

CW-BLG-0018

915MHz Fiberglass antenna

Key Features

Frequency: 915MHz

N Connector

Dimensions:300*20mm



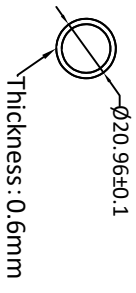
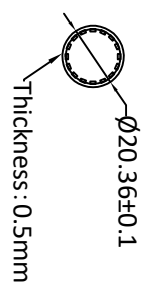
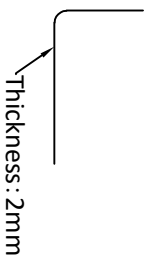
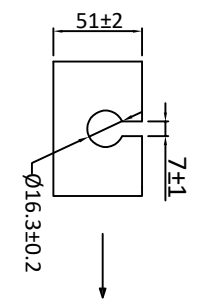
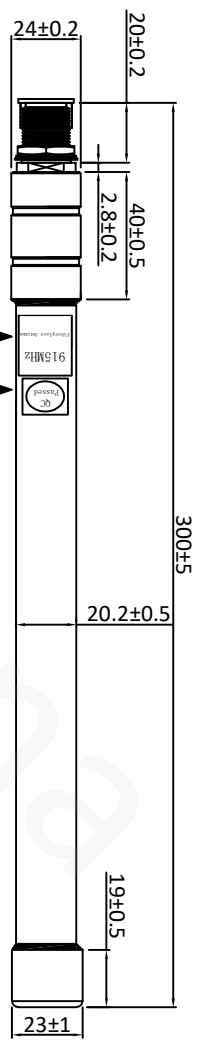
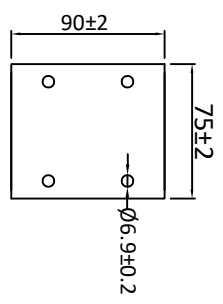
1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	915MHZ
VSWR	≤2
Efficiency (%)	86.04%
Peak Gain (dBi)	3.55
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	Black
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



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

Label 1 content:
QC
Passed

Label 2 content:
915MHz
Fiberglass Antenna

Specification(Free Test):
Frequency Range: 915MHZ
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	Black ABS	1	
5	Rod Sleeve	Black 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			
X.	±1.0	Checked		
.XX	±0.2			
XXX	±0.1	Drawing		
		Customer		
		Part NO.		
		Part name		Fiberglass antenna
		CW P/NO.		CW-BLG-0018
REV	Unit	File		
X1	m/m	Sheet :	1/1	

