

CW-NZ-0245

2.4G Internal Antenna

Key Features

Frequency: 2400-2500MHz

Dimensions: 35*7.5*0.8mm

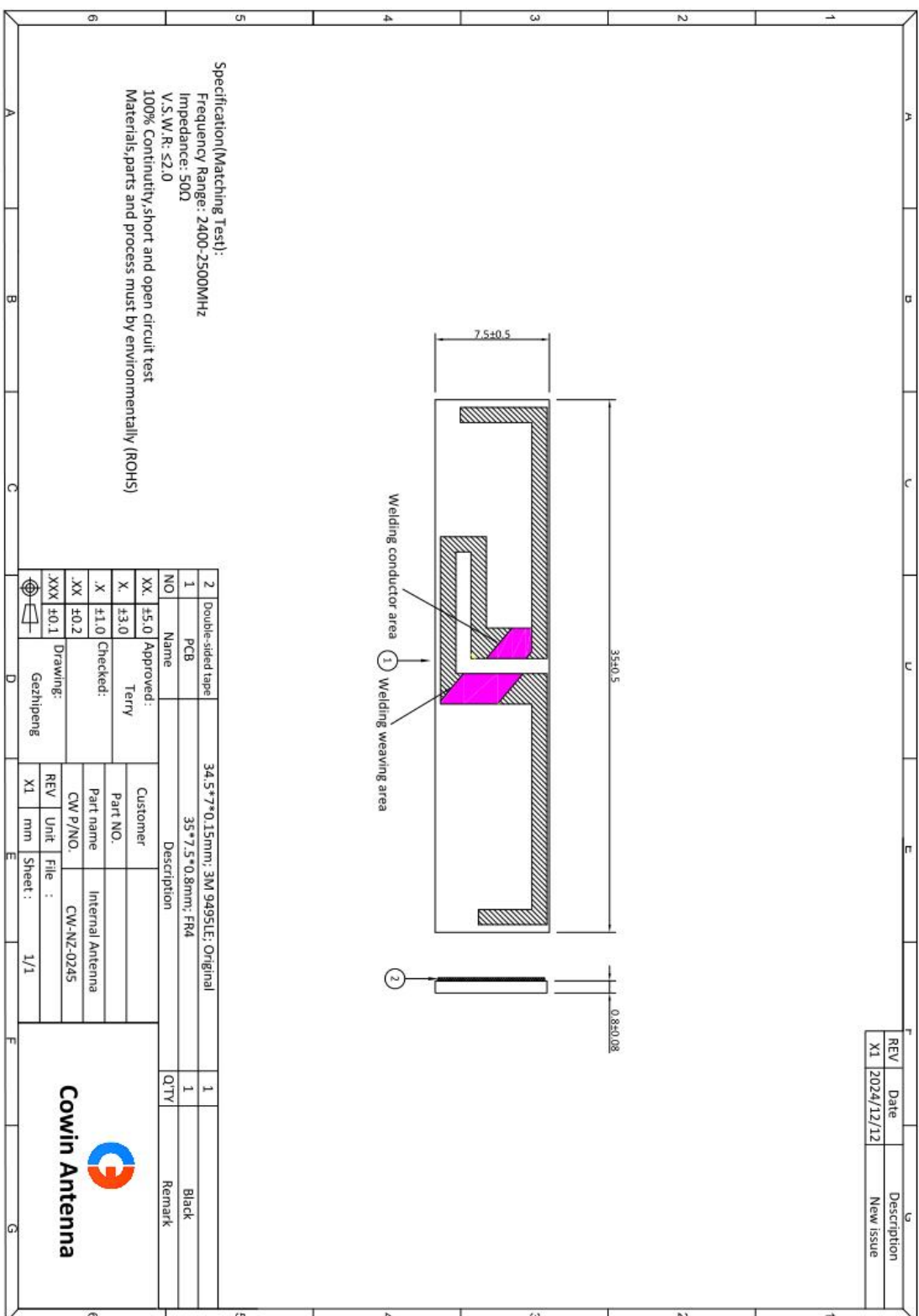


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2400-2500
VSWR	≤ 0
Efficiency (%)	34.72
Peak Gain (dBi)	0.99
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10

2. Material and environmental characteristics

External Structure	N/A
Inner Structure	PCB
Cable Type	N/A
Connector Type	N/A
Dimensions (mm)	35*7.5*0.8
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

