

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



4. Antenna test parameters

Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

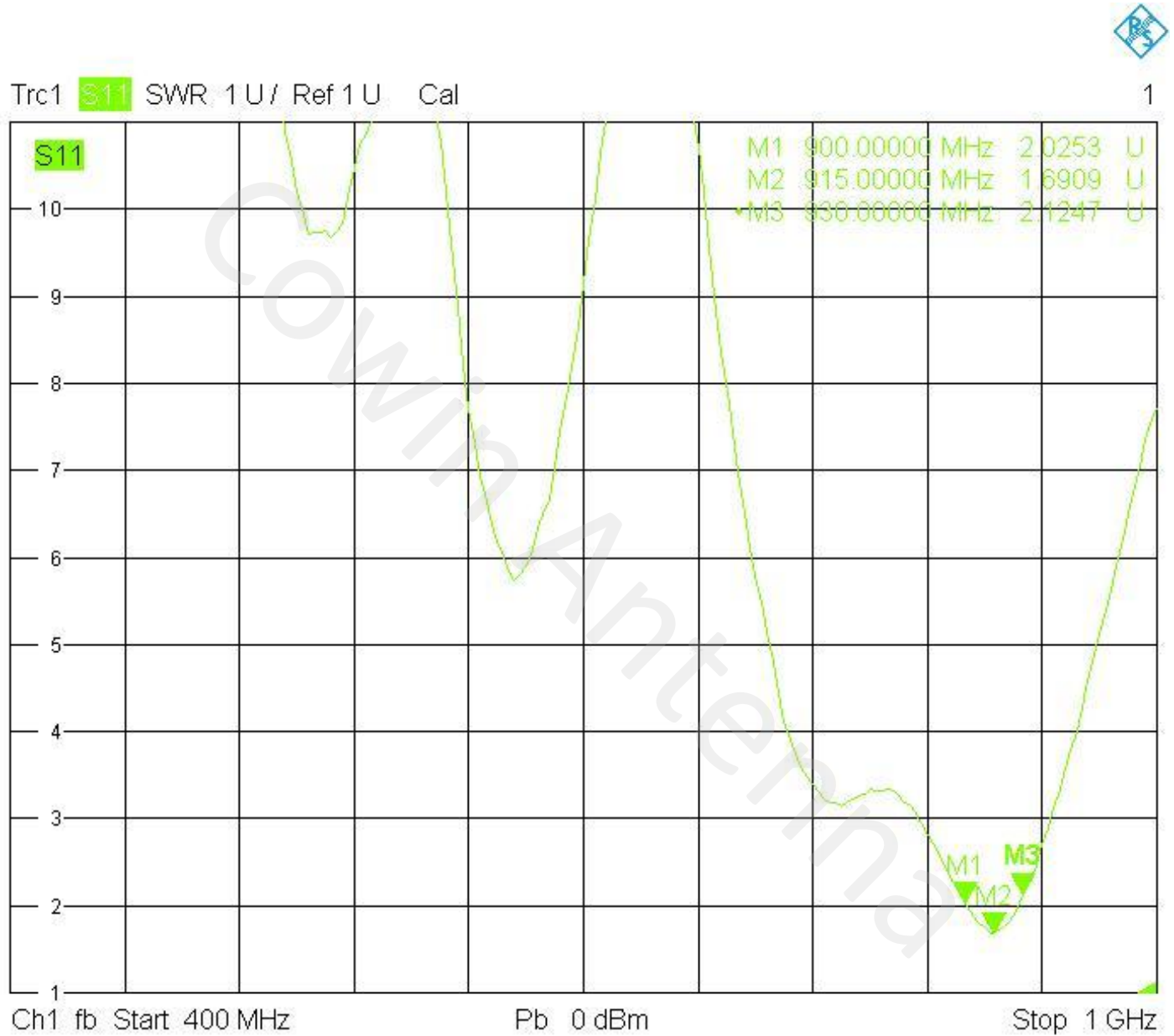
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

