

## **CW-WZ-0081**

### **2.4/5.8G External Antenna**

#### **Key Features**

Frequency: 2.4-2.5G/5.15-5.85G

I-PEX Connector

Screw Mount

Dimensions 46\*16 mm



## 1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2.4-2.5G/5.15-5.85G
VSWR	2:1
Efficiency (%)	65.45%/62%
Peak Gain (dBi)	3.23/3.39
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	I-PEX

## 2. Material and environmental characteristics

Inner structure	PCB
Material of Plastic	ABS
Cable Type	RF1.13
Connector Type	I-PEX
Dimensions (mm)	46*16MM
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

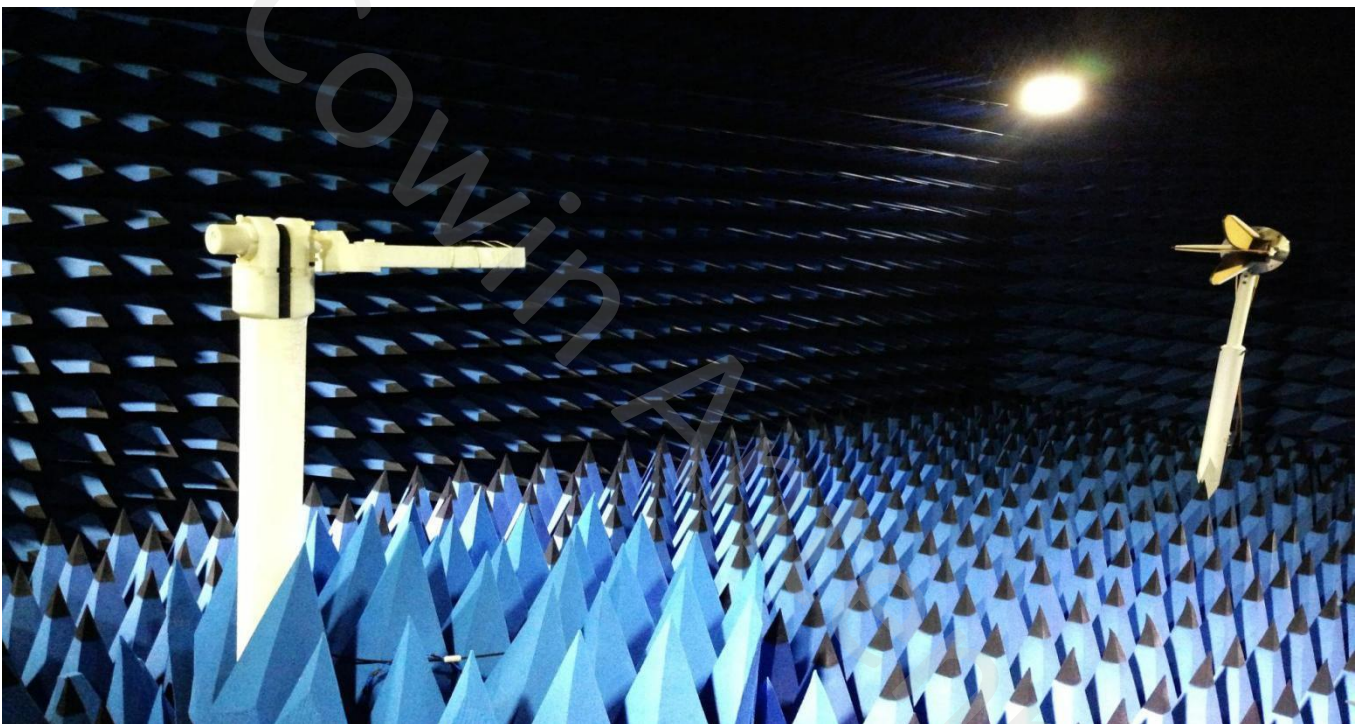
**Antenna Measurement Conditions:**

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

