

CW-WZ-0139

900-930MHz External Antenna

Key Features

Frequency: 900-930MHz

RP SMA Male Connector

External Rubber

Dimensions : 50 *10mm

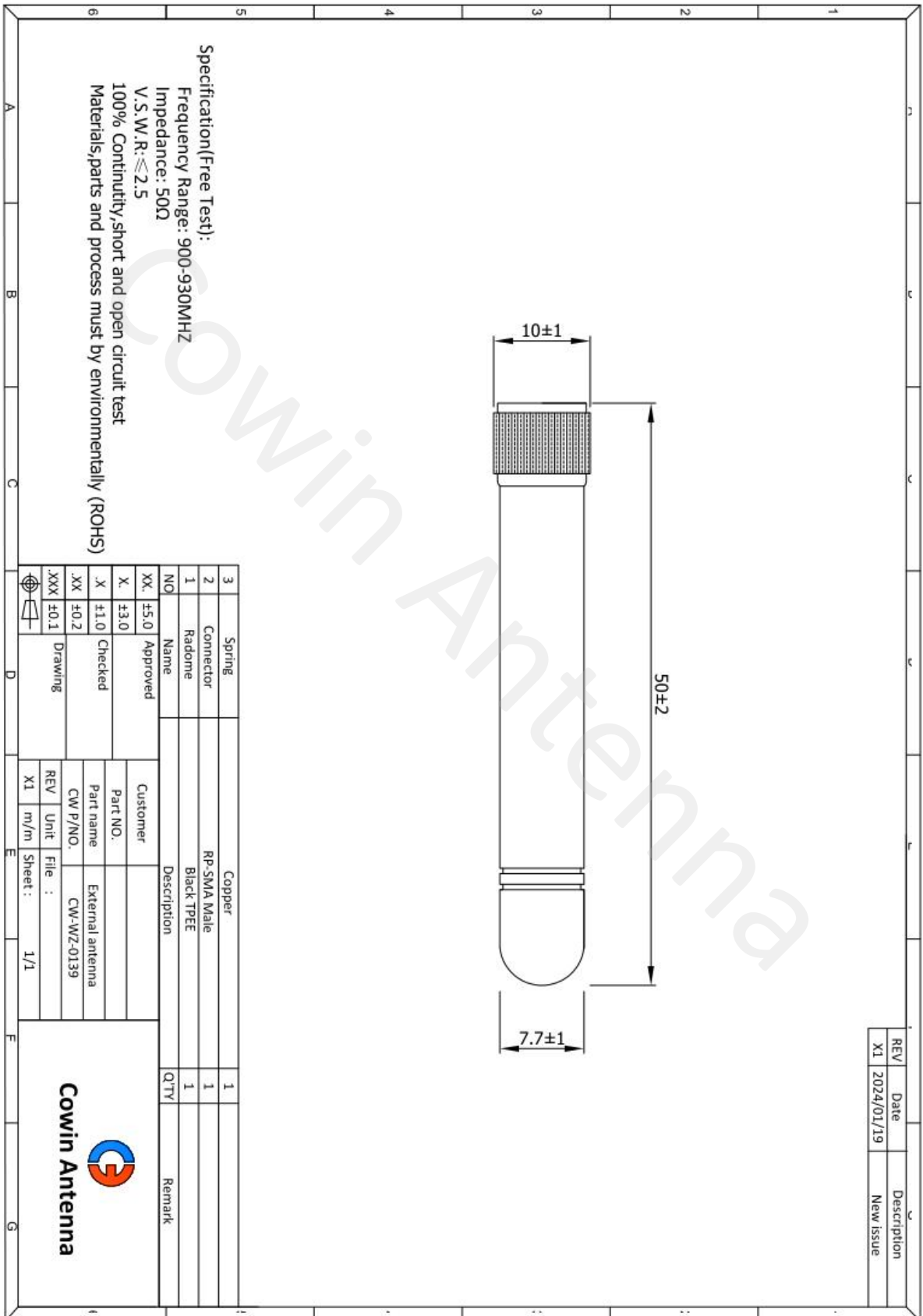


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	900-930MHz
VSWR	≤2.5
Efficiency (%)	56.78%
Peak Gain (dBi)	1.79
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	RP SMA Male