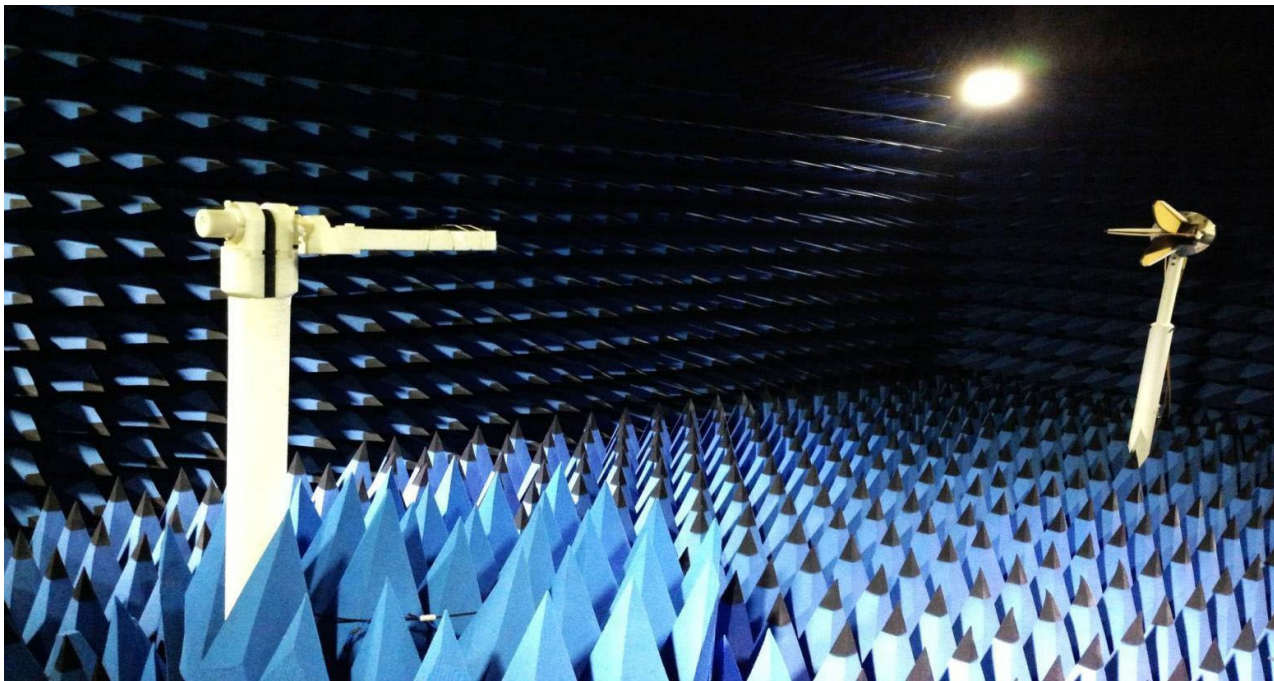
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

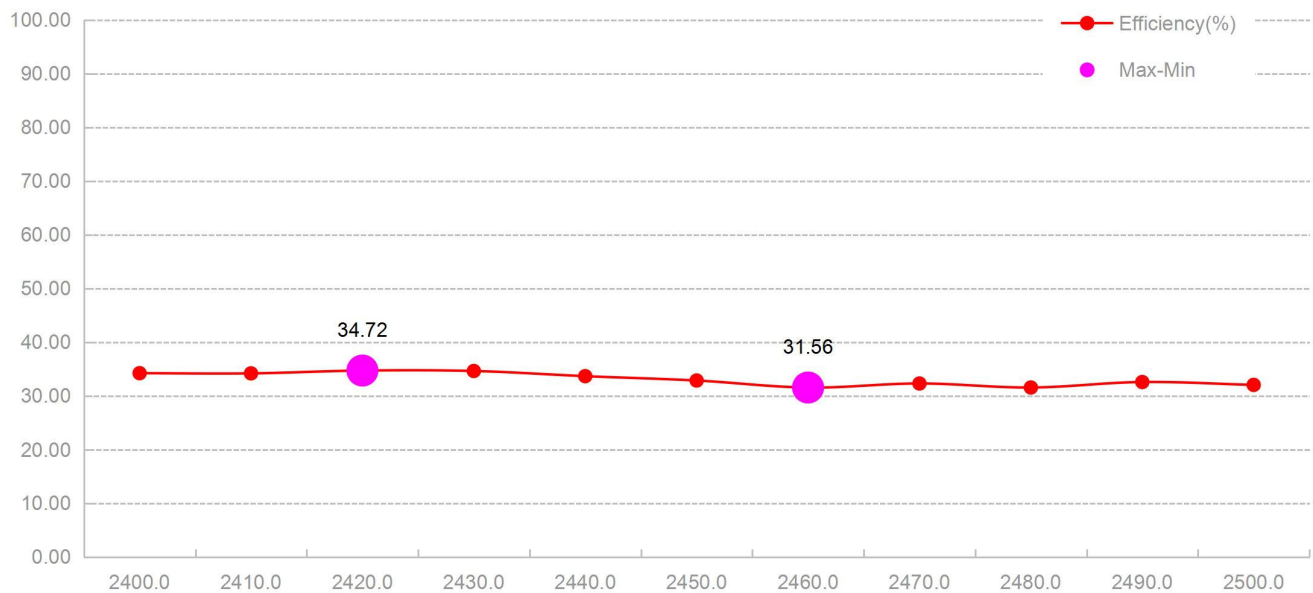
The comprehensive tester is Agilent cmv500



