

CW-BLG-0016

2.4G Fiberglass antenna

Key Features

Frequency: 2400-2500MHz

N Connector

Dimensions:300*20mm



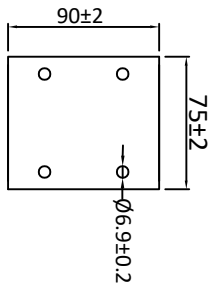
1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2400-2500MHZ
VSWR	≤2
Efficiency (%)	97.76%
Peak Gain (dBi)	5.4
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	N

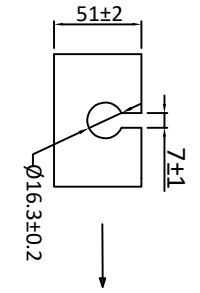
2. Material and environmental characteristics

inner structure	Copper Tube
Material of Plastic	Fiberglass
Cable Type	RG58
Connector Type	N
Dimensions (mm)	300*20MM
Antenna color	White
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS

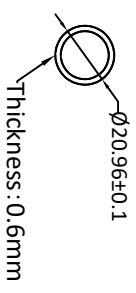
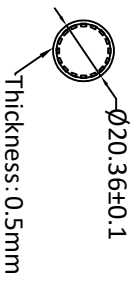
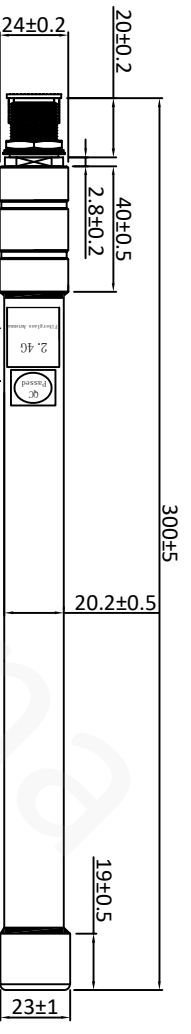
REV	Date	Description
X1	2024/01/08	New issue



Quantity is 4PCS



Thickness: 2mm



Attachment: The above parts will be assembled on the finished product

Label 1 content:
QC
Passed

Label 2 content:
2.4G
Fiberglass Antenna

Specification (Free Test):
Frequency Range: 2400-2500MHZ
Impedance: 50Ω
V.S.W.R: ≤2.0
100% Continuity, short and open circuit test
Materials, parts and process must by environmentally (ROHS)

14	Hat	White transparent PC	1				
13	Drive Screw	Iron	4				
12	Nut	Nickel plated brass	1				
11	Rack	Aluminium	1				
10	Shim	Nickel plated brass	1				
9	Plum Blossom Gasket	Nickel plated brass	1				
8	Label 2	White ordinary waterproof	1				
7	Label 1	White coated waterproof	1				
6	Hat	White ABS	1				
5	Rod Sleeve	White fiberglass fiber	1				
4	Aluminium Sheath	Aluminium anode	1				
3	Signal Tube	Copper tube	1				
2	Cable	Black RG58	1				
1	Connector	N Female	1				
NO	Name	Description	QTY				Remark
XX.	±5.0	Approved					
X.	±3.0	Customer					
X.	±1.0	Part NO.					
.XX	±0.2	Part name					
.XXX	±0.1	CW P/NO.					
		REV					
		Unit					
		File					
		Sheet					


