

CW-NZ-0199

4G FPC Antenna

Key Features

Frequency: 824-960MHz/1710-2700MHz

I-PEX Connector

RF1.13 Cable

Dimensions: 80*21mm

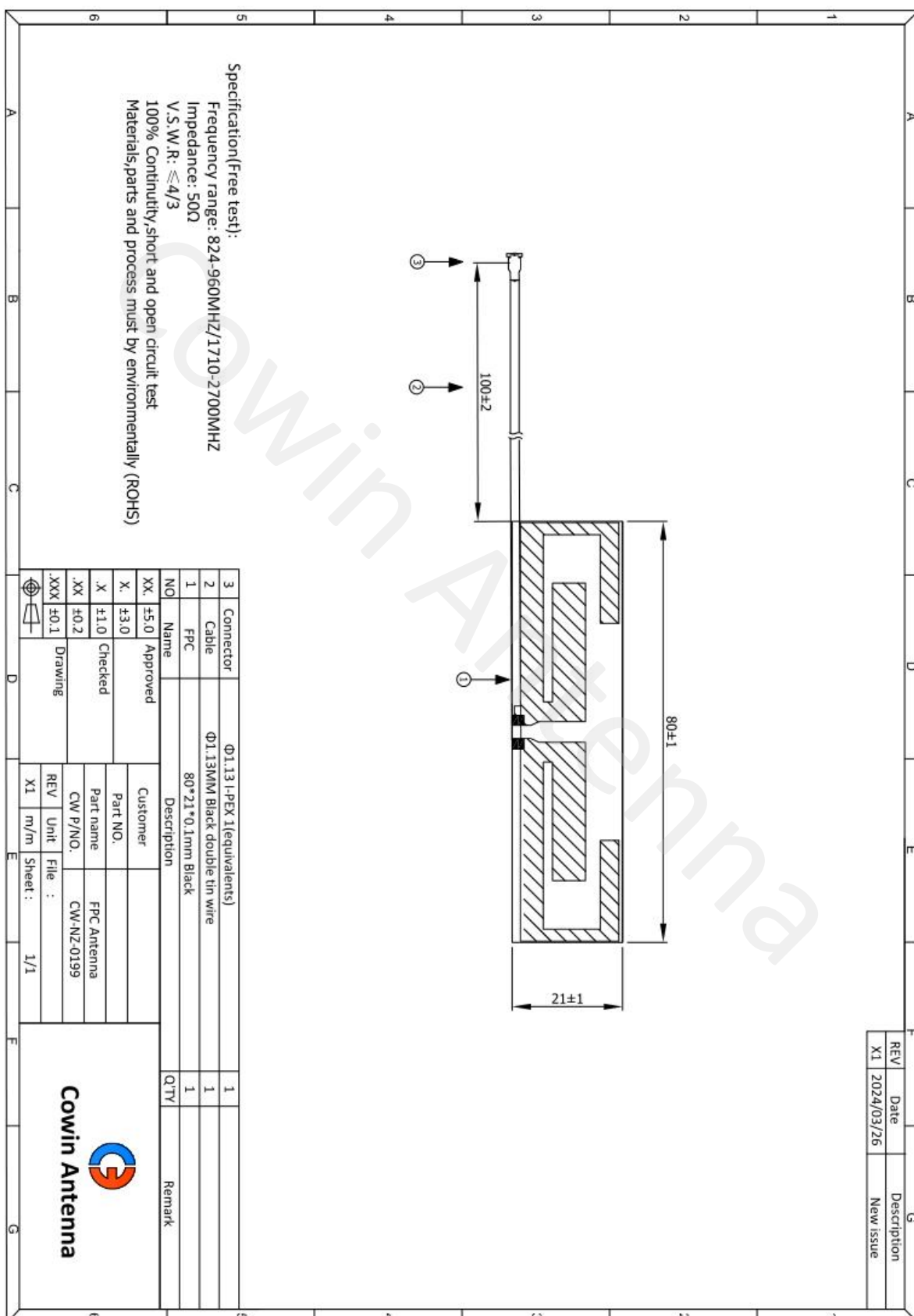


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	824-960MHz/1710-2700MHz
VSWR	≤4.0/3.0
Efficiency (%)	50.68%/92.08%
Peak Gain (dBi)	1.41/2.63
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	I-PEX

2. Material and environmental characteristics

External structure	N/A
Inner structure	Connector/Cable/FPC
Cable Type	RF1.13
Connector Type	I-PEX
Dimensions (mm)	80*21MM
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

