

CW-WZ-0062

5G External Antenna

Key Features

Frequency: 698-960MHz/1575-2700MHz/5125-5925MHz

SMA Male Connector

External Rubber

Dimensions 221*58 mm

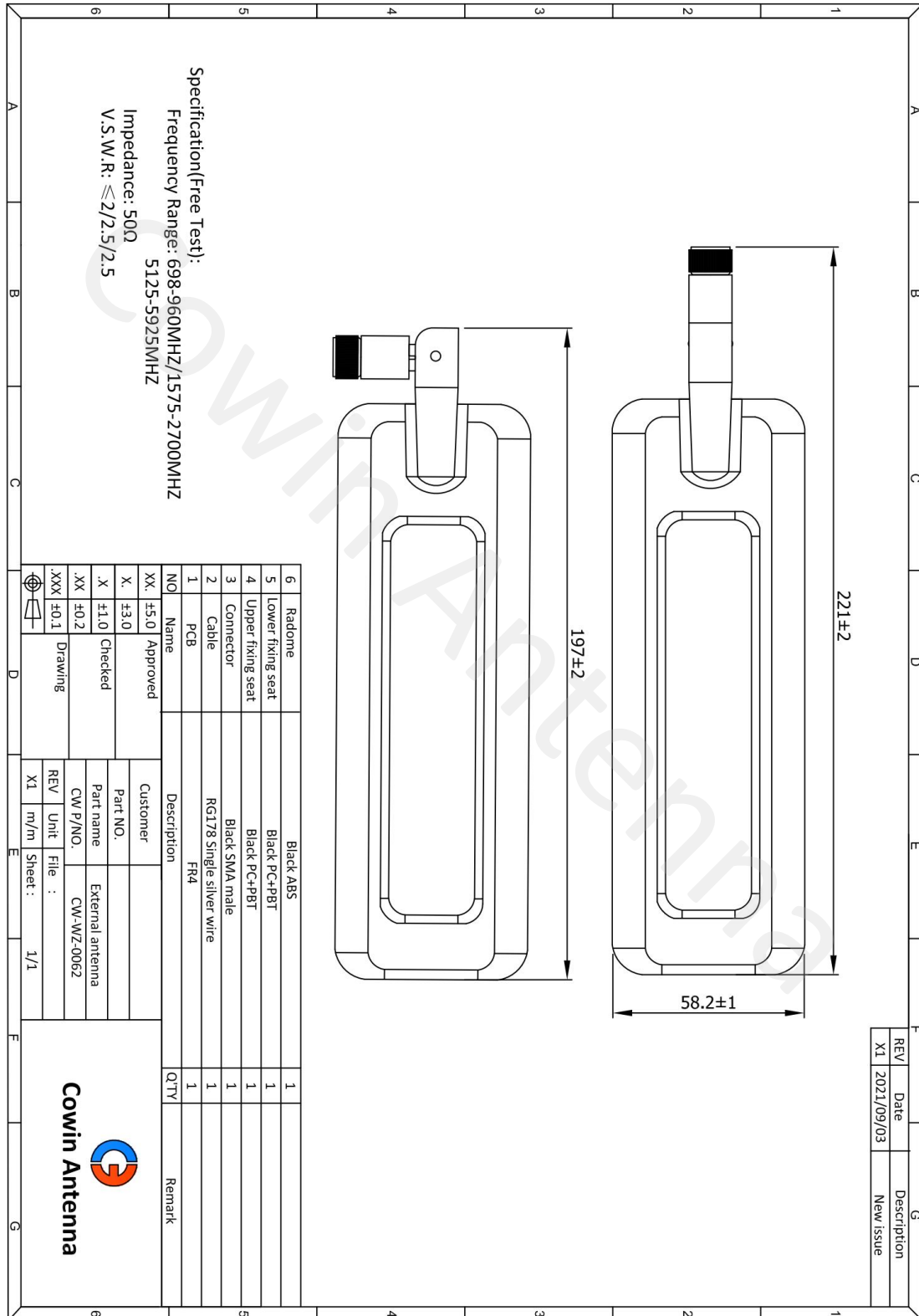


1. Antenna Electrical Characteristics

Band (MHz)			
Frequency (MHz)	698-960MHz	1575-2700MHz	5125-5925MHz
VSWR	2:1	2.5:1	2.5:1
Efficiency (%)	75.96%	66.12%	56.01%
Peak Gain (dBi)	3.64	4.21	4.19
