

## CW-WZ-0099

### 2.4/5.8G Magnetic Antenna

#### Key Features

Frequency: 2.4-2.5G/5.15-5.85G

SMA Male Connector

External Magnetic Base

Dimensions 225\*30 mm

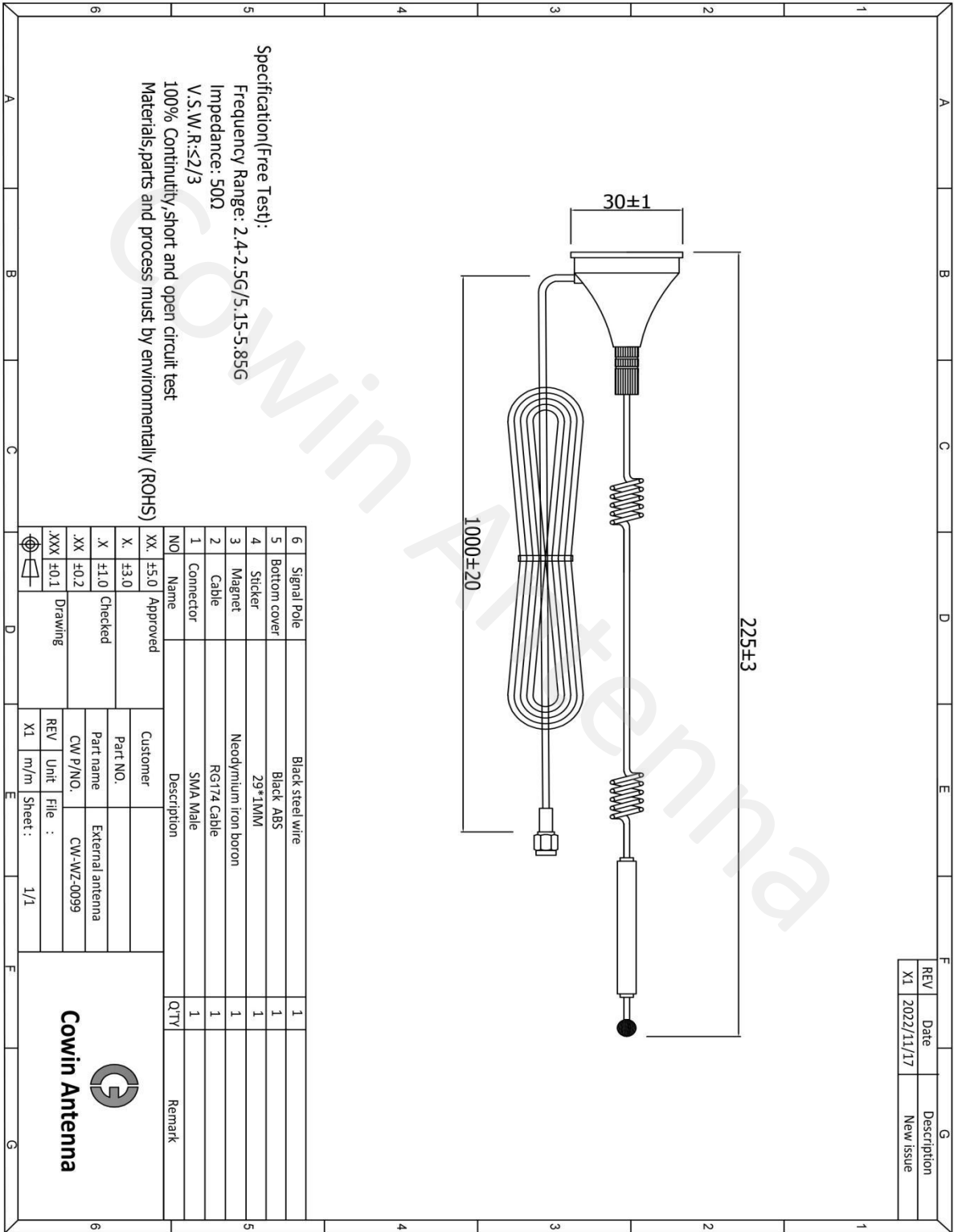


## 1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2.4-2.5G/5.15-5.85G
VSWR	2/3
Efficiency (%)	46.25%/45.99%
Peak Gain (dBi)	3.59/3.92
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA Male

## 2. Material and environmental characteristics

Inner structure	N/A
Material of Plastic	ABS/Steel wire
Cable Type	RG174
Connector Type	SMA Male
Dimensions (mm)	225*30MM
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS



REV	Date	Description
XI	2022/11/17	New issue

## 4. Antenna test parameters

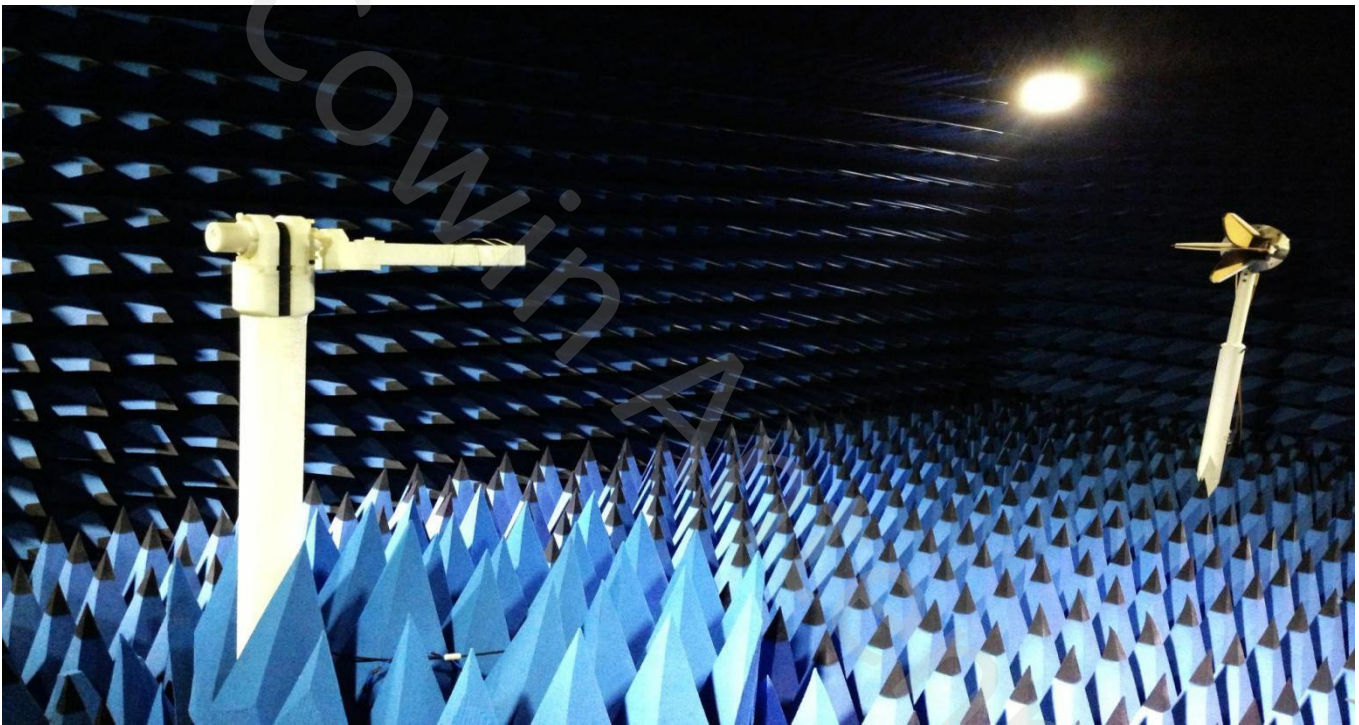
### Antenna Measurement Conditions:

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

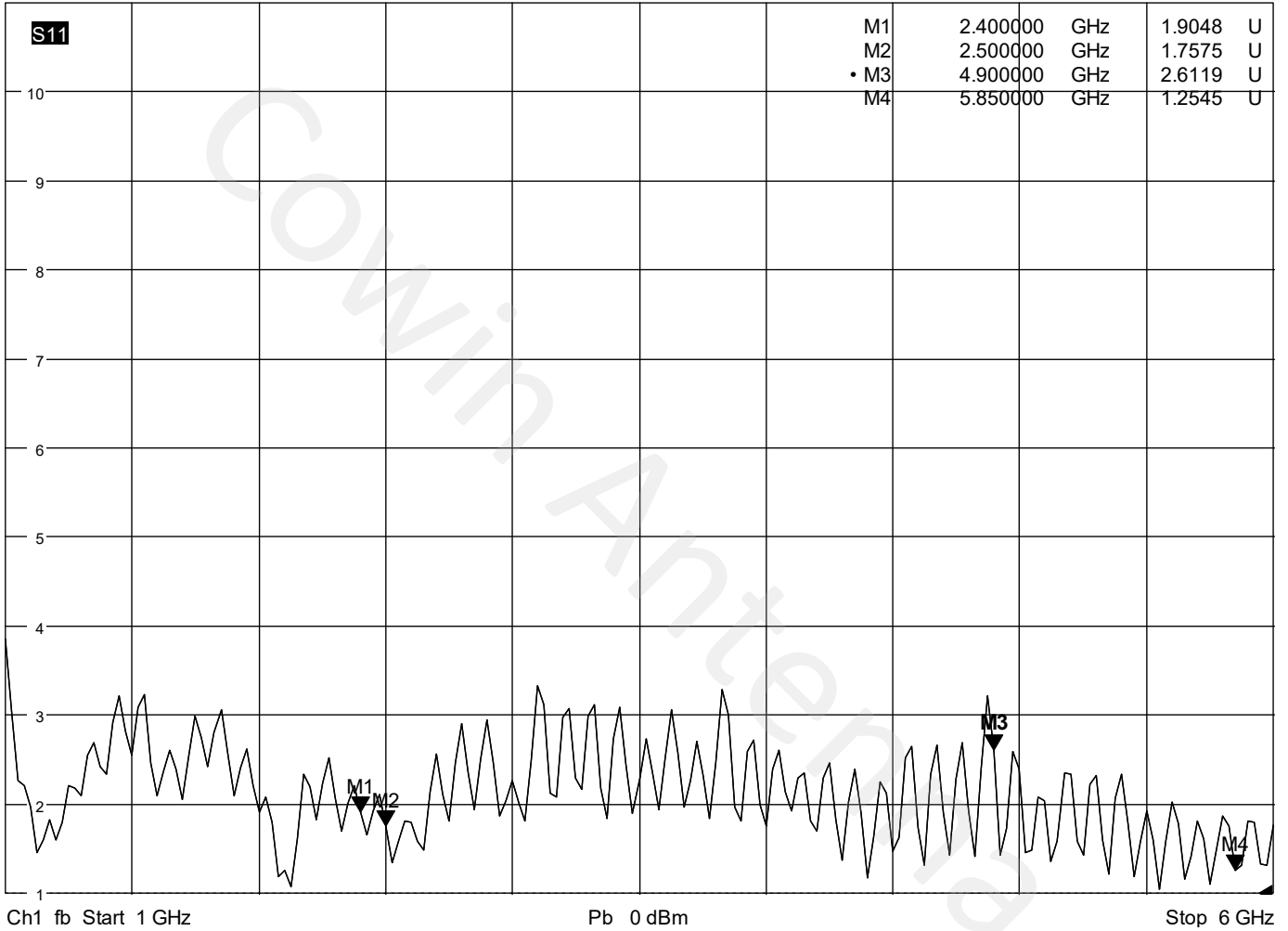


## 4.1 VSWR



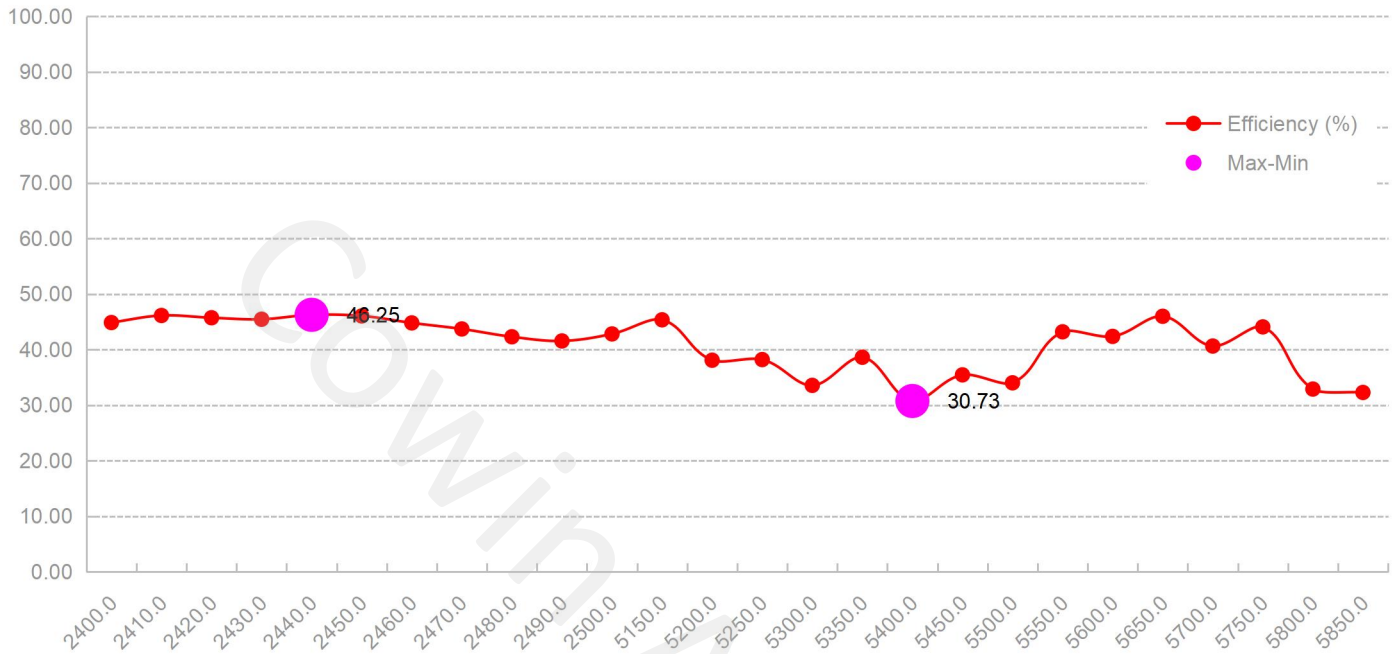
Trc1 **S11** SWR 1 U/ Ref 1 U Cal

1

