

CW-WZ-0133

GSM Magentic Antenna

Key Features

Frequency: 890-960/1710-1880MHz

RP SMA Male Connector

External Magnetic Base

Dimensions 275*45mm

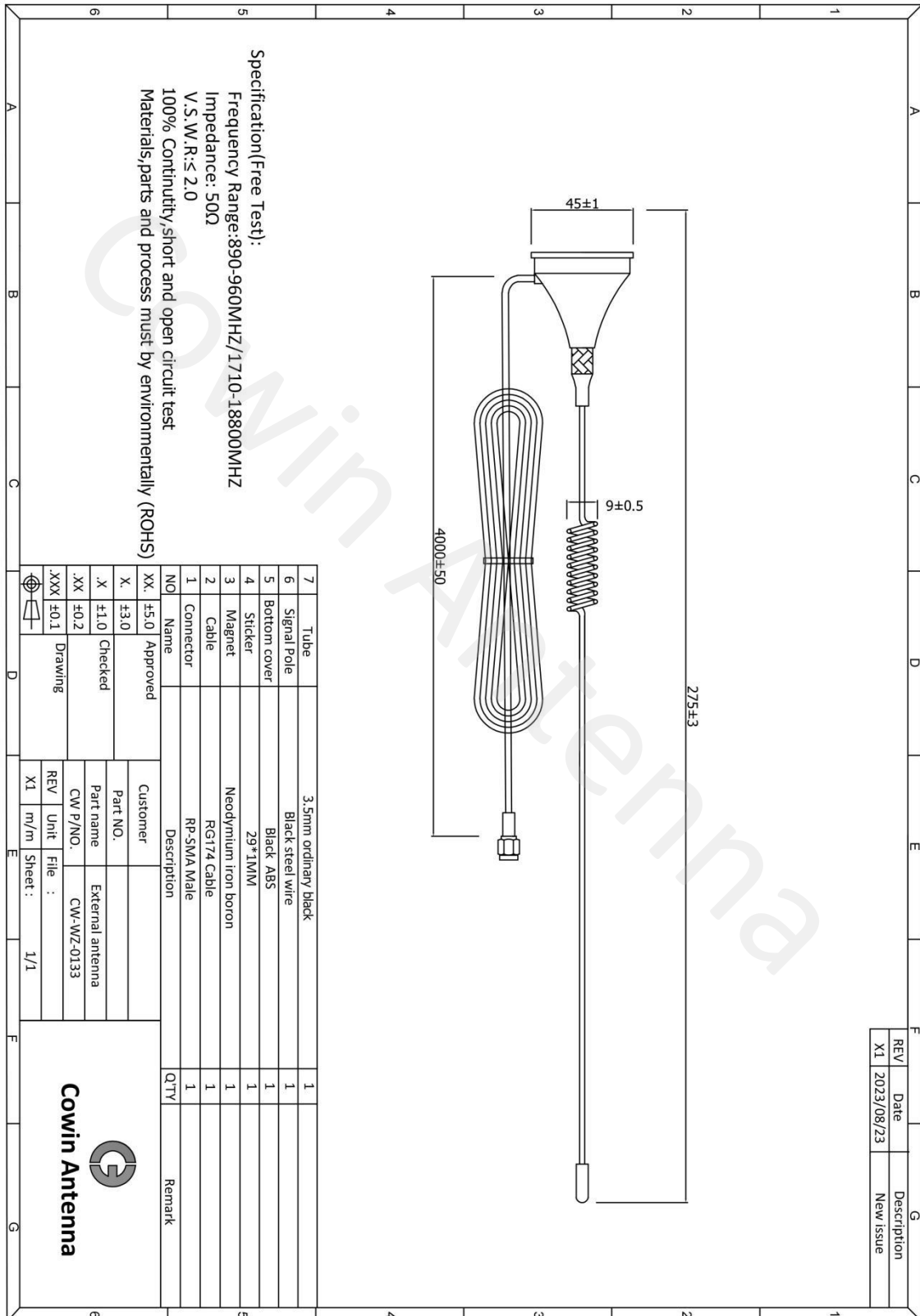


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	890-960/1710-1880MHz
VSWR	2.0
Efficiency (%)	50.62%/52.07%
Peak Gain (dBi)	2.64/3.17
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	RP SMA Male

2. Material and environmental characteristics

Inner structure	Copper tube
Material of Plastic	ABS/TPE
Cable Type	RG174
Connector Type	RP SMA Male
Dimensions (mm)	275*45MM
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

