

CW-WZ-0228

2.4G External Antenna

Key Features

Frequency: 2400-2500MHz

Connector Type: SMA Male

Cable Type: RG178 Silver tin cable

Dimensions: 80*8.1mm



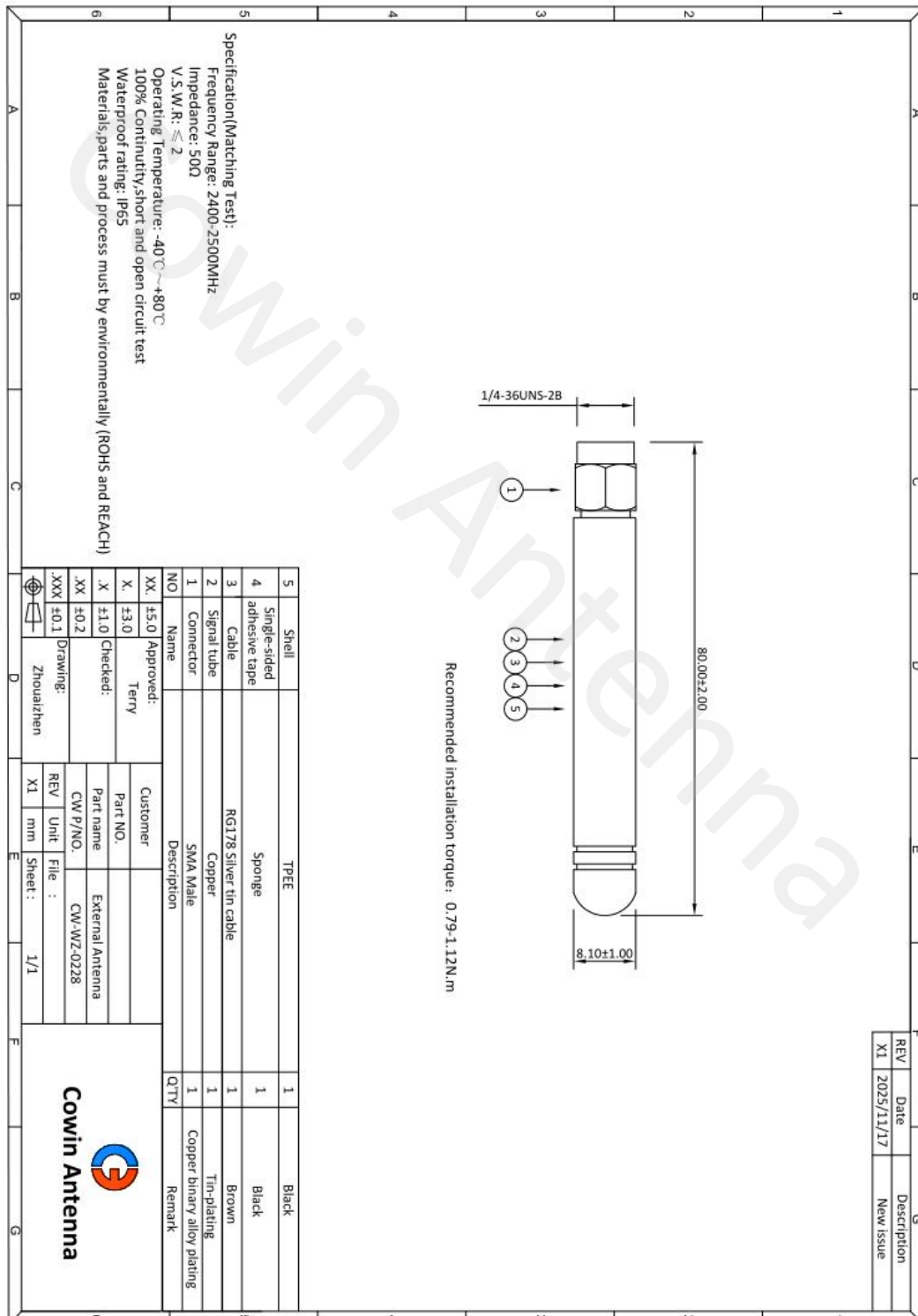
1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2400-2500
VSWR	≤2
Efficiency (%)	97.87
Peak Gain (dBi)	3.54
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10