Impedance (Ohm)	50		
Polarisation	Vertical		
Max. Input Power (W)	10		
Connector Type	SMA male		

2. Material and environmental characteristics

Material of PCB	FR4
Material of Plastic	PC+PBT/ABS
Cable Type	RG178
Connector Type	SMA male
Dimensions (mm)	221*58
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

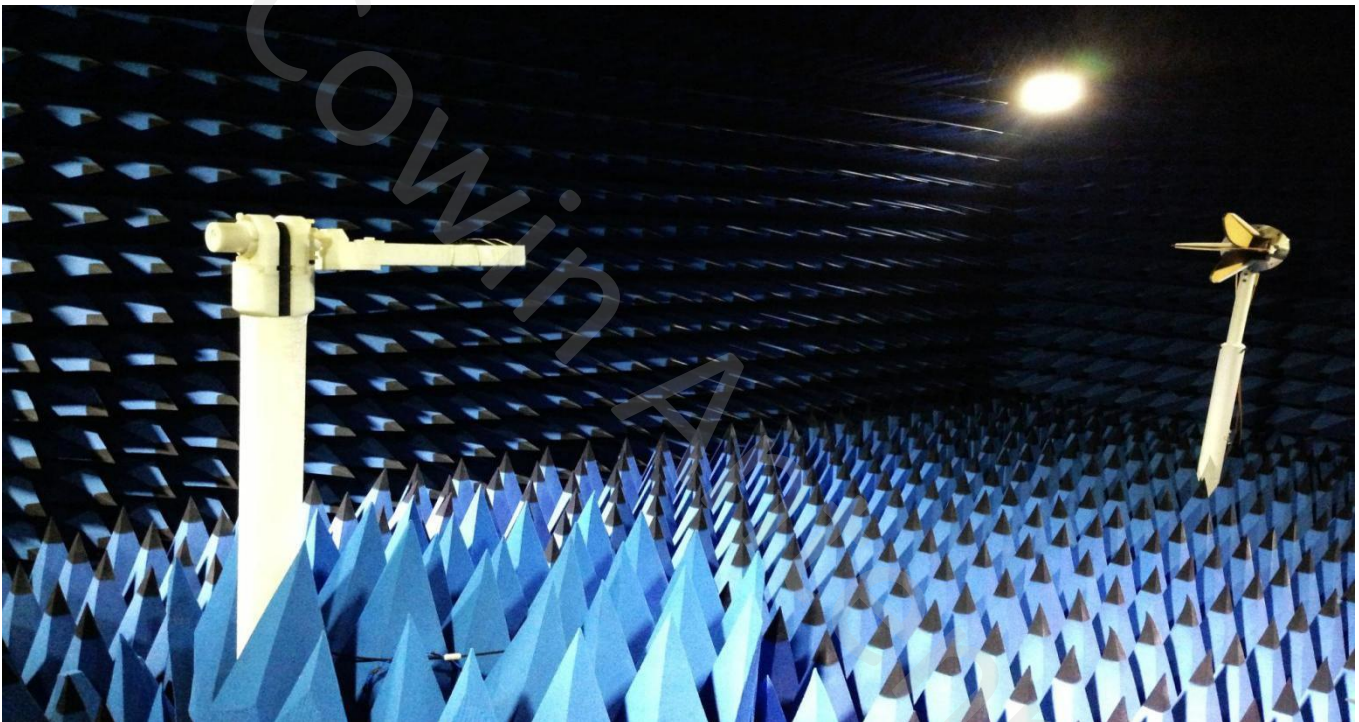
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

