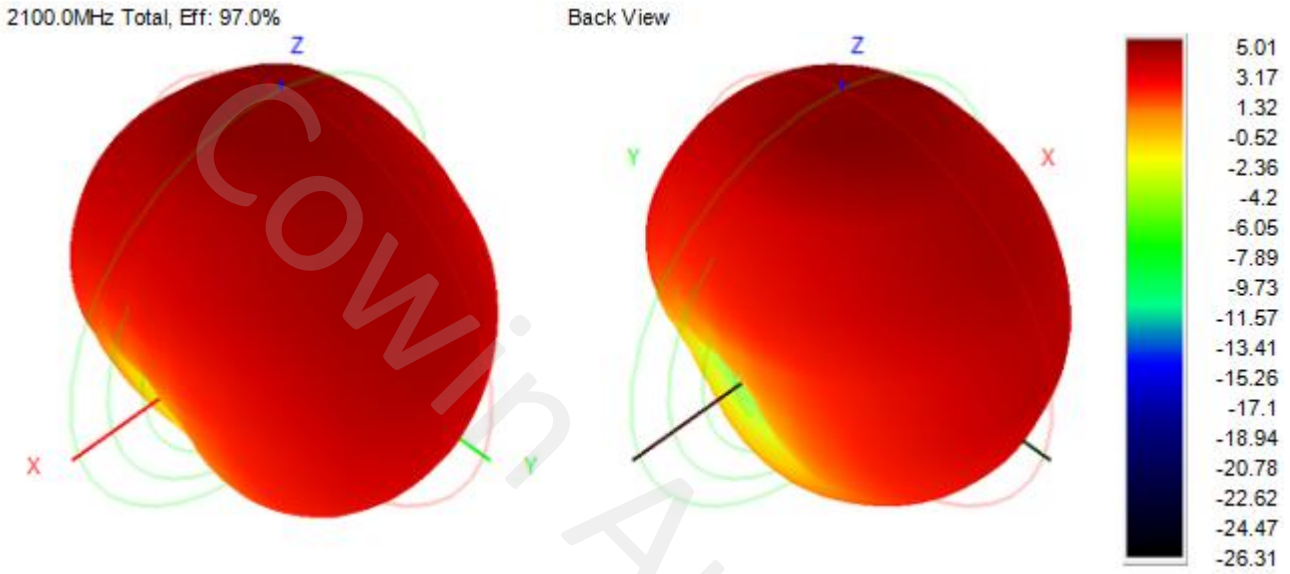
## 4.3 Peak gain



## 4.4 Data summary

Frequency(MHz)	Peak Gain (dBi)	Efficiency(%)
2100.0	5.01	96.97
2110.0	4.87	92.08
2120.0	4.59	88.49
2130.0	4.34	84.71
2140.0	4.18	85.66
2150.0	4.09	88.10
2160.0	4.39	93.58
2170.0	4.31	91.20