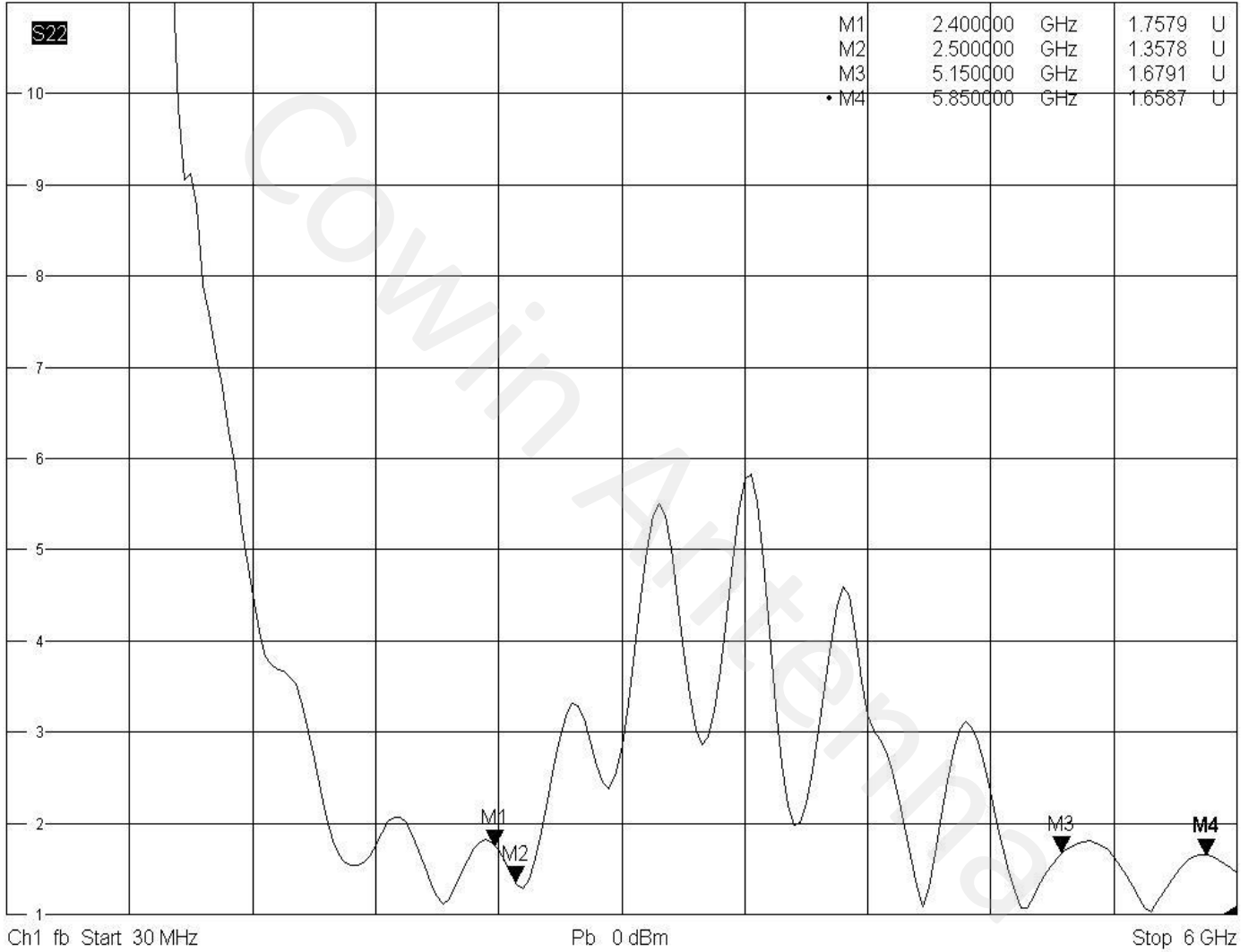


## 4.1 VSWR



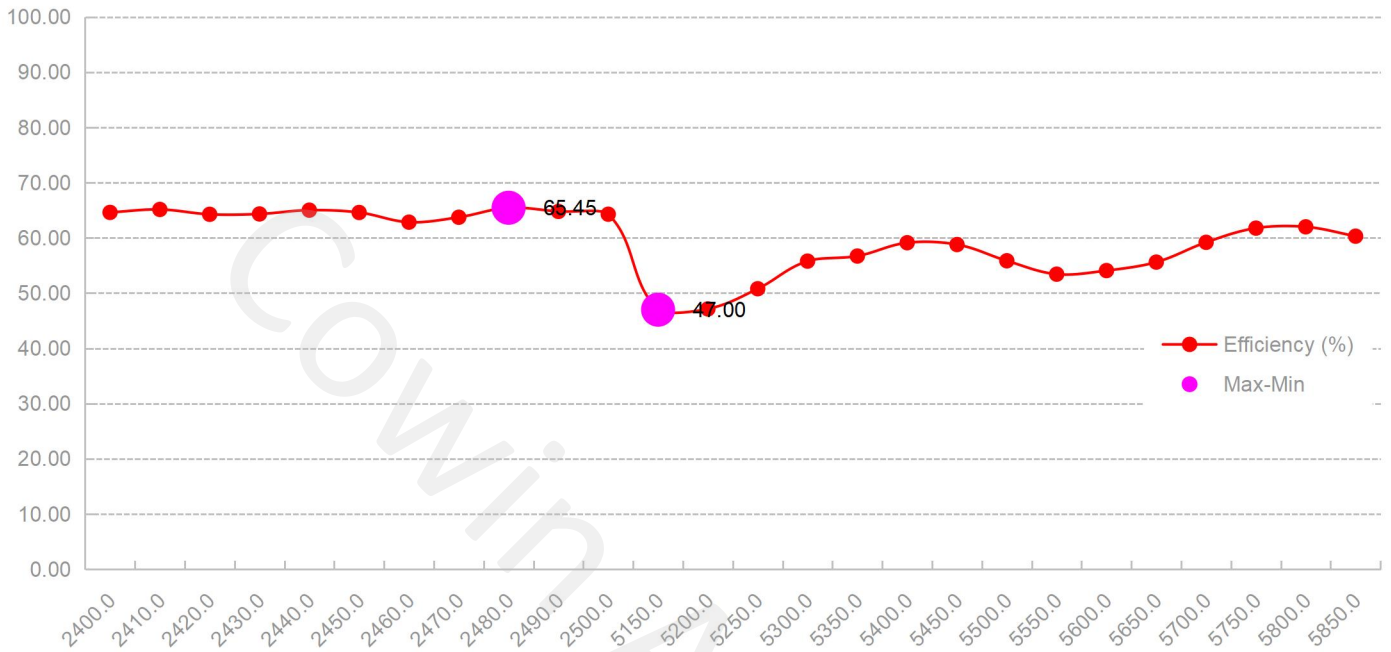
Trc1 **S22** SWR 1 U / Ref 1 U Cal

1

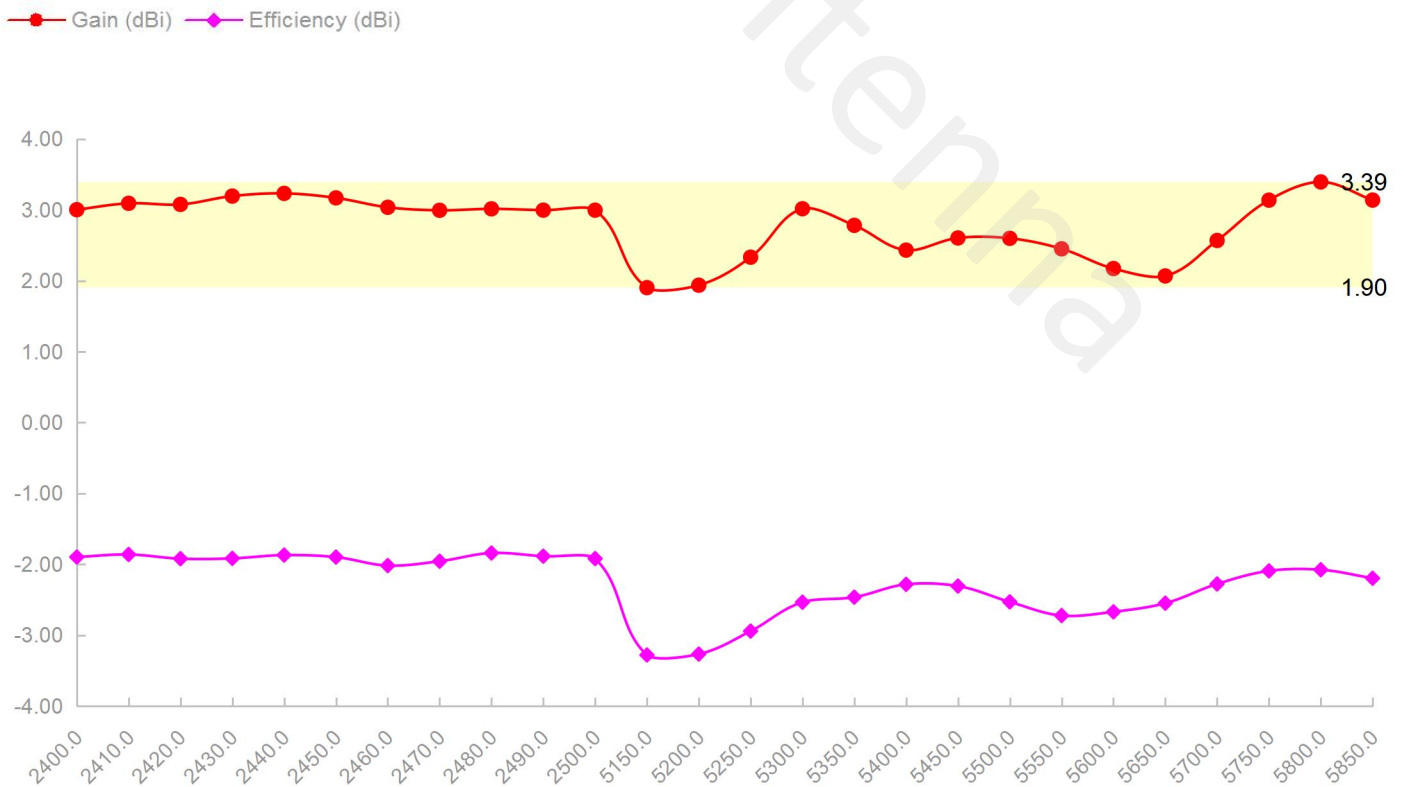


8/18/2022, 11:06 PM

## 4.2 Efficiency

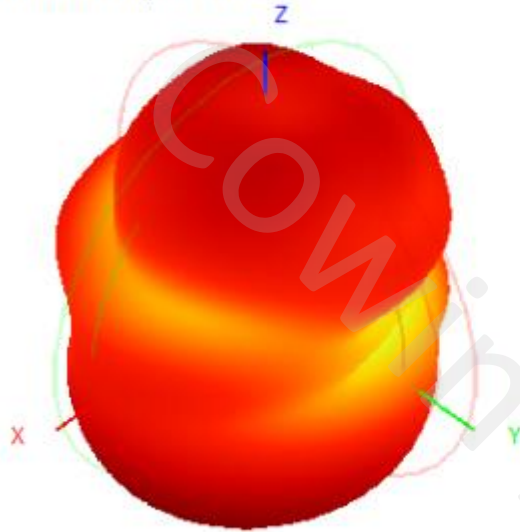


## 4.3 Peak gain

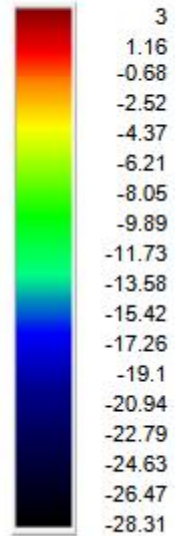
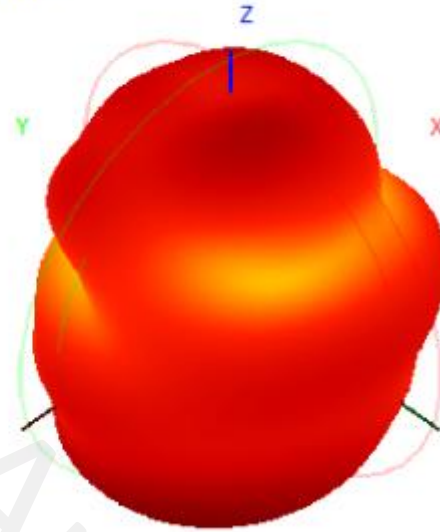