The comprehensive tester is Agilent cmv500

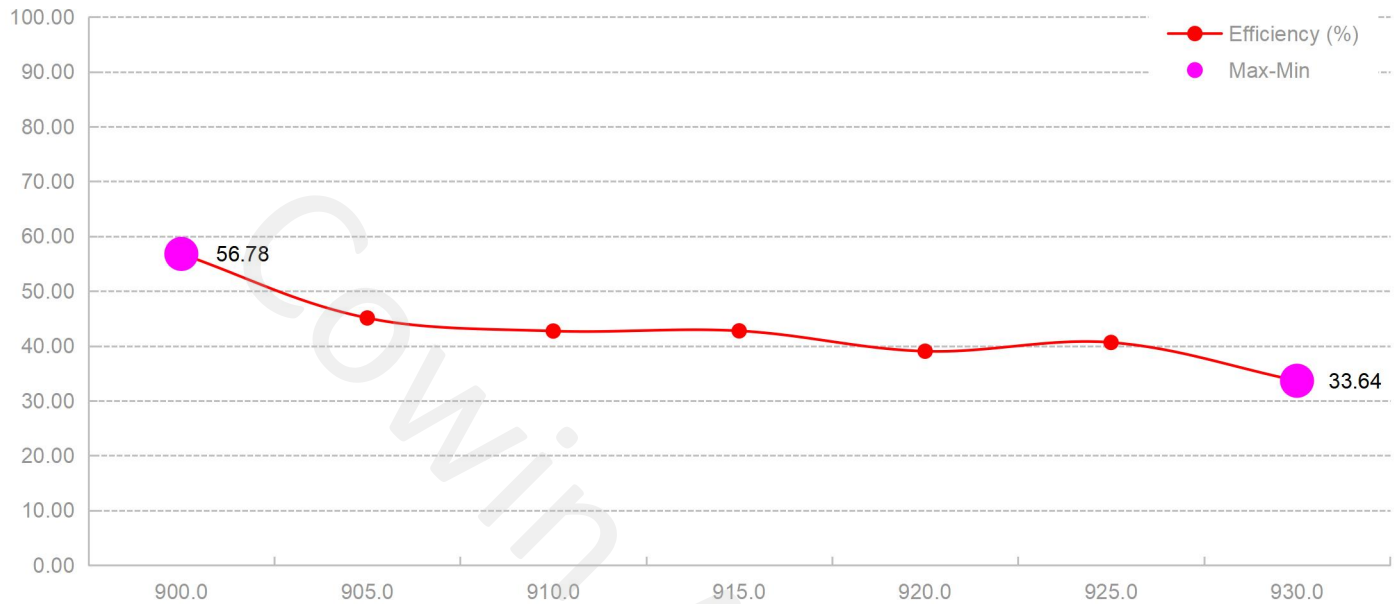


4.1 VSWR

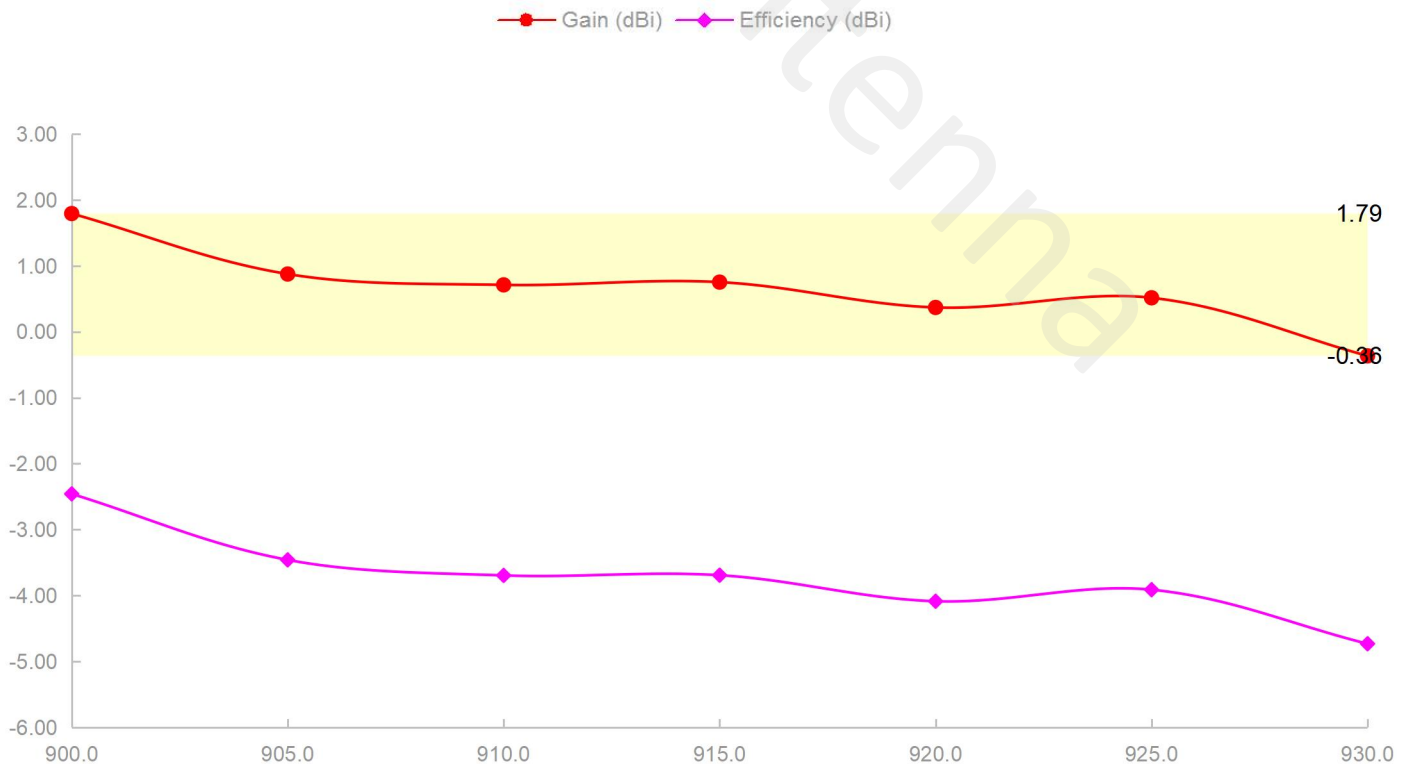


1/19/2024, 11:24 AM

4.2 Efficiency



