

CW-WZ-0158

840-970MHz External Antenna

Key Features

Frequency:840-970MHz

SMA Connector

Dimensions:50*48mm

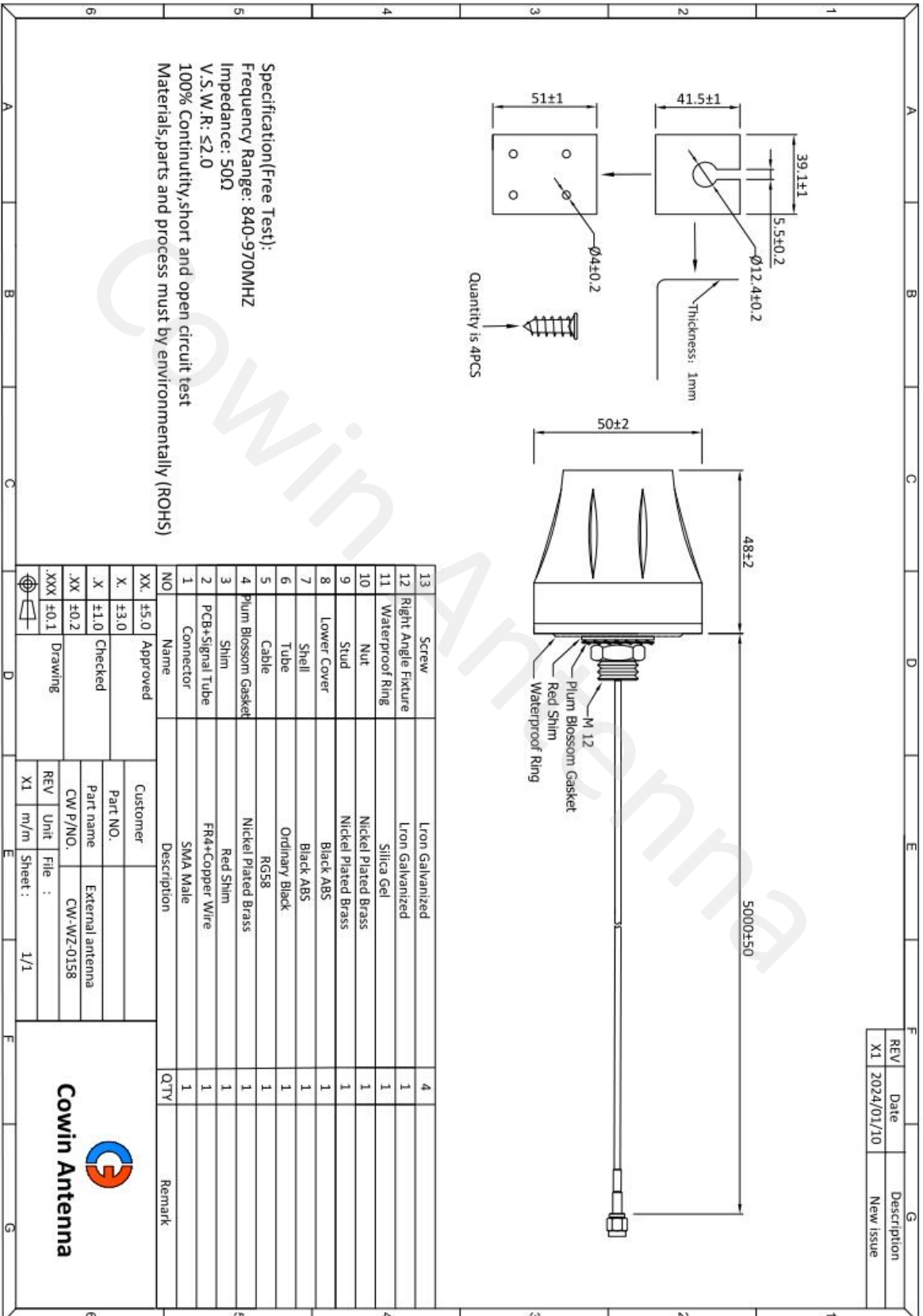


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	840-970MHz
VSWR	≤2.0
Efficiency (%)	81.41%
Peak Gain (dBi)	5.58
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA

2. Material and environmental characteristics

External structure	ABS
Inner structure	PCB+Copper Wire
Cable Type	RG58
Connector Type	SMA
Dimensions (mm)	50*48 MM
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

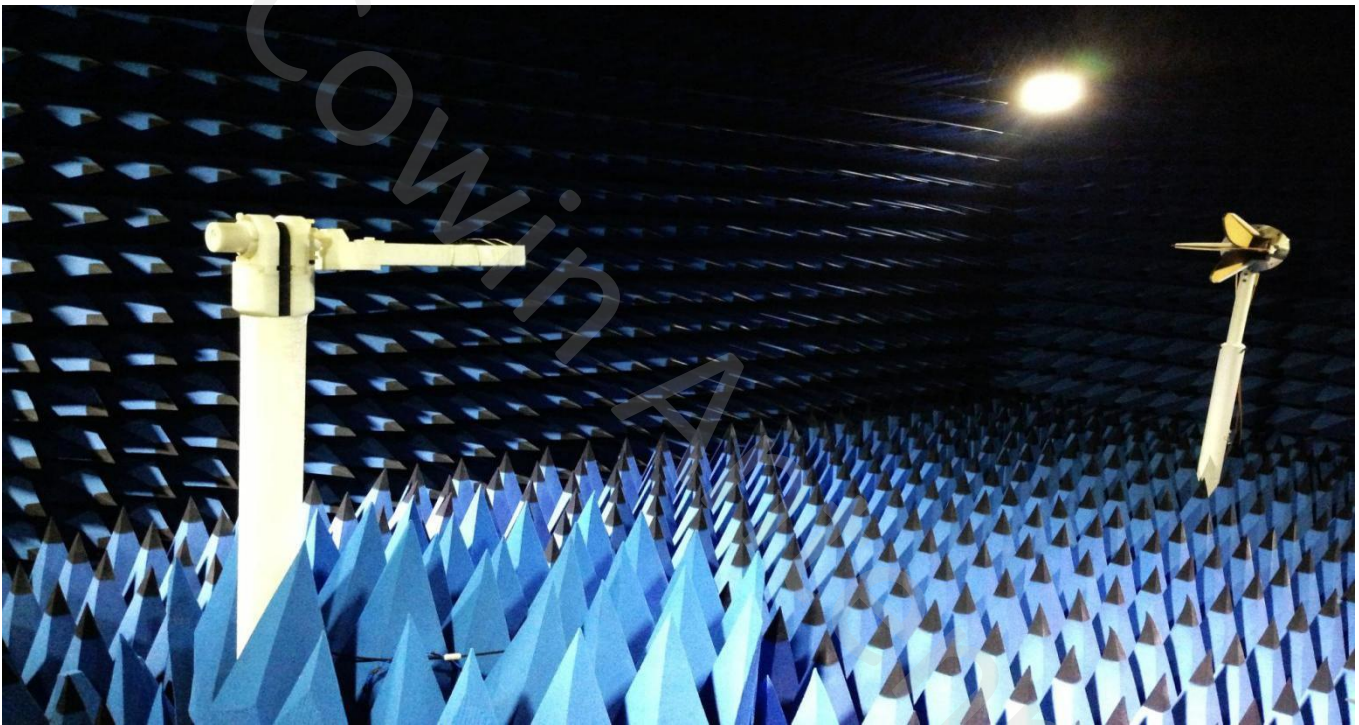
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

