

## **CW-WZ-0067**

### **2.4G-2.5G External Antenna**

#### **Key Features**

Frequency: 2.4G-2.5G

SMA Male Connector

External Rubber

Dimensions 115\*8mm

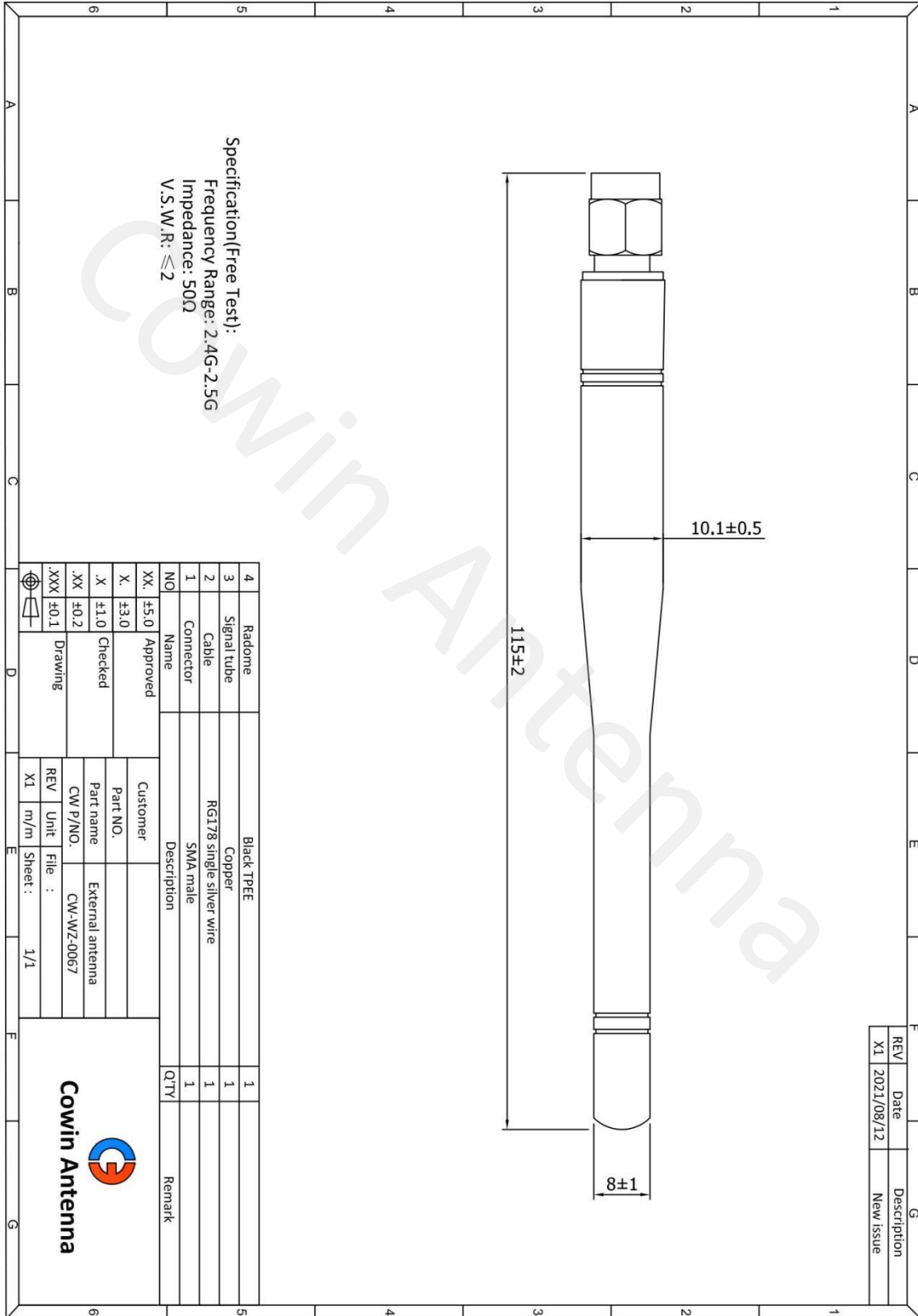


## 1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2.4G-2.5G
VSWR	2:1
Efficiency (%)	73.58%
Peak Gain (dBi)	2.82
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA male