## 4.4 3D&2D Radiation Patterns

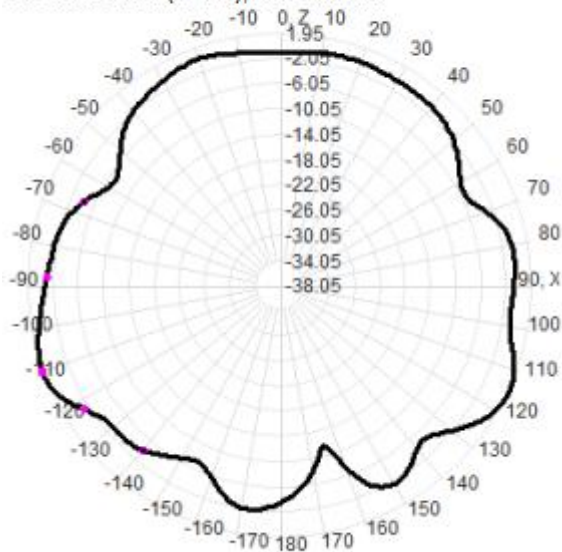
2400.0MHz H+V, Eff: 64.6%



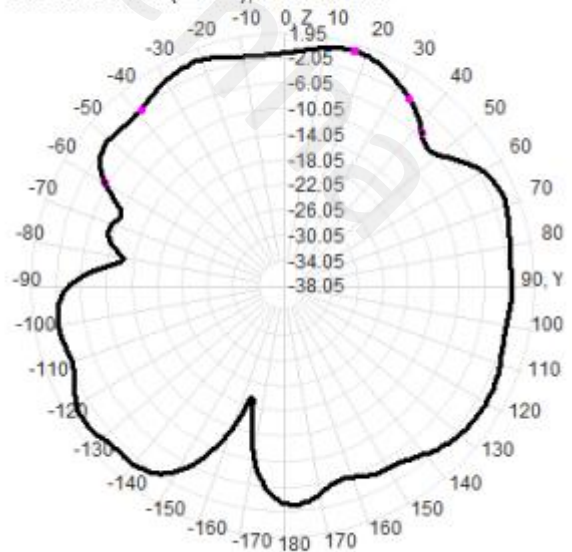
Back View



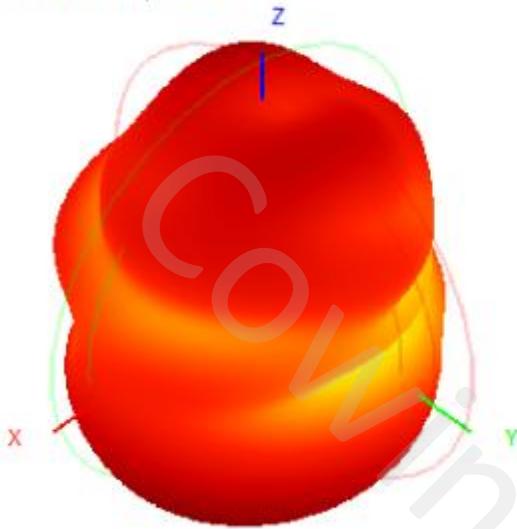
2400.0MHz Total(E1-XZ), Max= 1.95dBi



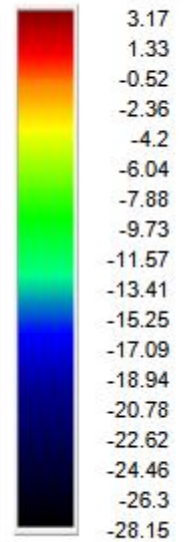
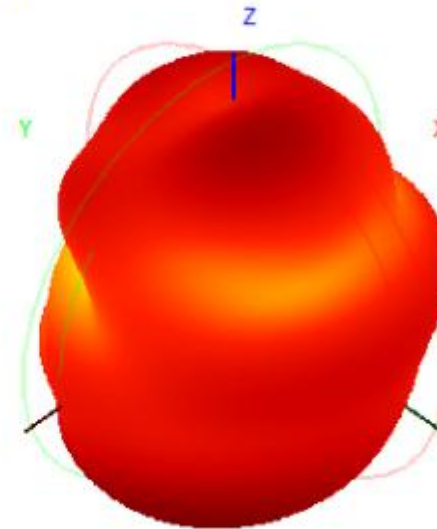
2400.0MHz Total(E2-YZ), Max= 0.83dBi