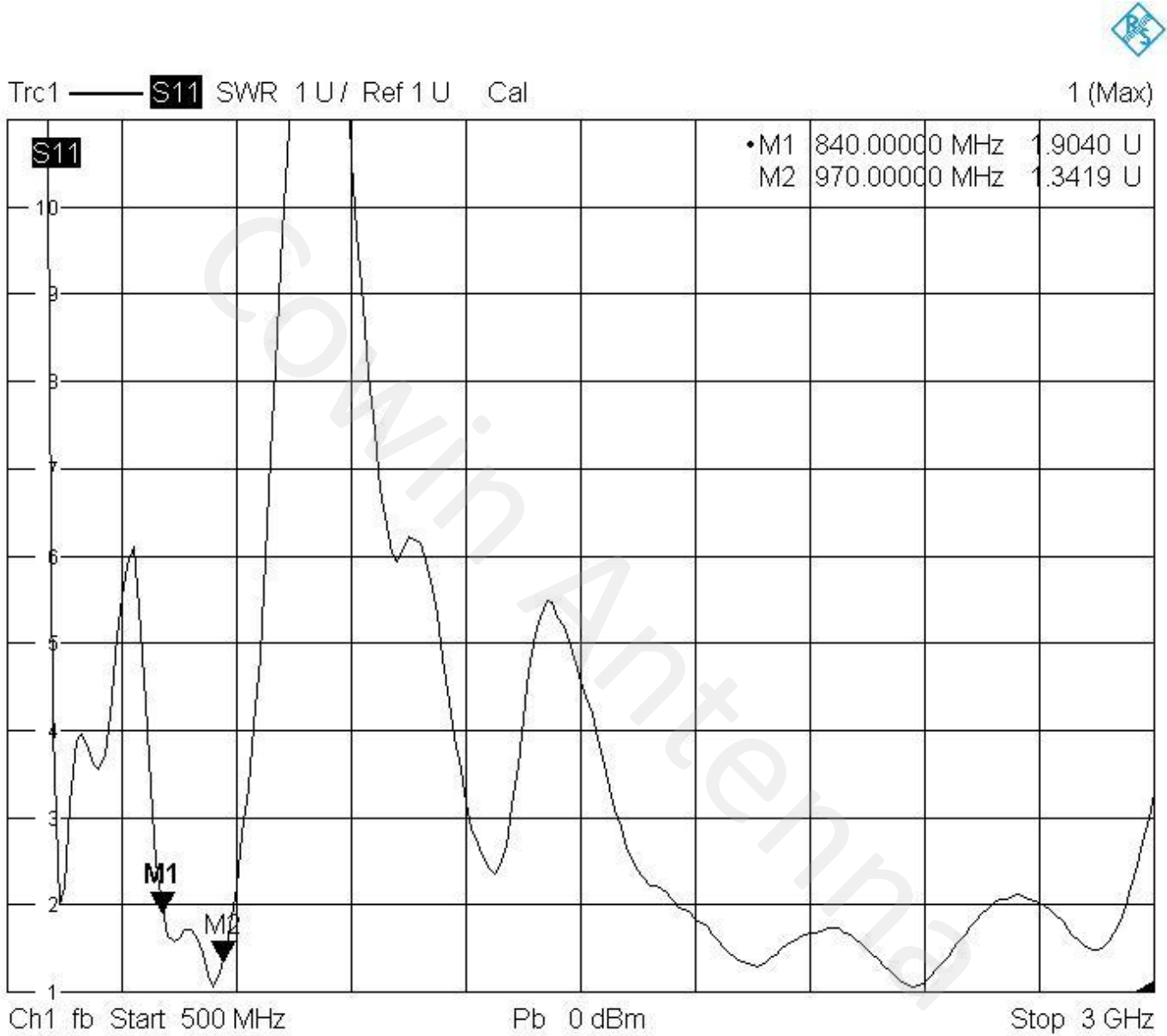
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