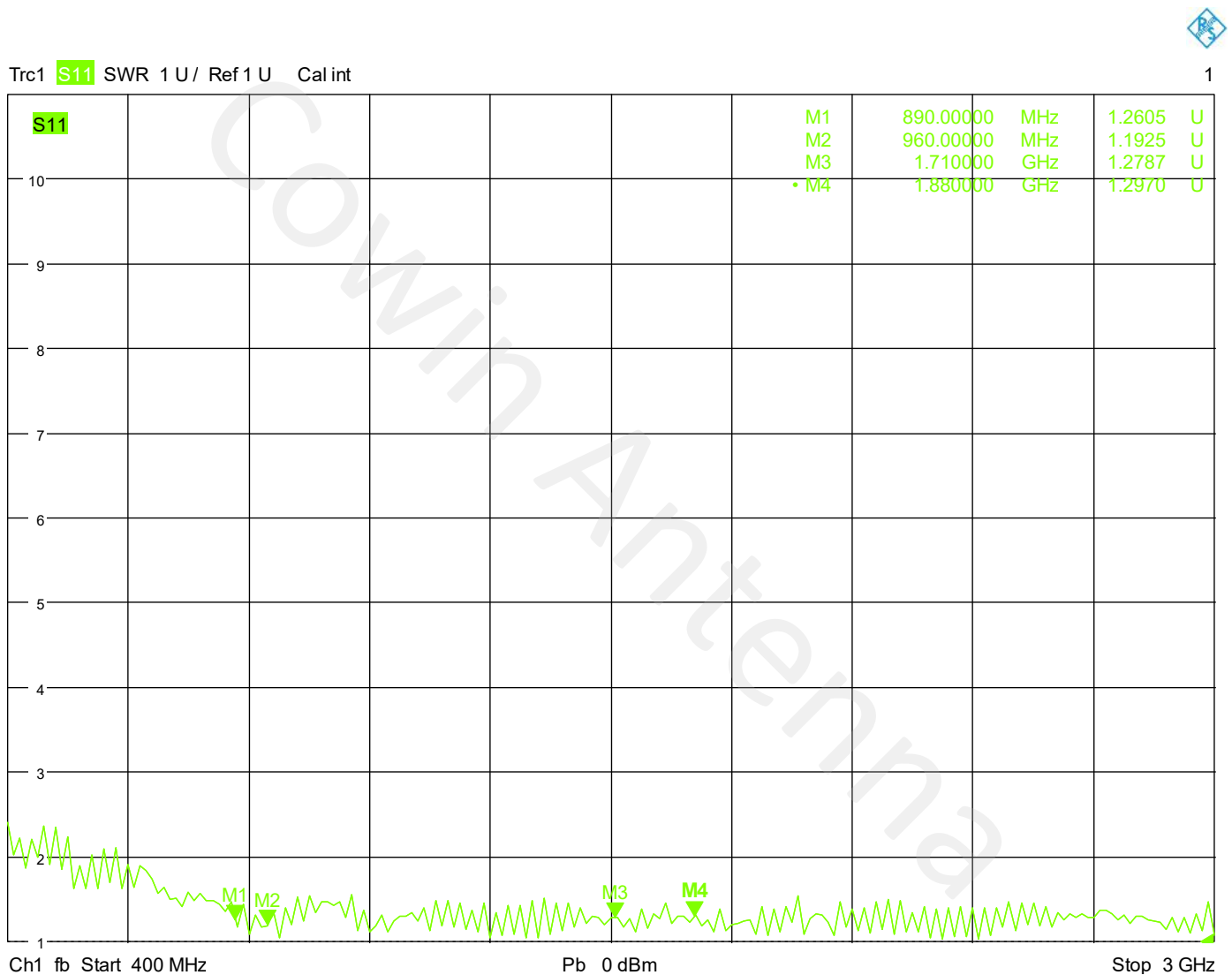
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