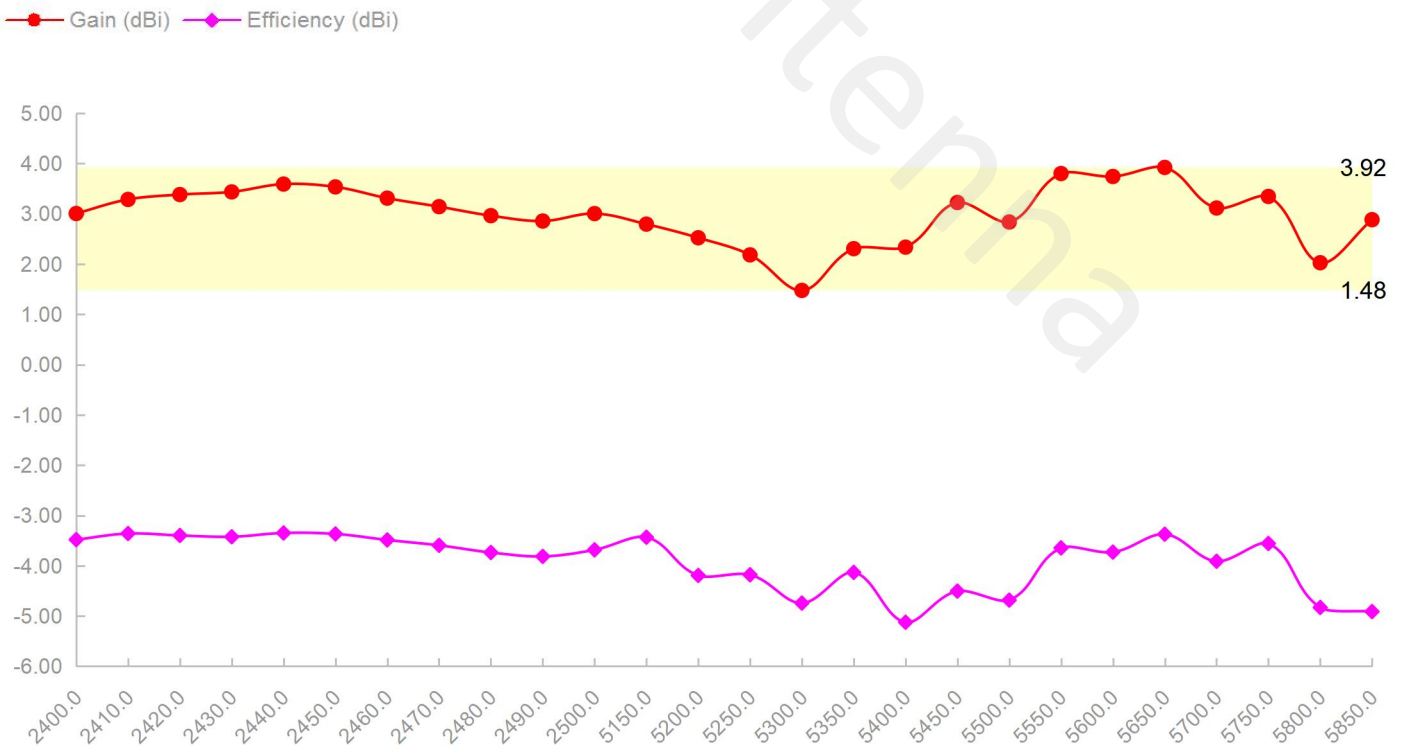


11/16/2022, 8:35 PM

## 4.2 Efficiency

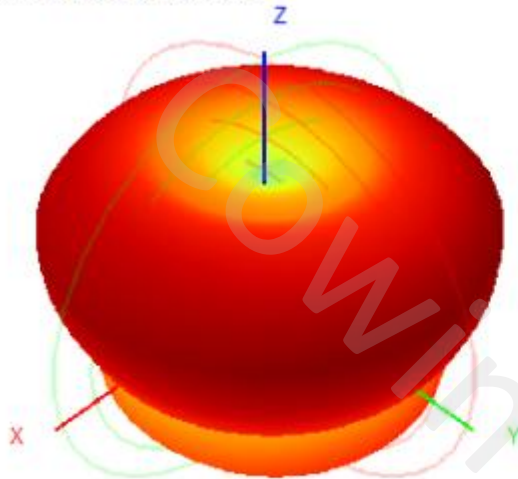


## 4.3 Peak gain

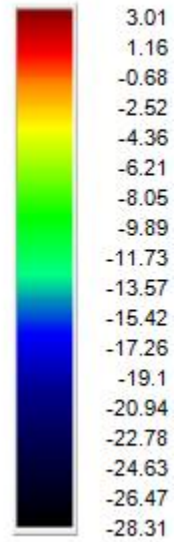
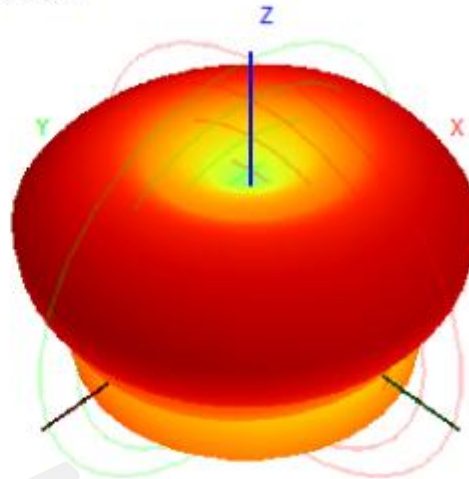