## 2. Material and environmental characteristics

Material of PCB	N/A
Material of Plastic	TPEE
Cable Type	RG178
Connector Type	SMA male
Dimensions (mm)	115*8MM
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS



Specification(Free Test):  
 Frequency Range: 2.4G-2.5G  
 Impedance: 50Ω  
 V.S.W.R: ≤2

4	Radome	Black TPEE	1	
3	Signal tube	Copper	1	
2	Cable	RG178 single silver wire	1	
1	Connector	SMA male	1	
NO	Name	Description	QTY	Remark
XX.	±5.0	Approved		
X.	±3.0			
X.	±1.0	Checked		
.XX	±0.2	Part name	External antenna	
.XXX	±0.1	CW P/NO.	CW-WZ-0067	
		REV	File :	
		X1	m/m	1/1

REV	Date	Description
X1	2021/09/12	New issue



## 4. Antenna test parameters

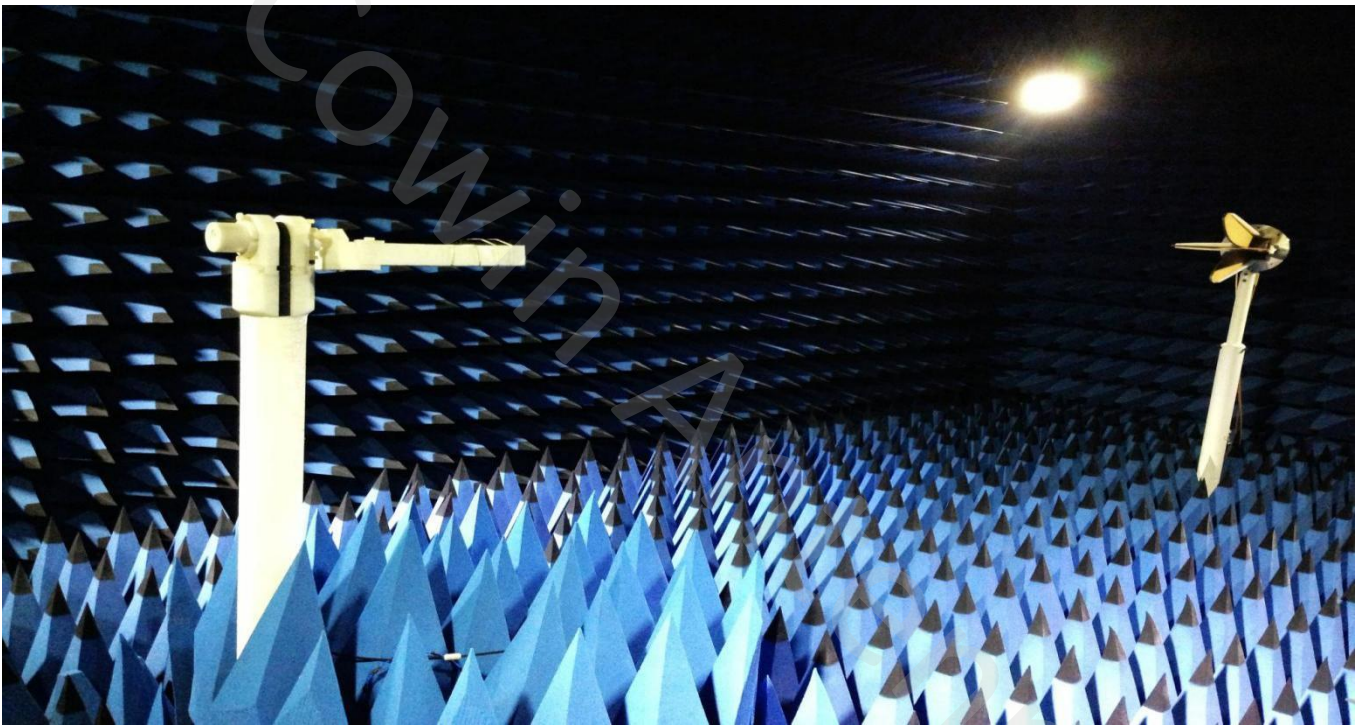
### Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