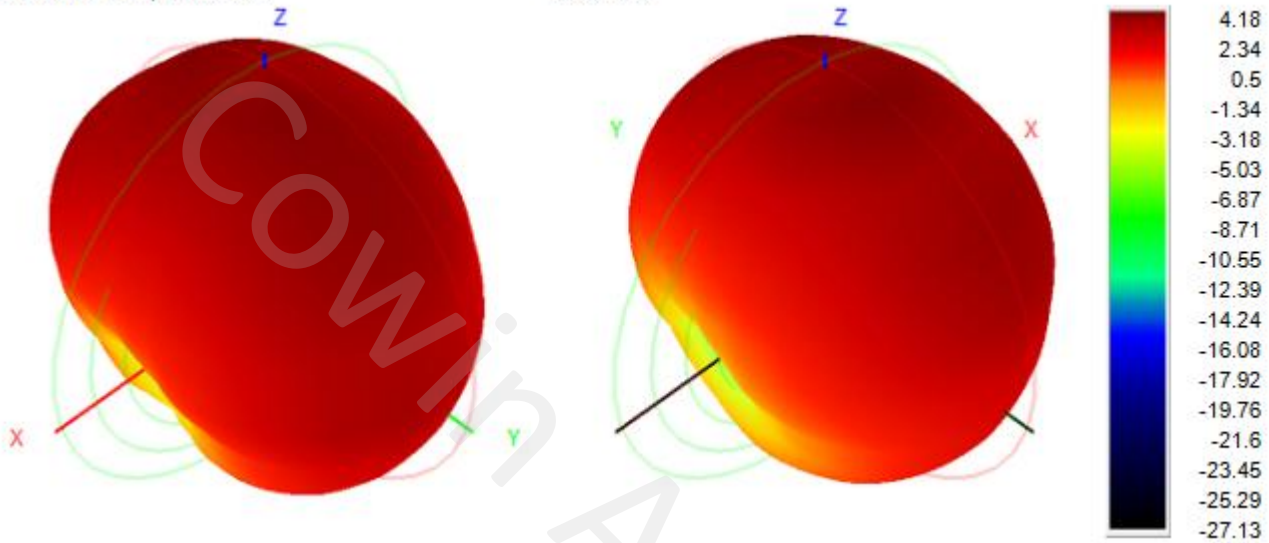
## 4.5 3D&2D Radiation Patterns





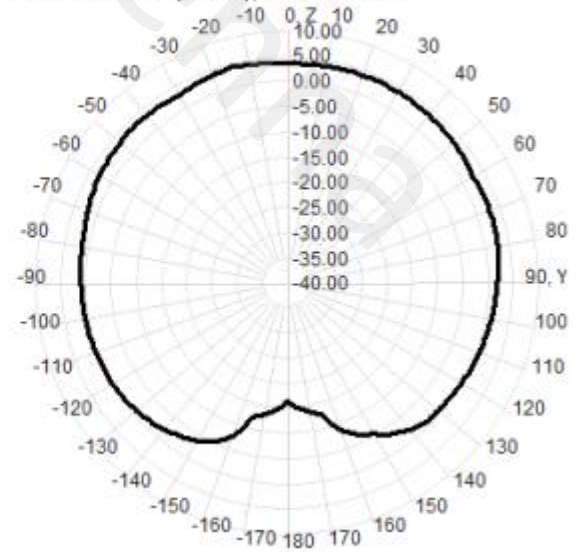
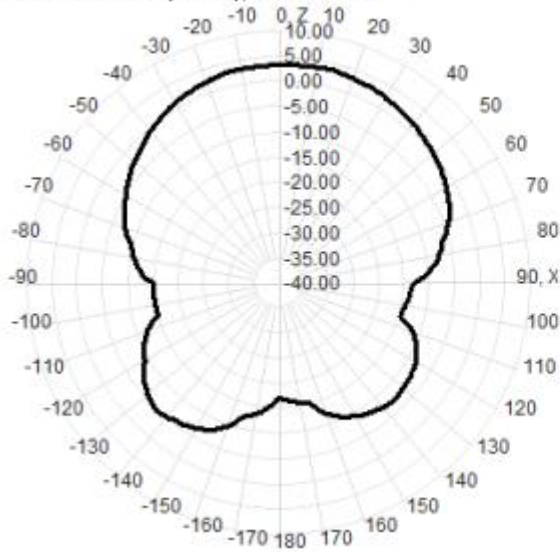
2140.0MHz Total, Eff: 85.7%

Back View

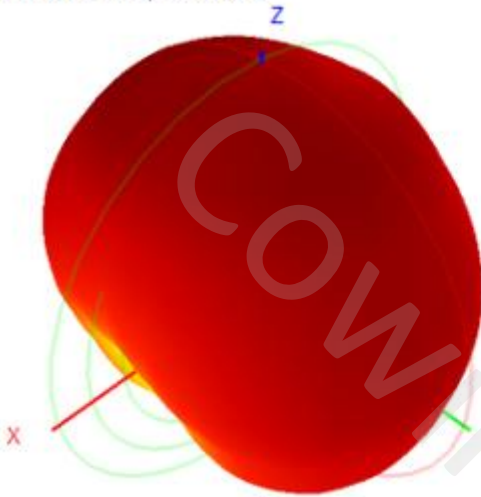


2140.0MHz Total(E1-XZ), Max= 3.51dBi

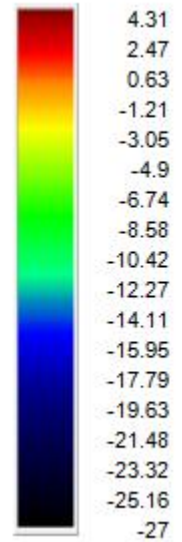
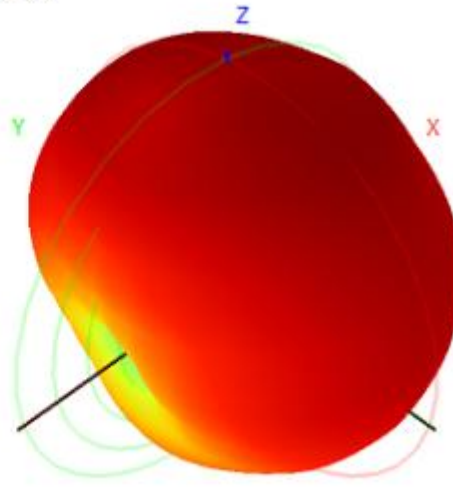
2140.0MHz Total(E2-YZ), Max= 4.18dBi



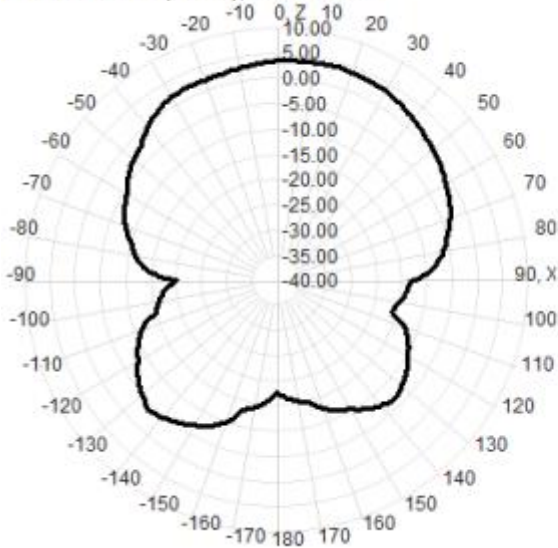
2170.0MHz Total, Eff: 91.2%



Back View



2170.0MHz Total(E1-XZ), Max= 3.91dBi



2170.0MHz Total(E2-YZ), Max= 4.29dBi