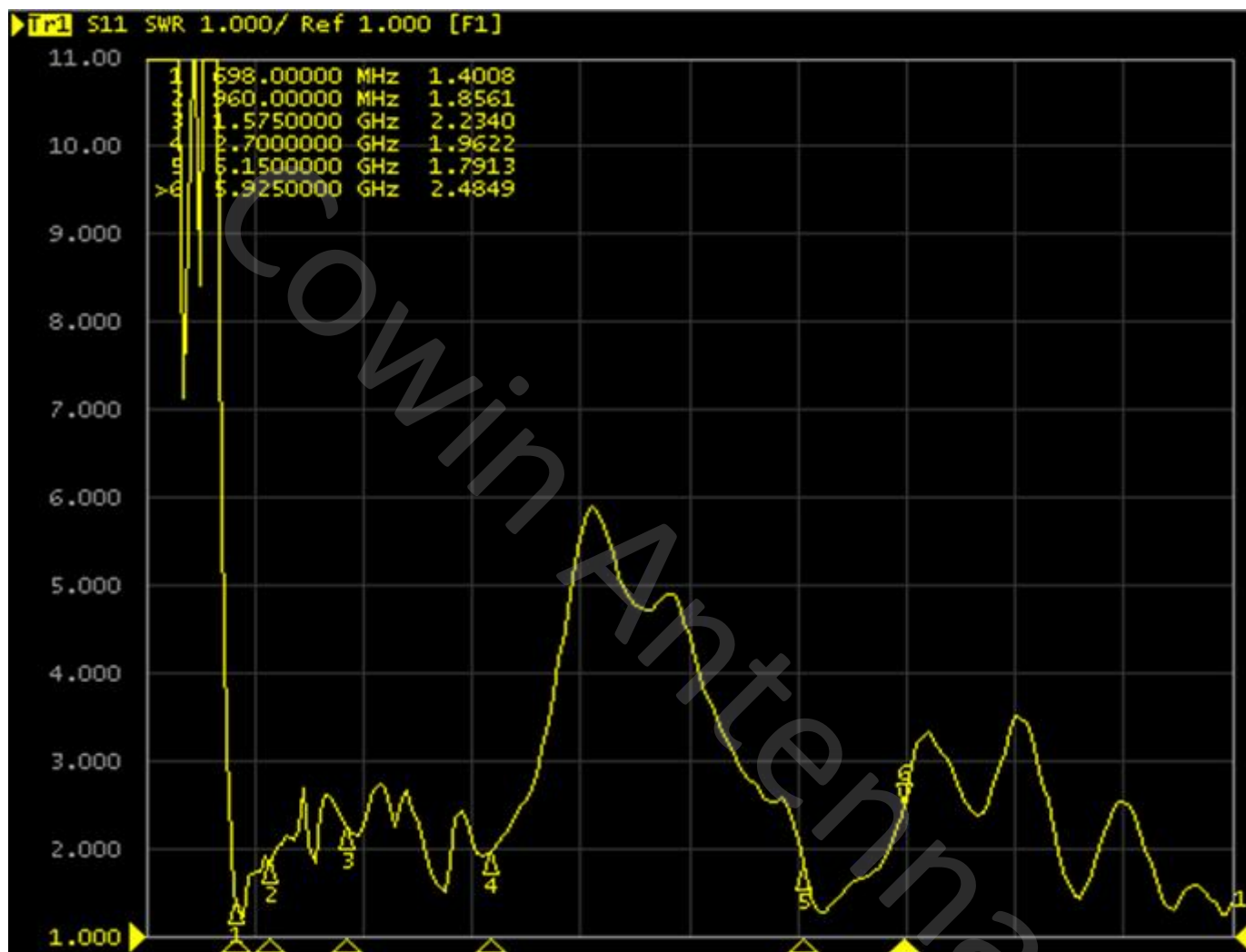
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