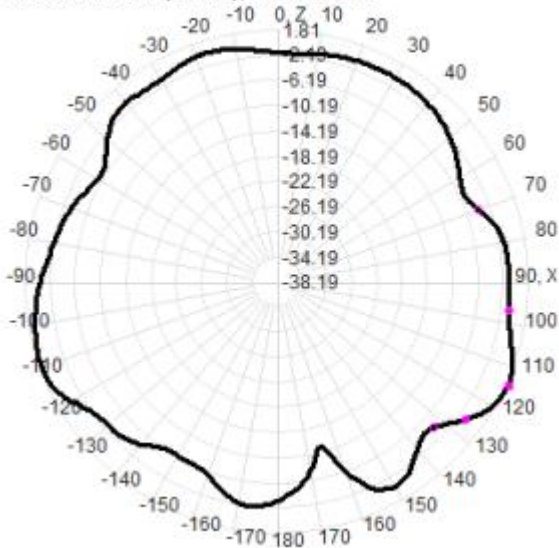
2450.0MHz H+V, Eff: 64.6%



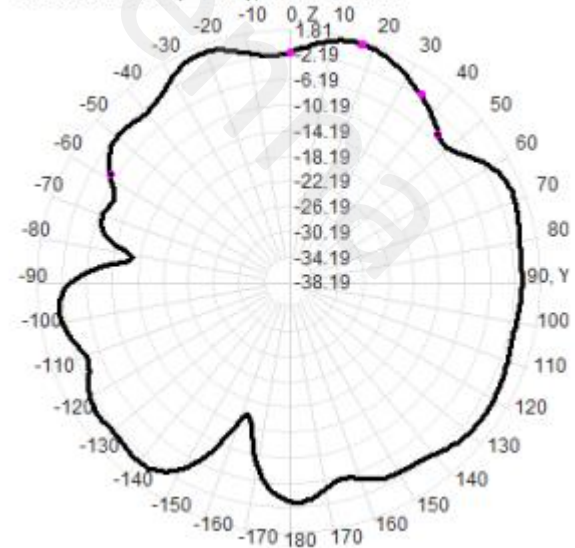
Back View



2450.0MHz Total(E1-XZ), Max= 1.81dBi

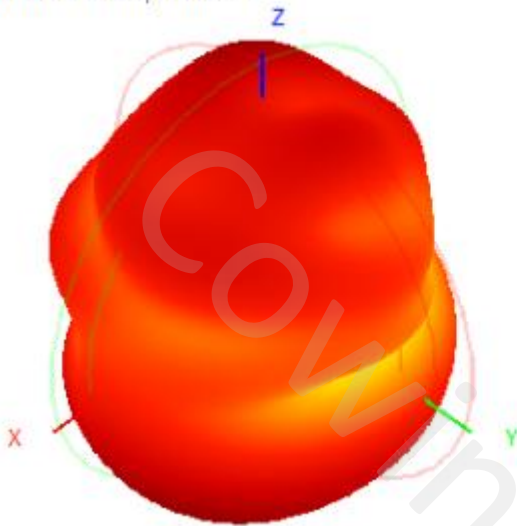


2450.0MHz Total(E2-YZ), Max= 1.29dBi

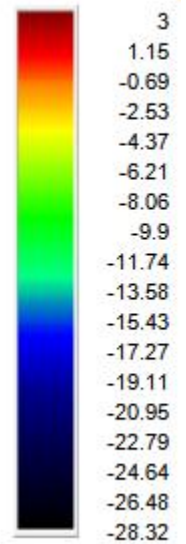
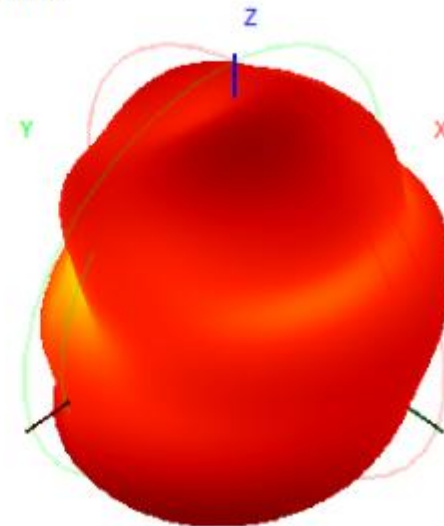