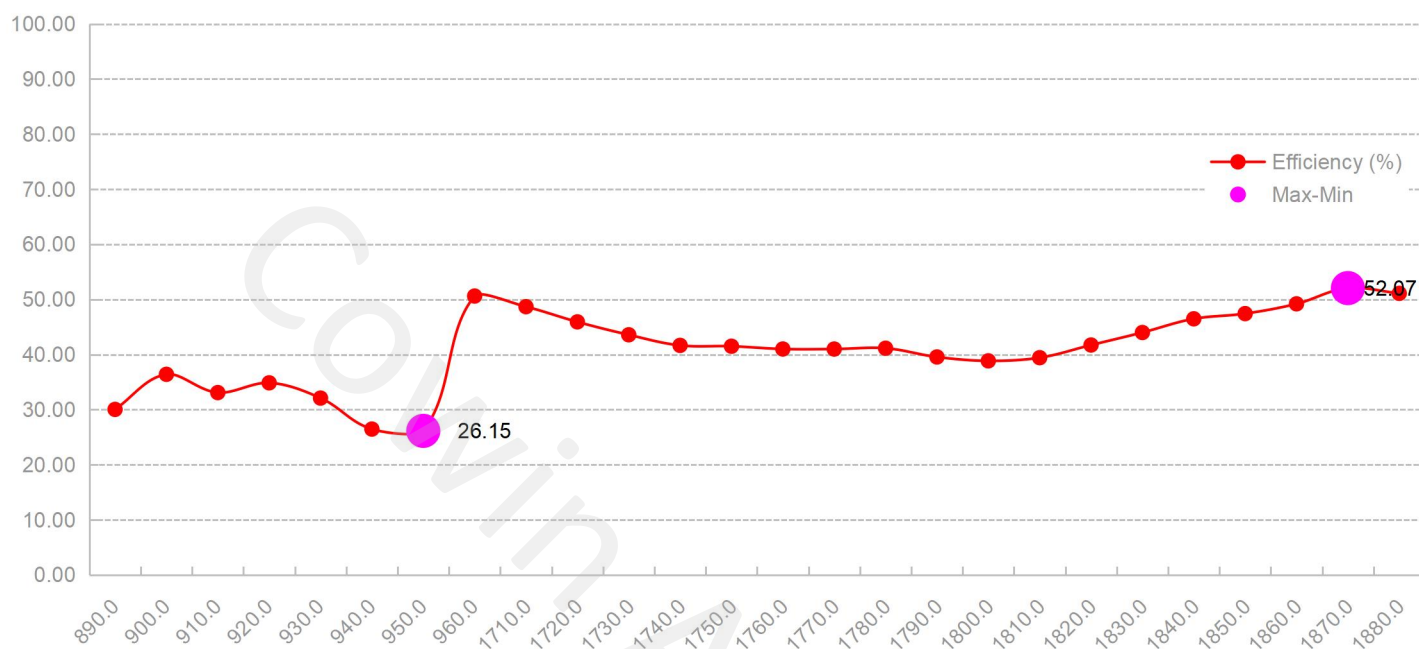
The comprehensive tester is Agilent cmv500