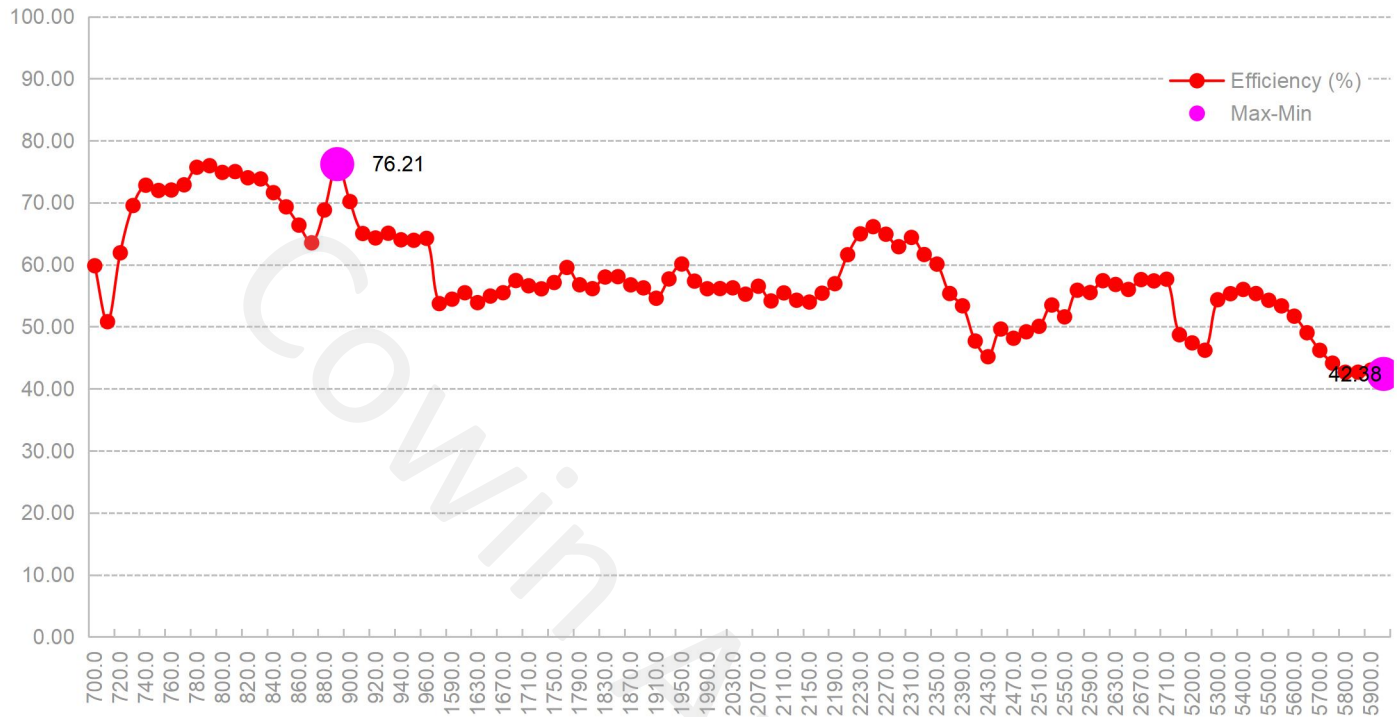
The comprehensive tester is Agilent cmv500