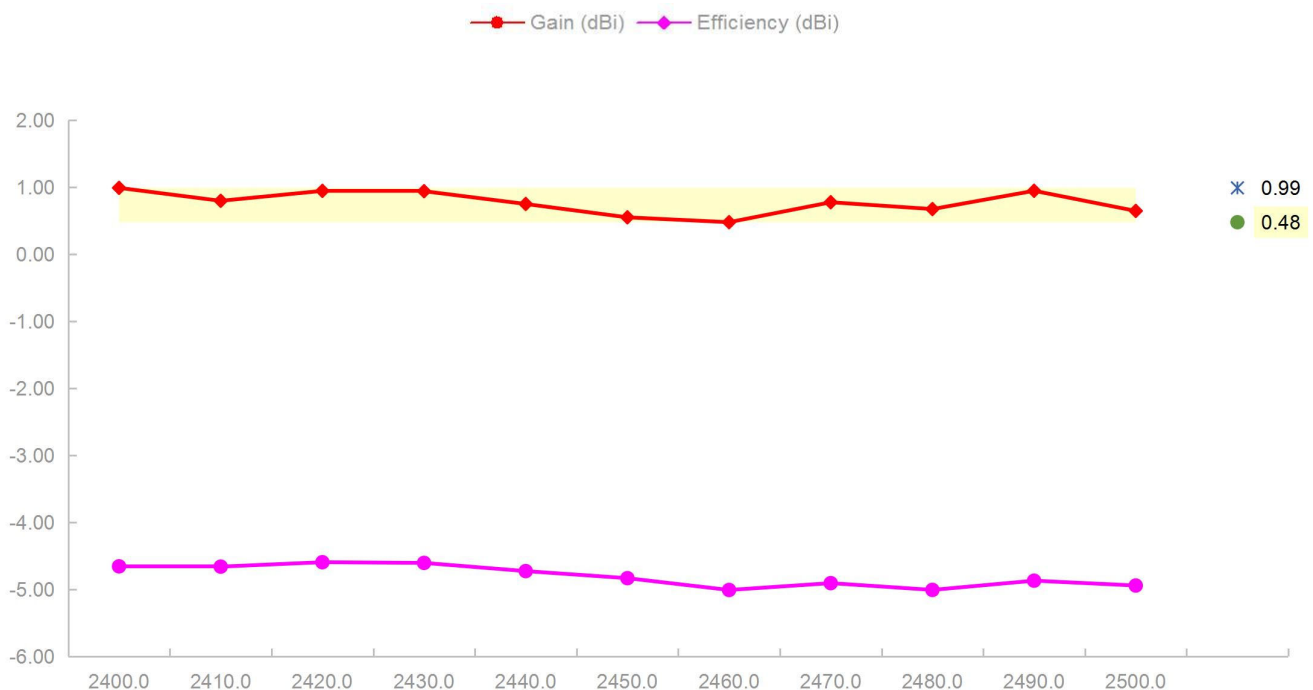
4.1 VSWR



4.2 Efficiency



4.3 Peak gain

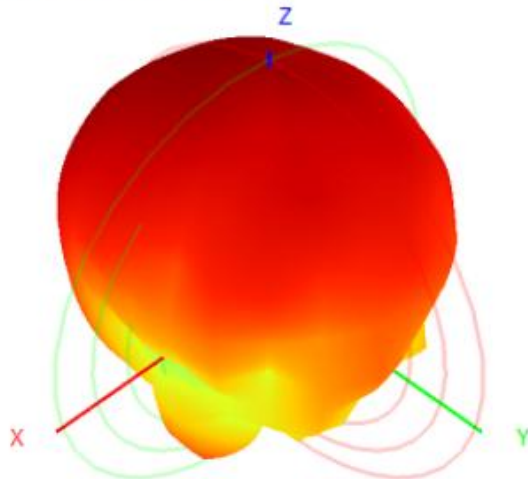


4.4 Data summary

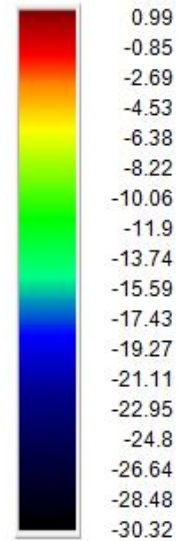
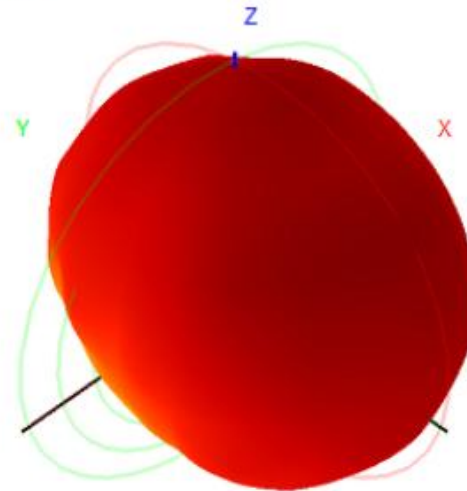
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	0.99	34.23
2410.0	0.80	34.20
2420.0	0.95	34.72
2430.0	0.94	34.64
2440.0	0.75	33.68
2450.0	0.55	32.87
2460.0	0.48	31.56
2470.0	0.78	32.31
2480.0	0.68	31.57
2490.0	0.95	32.59
2500.0	0.65	32.05