The comprehensive tester is Agilent cmv500

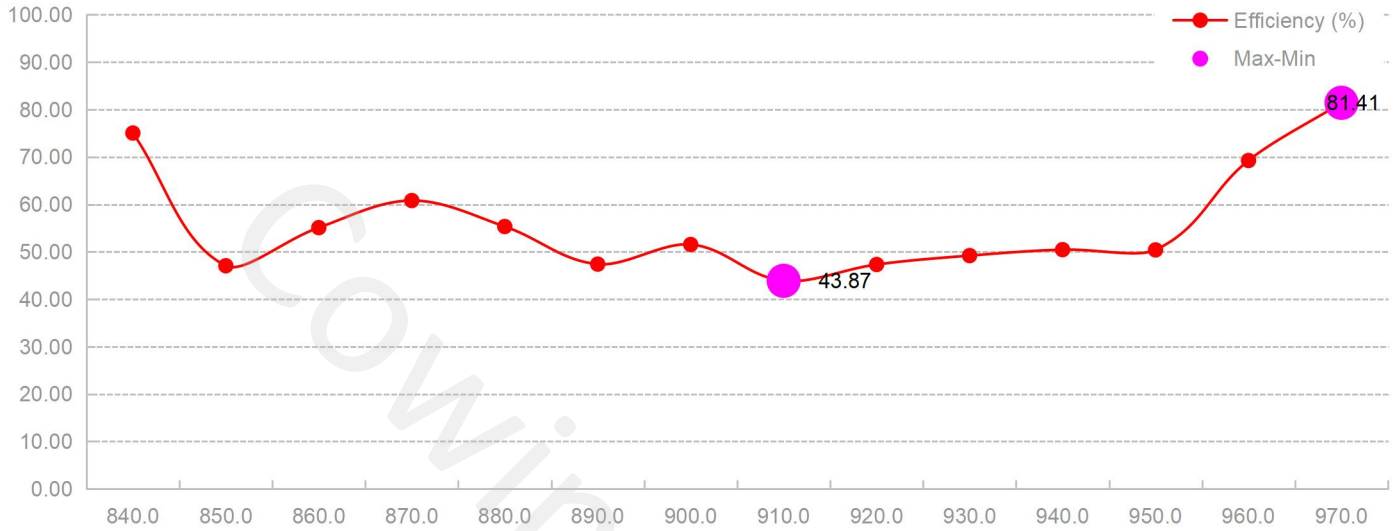


4.1 VSWR

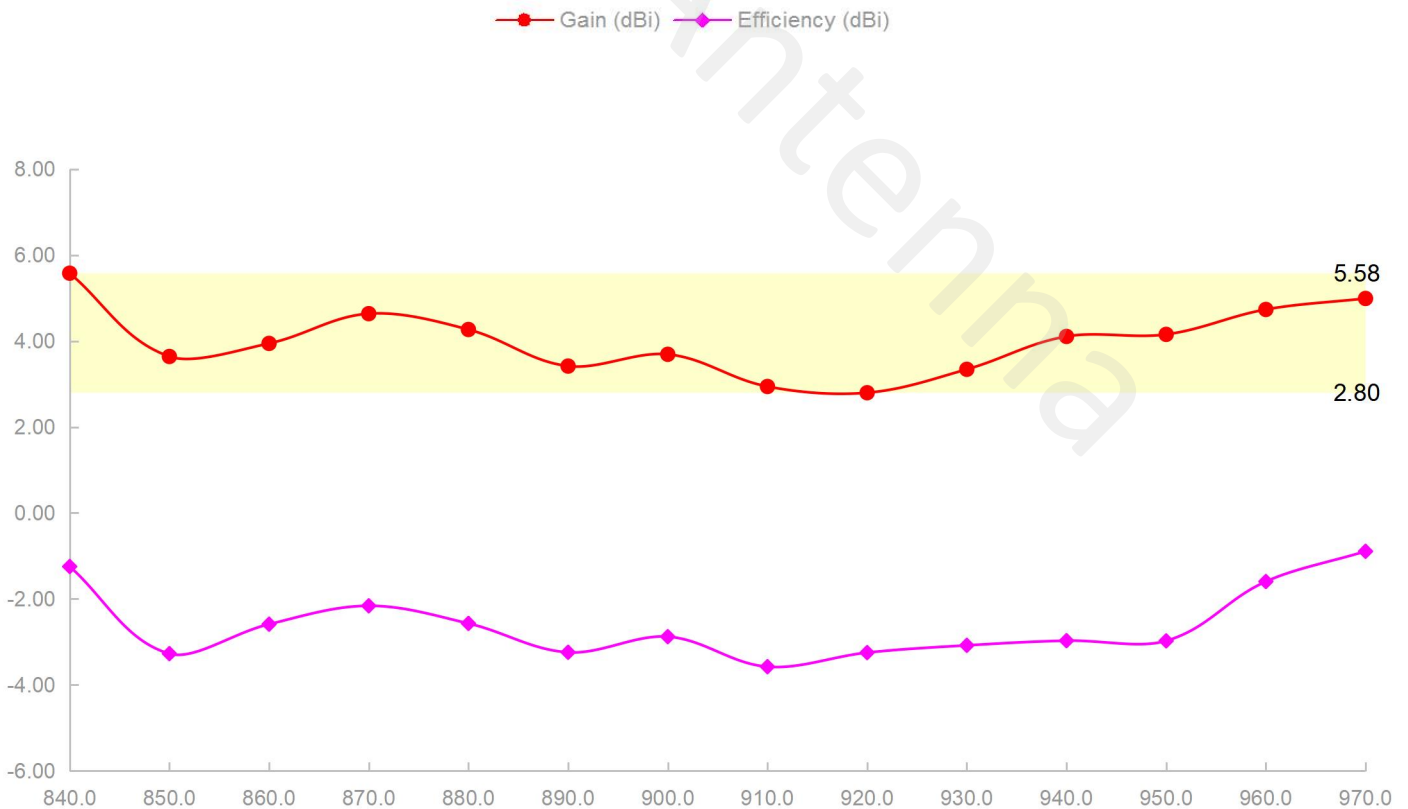


1/10/2024, 2:56 PM