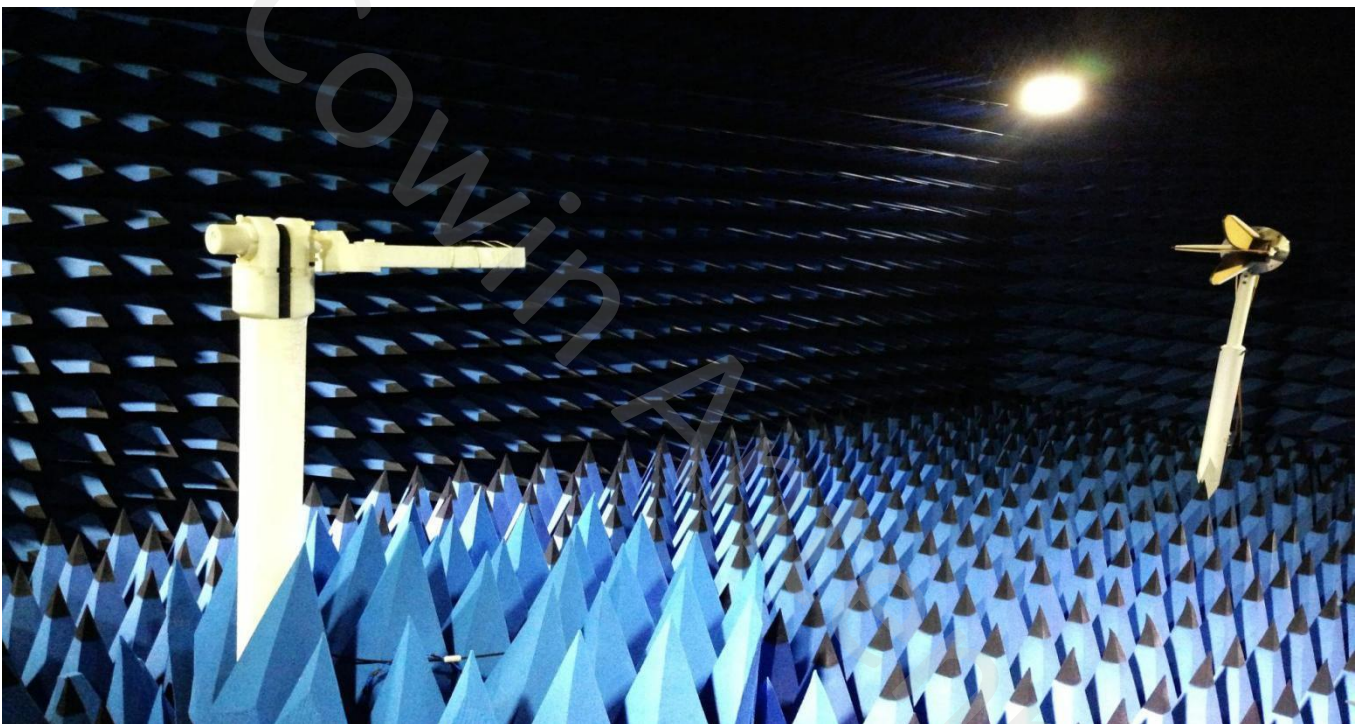
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

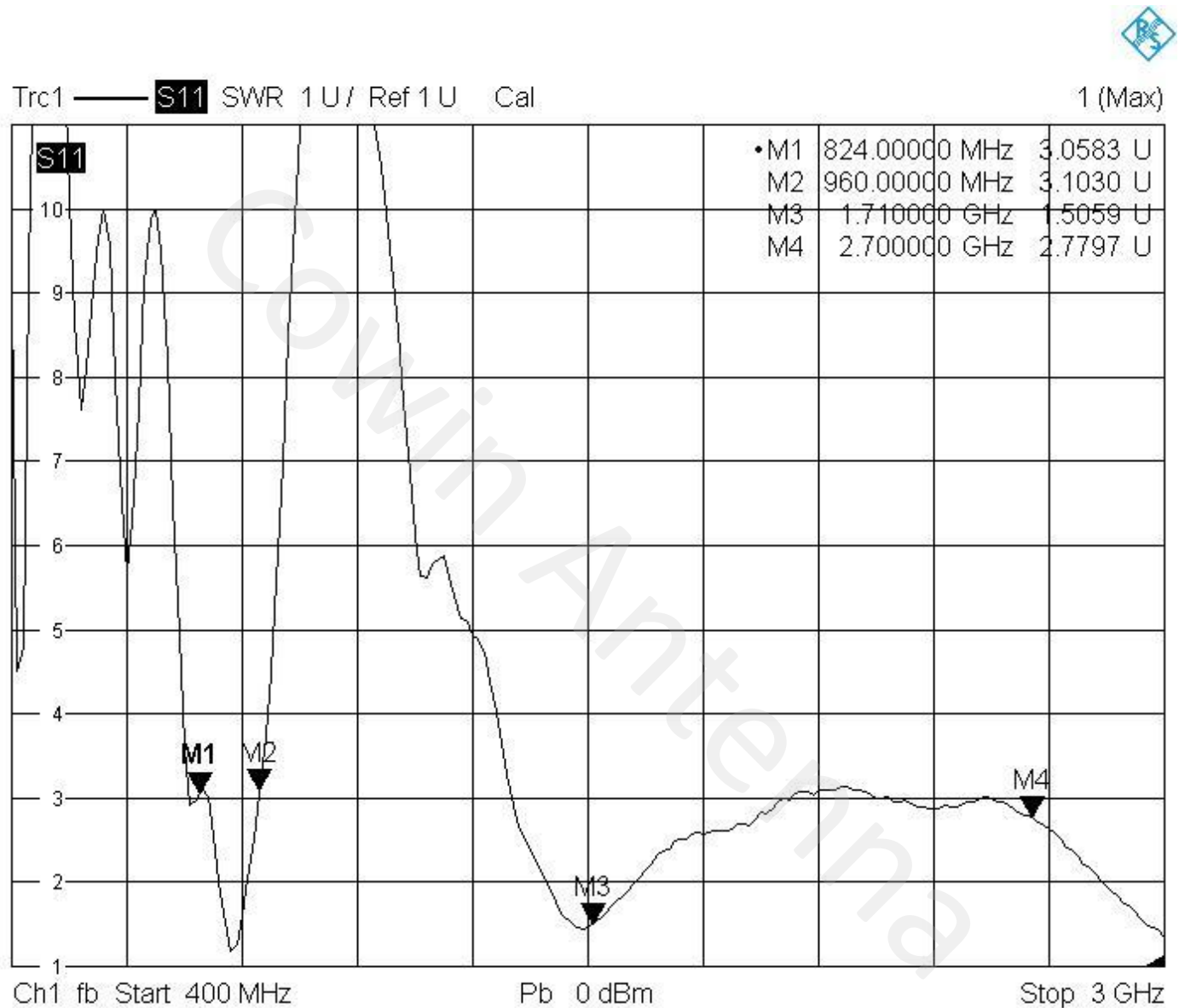
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