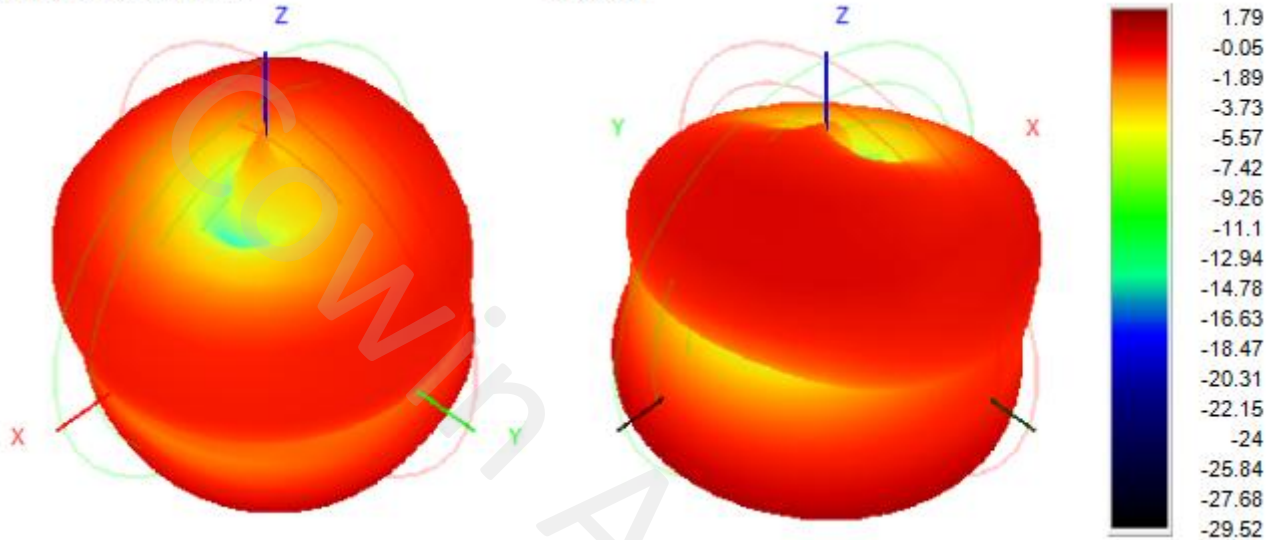
4.3 Peak gain



4.4 3D&2D Radiation Patterns

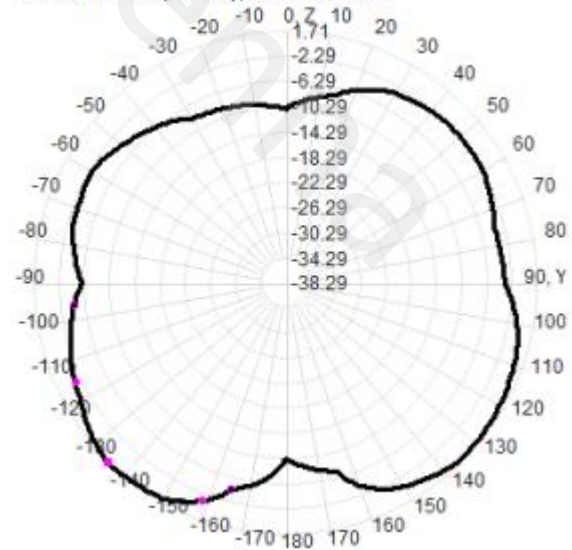
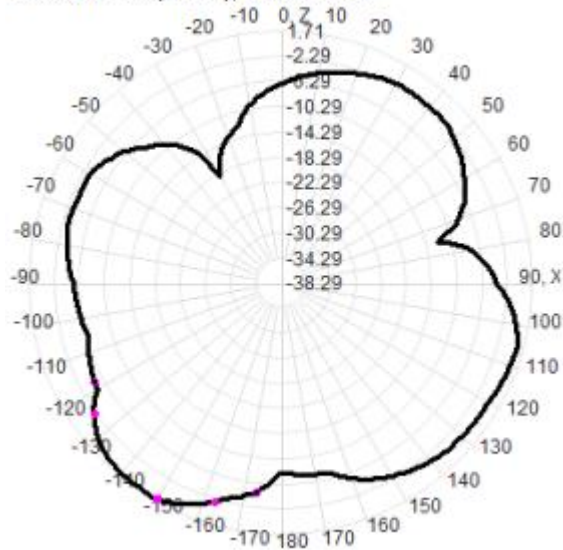
900.0MHz H+V, Eff: 56.8%