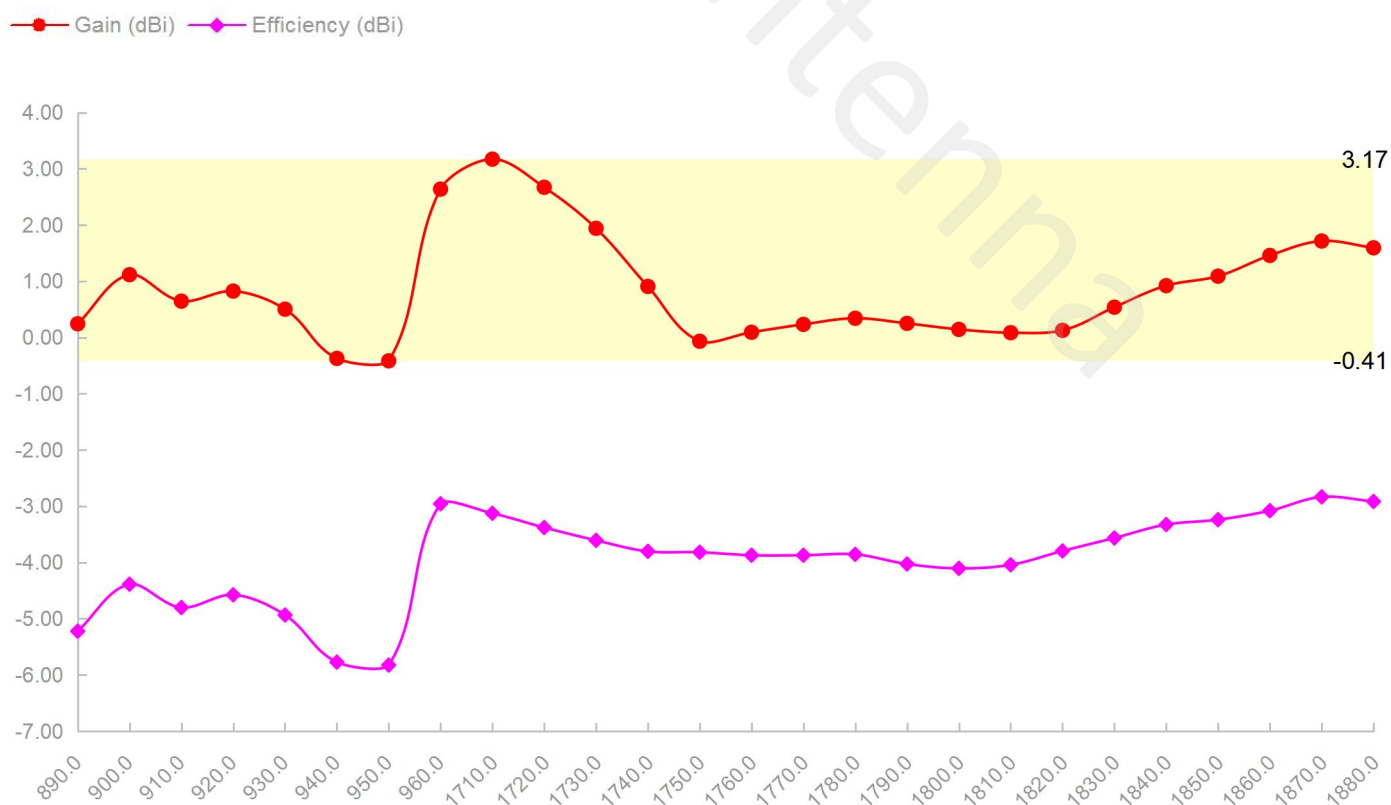
4.1 VSWR



4.2 Efficiency

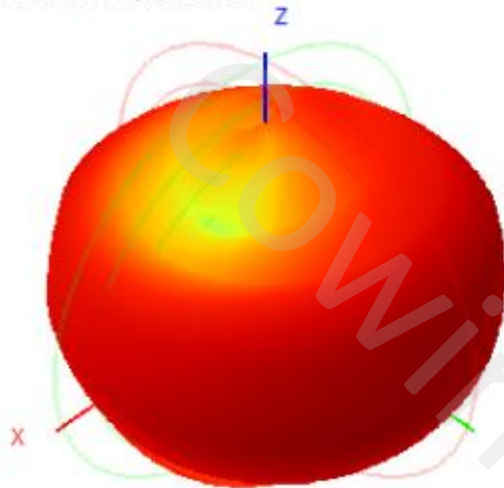


4.3 Peak gain

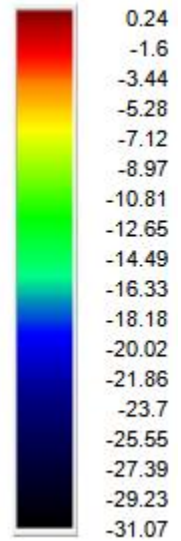
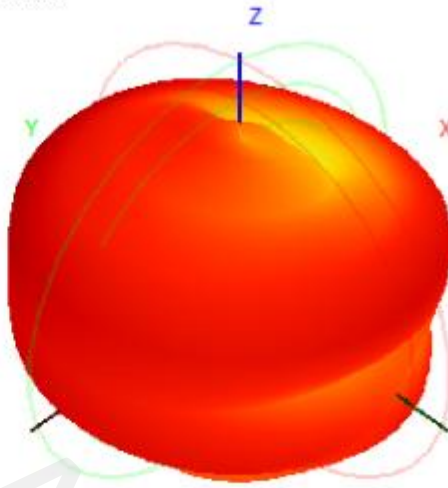