2. Material and environmental characteristics

External Structure	TPEE
Inner Structure	Signal tube
Cable Type	RG178 Silver tin cable
Connector Type	SMA Male
Dimensions (mm)	80*8.1
Antenna Color	Black
Operation Temperature	-40°C to +80°C
Storage Temperature	-40°C to +80°C
Antenna Storage life(year)	10
Substance Compliance	ROHS

3. Antenna drawing



4. Antenna test parameters

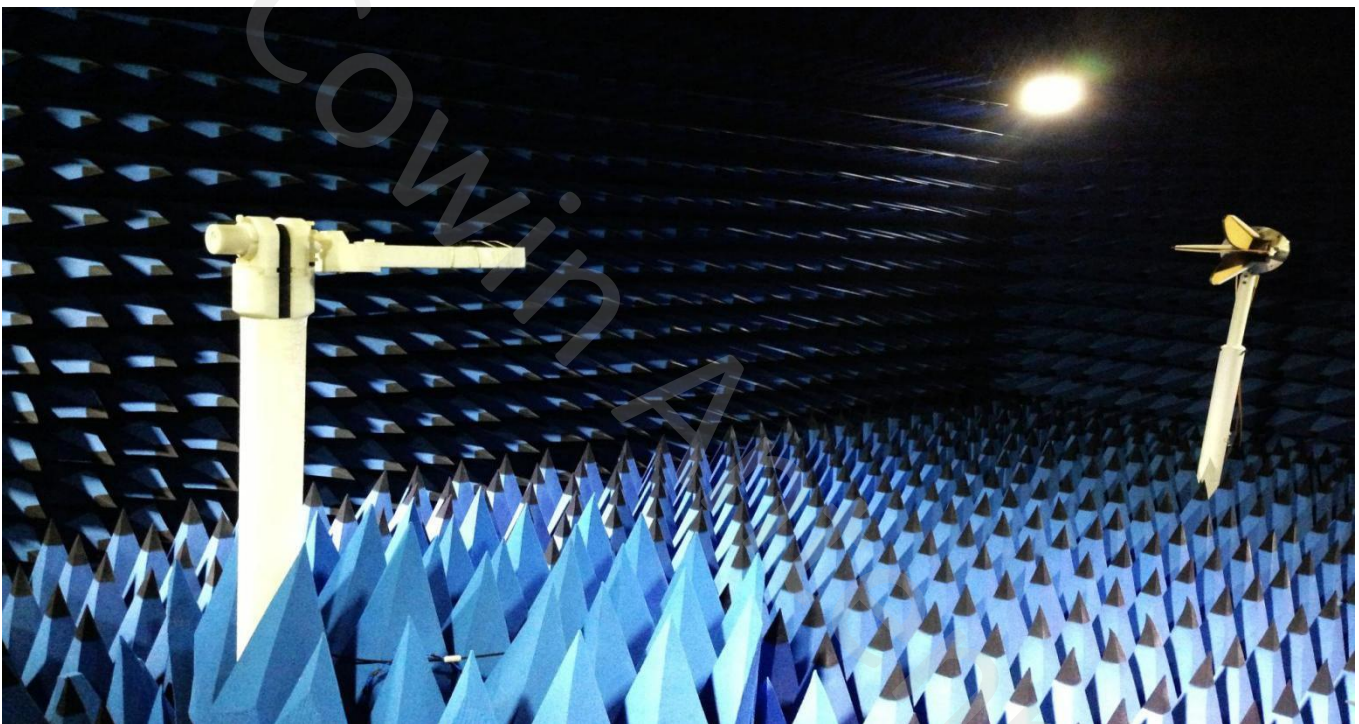
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