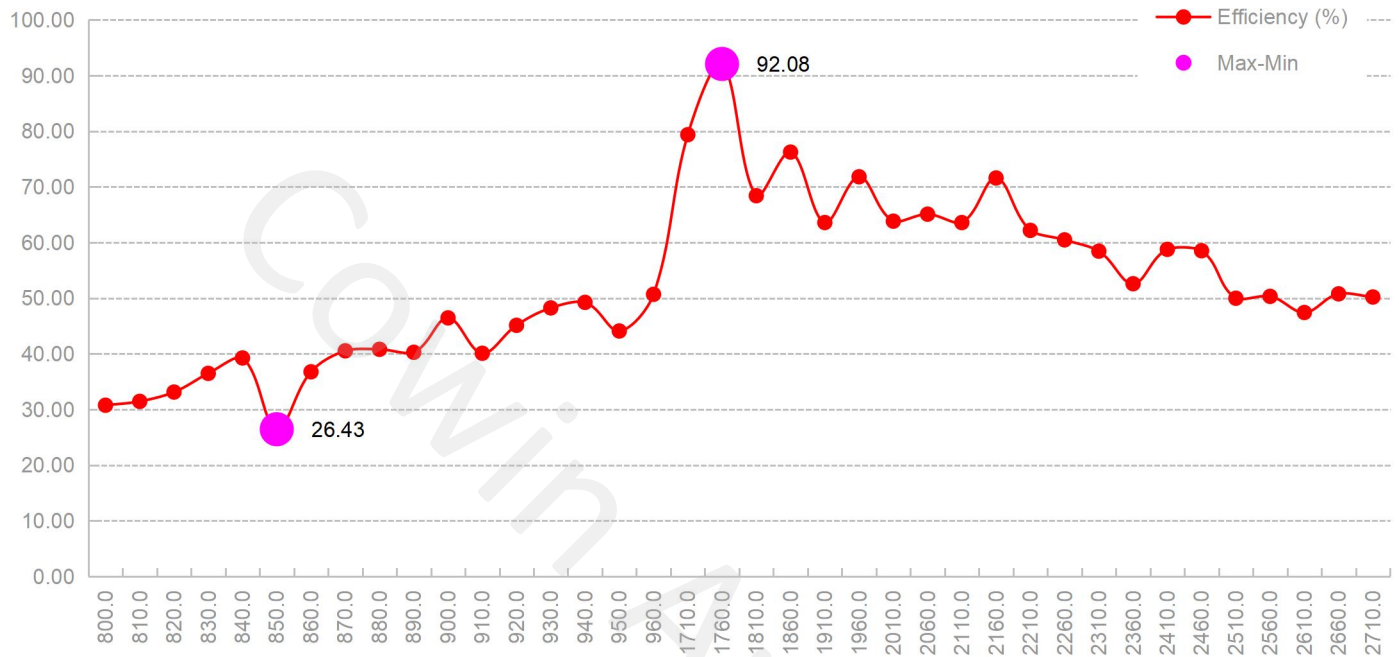
The comprehensive tester is Agilent cmv500