Cowin Antenna

4. Antenna test parameters

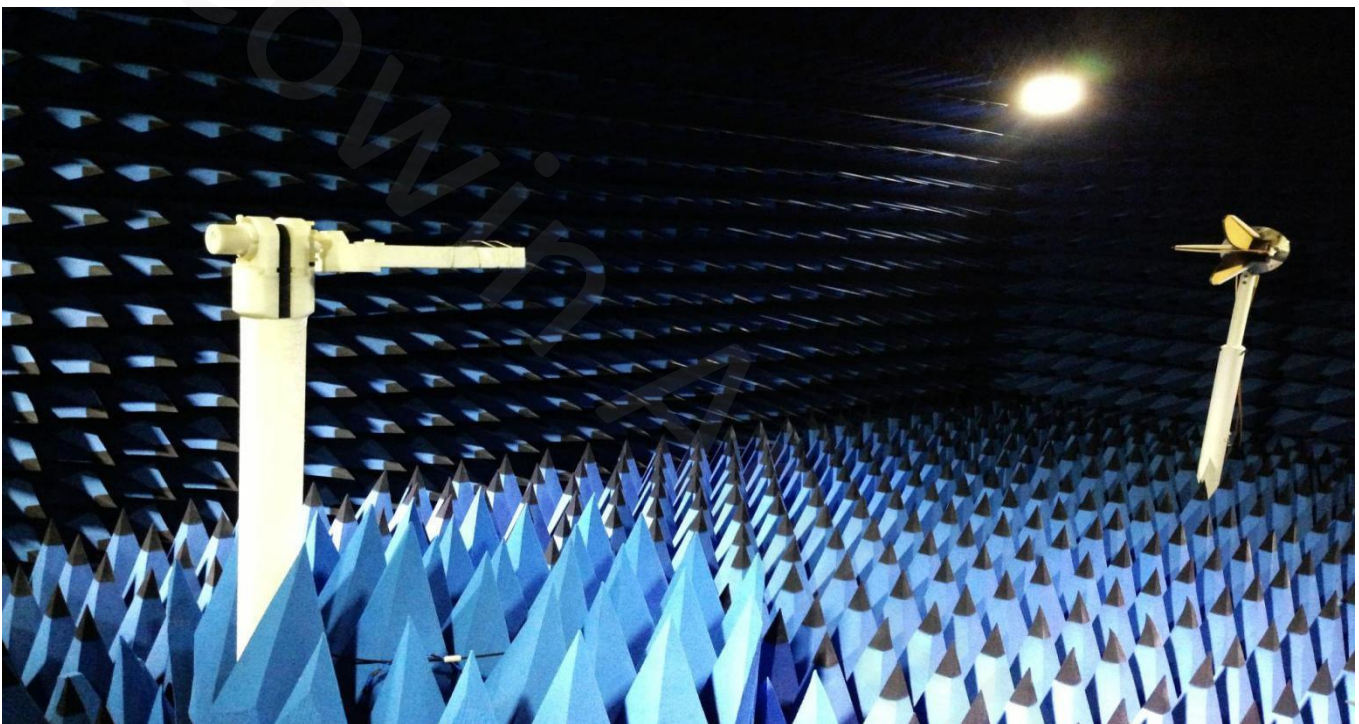
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