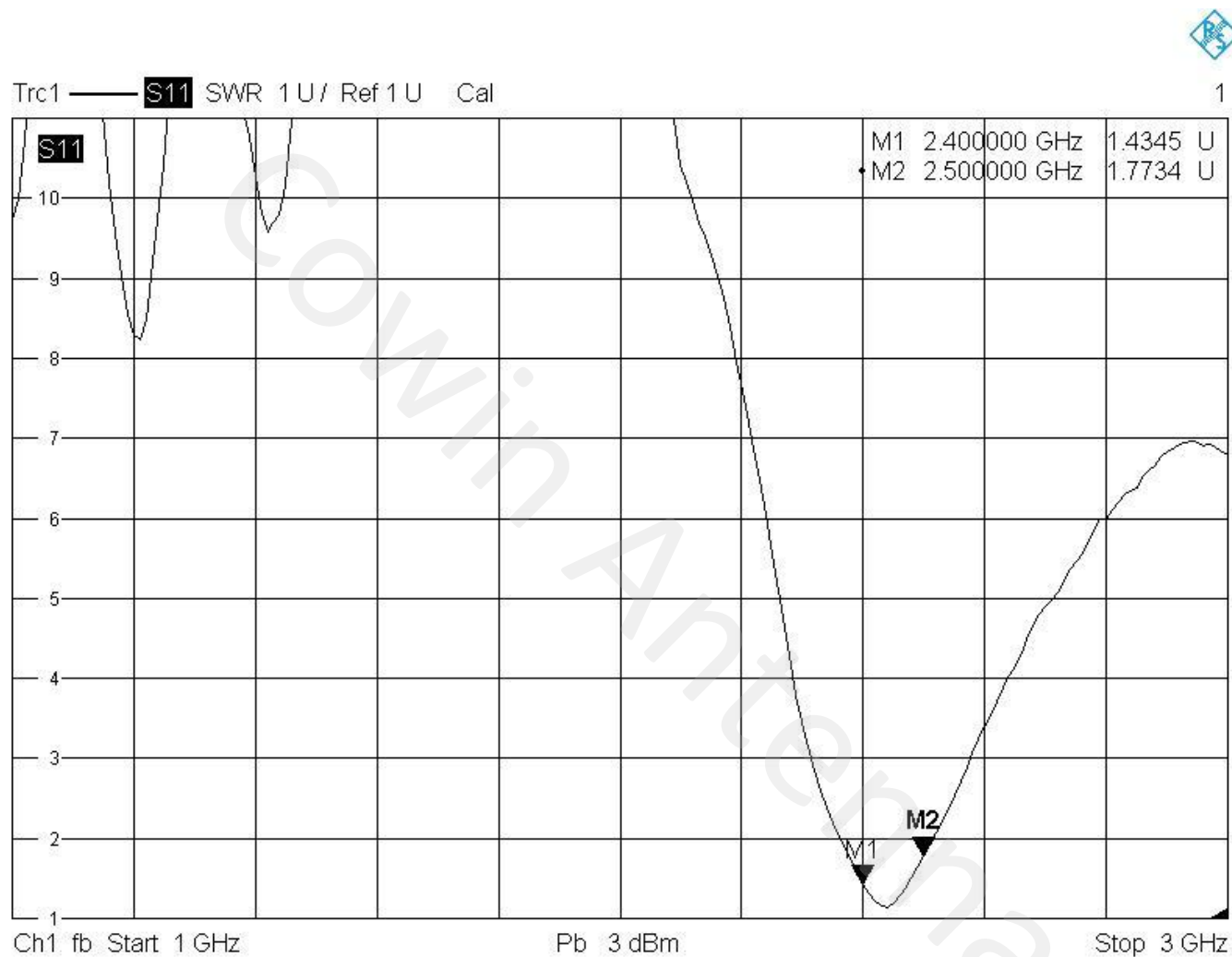
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