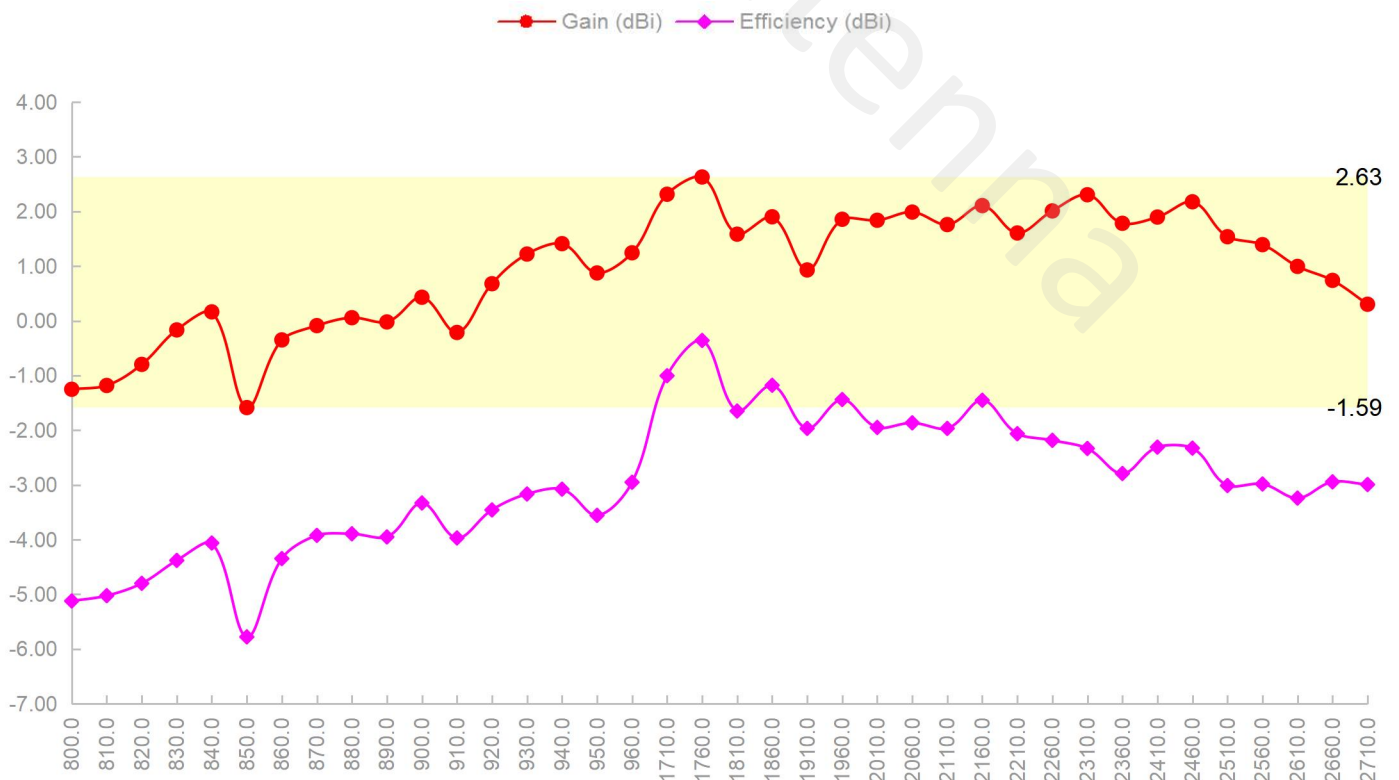
4.1 VSWR



4.2 Efficiency



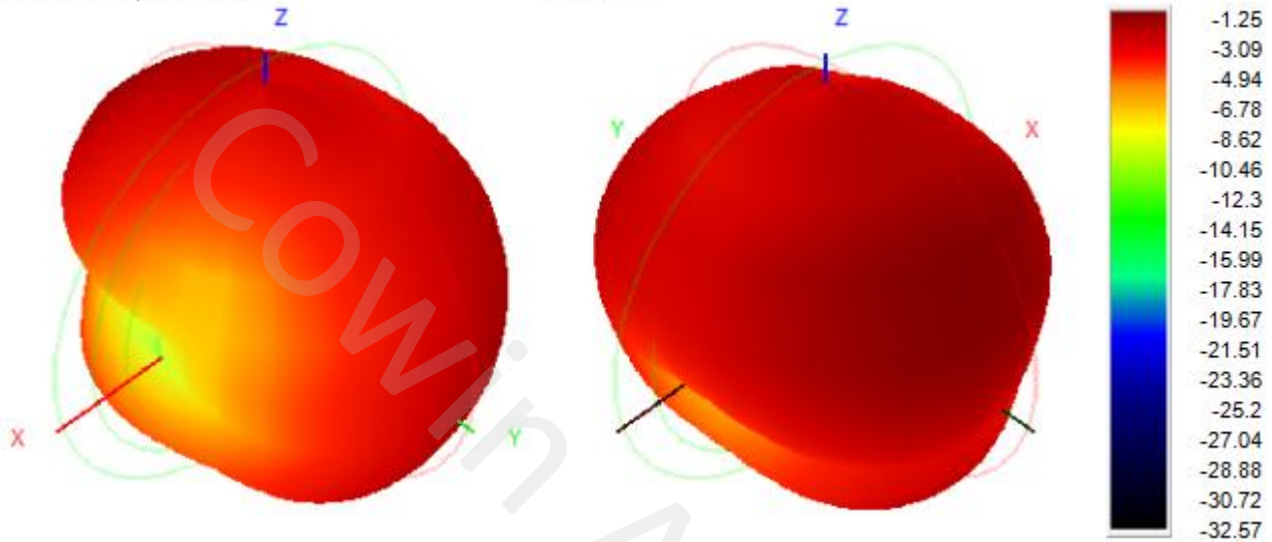
4.3 Peak gain



4.4 3D&2D Radiation Patterns

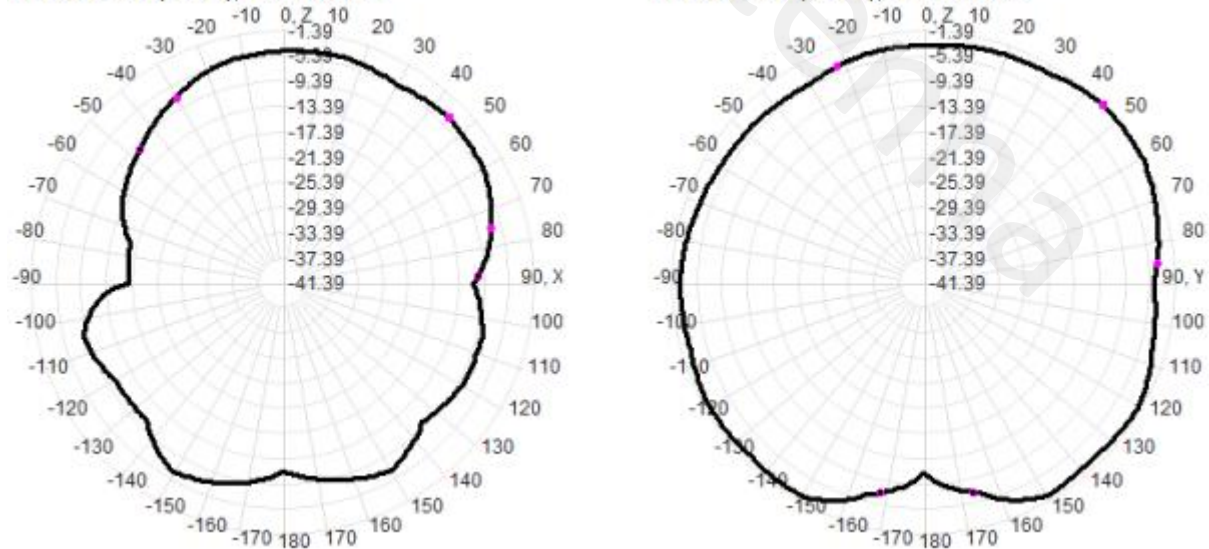
800.0MHz H+V, Eff: 30.7%