4. Antenna test parameters

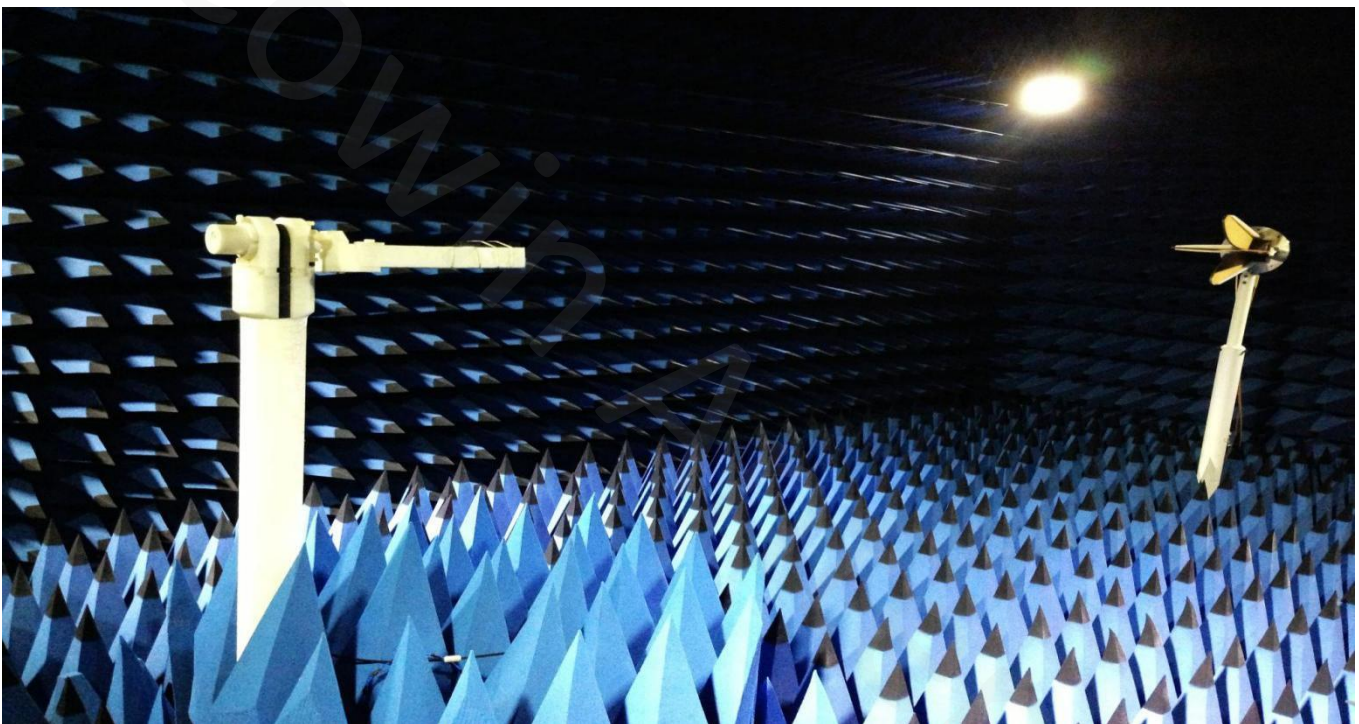
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