2. Material and environmental characteristics

Inner structure	Spring
External structure	TPEE
Cable Type	N/A
Connector Type	RP SMA Male
Dimensions (mm)	50MM
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS



Specification(Free Test):
 Frequency Range: 900-930MHZ
 Impedance: 50Ω
 V.S.W.R: ≤2.5
 100% Continuity,short and open circuit test
 Materials,parts and process must by environmentally (ROHS)

3	Spring	Copper	1	
2	Connector	RP-SMA Male	1	
1	Radome	Black TREE	1	
NO	Name	Description	Q'TY	Remark
XX	±5.0	Approved		
X	±3.0			
.X	±1.0	Checked		
.XX	±0.2			
.XXX	±0.1	Drawing		

Customer	Part NO.	External antenna
Part name	CW P/NO.	CW-WZ-0139
REV	Unit	File :
X1	m/m	Sheet :
		1/1

REV	Date	Description
X1	2024/01/19	New issue



4. Antenna test parameters

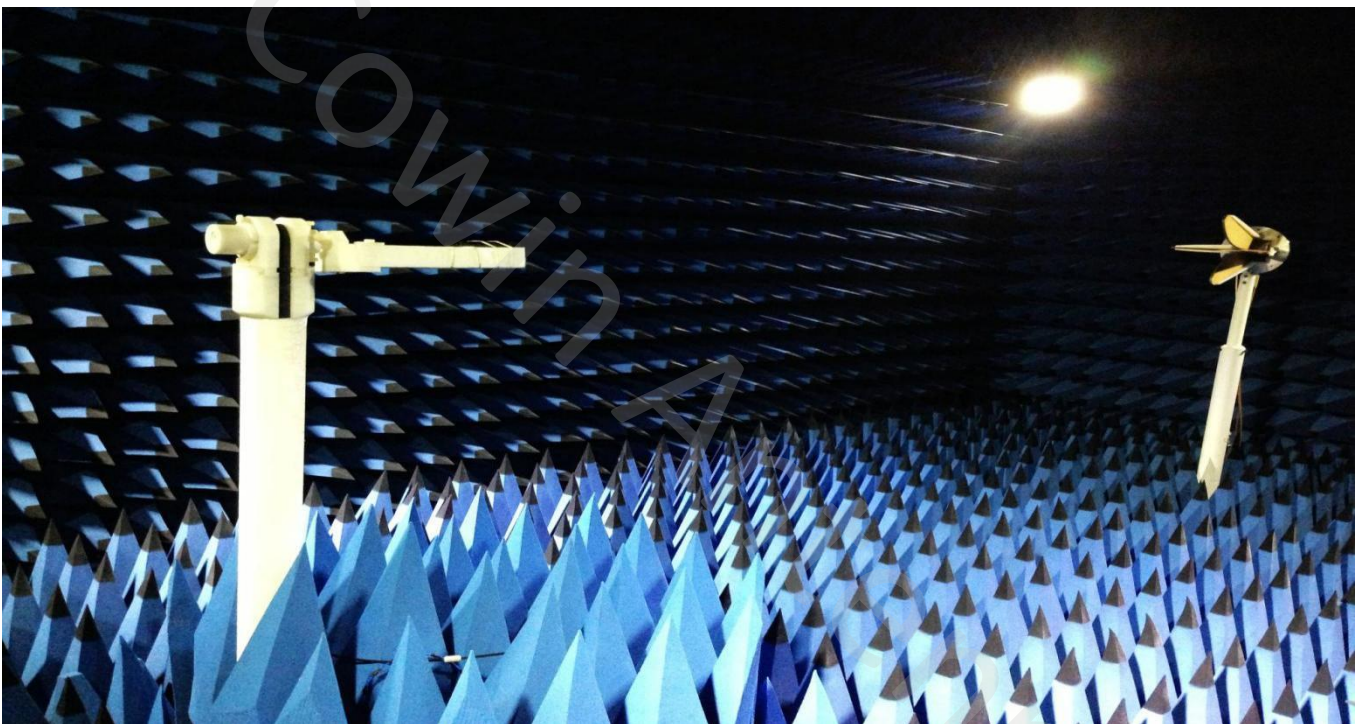
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