Back View



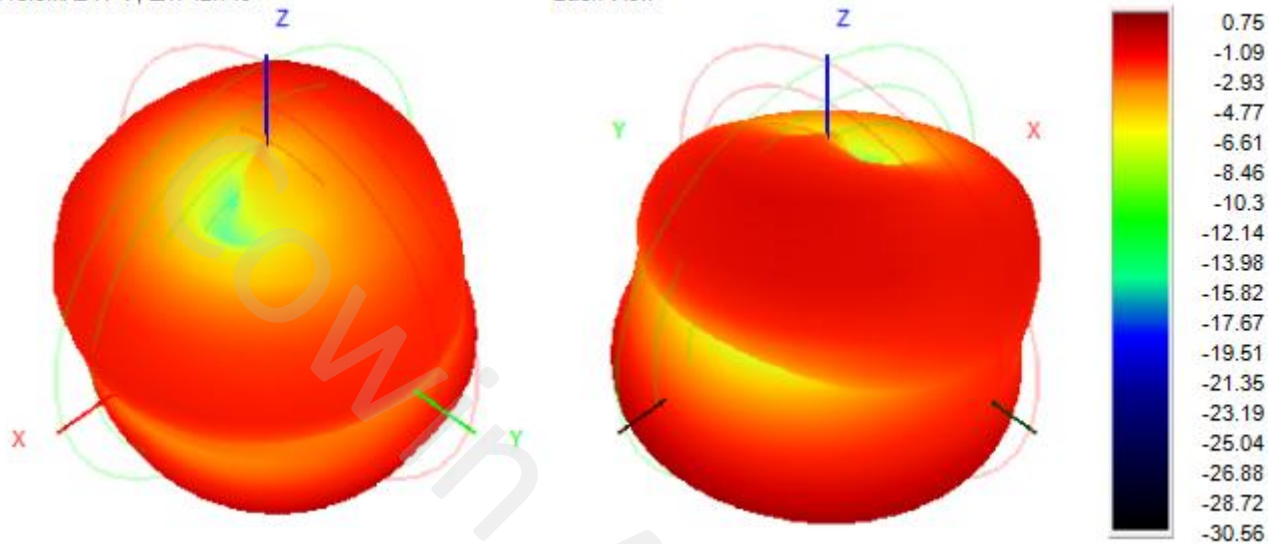
900.0MHz Total(E1-XZ), Max= 1.17dBi

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



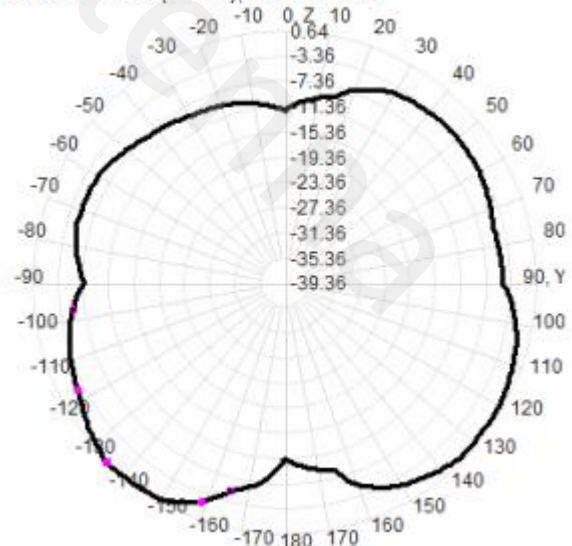