## 4.4 3D&2D Radiation Patterns

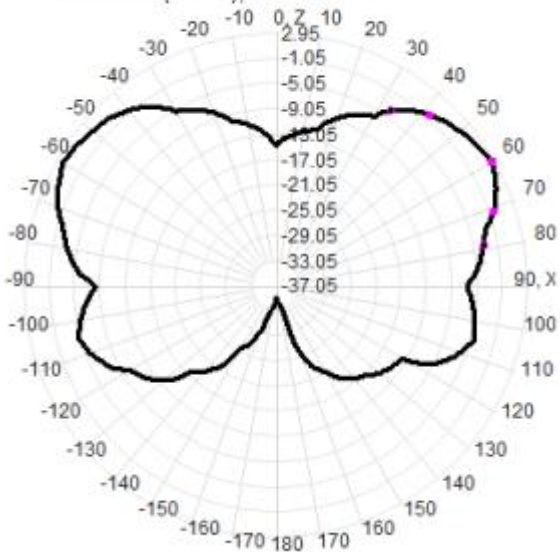
2400.0MHz H+V, Eff: 44.9%



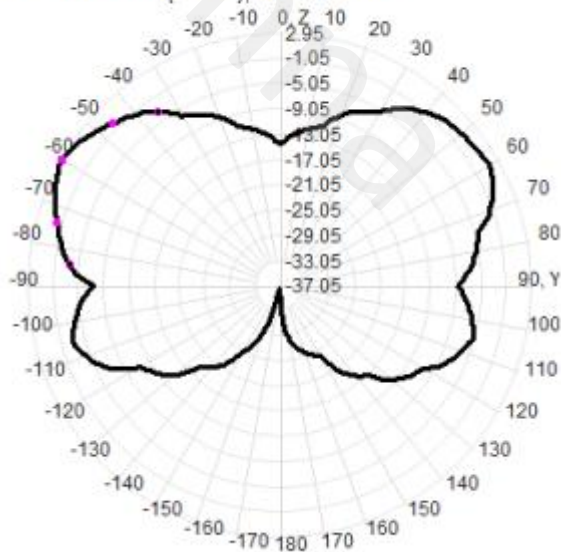
Back View



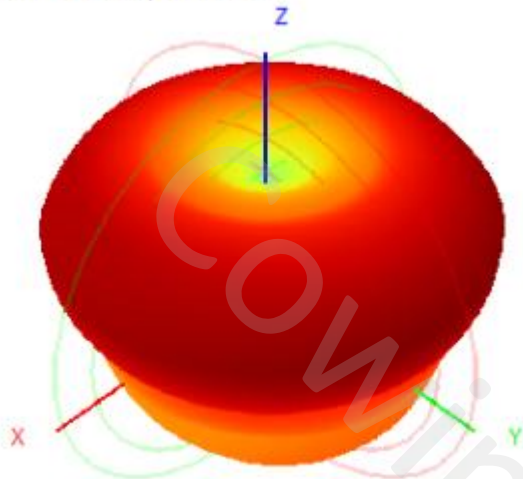
2400.0MHz Total(E1-XZ), Max= 2.42dBi



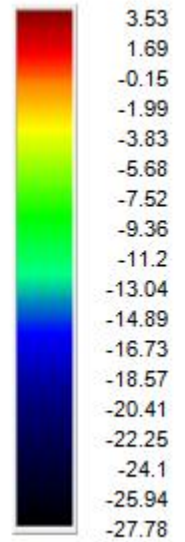
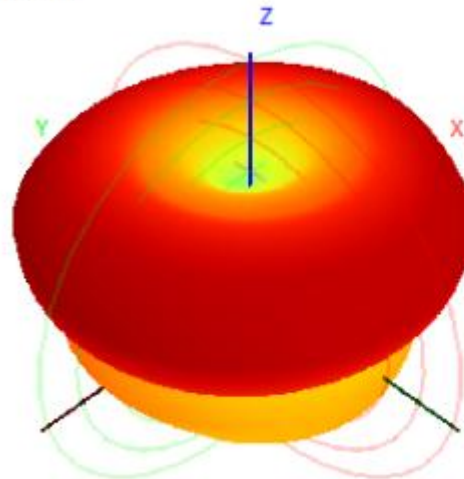
2400.0MHz Total(E2-YZ), Max= 2.95dBi