Back View



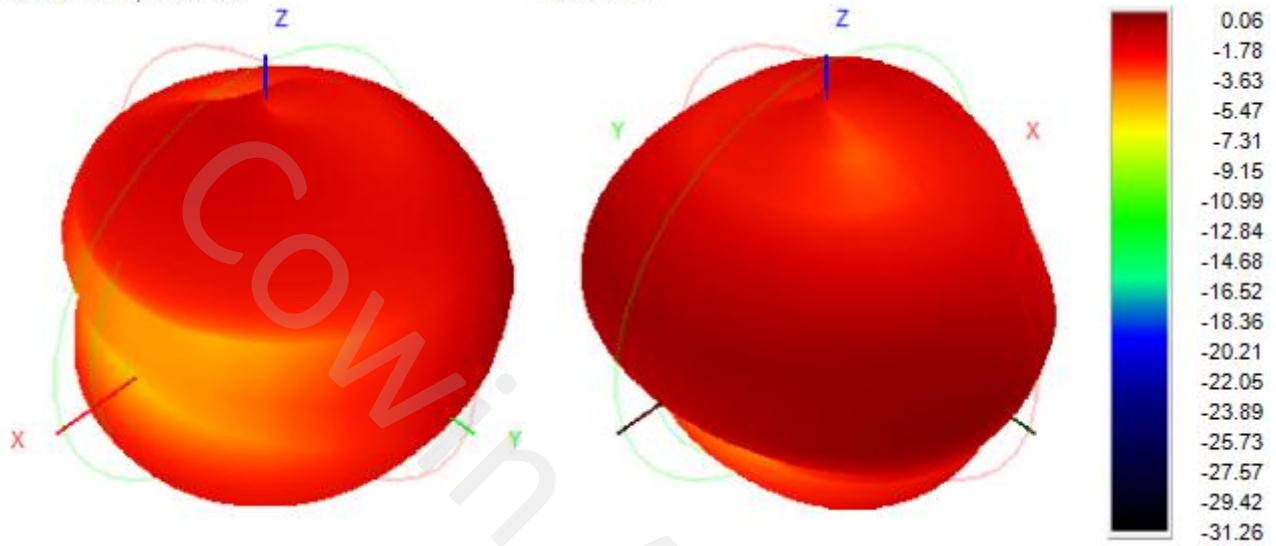
800.0MHz Total(E1-XZ), Max=-4.31dBi

800.0MHz Total(E2-YZ), Max=-1.39dBi



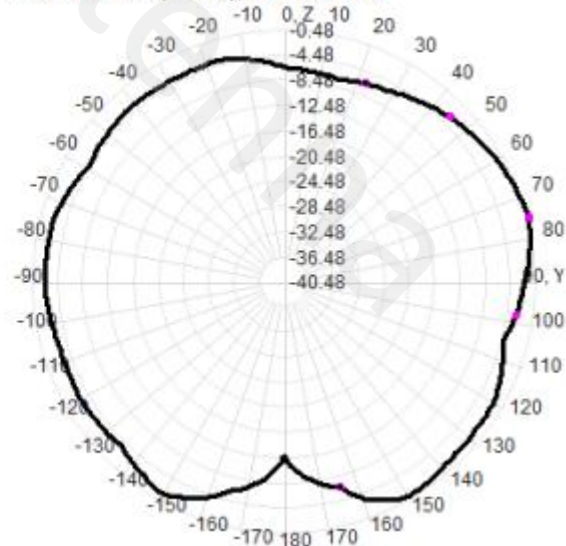
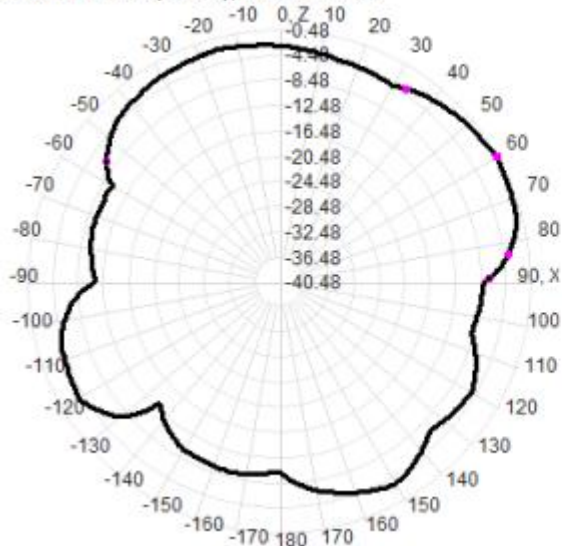
880.0MHz H+V, Eff: 40.8%