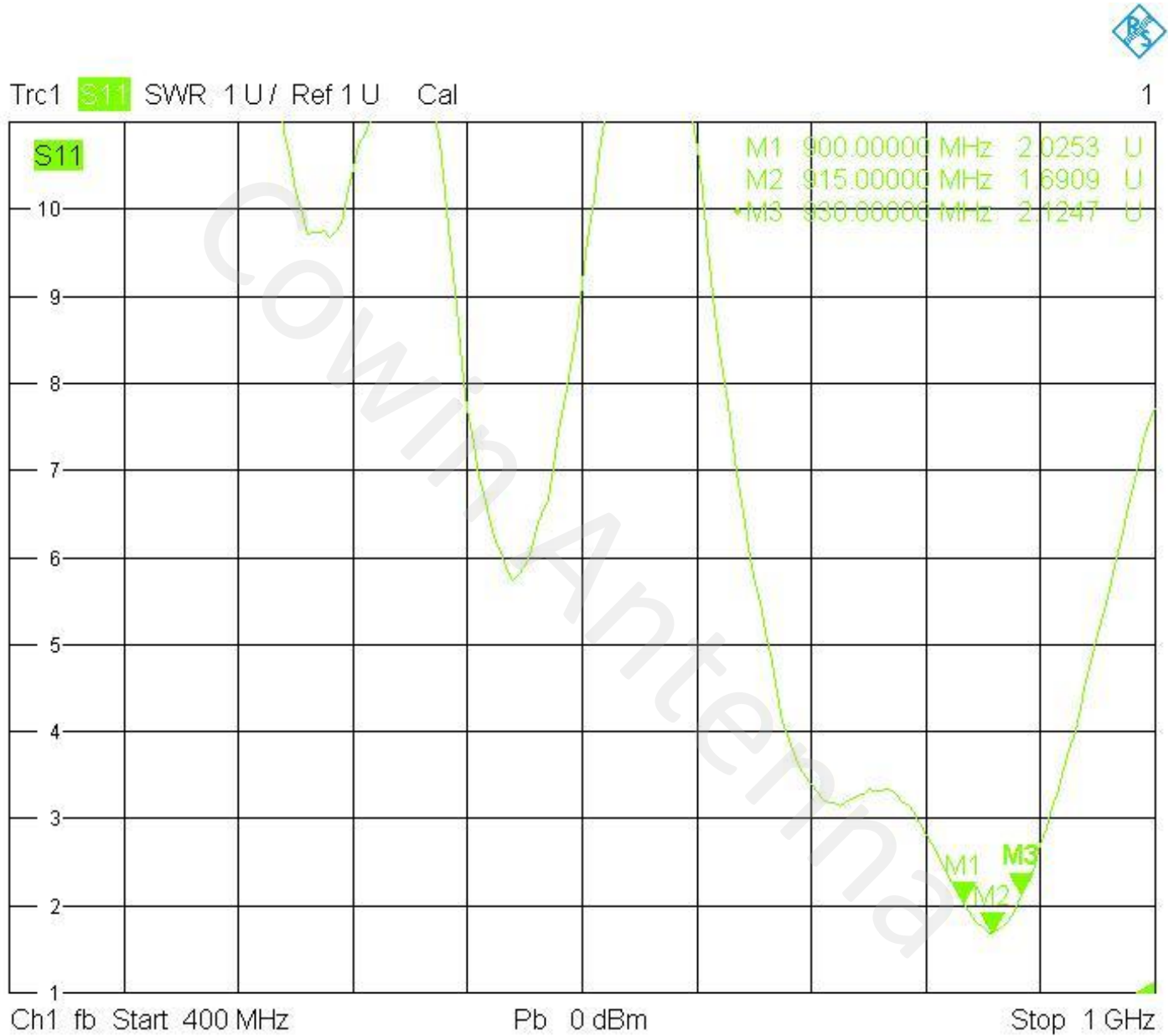
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