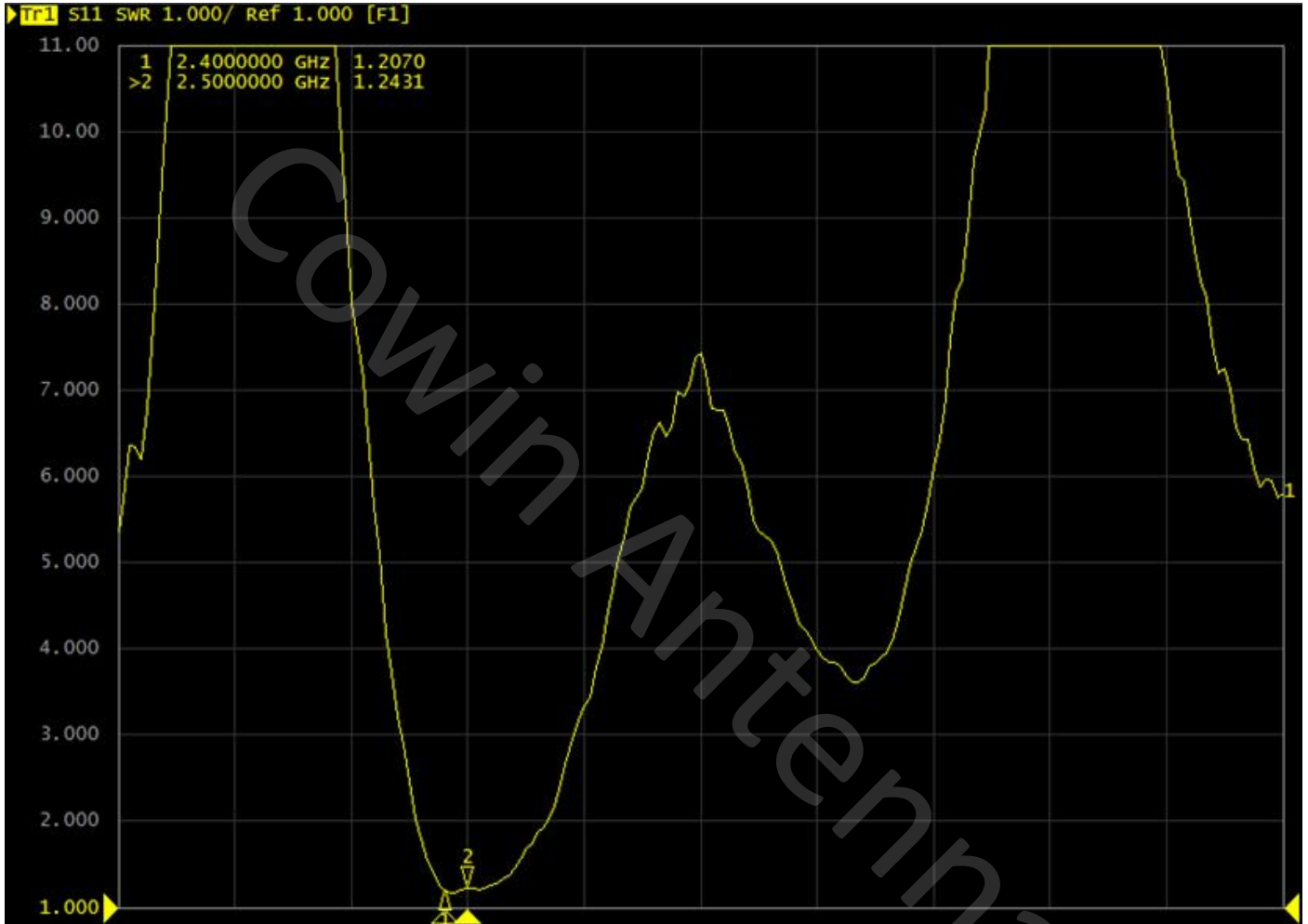
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