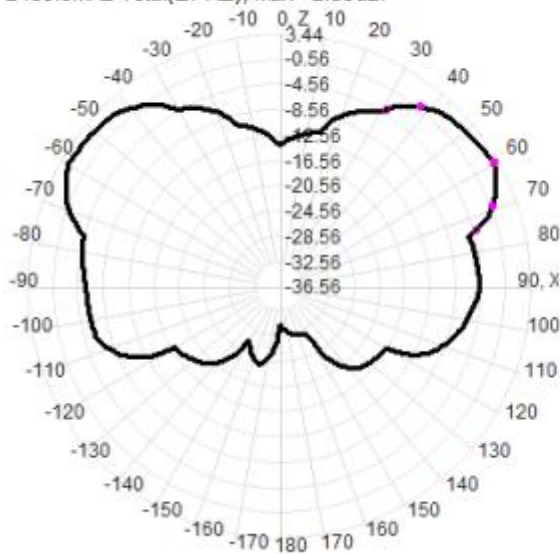
2450.0MHz H+V, Eff: 46.1%



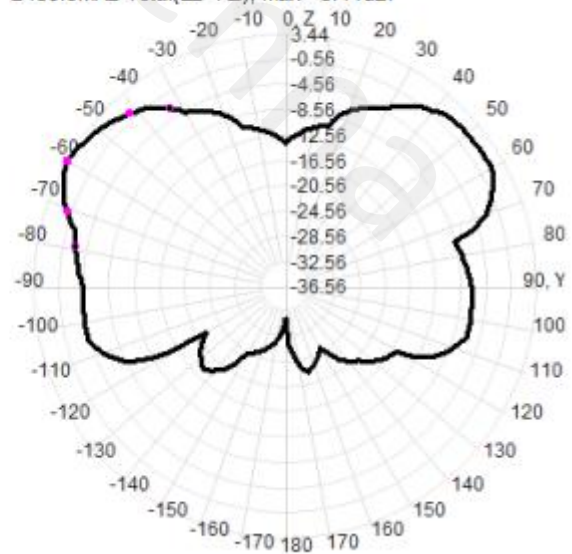
Back View



2450.0MHz Total(E1-XZ), Max= 2.59dBi

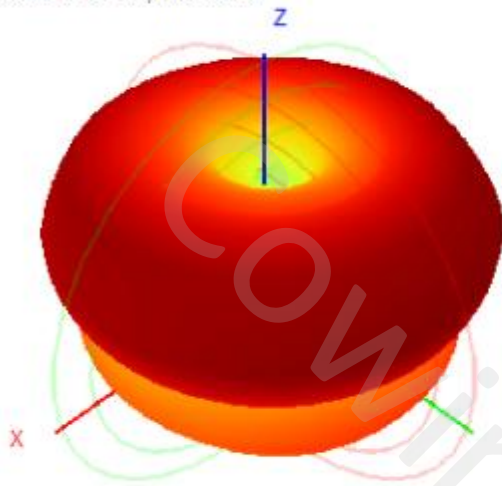


2450.0MHz Total(E2-YZ), Max= 3.44dBi

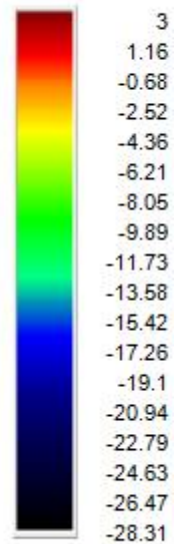
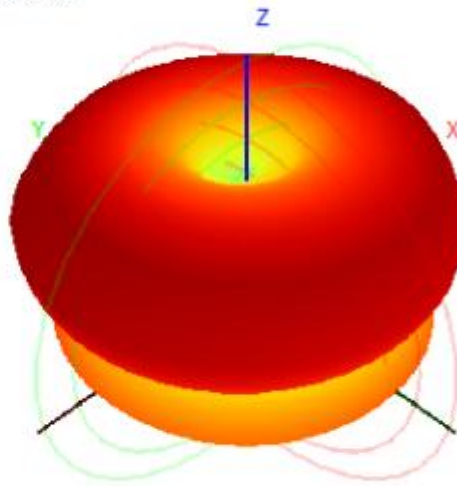