The comprehensive tester is Agilent cmv500

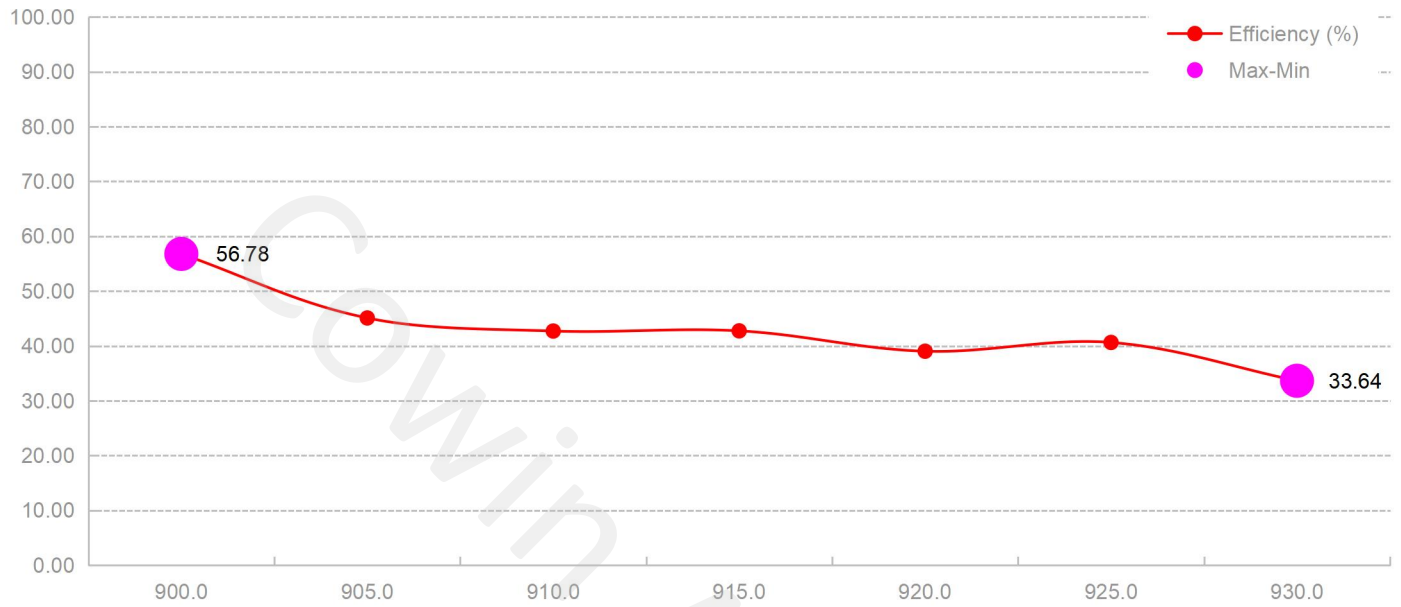


4.1 VSWR

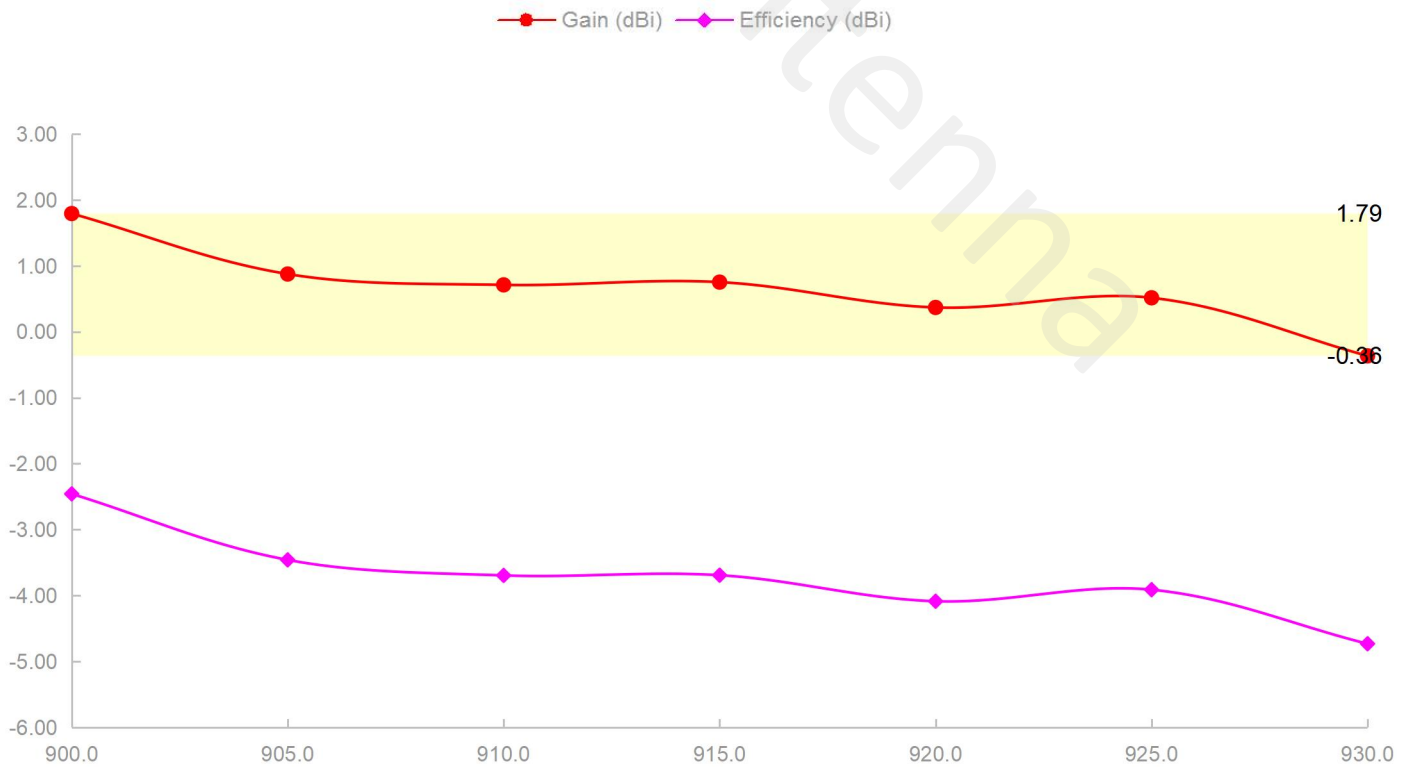


1/19/2024, 11:24 AM