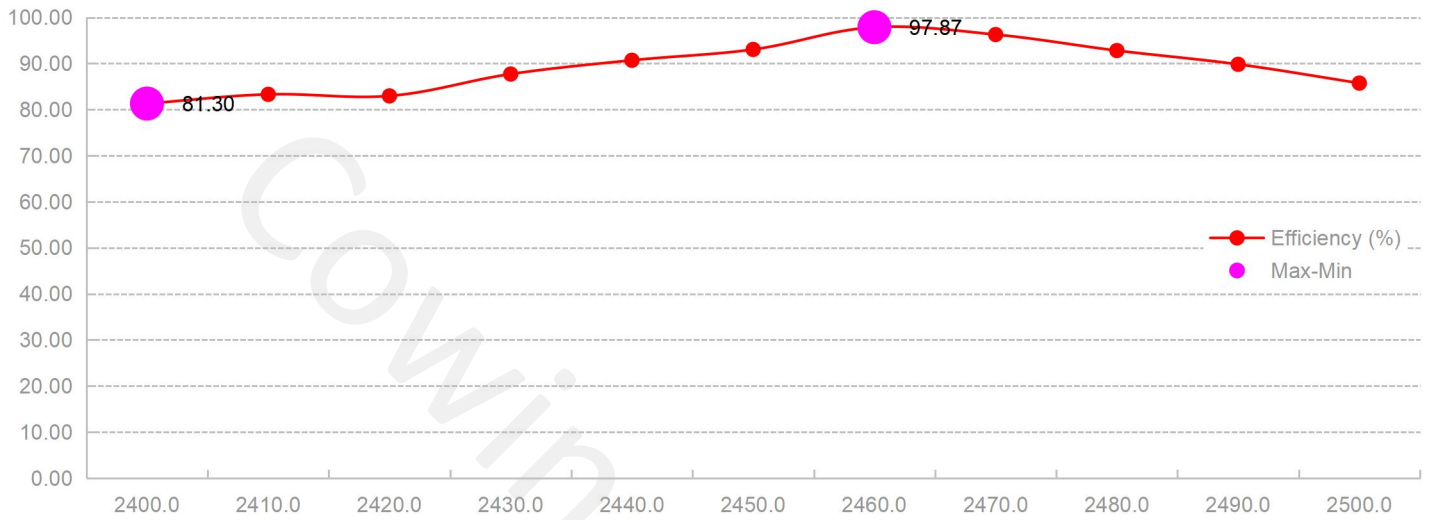
The comprehensive tester is Agilent cmv500