4.5 3D&2D Radiation Patterns

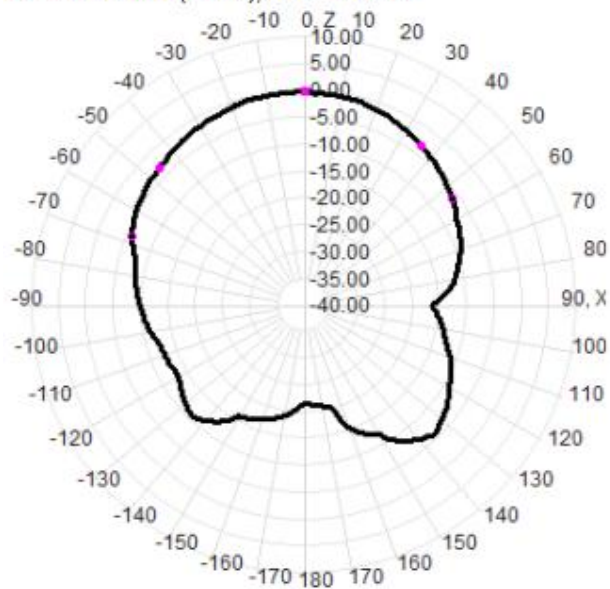
2400.0MHz Total, Eff: 34.2%



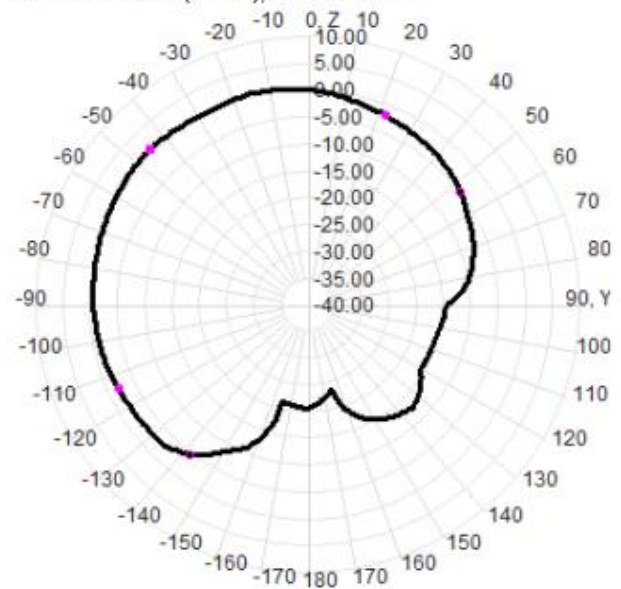
Back View



2400.0MHz Total(E1-XZ), Max= -0.29dBi

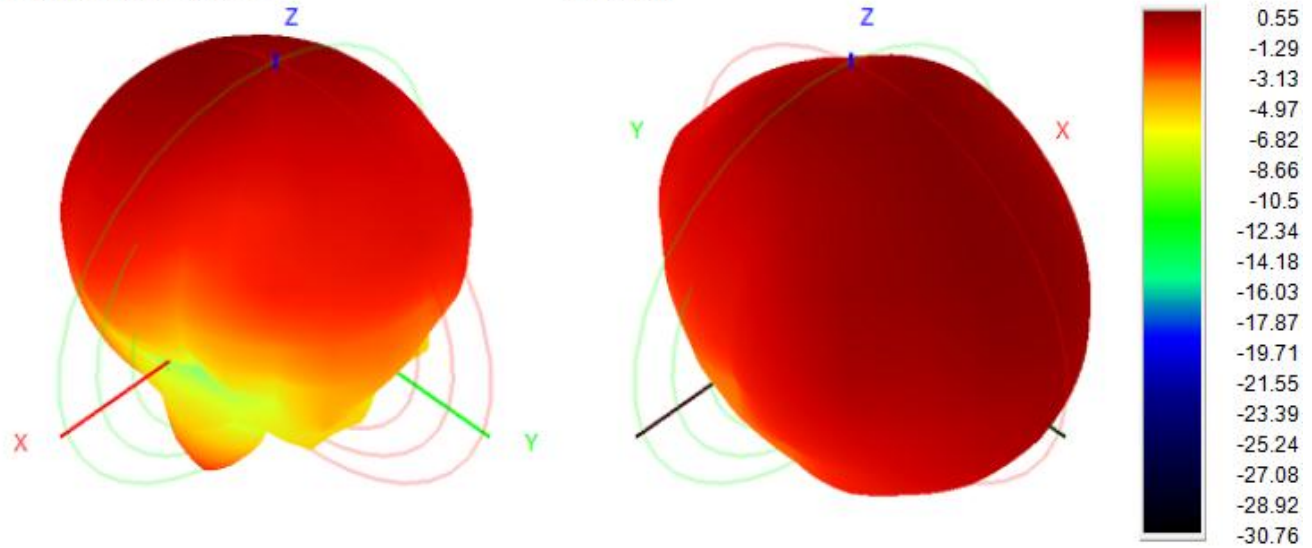