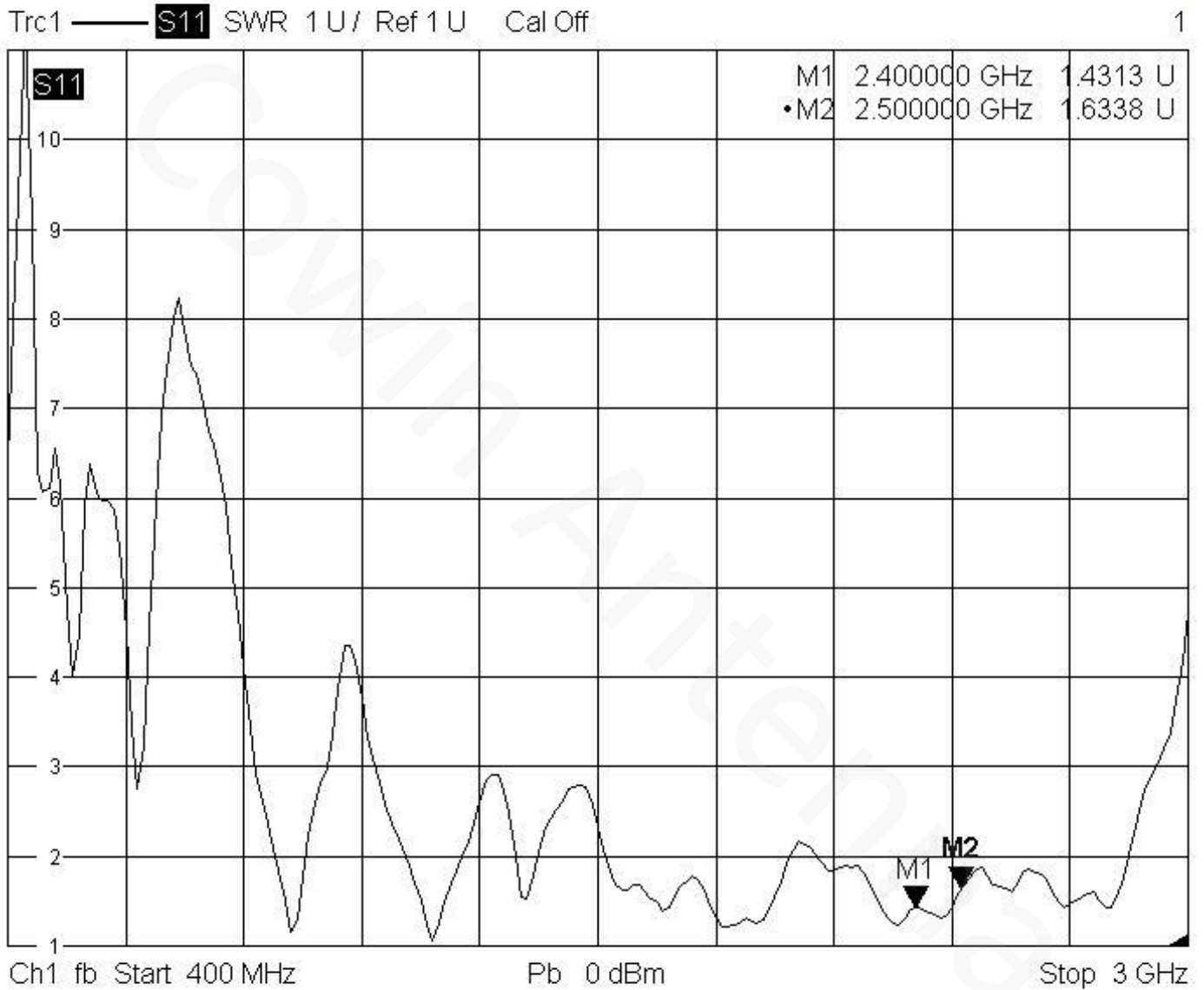
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