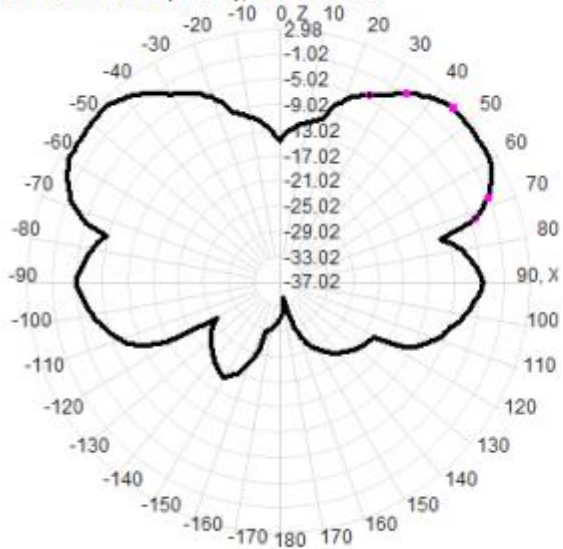
2500.0MHz H+V, Eff: 42.8%



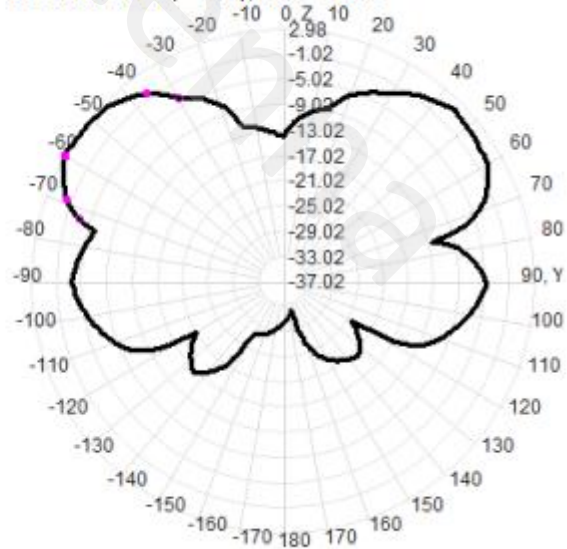
Back View



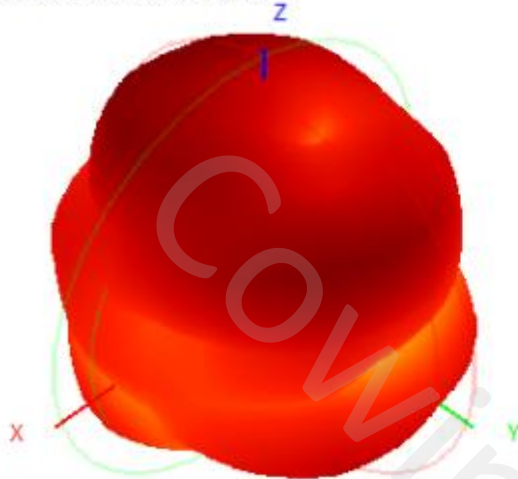
2500.0MHz Total(E1-XZ), Max= 1.98dBi



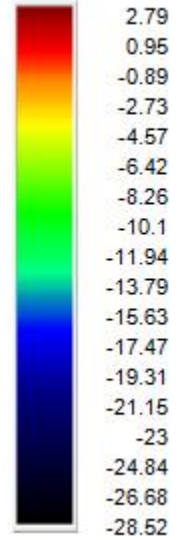
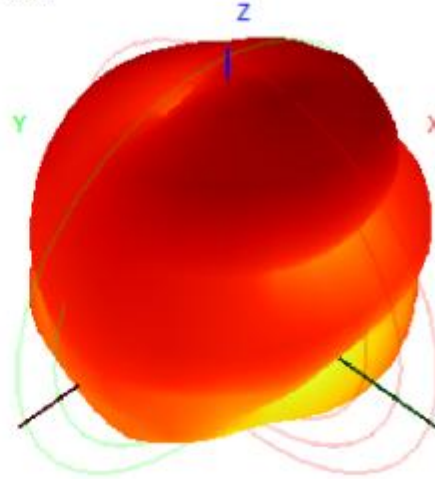
2500.0MHz Total(E2-YZ), Max= 2.98dBi



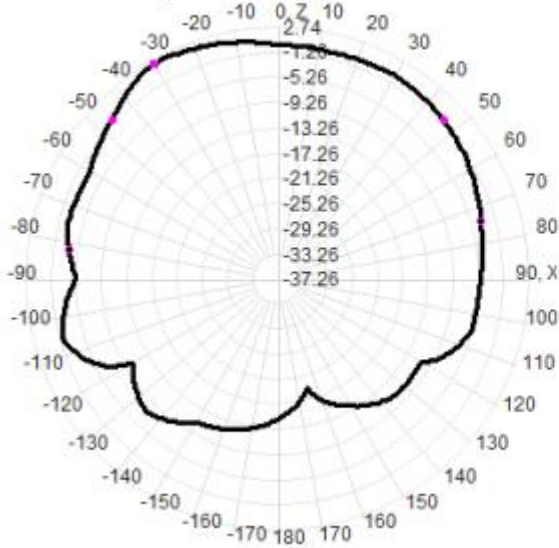
5150.0MHz H+V, Eff: 45.4%



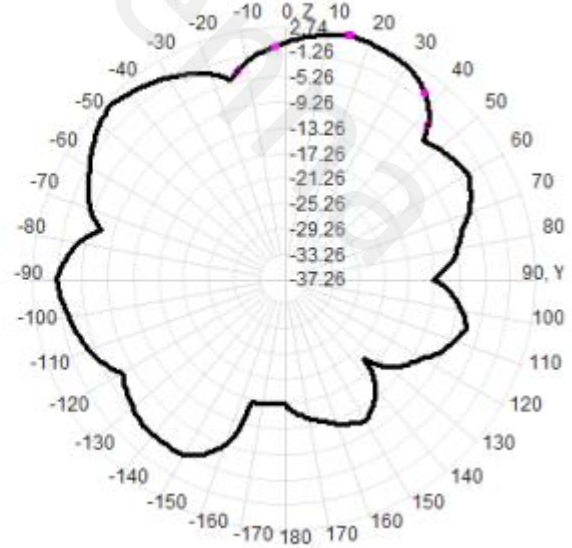
Back View



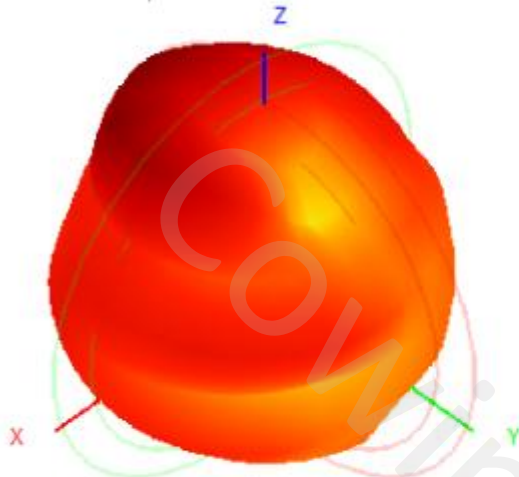
5150.0MHz Total(E1-XZ), Max= 2.23dBi



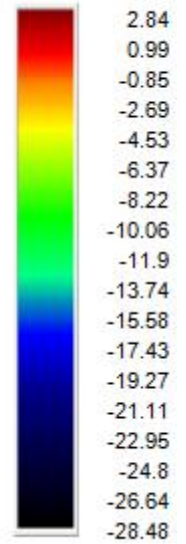
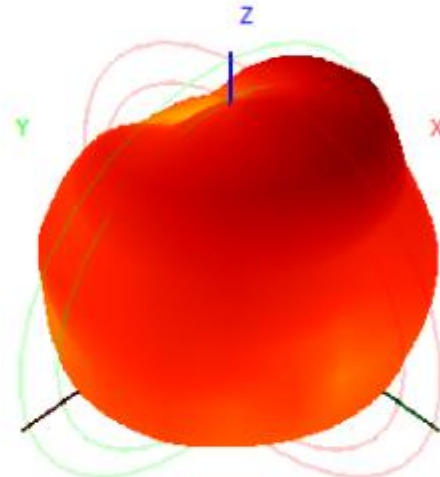
5150.0MHz Total(E2-YZ), Max= 2.74dBi