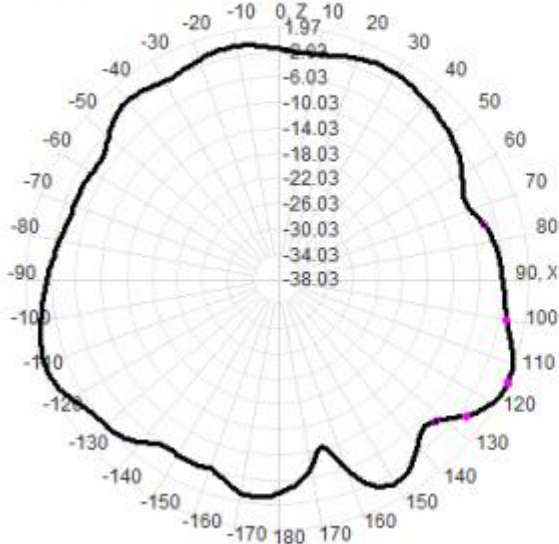
2500.0MHz H+V, Eff: 64.3%



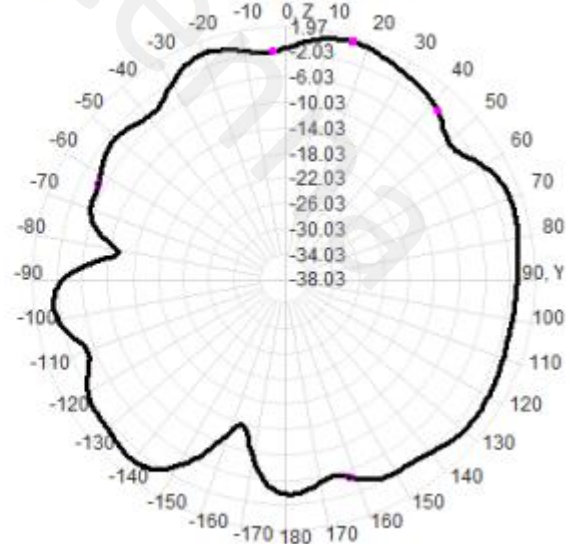
Back View



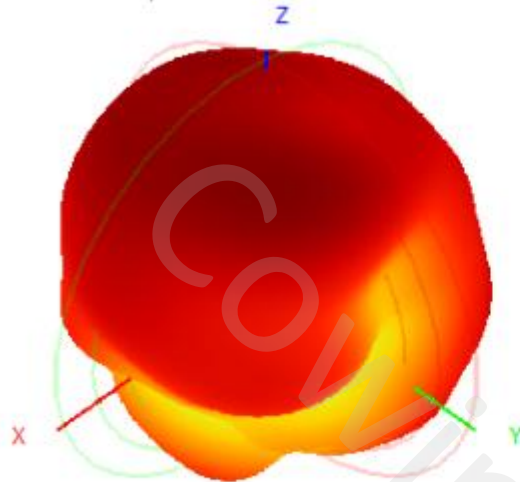
2500.0MHz Total(E1-XZ), Max= 1.92dBi



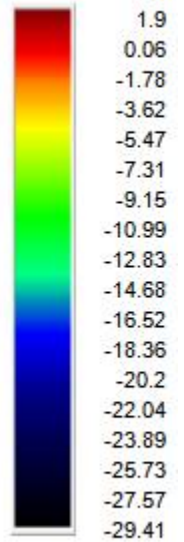
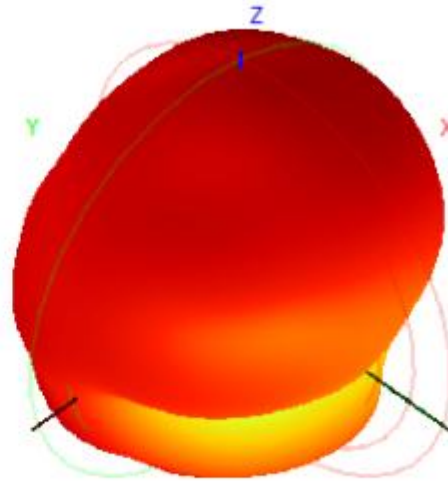
2500.0MHz Total(E2-YZ), Max= 1.11dBi