4.2 Efficiency

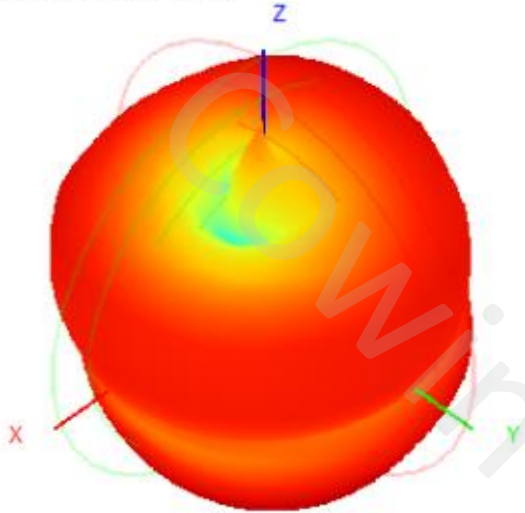


4.3 Peak gain

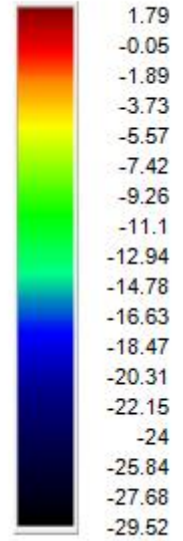
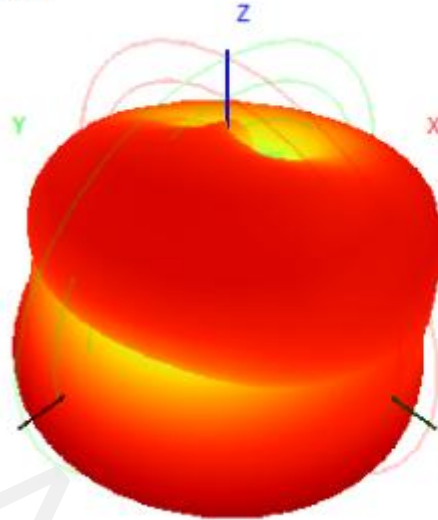