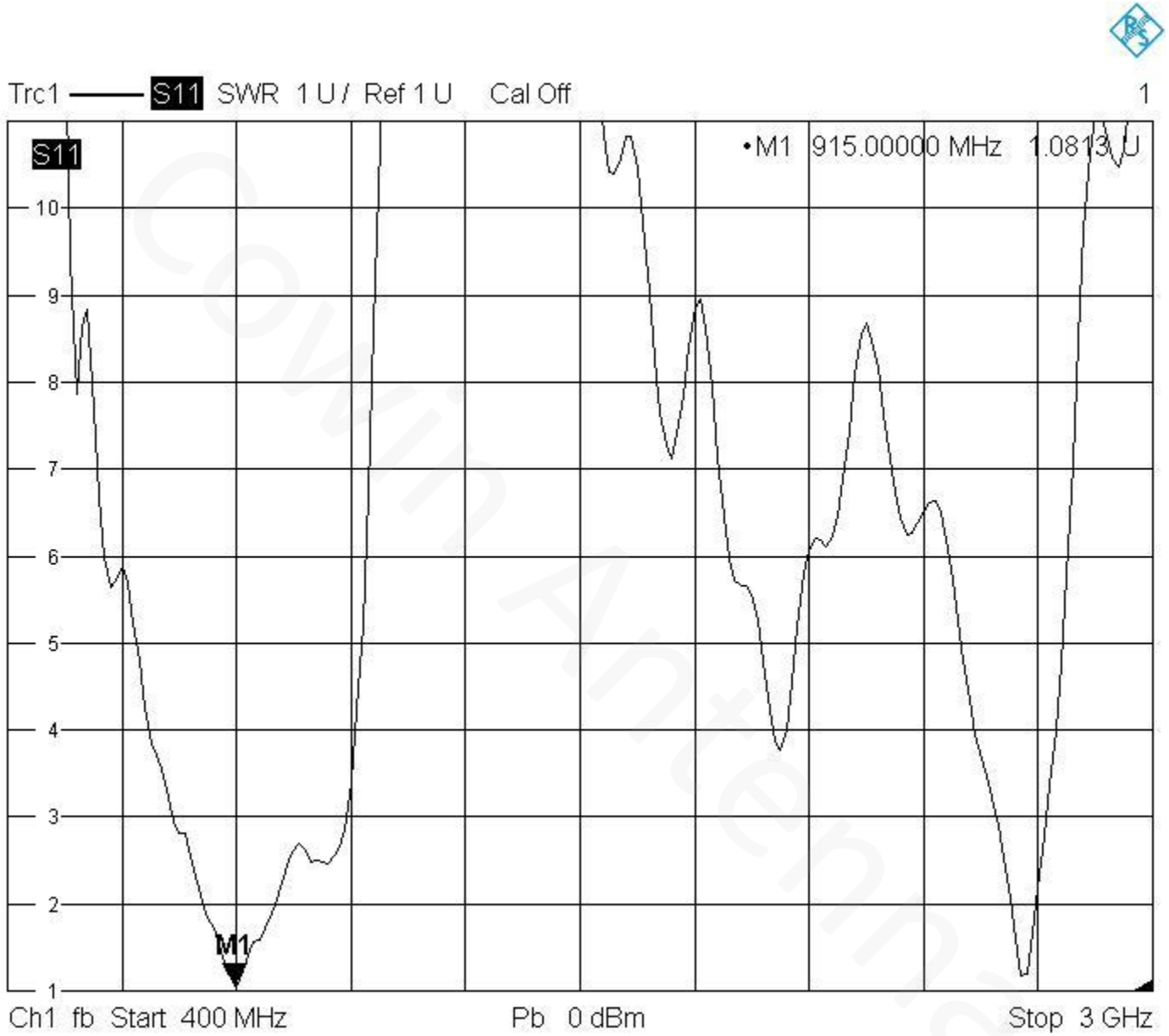
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