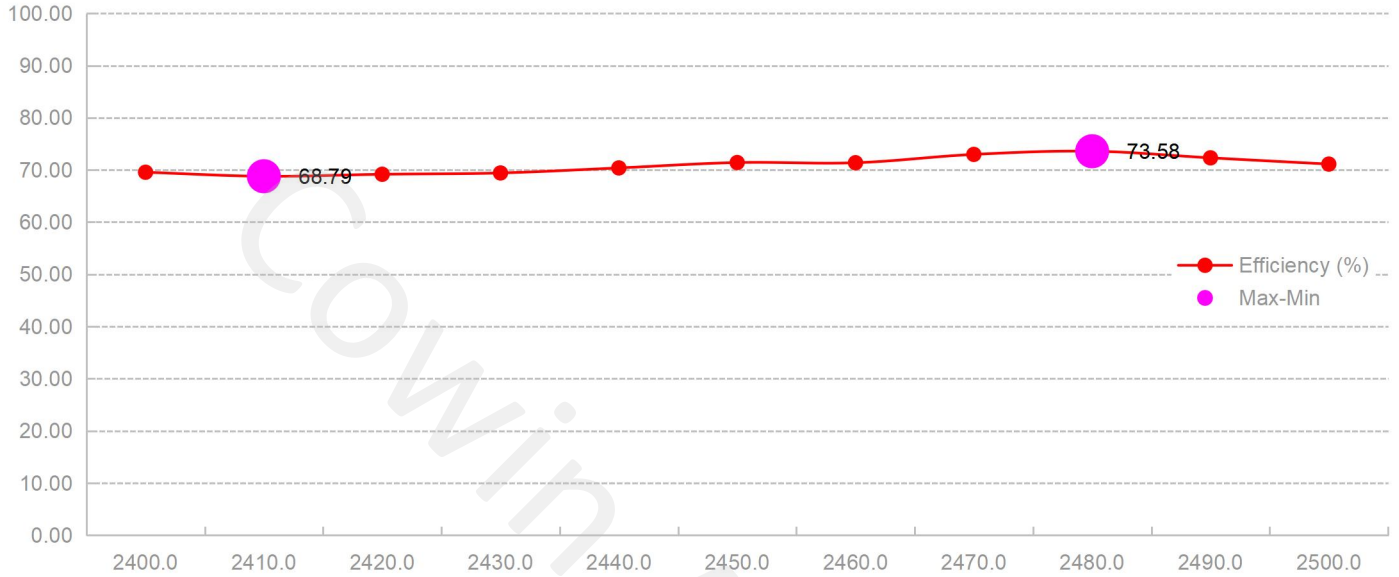
The comprehensive tester is Agilent cmv500