4.4 3D&2D Radiation Patterns

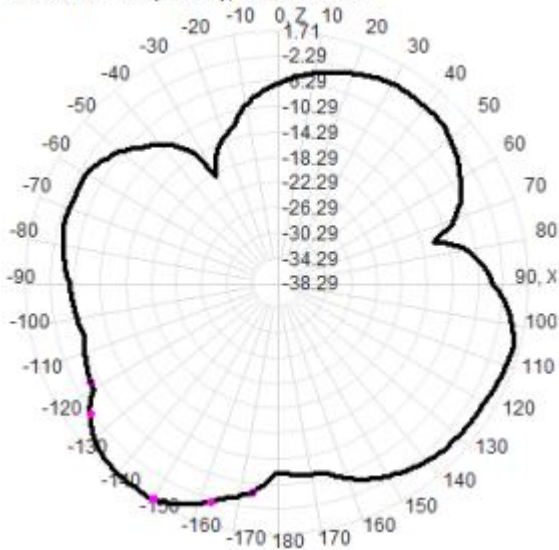
900.0MHz H+V, Eff: 56.8%



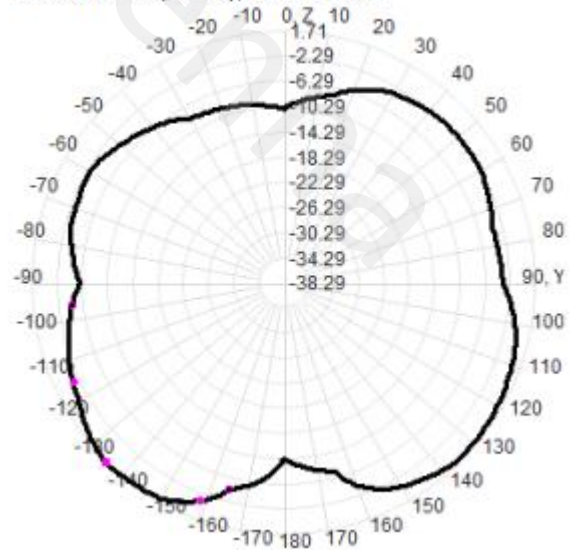
Back View



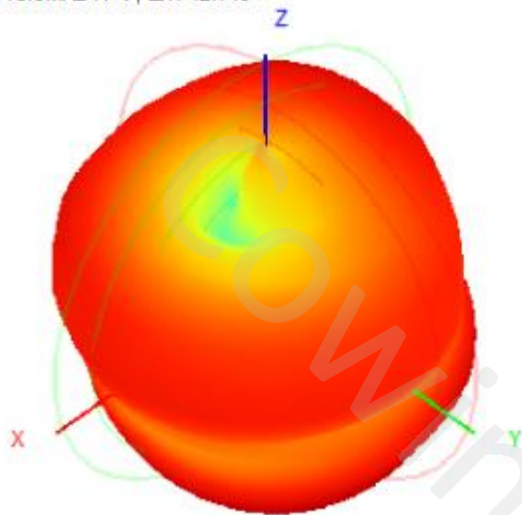
900.0MHz Total(E1-XZ), Max= 1.17dBi



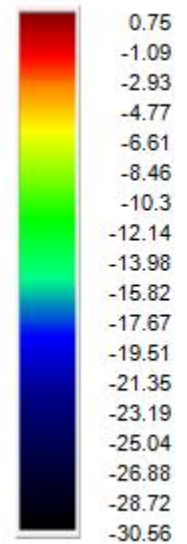
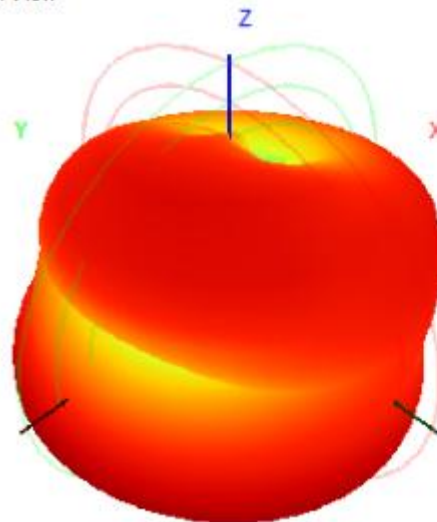
900.0MHz Total(E2-YZ), Max= 1.71dBi