4.4 3D&2D Radiation Patterns

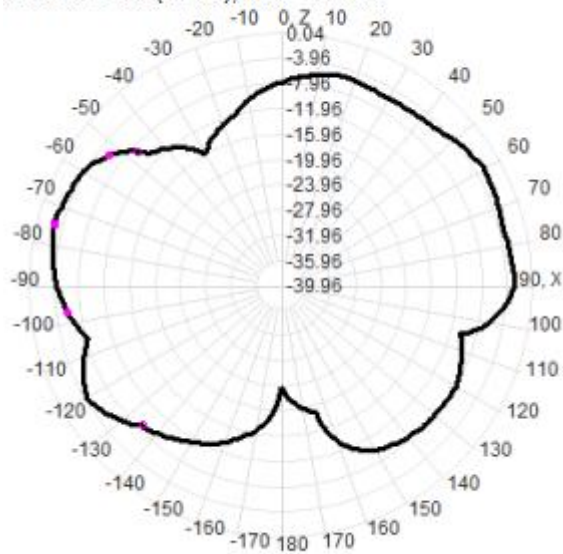
890.0MHz H+V, Eff: 30.0%



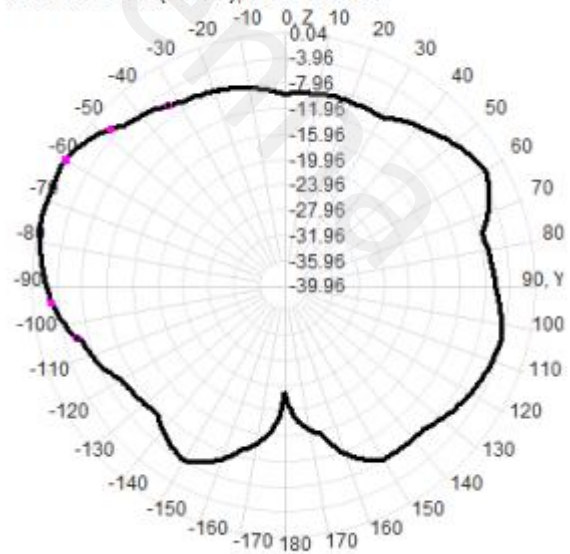
Back View



890.0MHz Total(E1-XZ), Max= -2.68dBi

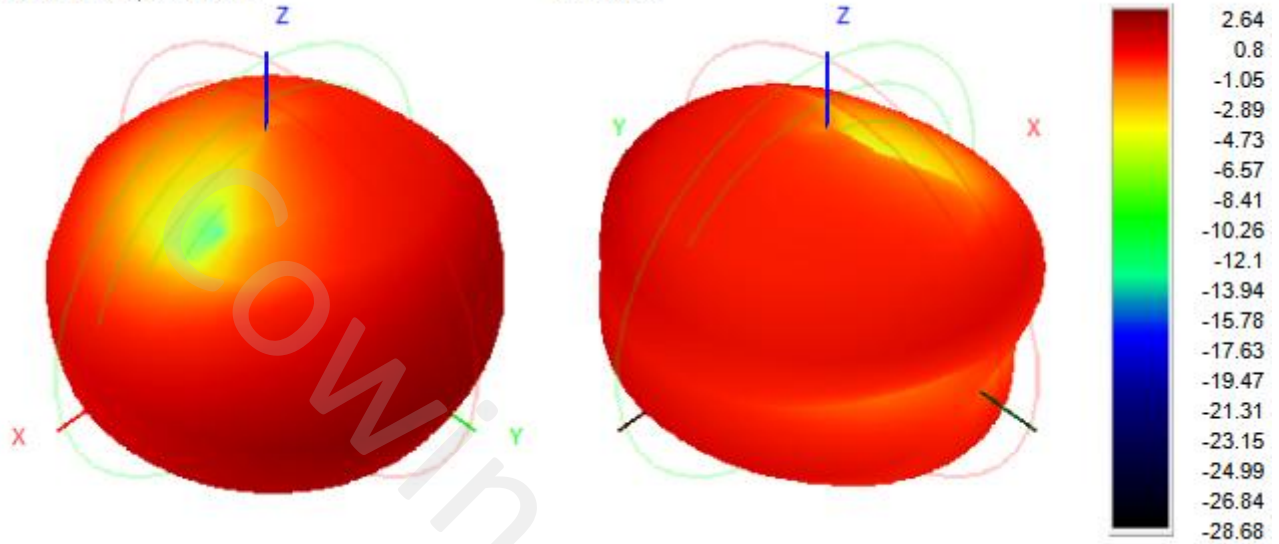


890.0MHz Total(E2-YZ), Max= 0.04dBi



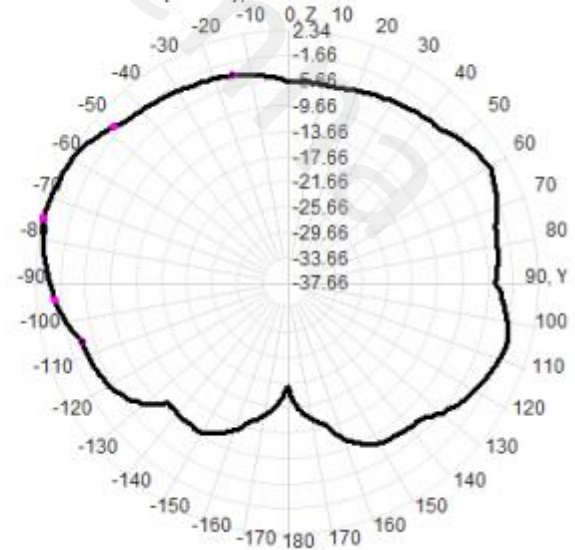
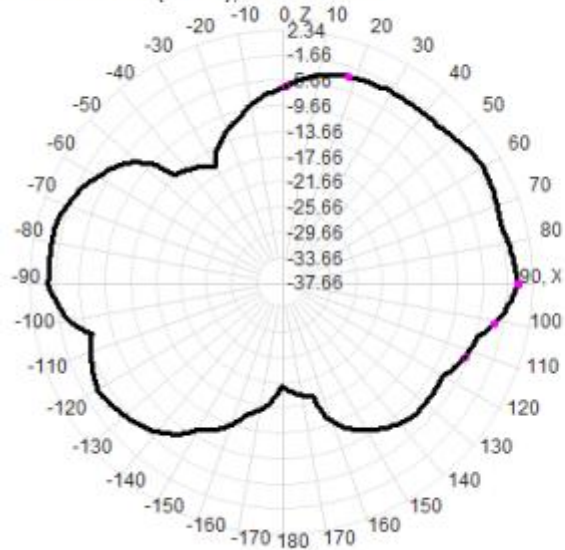
960.0MHz H+V, Eff: 50.6%