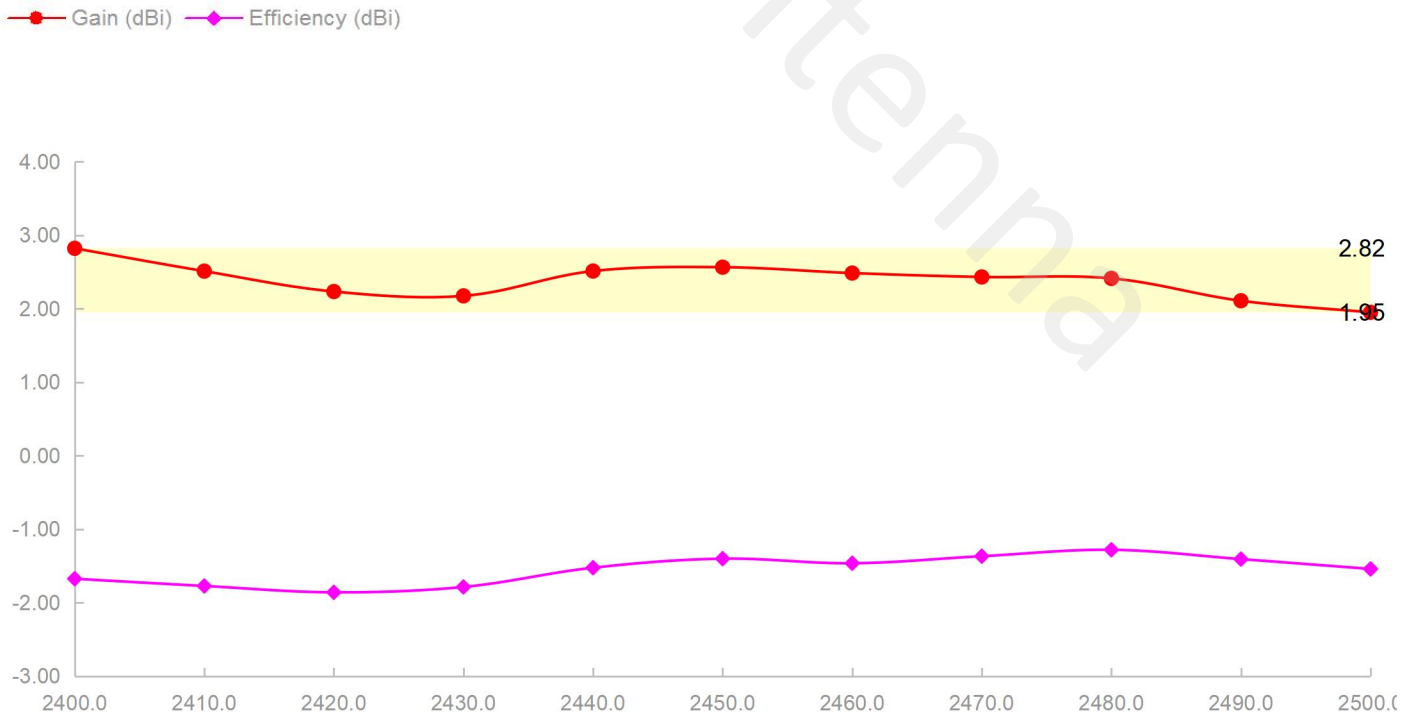
## 4.1 VSWR



## 4.2 Efficiency



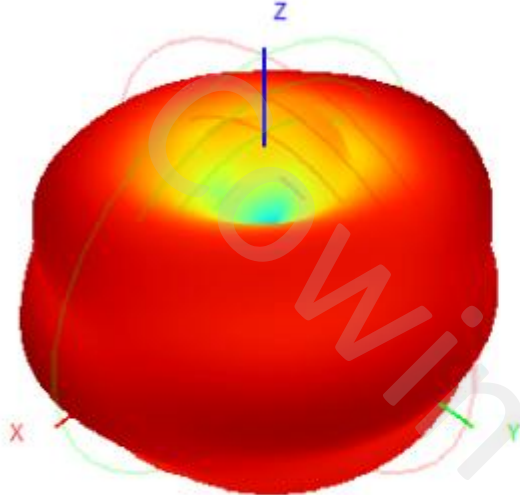
## 4.3 Peak gain



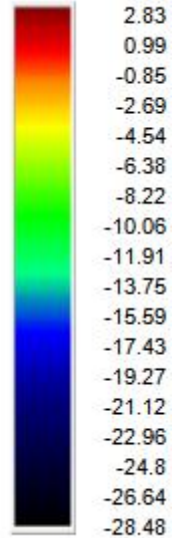
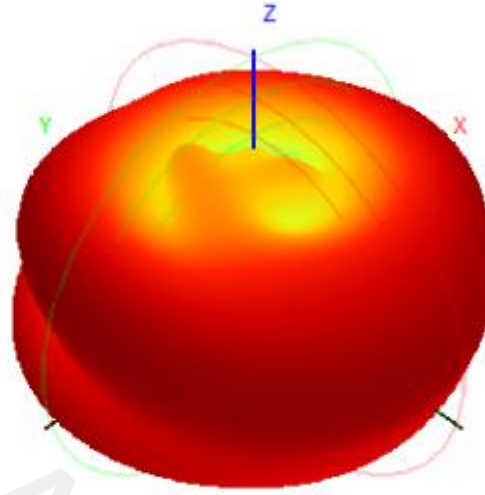