The comprehensive tester is Agilent cmv500

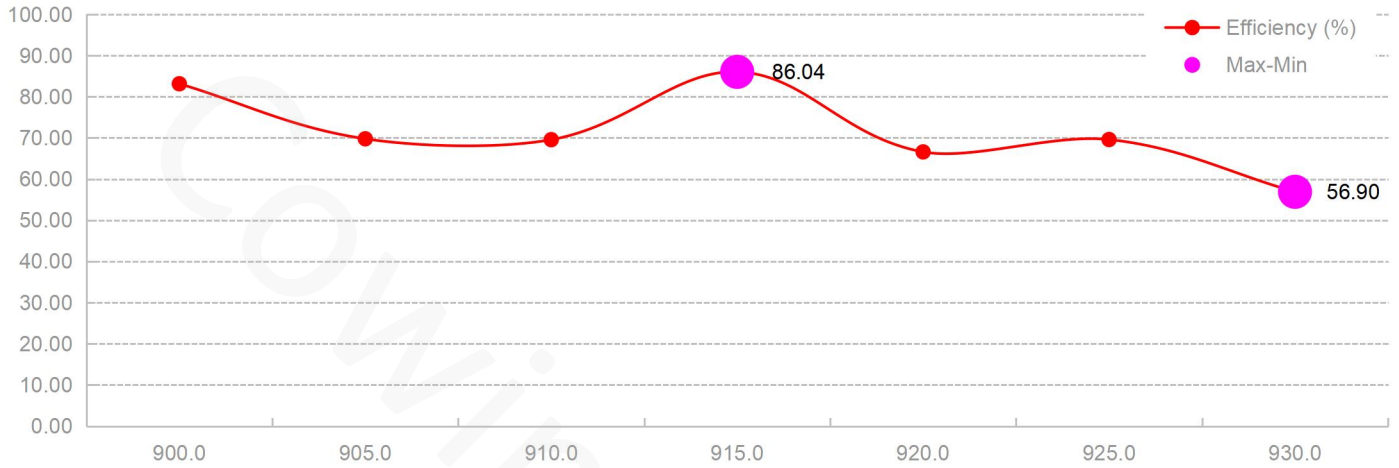


4.1 VSWR

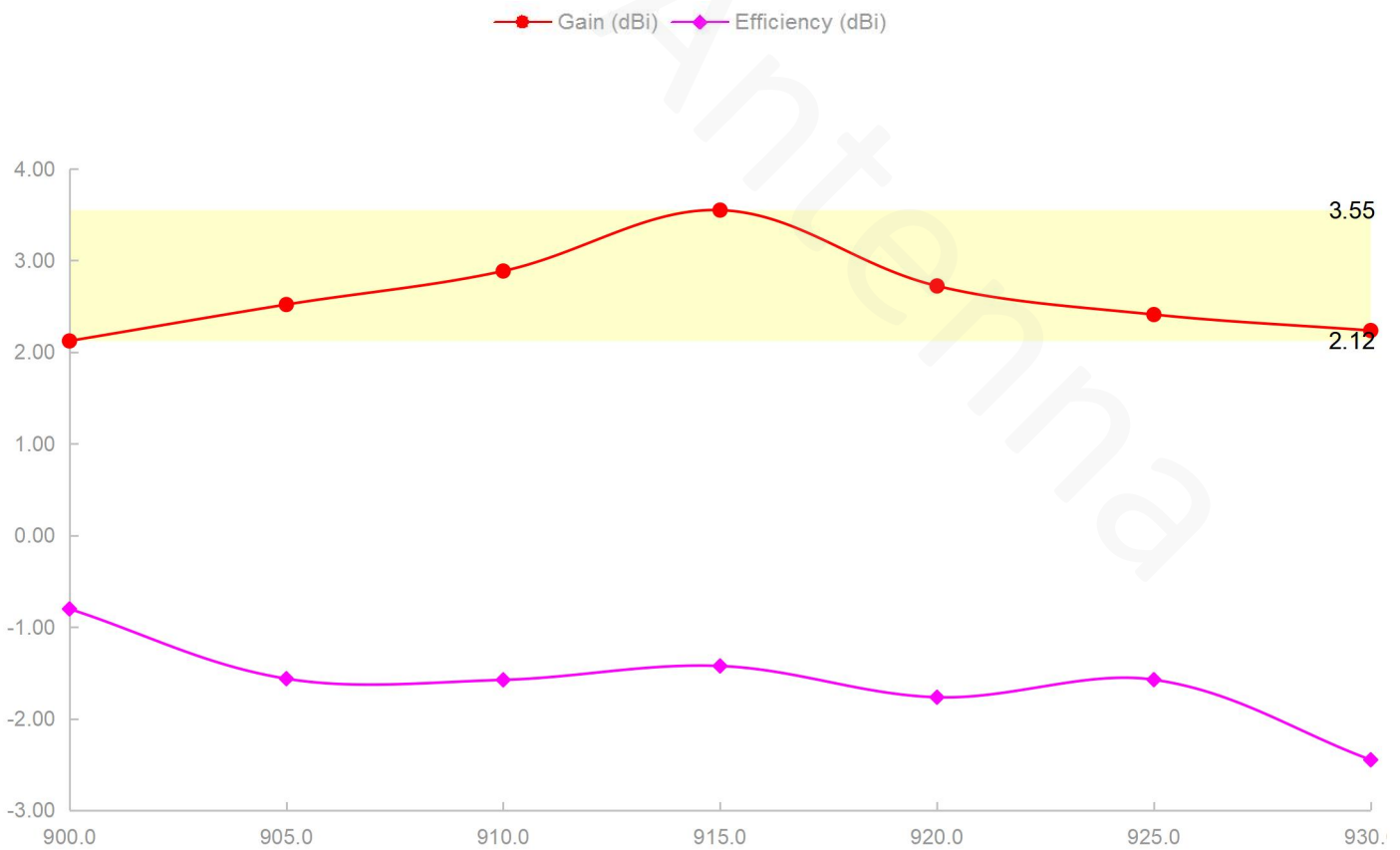


1/8/2024, 3:04 PM