Back View



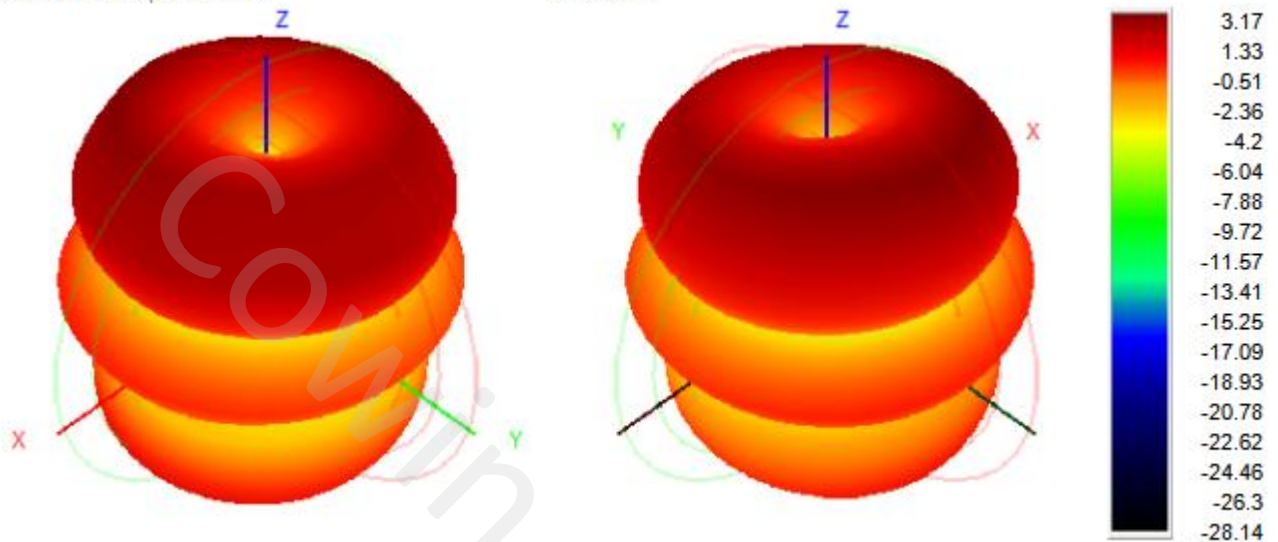
960.0MHz Total(E1-XZ), Max= -0.33dBi

960.0MHz Total(E2-YZ), Max= 2.34dBi

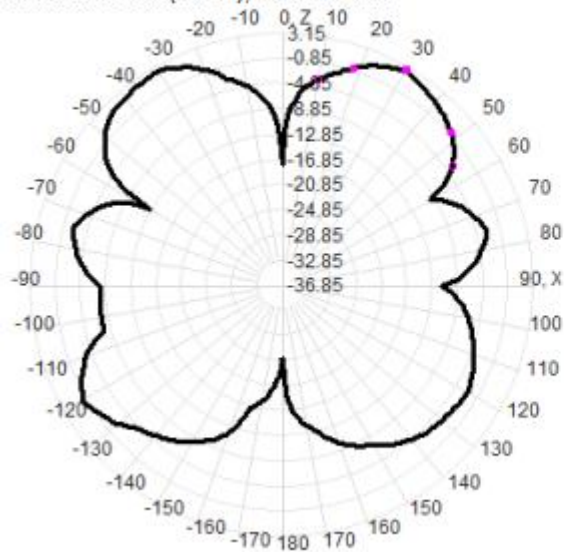


1710.0MHz H+V, Eff: 48.7%

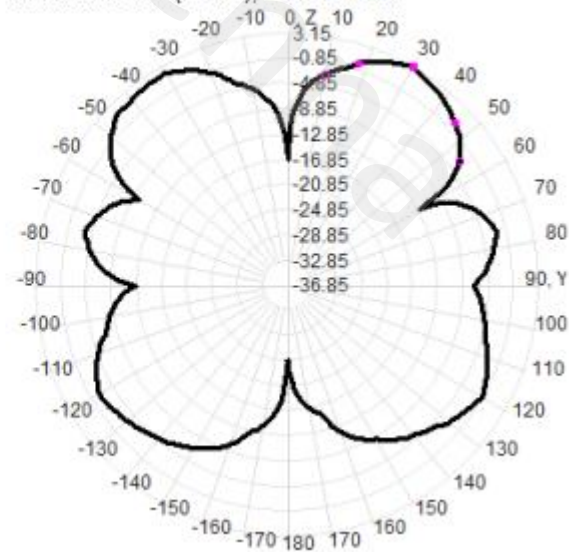