2400.0MHz Total(E2-YZ), Max= 0.99dBi

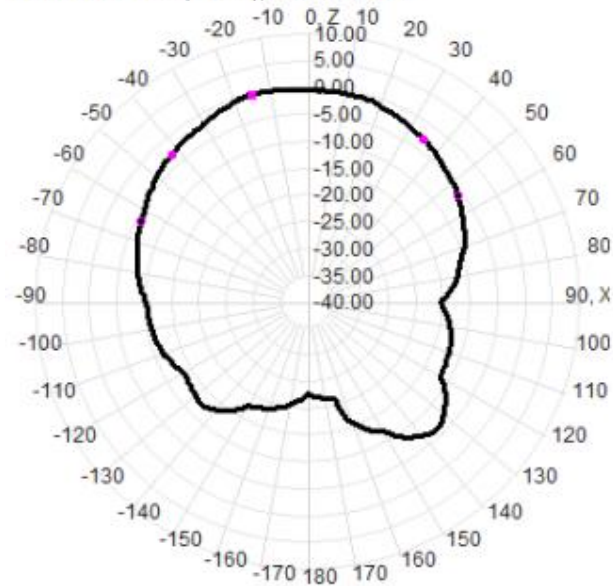


2450.0MHz Total, Eff: 32.9%

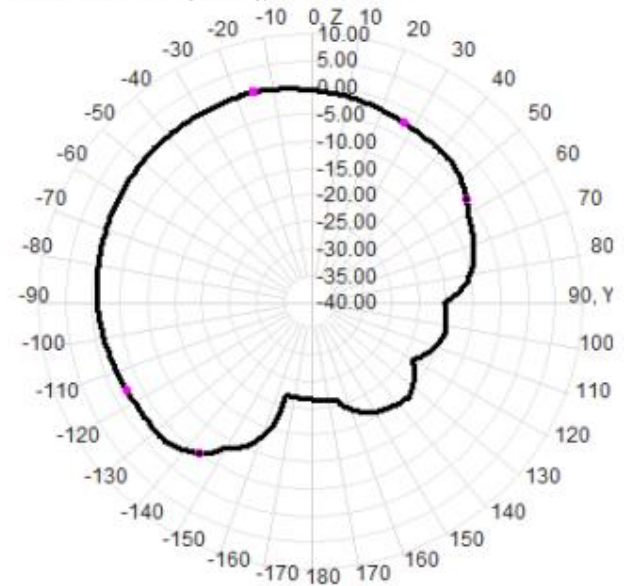
Back View



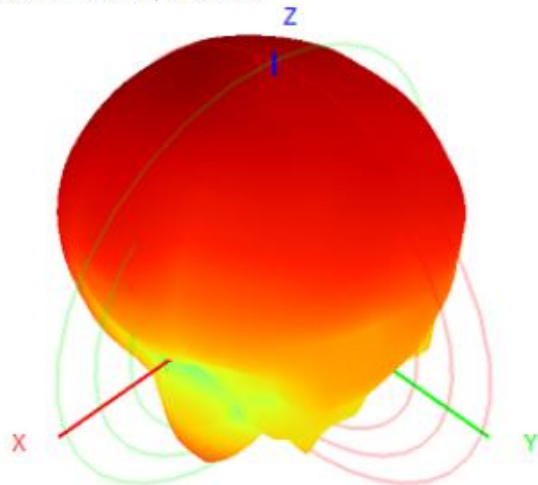
2450.0MHz Total(E1-XZ), Max= 0.01dBi



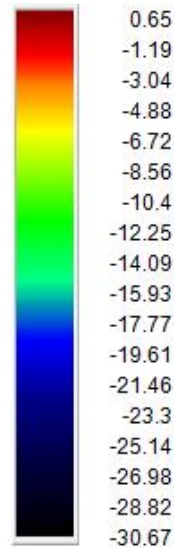