4.2 Efficiency

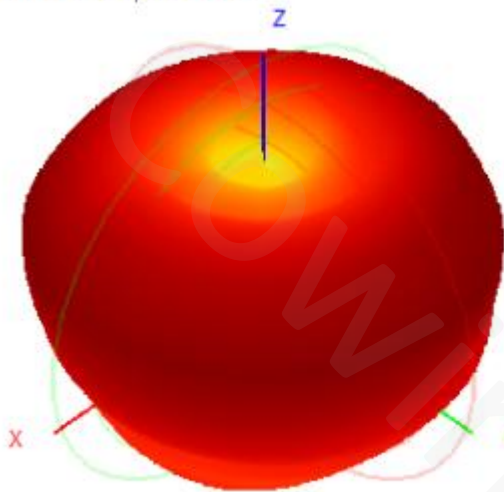


4.3 Peak gain

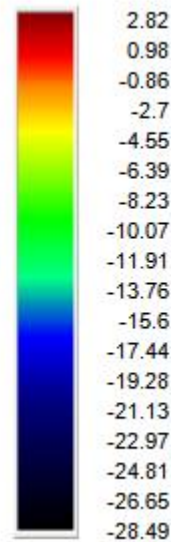
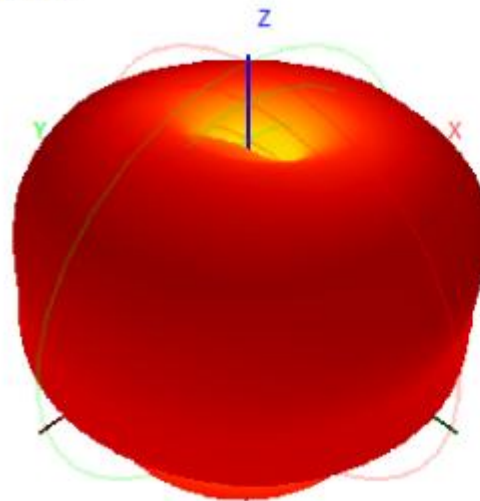