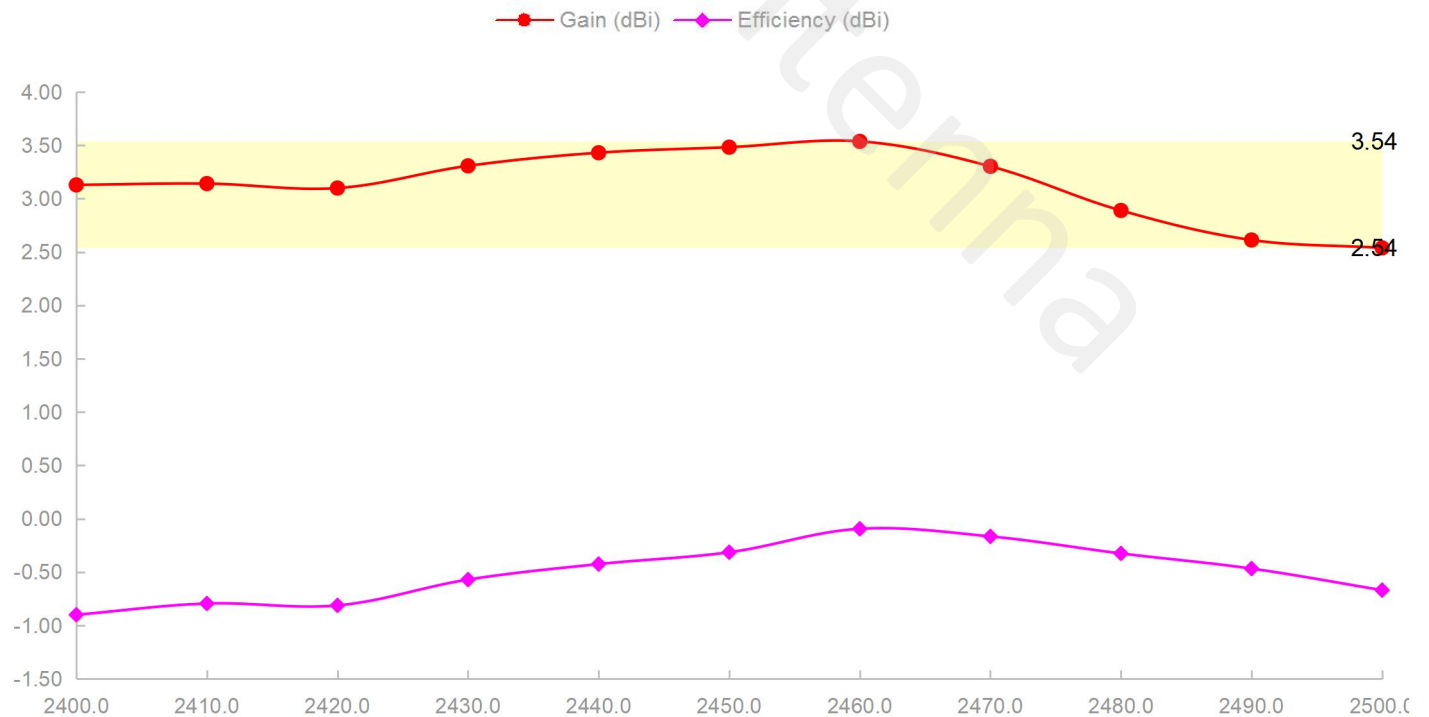
4.1 VSWR



4.2 Efficiency



4.3 Peak gain



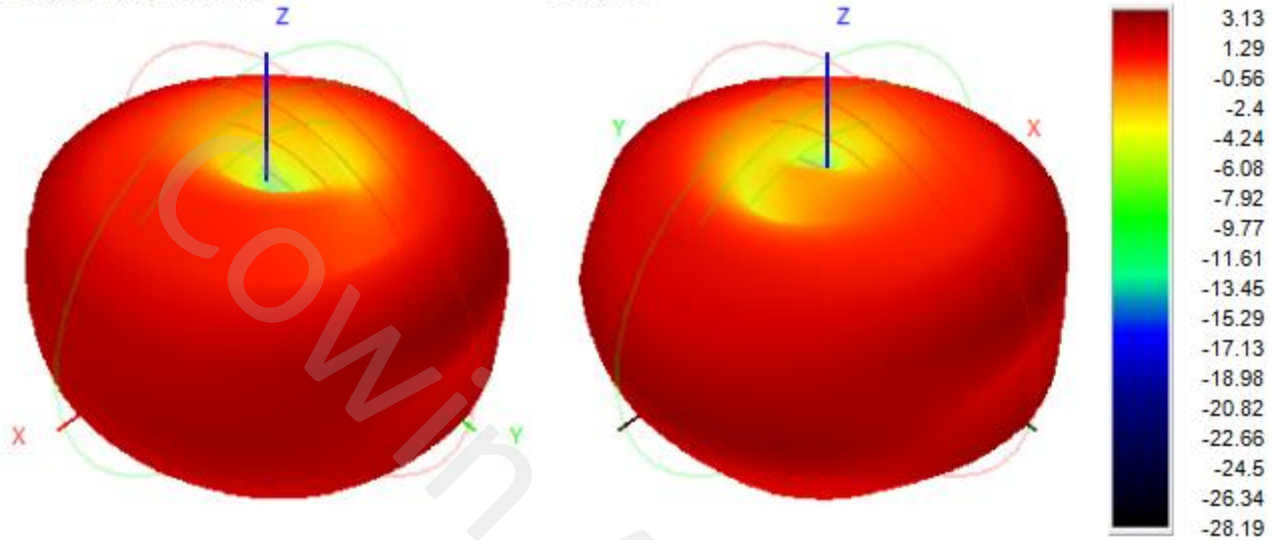
4.4 Data summary

Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	3.13	81.30
2410.0	3.14	83.30
2420.0	3.10	82.96
2430.0	3.31	87.71
2440.0	3.43	90.70
2450.0	3.48	93.04
2460.0	3.54	97.87
2470.0	3.30	96.28
2480.0	2.89	92.80
2490.0	2.61	89.82
2500.0	2.54	85.74