## 4.4 3D&2D Radiation Patterns

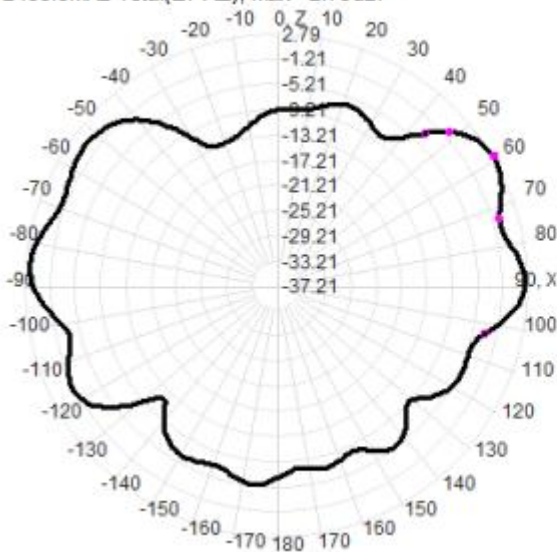
2400.0MHz H+V, Eff: 69.6%



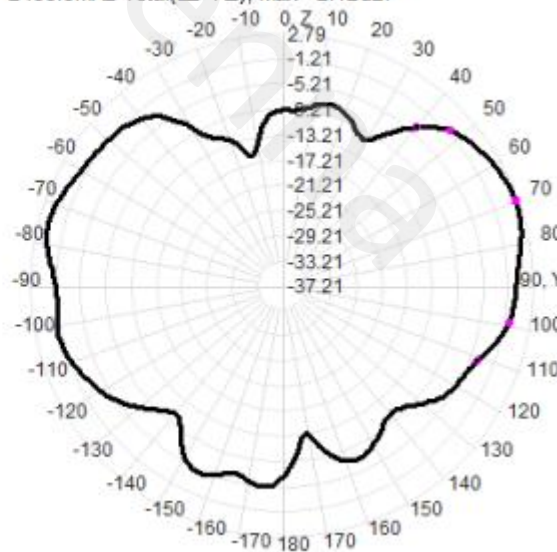
Back View



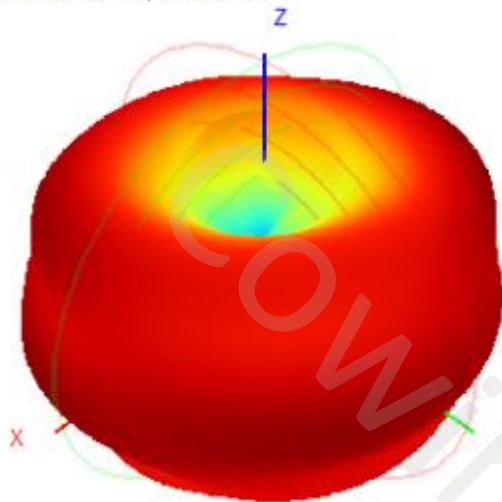
2400.0MHz Total(E1-XZ), Max= 2.79dBi



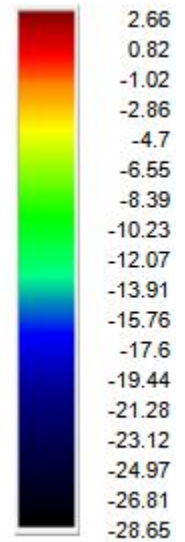
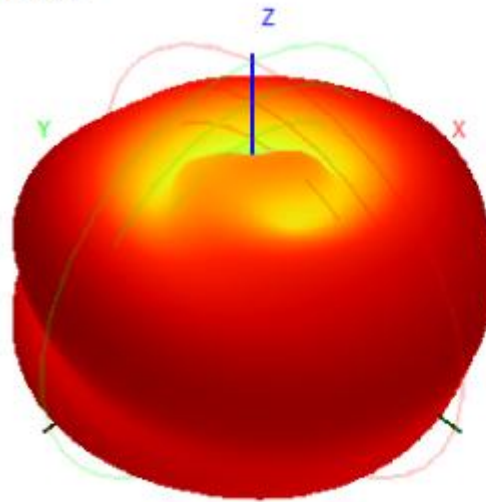
2400.0MHz Total(E2-YZ), Max= 2.12dBi