4.2 Efficiency

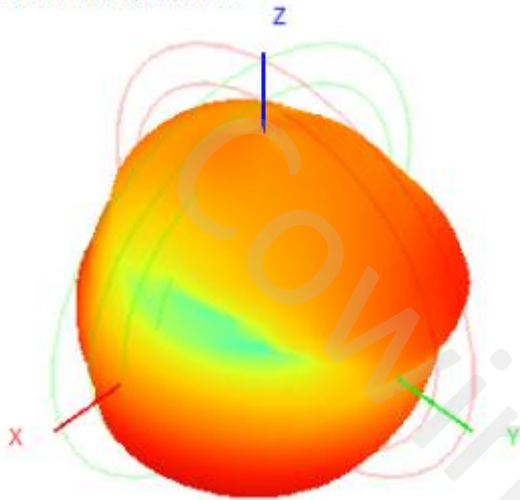


4.3 Peak gain

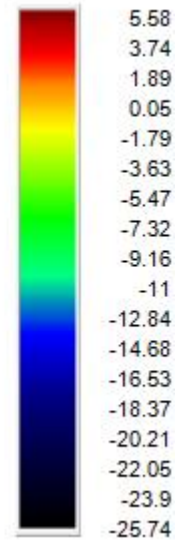
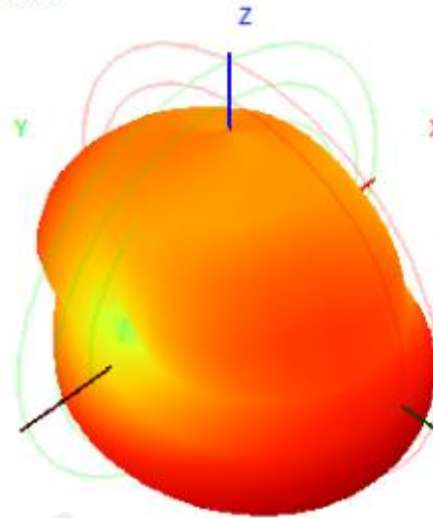