4.4 3D&2D Radiation Patterns

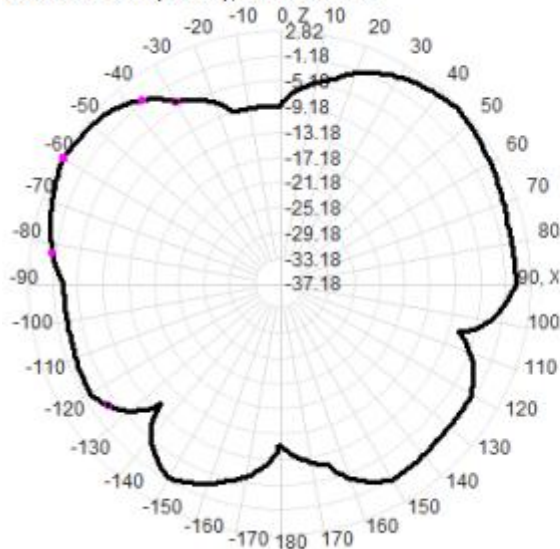
900.0MHz H+V, Eff: 83.1%



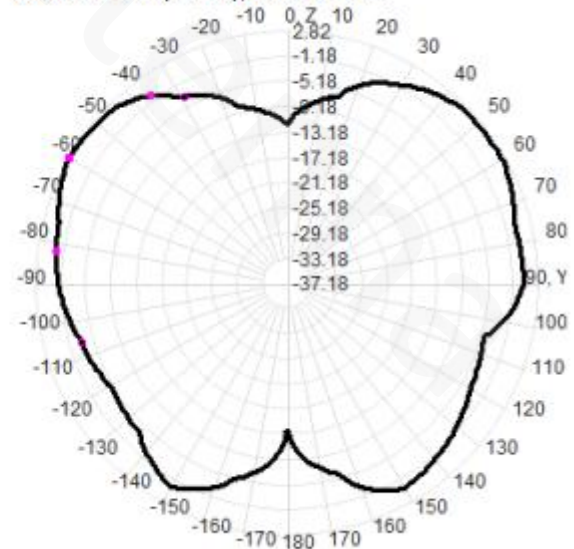
Back View



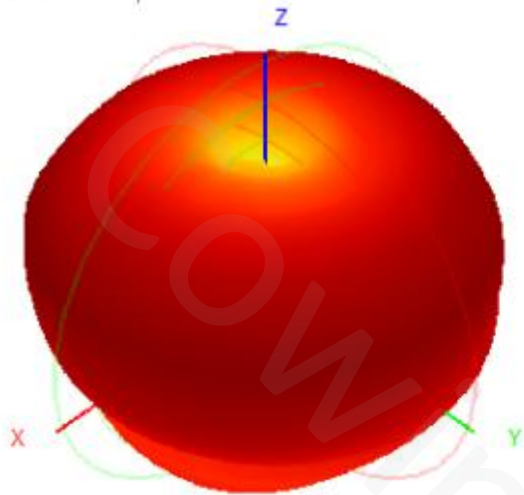
900.0MHz Total(E1-XZ), Max= 2.43dBi



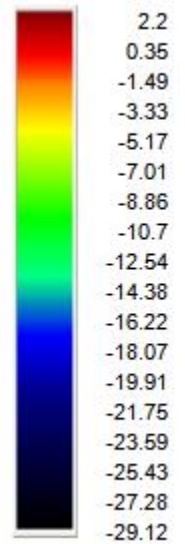
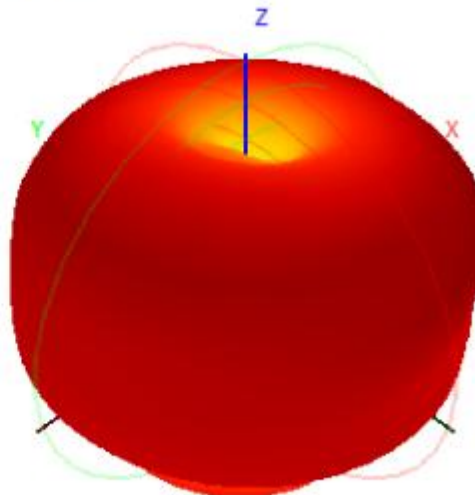
900.0MHz Total(E2-YZ), Max= 2.82dBi