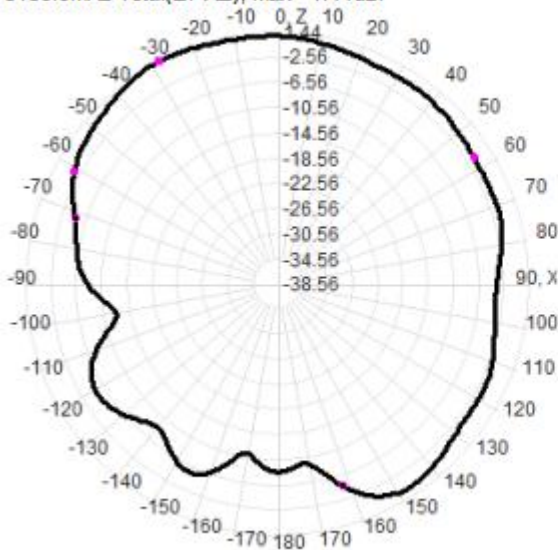
5150.0MHz H+V, Eff: 47.0%



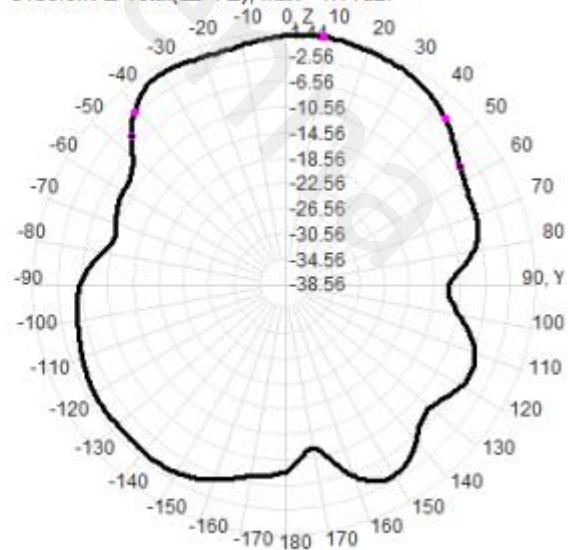
Back View



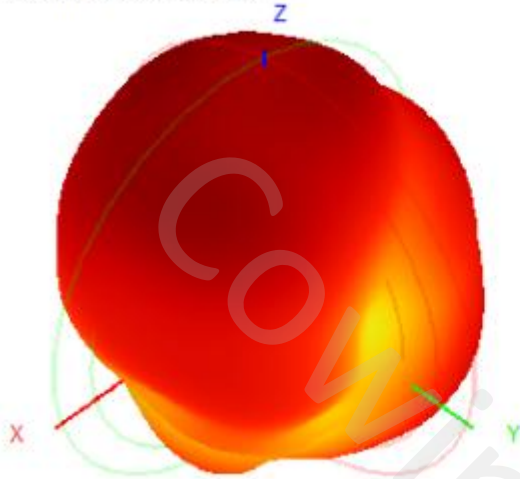
5150.0MHz Total(E1-XZ), Max= 1.44dBi



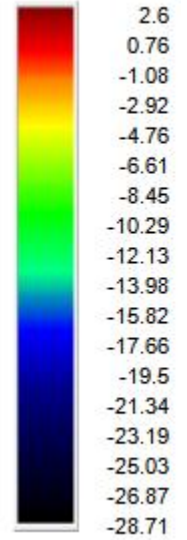
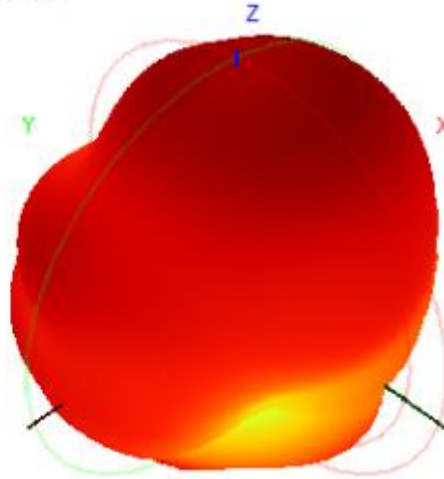
5150.0MHz Total(E2-YZ), Max= 1.11dBi