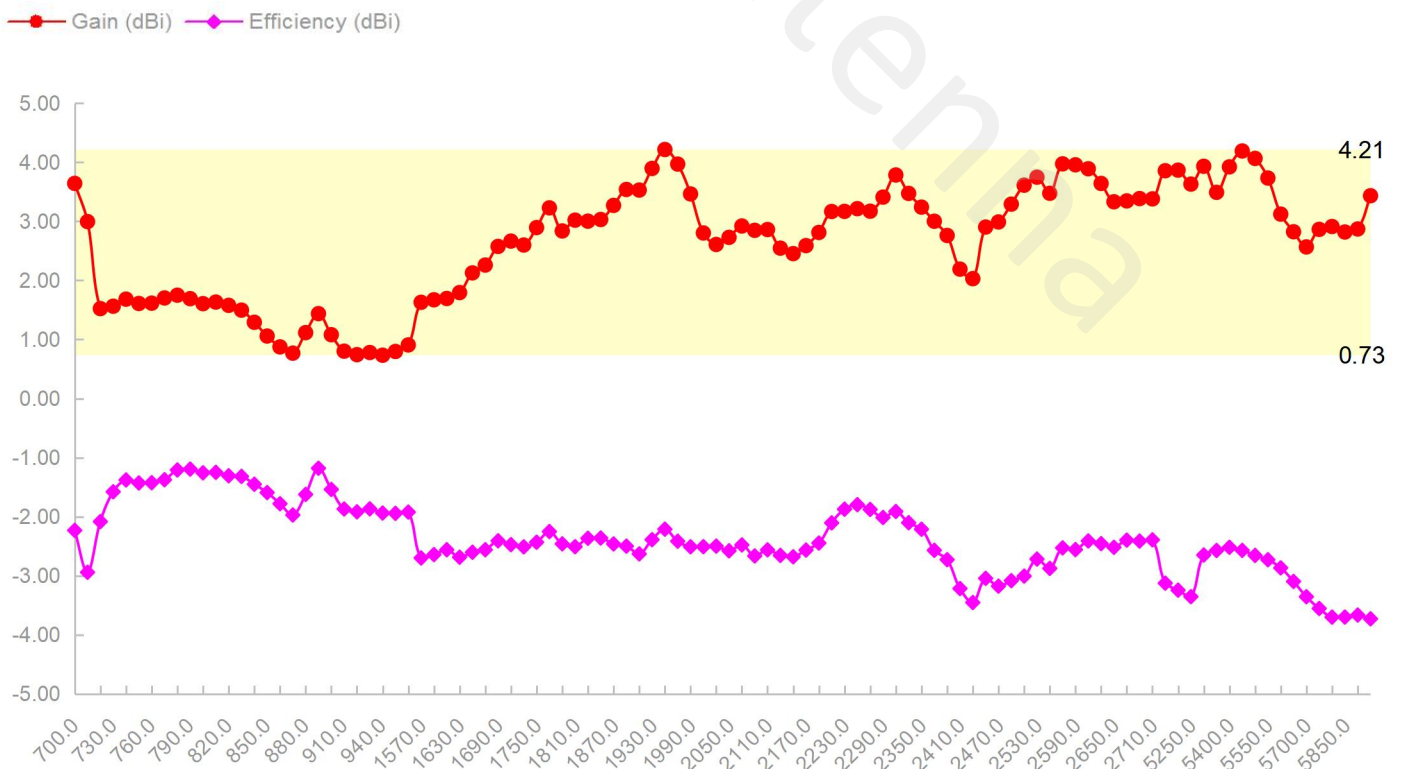
4.1 VSWR



4.2 Efficiency



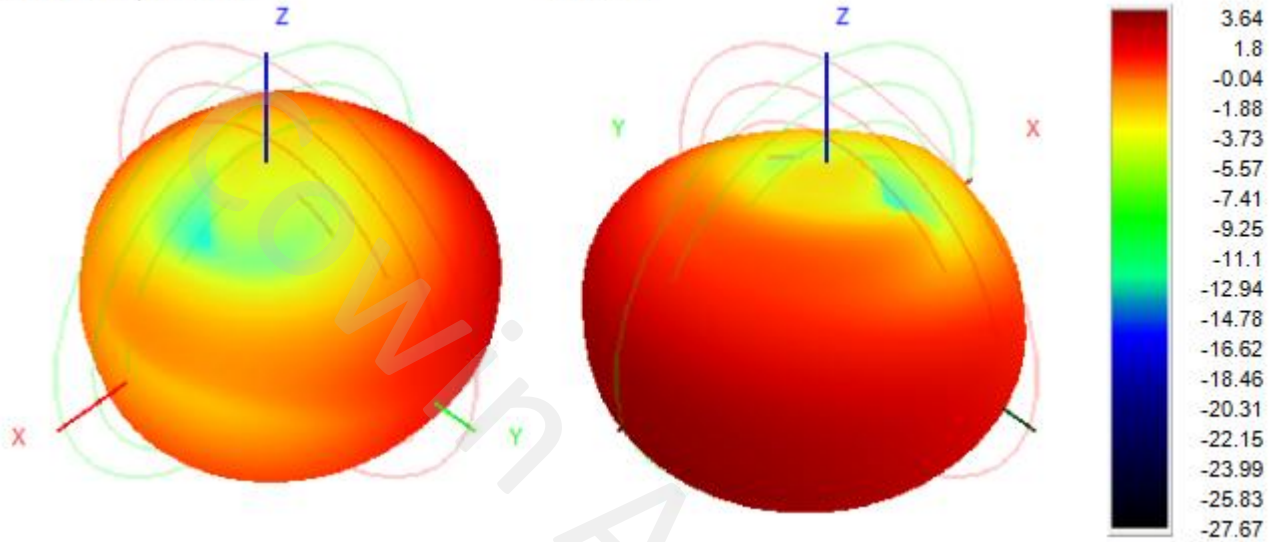