Back View



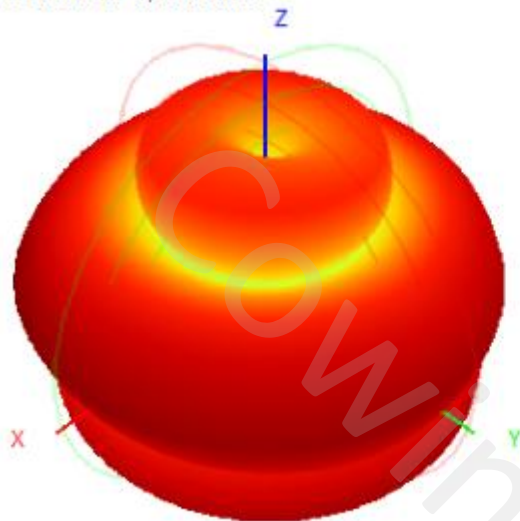
1710.0MHz Total(E1-XZ), Max= 2.43dBi



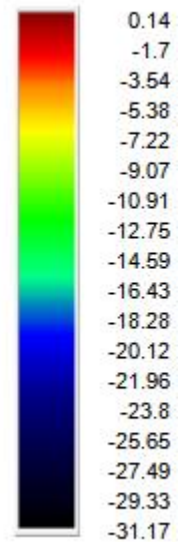
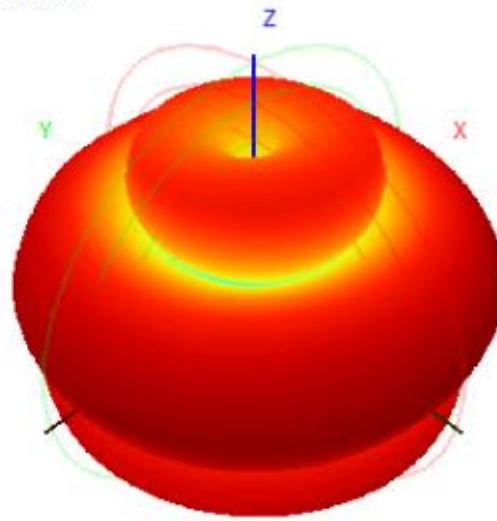
1710.0MHz Total(E2-YZ), Max= 3.15dBi