The comprehensive tester is Agilent cmv500

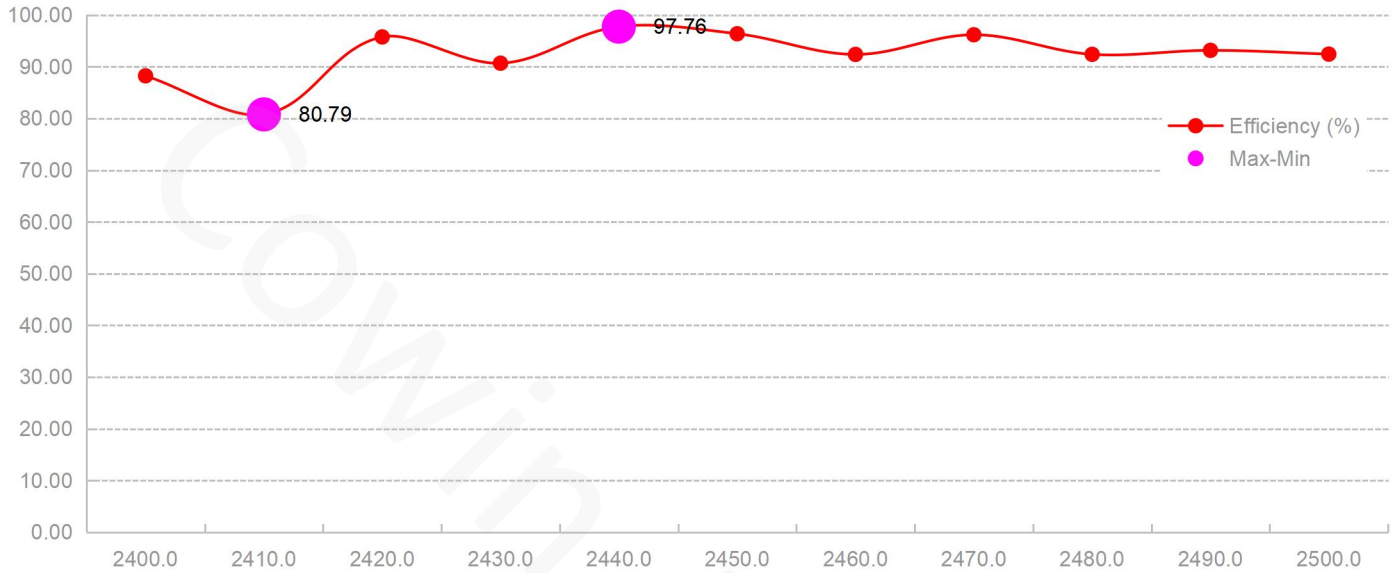


4.1 VSWR

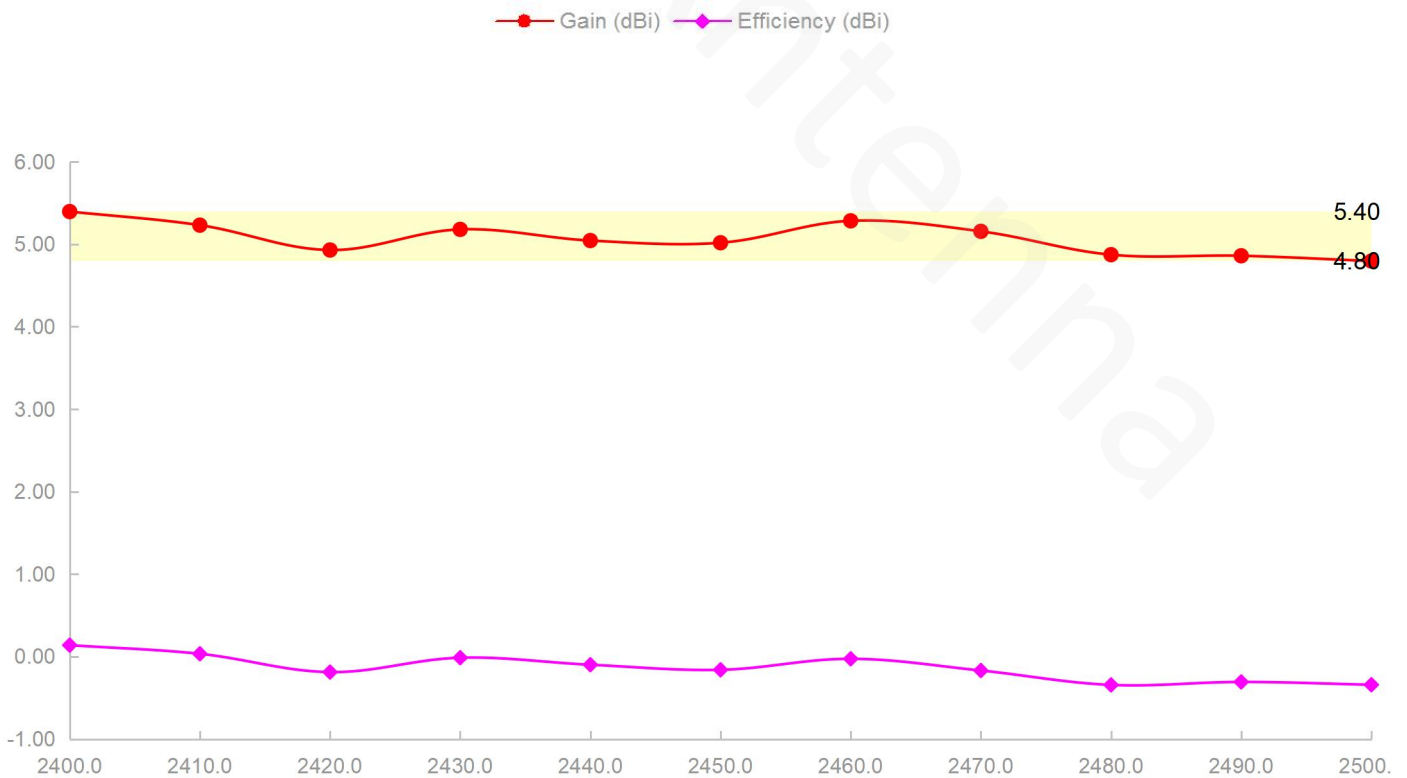


1/8/2024, 3:06 PM

4.2 Efficiency