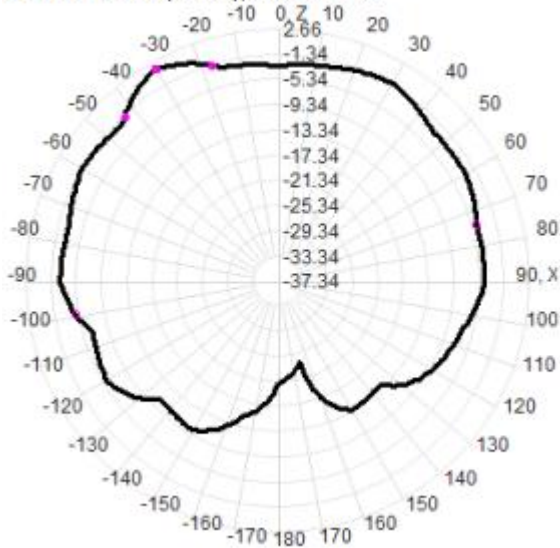
5500.0MHz H+V, Ef: 34.0%



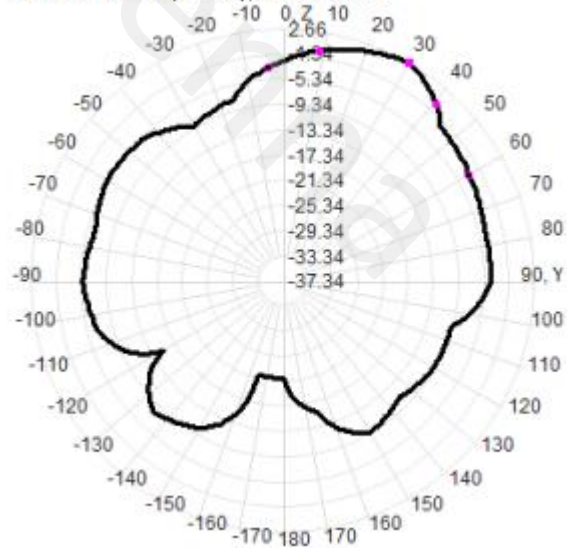
Back View



5500.0MHz Total(E1-XZ), Max= 1.45dBi

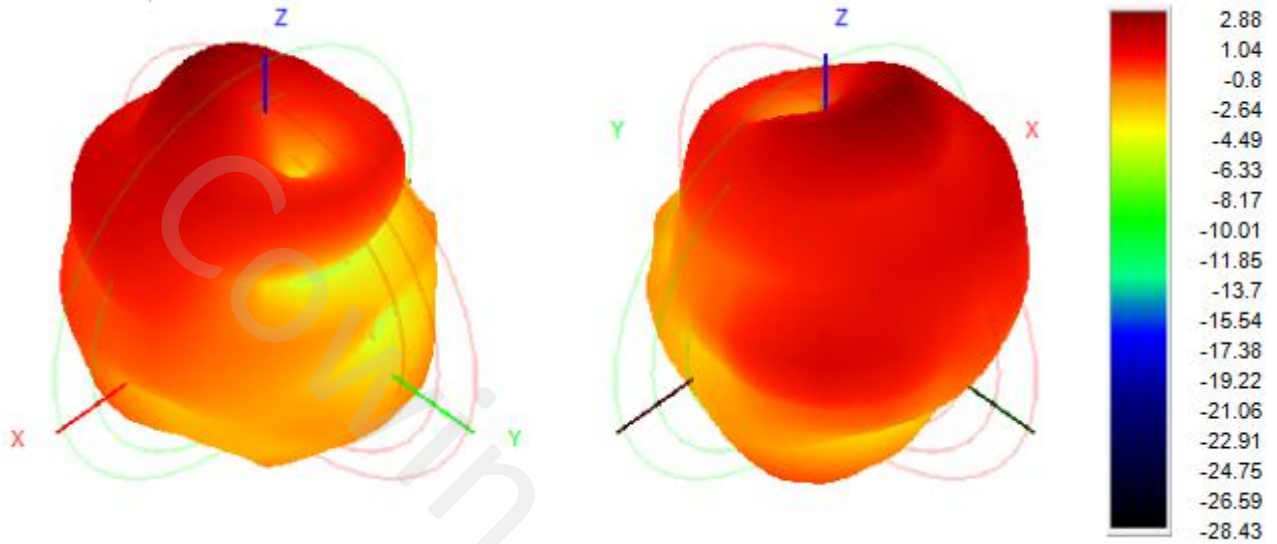


5500.0MHz Total(E2-YZ), Max= 2.66dBi



5850.0MHz H+V, Eff: 32.3%

Back View



5850.0MHz Total(E1-XZ), Max= 0.84dBi

5850.0MHz Total(E2-YZ), Max= 2.78dBi