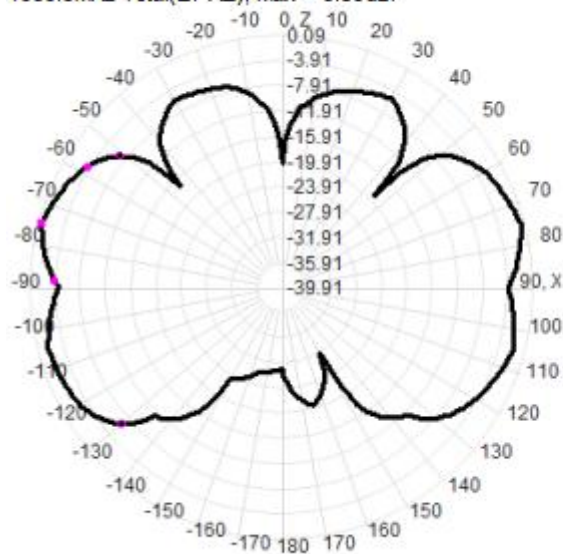
1800.0MHz H+V, Eff: 38.9%



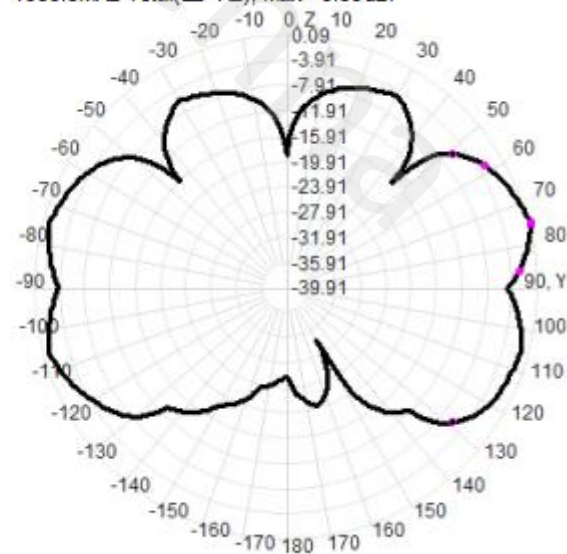
Back View



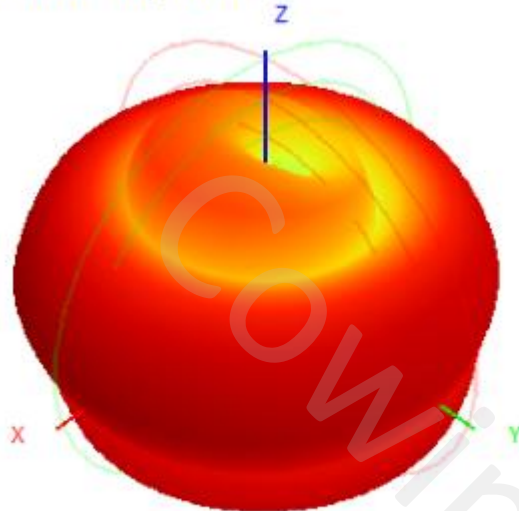
1800.0MHz Total(E1-XZ), Max= -0.50dBi



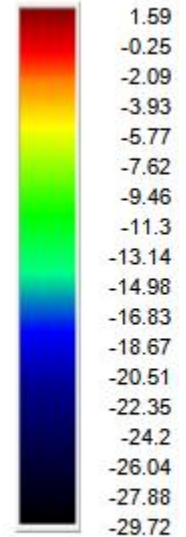
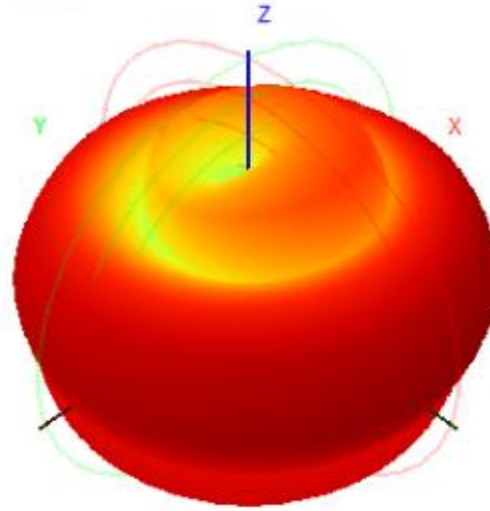
1800.0MHz Total(E2-YZ), Max= 0.09dBi



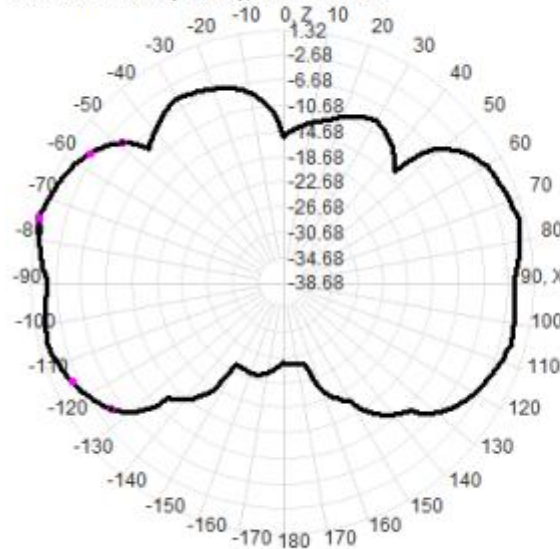
1880.0MHz H+V, Eff: 51.1%



Back View



1880.0MHz Total(E1-XZ), Max= 1.28dBi



1880.0MHz Total(E2-YZ), Max= 1.32dBi