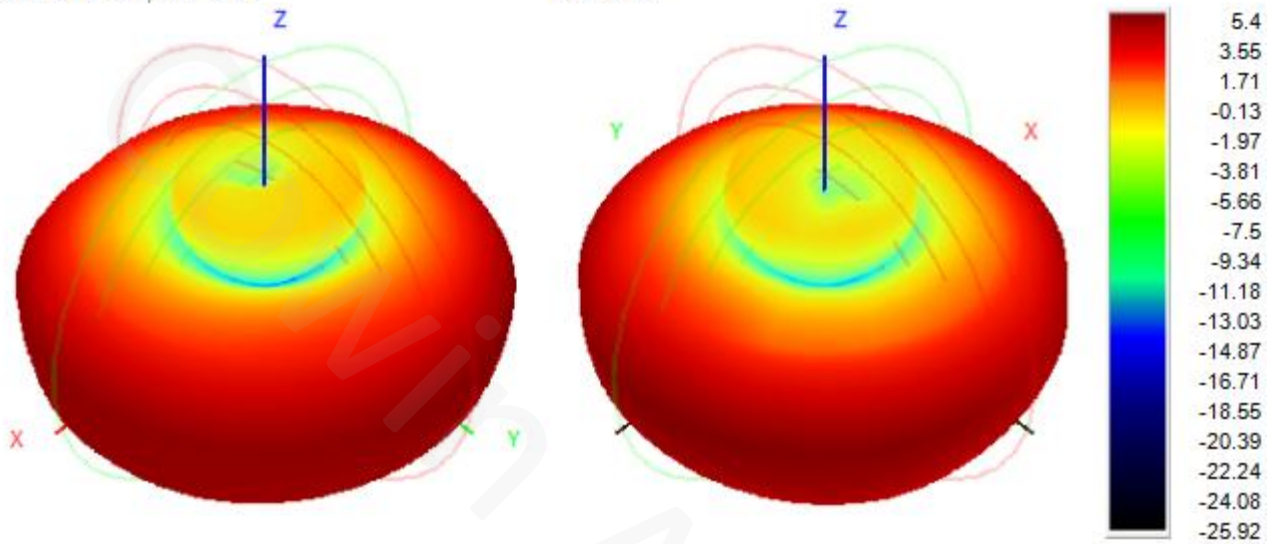
4.3 Peak gain



4.4 3D&2D Radiation Patterns

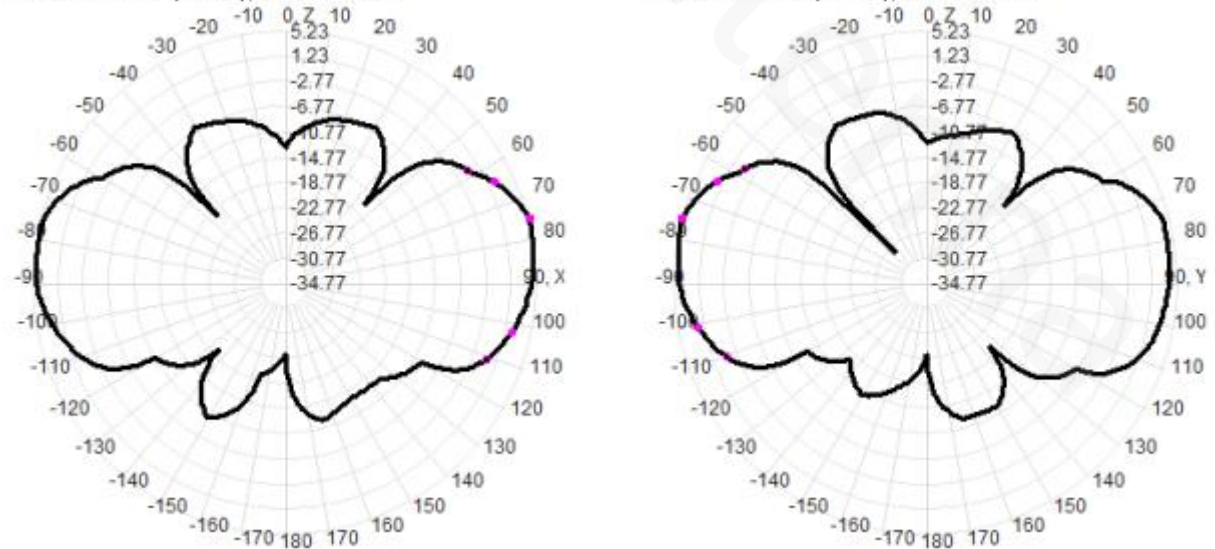
2400.0MHz H+V, Eff: 88.2%

Back View