4.5 3D&2D Radiation Patterns

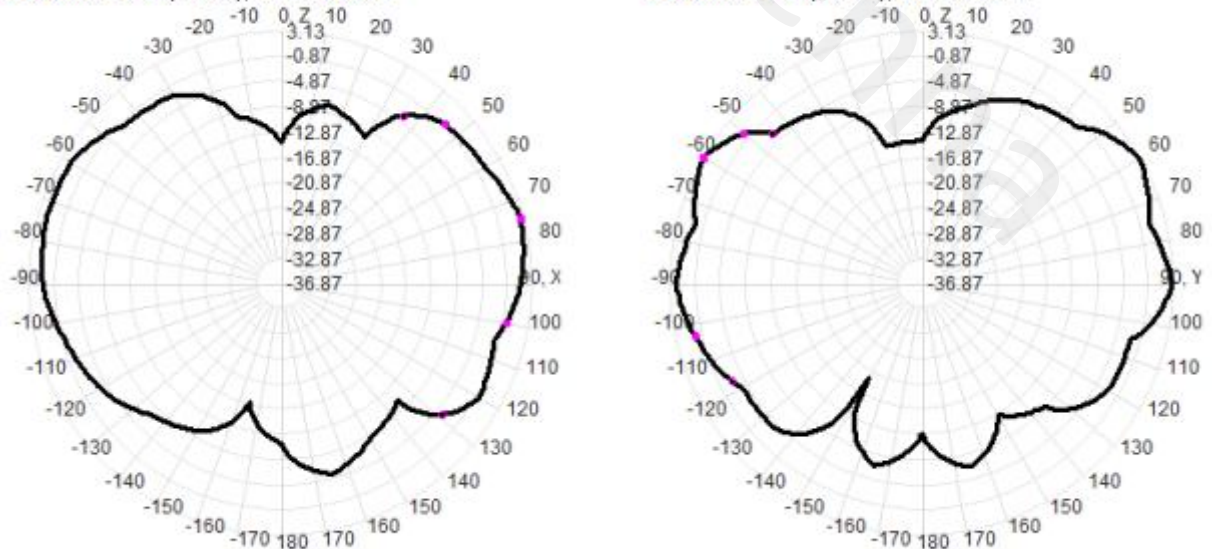
2400.0MHz H+V, Eff: 81.3%

Back View



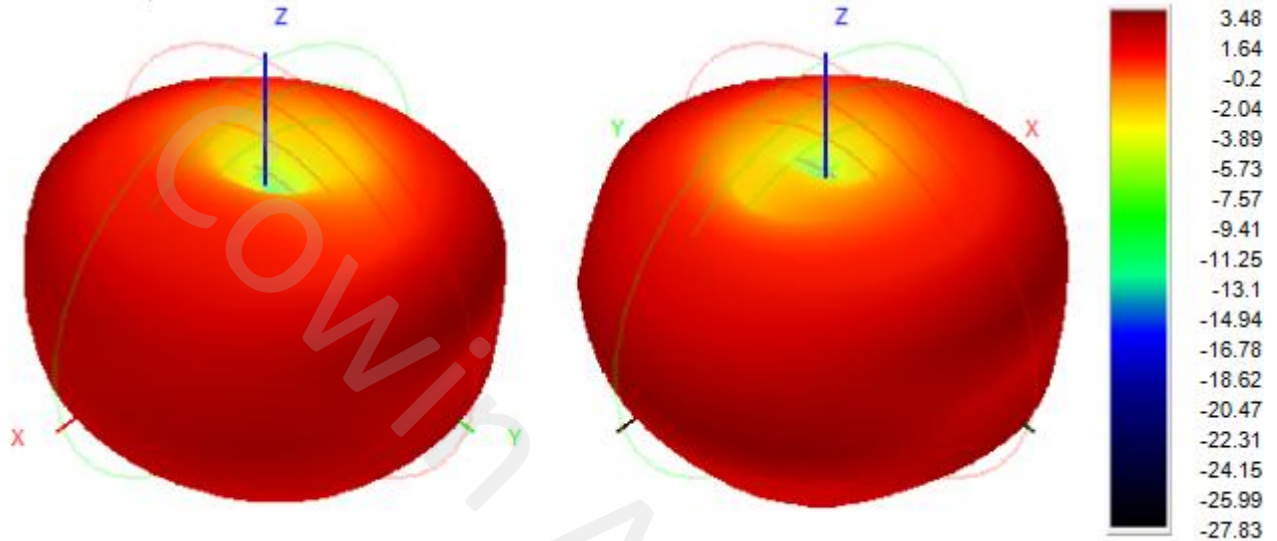
2400.0MHz Total(E1-XZ), Max= 2.41dBi

2400.0MHz Total(E2-YZ), Max= 3.13dBi



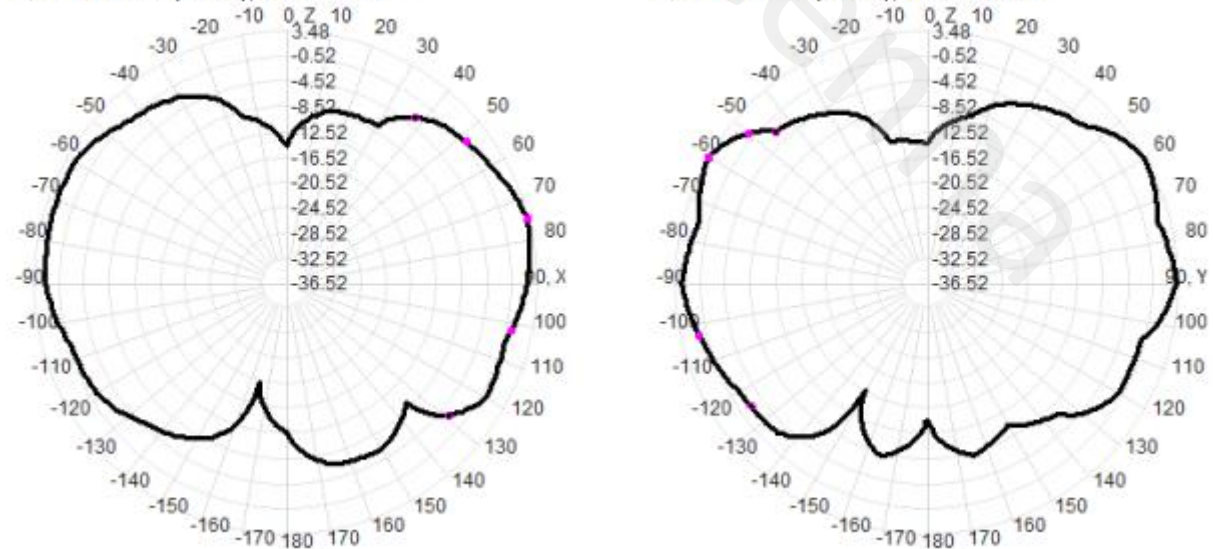
2450.0MHz H+V, Eff: 93.0%

Back View