4.4 3D&2D Radiation Patterns

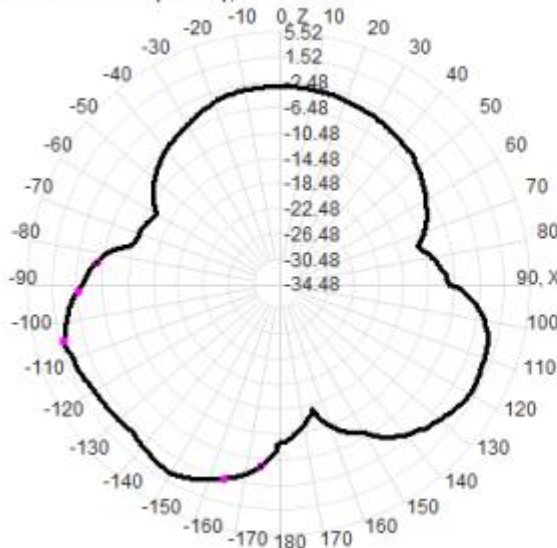
840.0MHz H+V, Eff: 75.0%



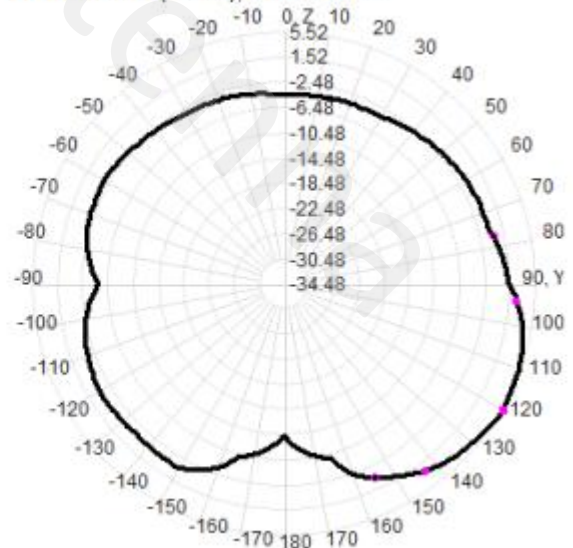
Back View



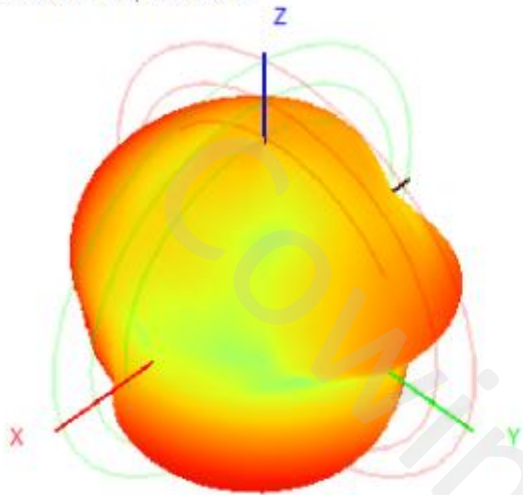
840.0MHz Total(E1-XZ), Max= 0.71dBi



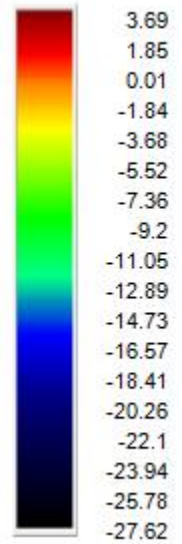
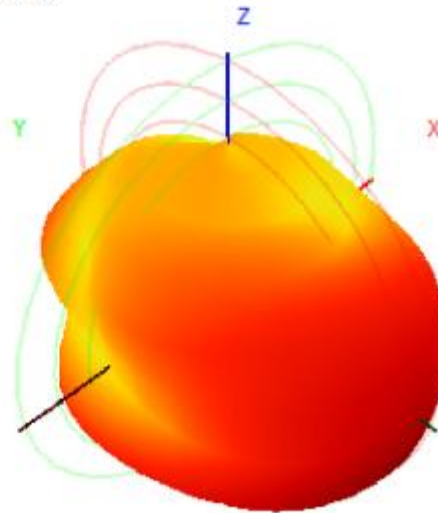
840.0MHz Total(E2-YZ), Max= 5.52dBi