Back View



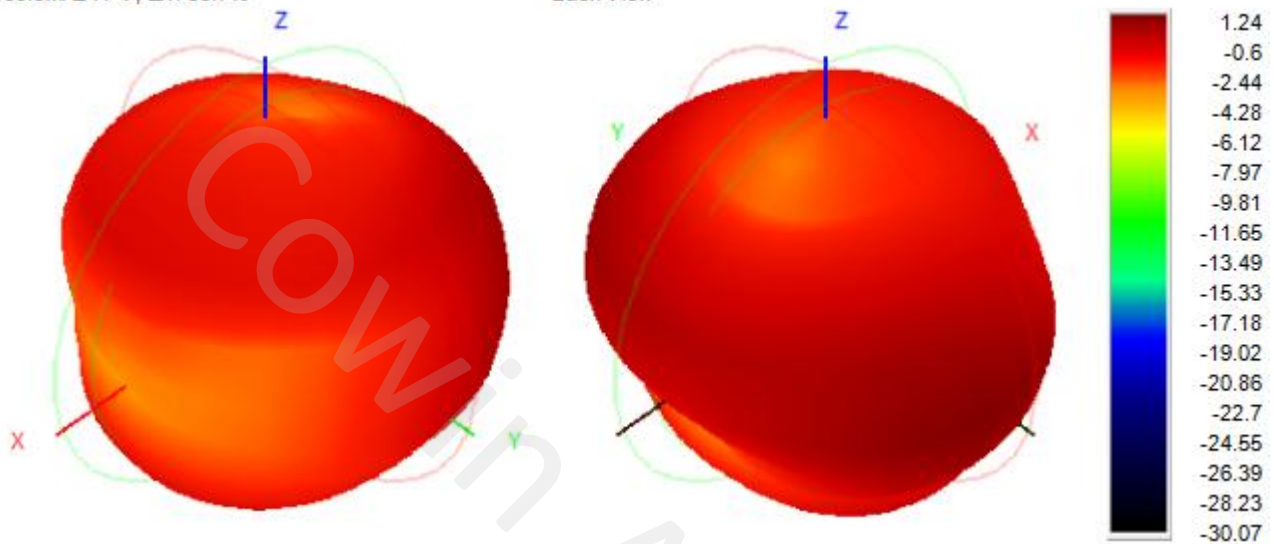
880.0MHz Total(E1-XZ), Max= -0.83dBi

880.0MHz Total(E2-YZ), Max= -0.48dBi



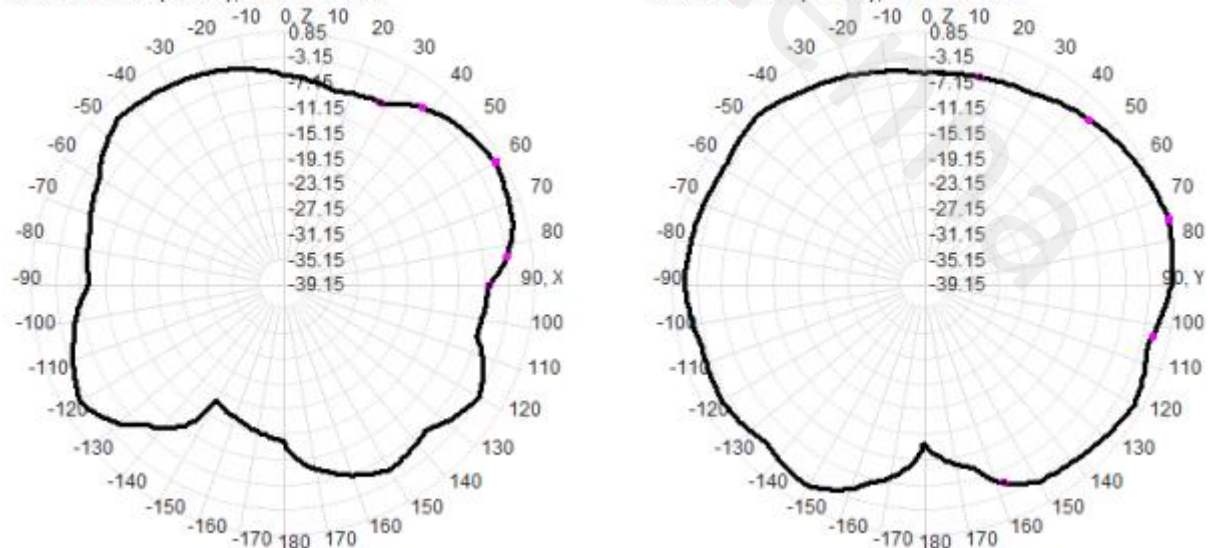
960.0MHz H+V, Eff: 50.7%

Back View

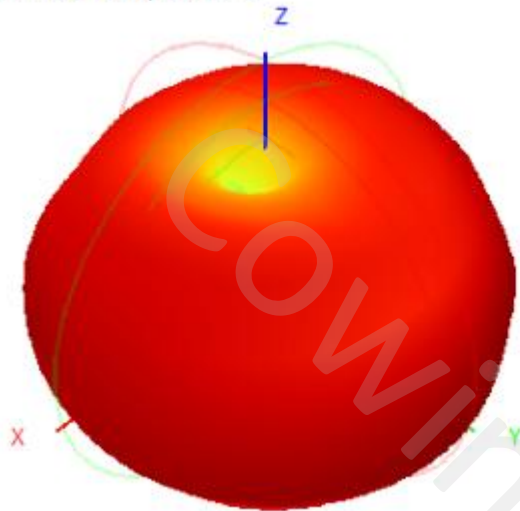


960.0MHz Total(E1-XZ), Max=-0.44dBi

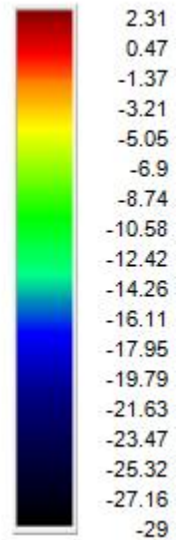
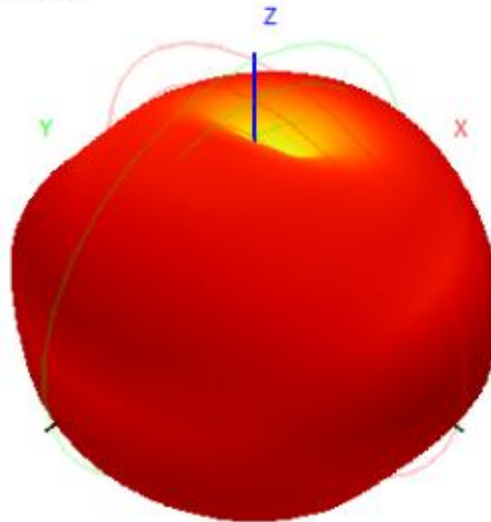
960.0MHz Total(E2-YZ), Max=0.85dBi