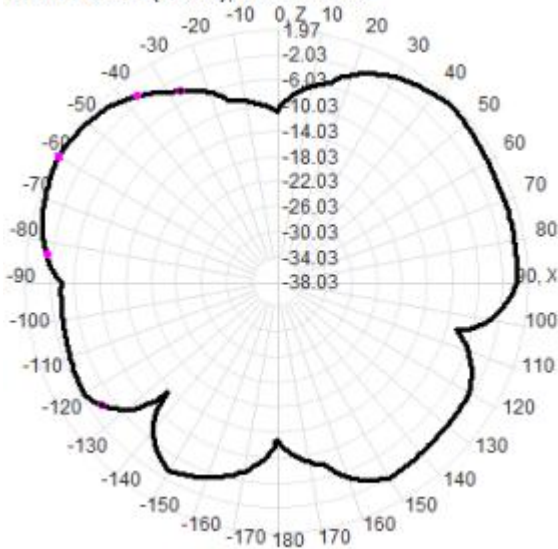
915.0MHz H+V, Eff: 86.0%



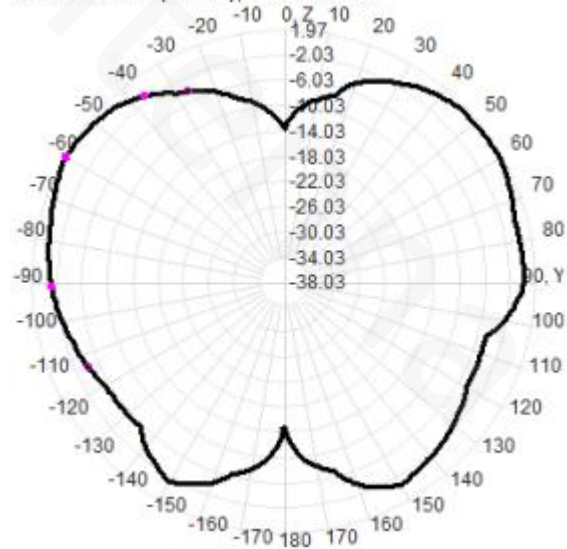
Back View



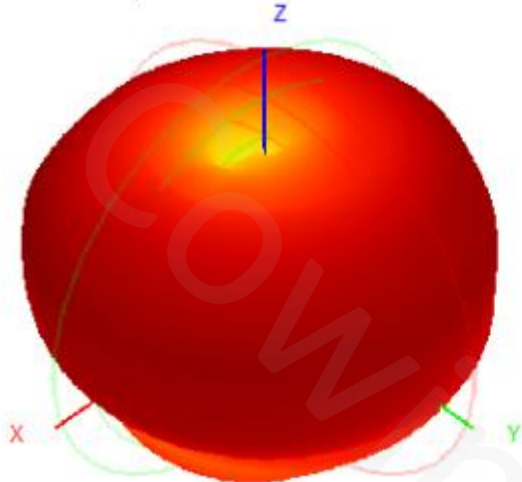
915.0MHz Total(E1-XZ), Max= 1.97dBi



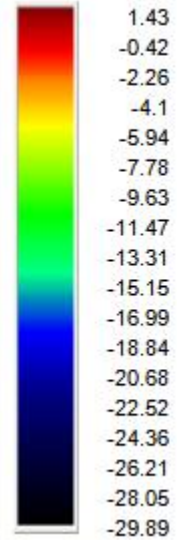
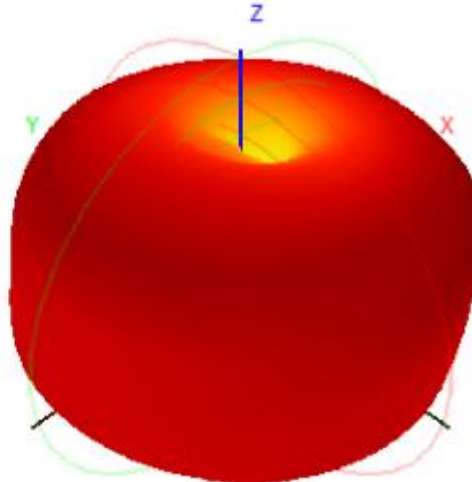
915.0MHz Total(E2-YZ), Max= 1.87dBi



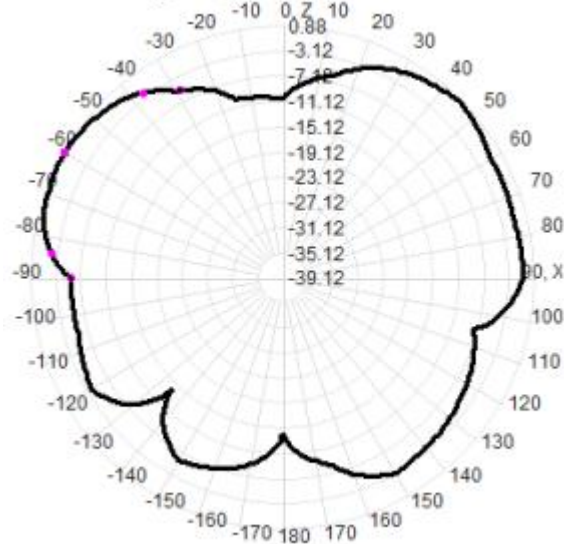
930.0MHz H+V, Eff: 56.9%



Back View



930.0MHz Total(E1-XZ), Max= 0.88dBi



930.0MHz Total(E2-YZ), Max= 0.65dBi