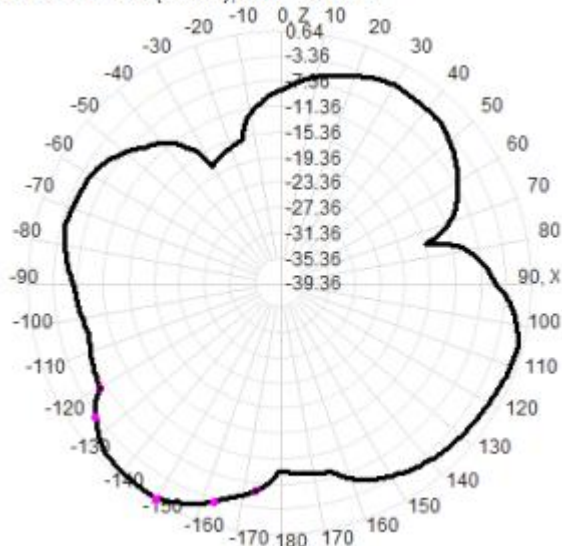
915.0MHz H+V, Eff: 42.7%

Back View



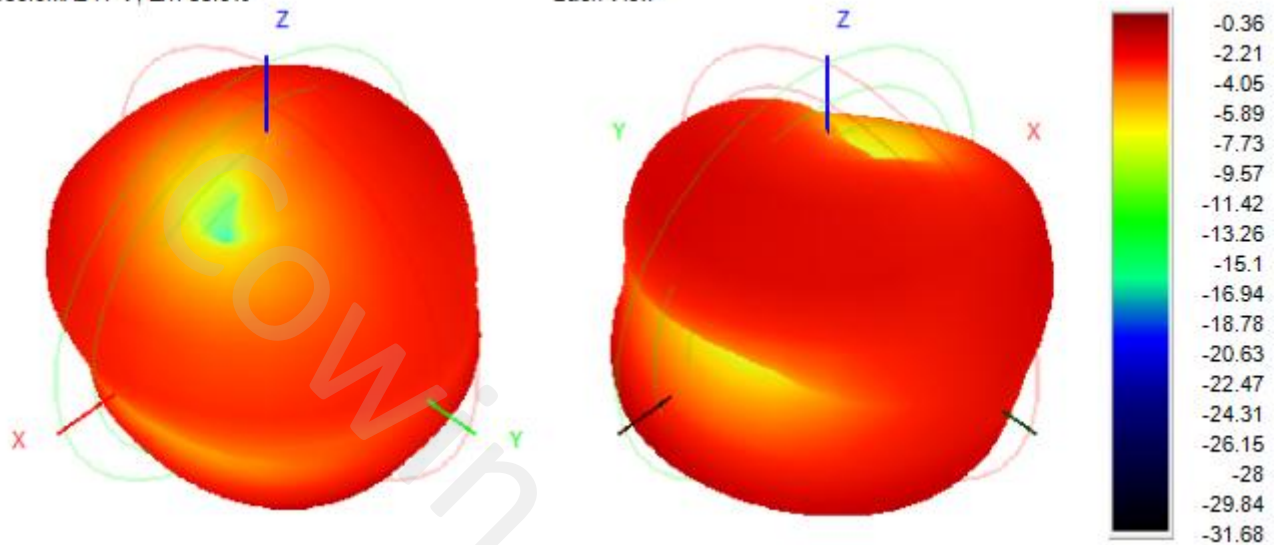
915.0MHz Total(E1-XZ), Max= -0.05dBi

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