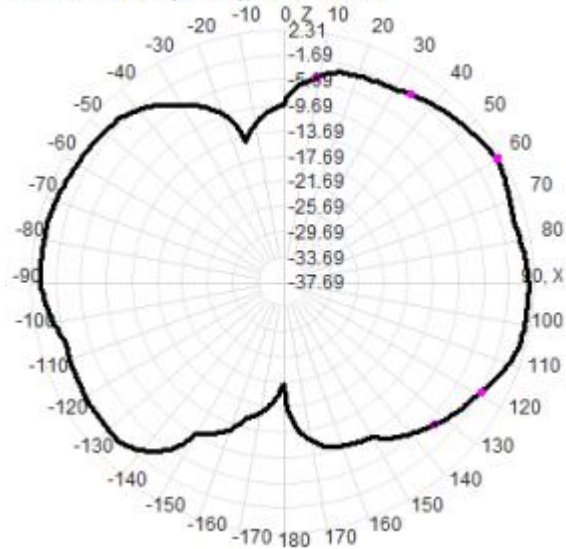
1710.0MHz H+V, Eff: 79.4%



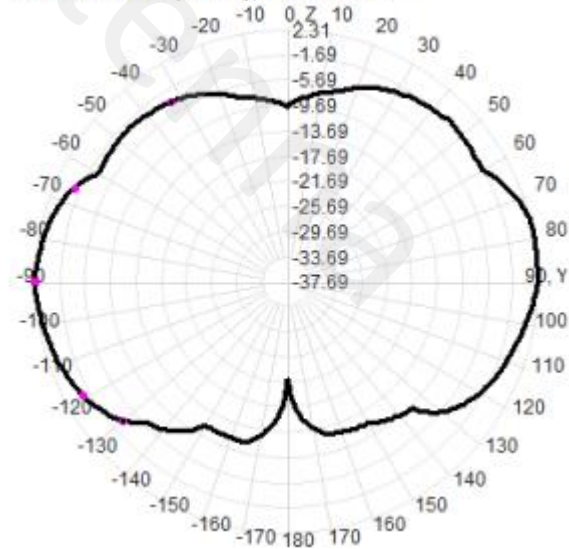
Back View



1710.0MHz Total(E1-XZ), Max= 1.38dBi

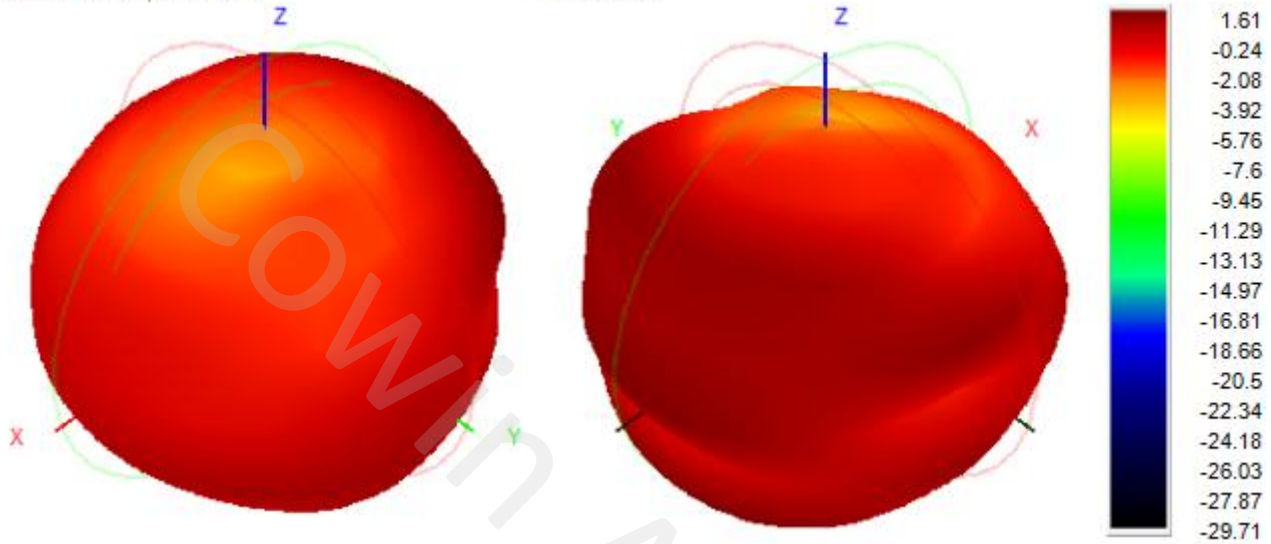


1710.0MHz Total(E2-YZ), Max= 2.31dBi



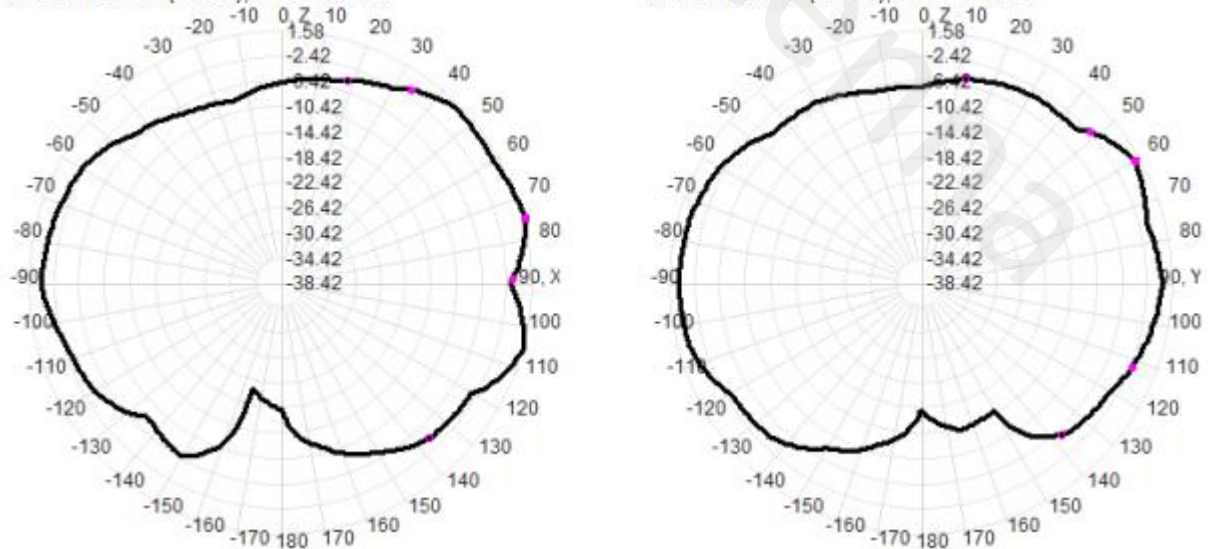