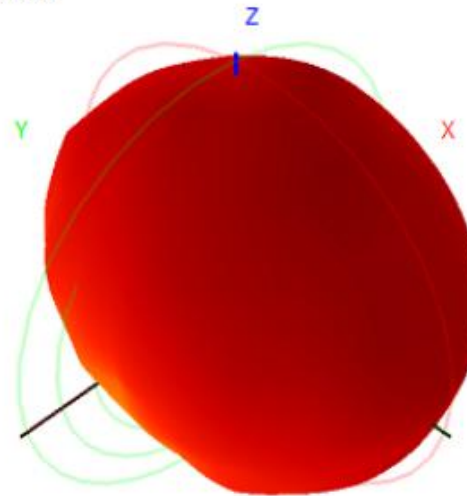
2450.0MHz Total(E2-YZ), Max= 0.48dBi



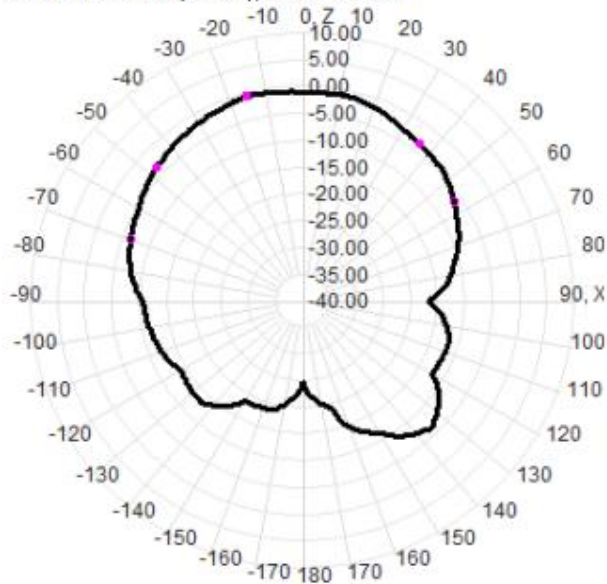
2500.0MHz Total, Eff: 32.0%



Back View



2500.0MHz Total(E1-XZ), Max= -0.56dBi



2500.0MHz Total(E2-YZ), Max= 0.50dBi