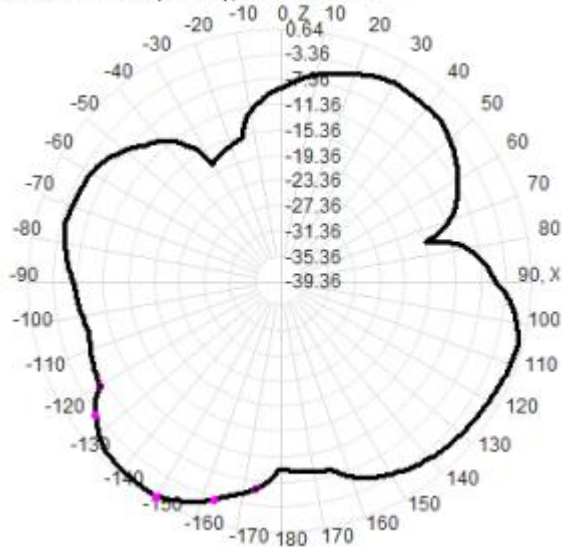
915.0MHz H+V, Eff: 42.7%



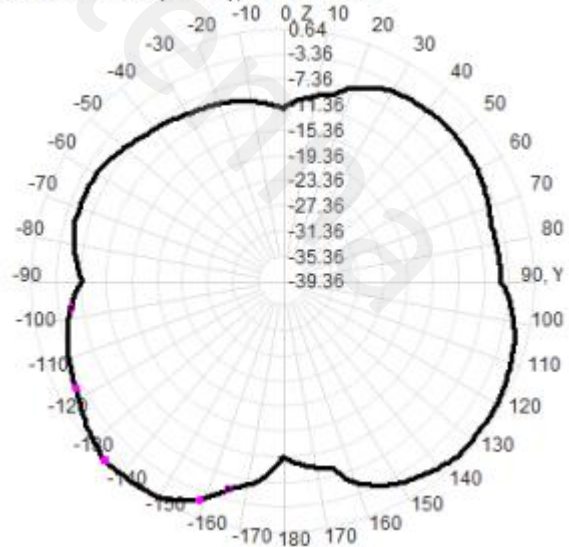
Back View



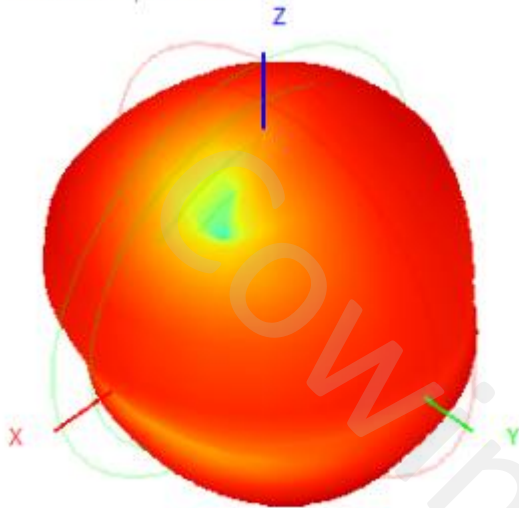
915.0MHz Total(E1-XZ), Max= -0.05dBi



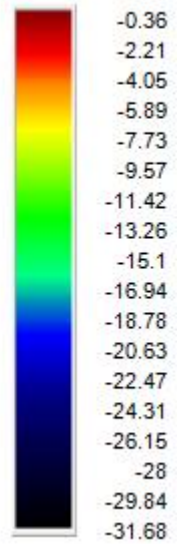