2210.0MHz H+V, Eff: 62.2%

Back View



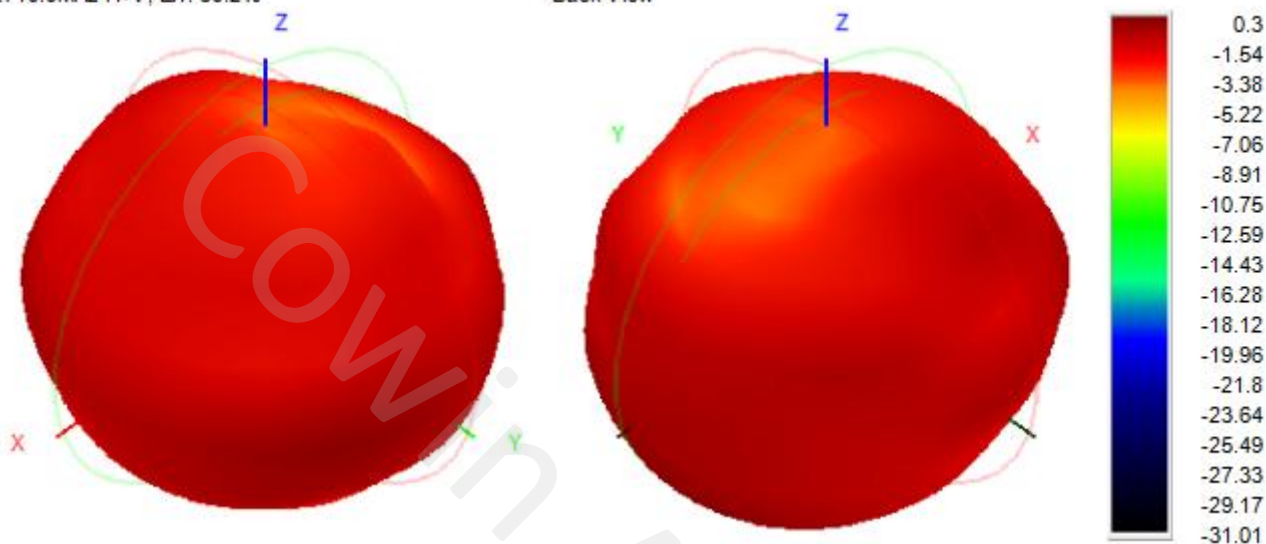
2210.0MHz Total(E1-XZ), Max= 1.58dBi

2210.0MHz Total(E2-YZ), Max= 0.56dBi



2710.0MHz H+V, Eff: 50.2%

Back View



2710.0MHz Total(E1-XZ), Max= 0.23dBi

2710.0MHz Total(E2-YZ), Max= -1.21dBi