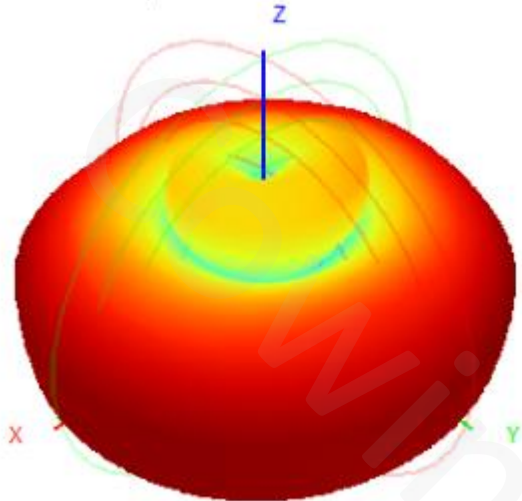


2400.0MHz Total(E1-XZ), Max= 5.20dBi

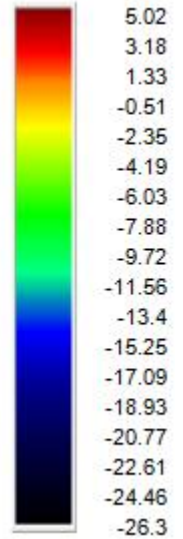
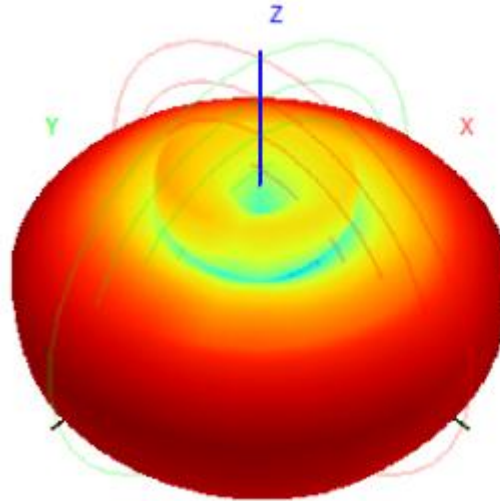
2400.0MHz Total(E2-YZ), Max= 5.23dBi