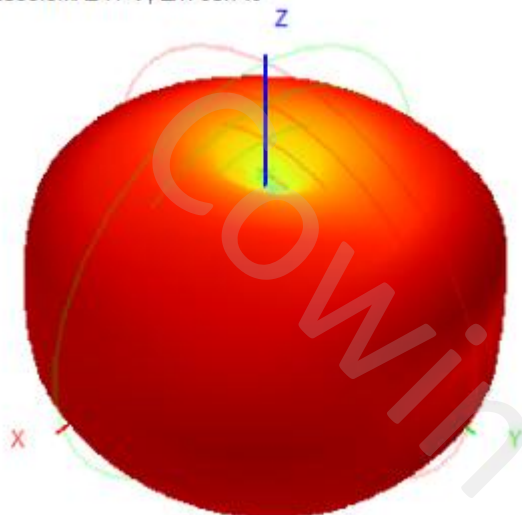


2450.0MHz Total(E1-XZ), Max= 2.96dBi

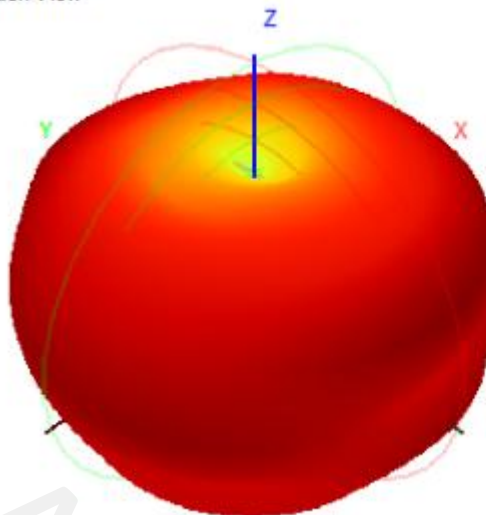
2450.0MHz Total(E2-YZ), Max= 3.48dBi



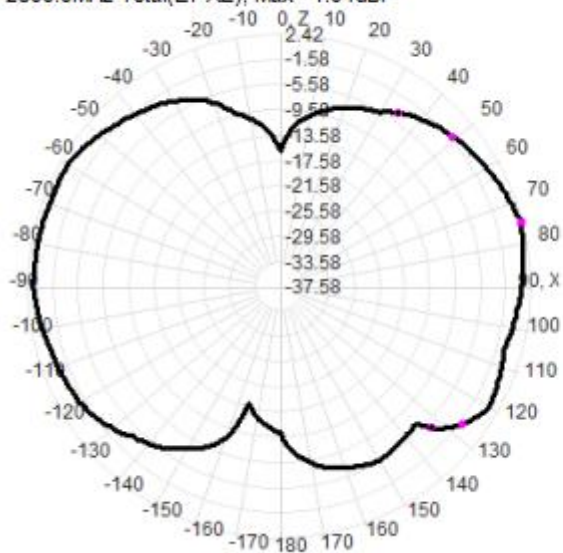
2500.0MHz H+V, Eff: 85.7%



Back View



2500.0MHz Total(E1-XZ), Max= 1.84dBi



2500.0MHz Total(E2-YZ), Max= 2.42dBi