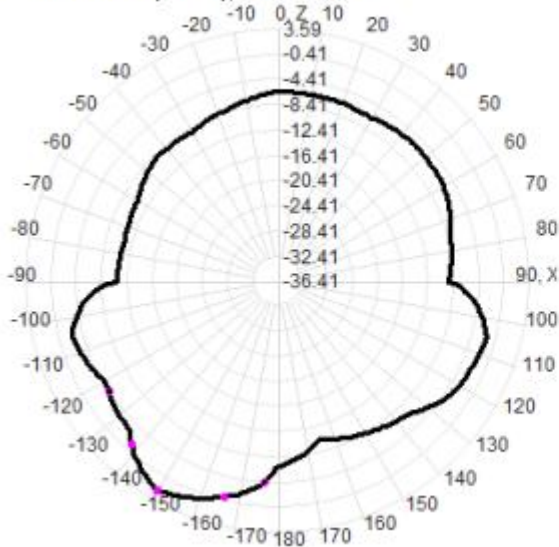
900.0MHz H+V, Eff: 51.5%



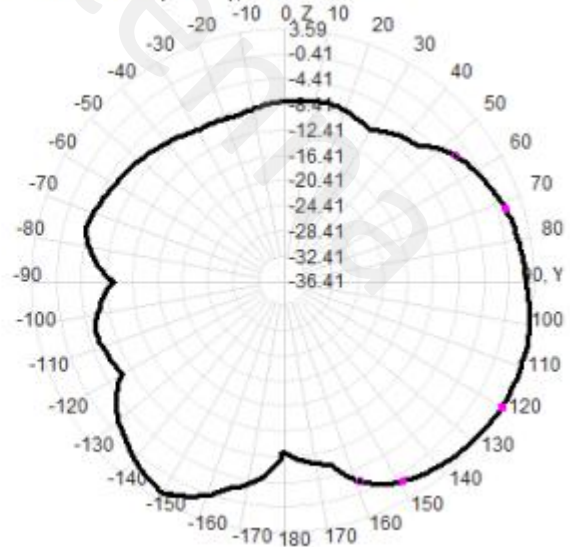
Back View



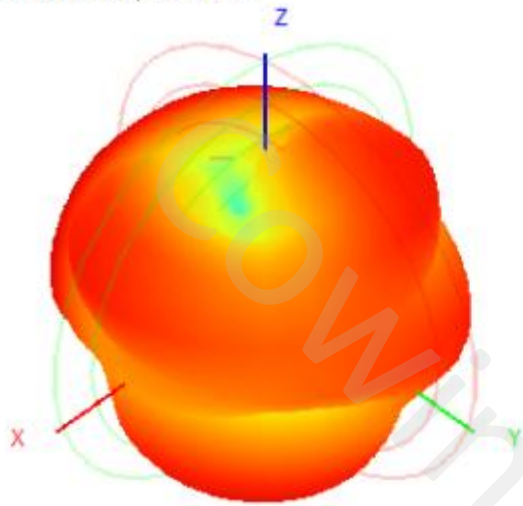
900.0MHz Total(E1-XZ), Max= 1.74dBi



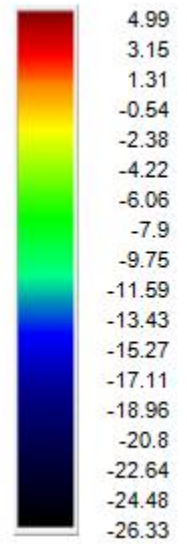
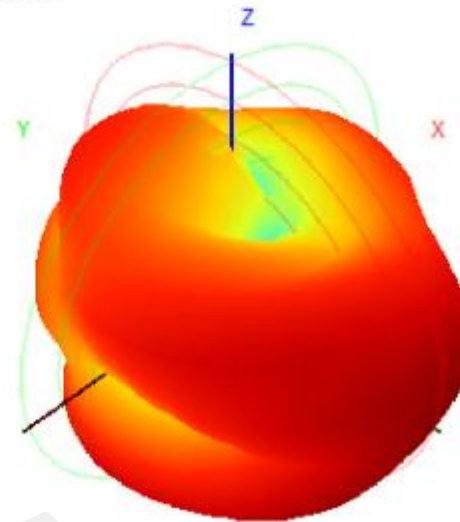
900.0MHz Total(E2-YZ), Max= 3.59dBi



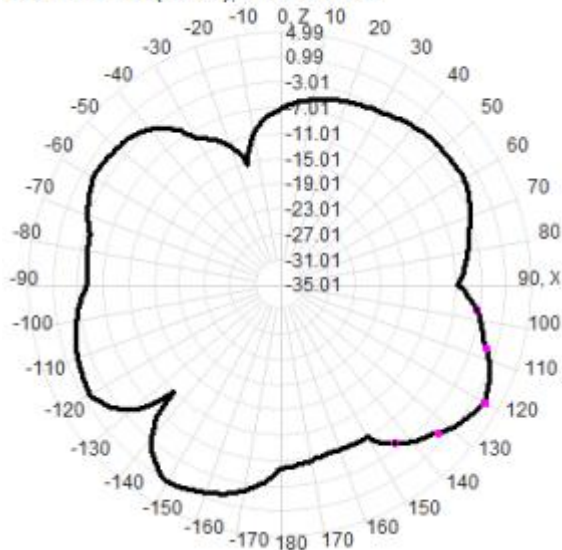
970.0MHz H+V, Eff: 81.4%



Back View



970.0MHz Total(E1-XZ), Max= 2.36dBi



970.0MHz Total(E2-YZ), Max= 4.79dBi