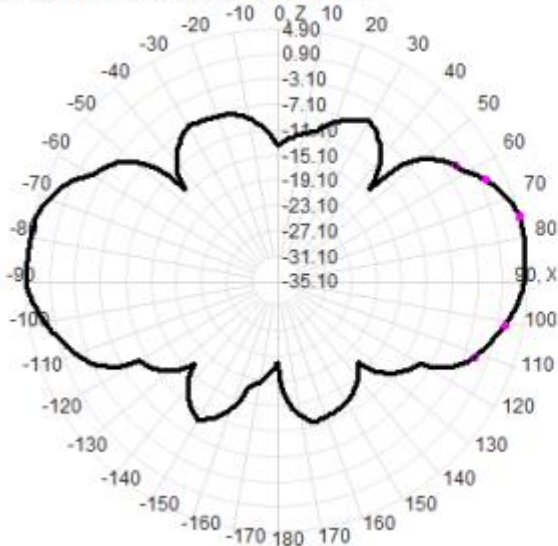
2450.0MHz H+V, Eff: 96.4%



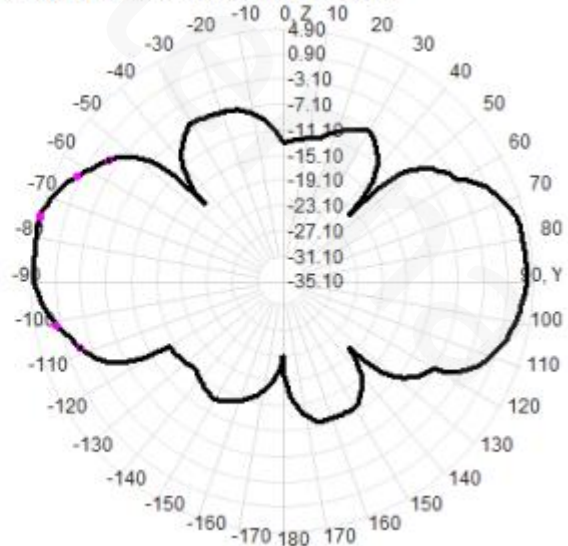
Back View



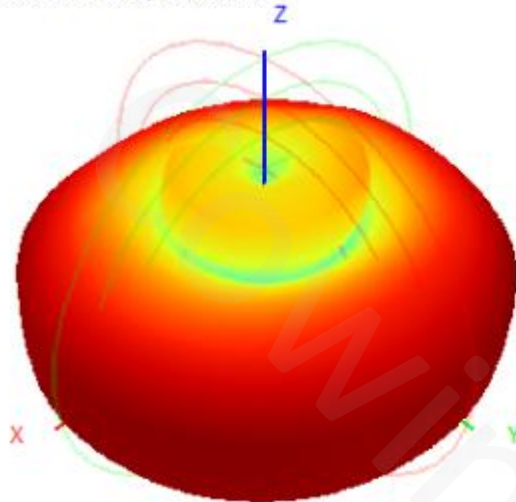
2450.0MHz Total(E1-XZ), Max= 4.76dBi



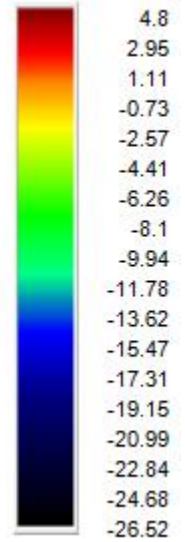
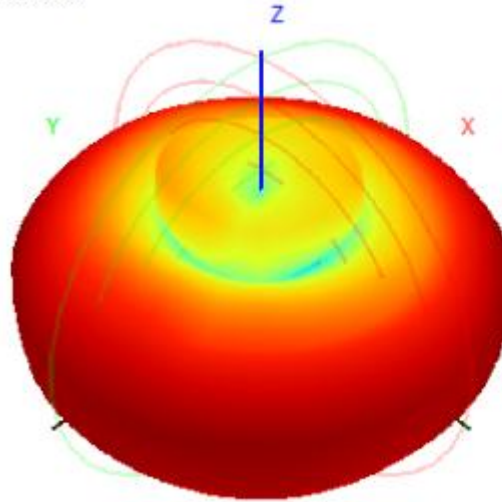
2450.0MHz Total(E2-YZ), Max= 4.70dBi



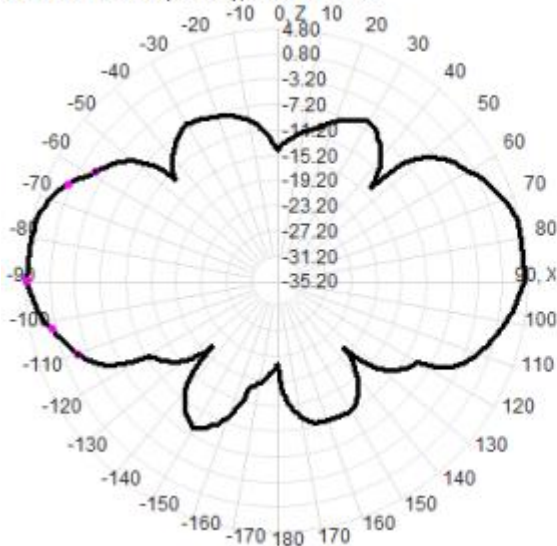
2500.0MHz H+V, Ef: 92.4%



Back View



2500.0MHz Total(E1-XZ), Max= 4.42dBi



2500.0MHz Total(E2-YZ), Max= 4.29dBi