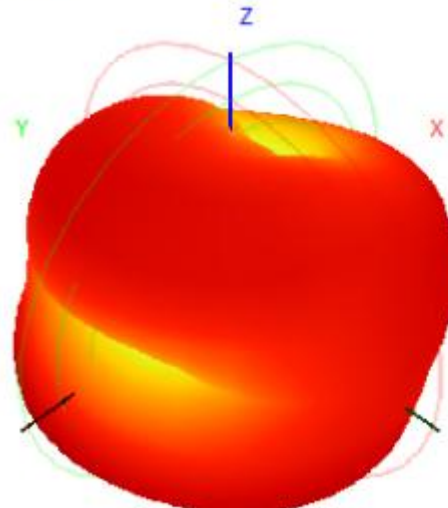
915.0MHz Total(E2-YZ), Max= 0.64dBi



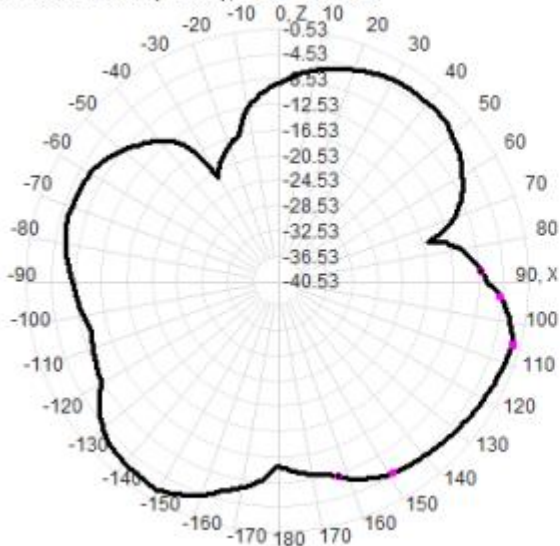
930.0MHz H+V, Eff: 33.6%



Back View



930.0MHz Total(E1-XZ), Max=-2.08dBi



930.0MHz Total(E2-YZ), Max=-0.53dBi