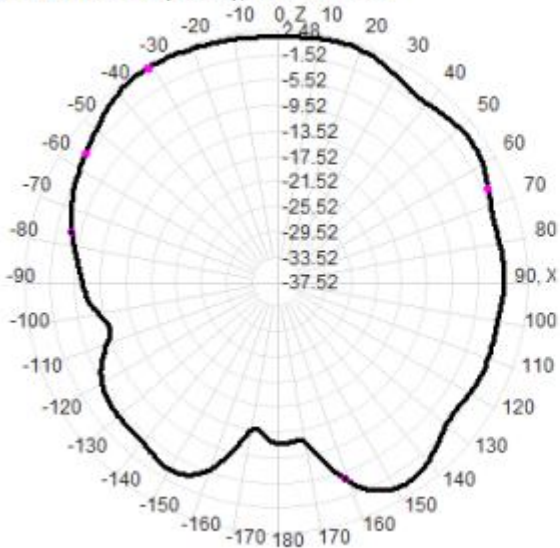
5450.0MHz H+V, Eff: 58.8%



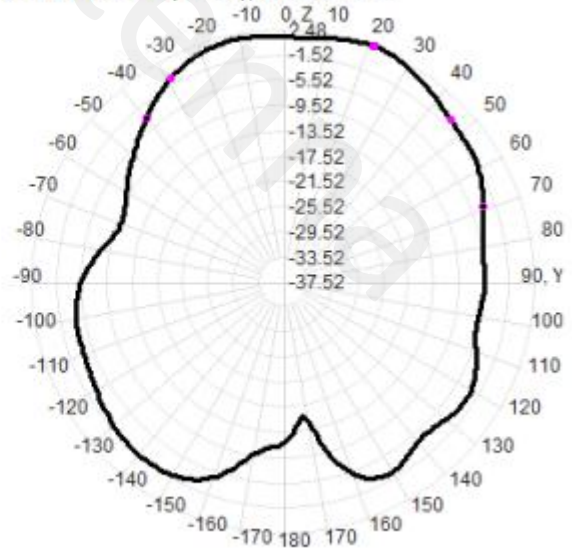
Back View



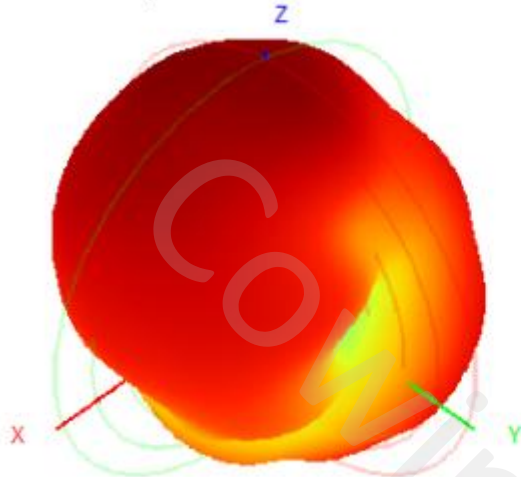
5450.0MHz Total(E1-XZ), Max= 2.08dBi



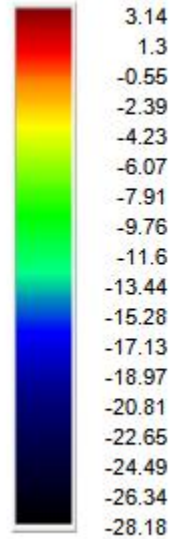
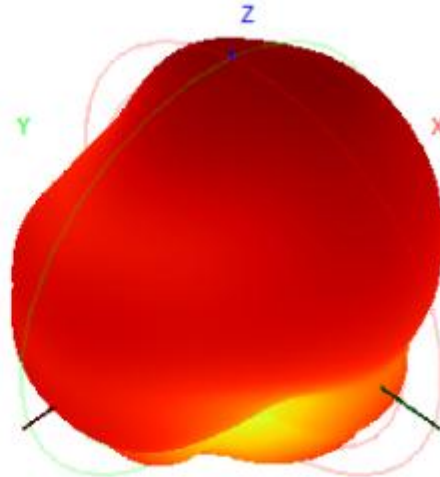
5450.0MHz Total(E2-YZ), Max= 2.48dBi



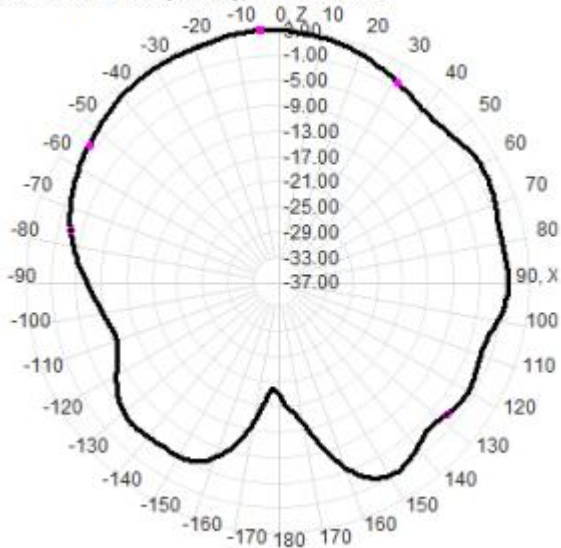
5850.0MHz H+V, Eff: 60.3%



Back View



5850.0MHz Total(E1-XZ), Max= 3.00dBi



5850.0MHz Total(E2-YZ), Max= 2.95dBi