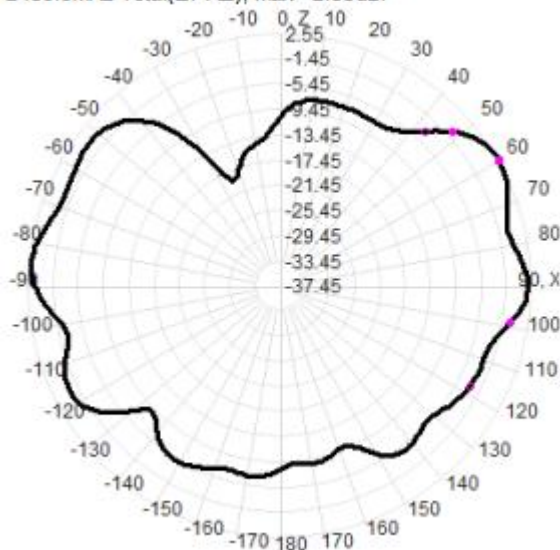
2450.0MHz H+V, Eff: 71.4%



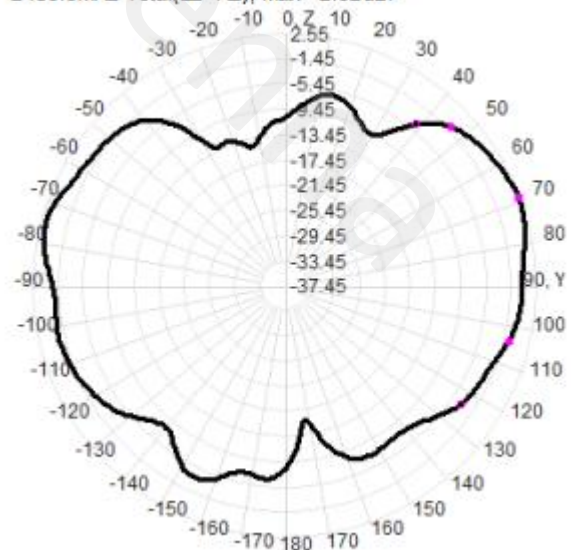
Back View



2450.0MHz Total(E1-XZ), Max= 2.55dBi

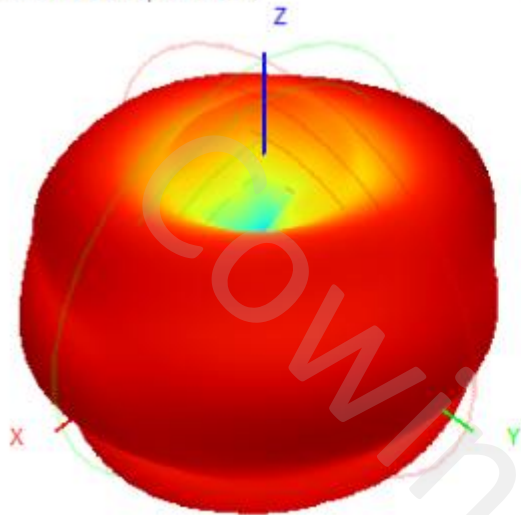


2450.0MHz Total(E2-YZ), Max= 2.02dBi

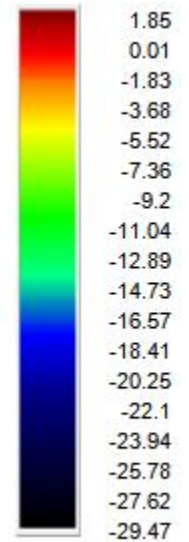
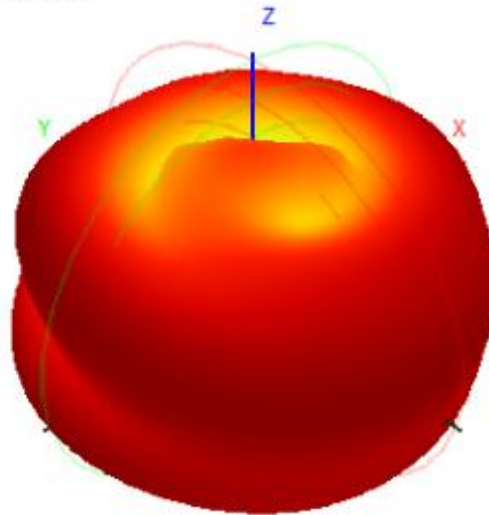




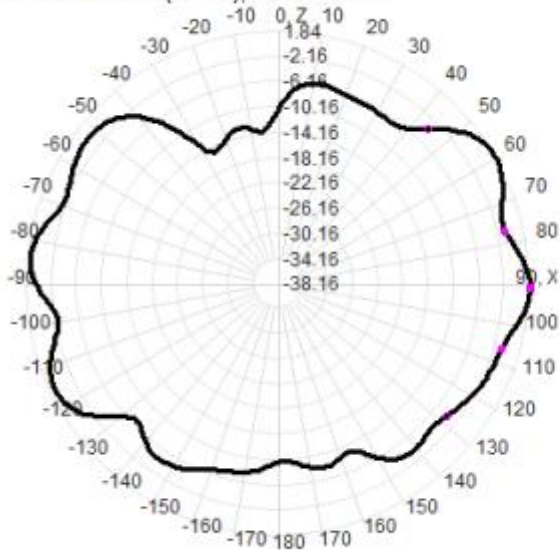
2500.0MHz H+V, Eff: 71.1%



Back View



2500.0MHz Total(E1-XZ), Max= 1.82dBi



2500.0MHz Total(E2-YZ), Max= 1.44dBi