4.3 Peak gain



4.4 3D&2D Radiation Patterns

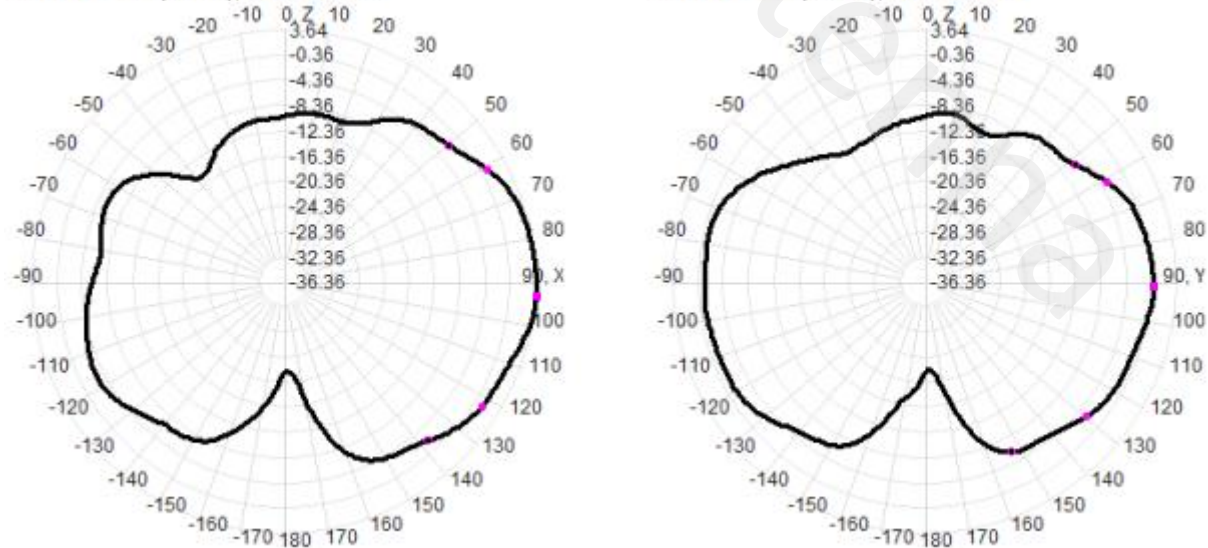
700.0MHz H+V, Eff: 59.8%

Back View



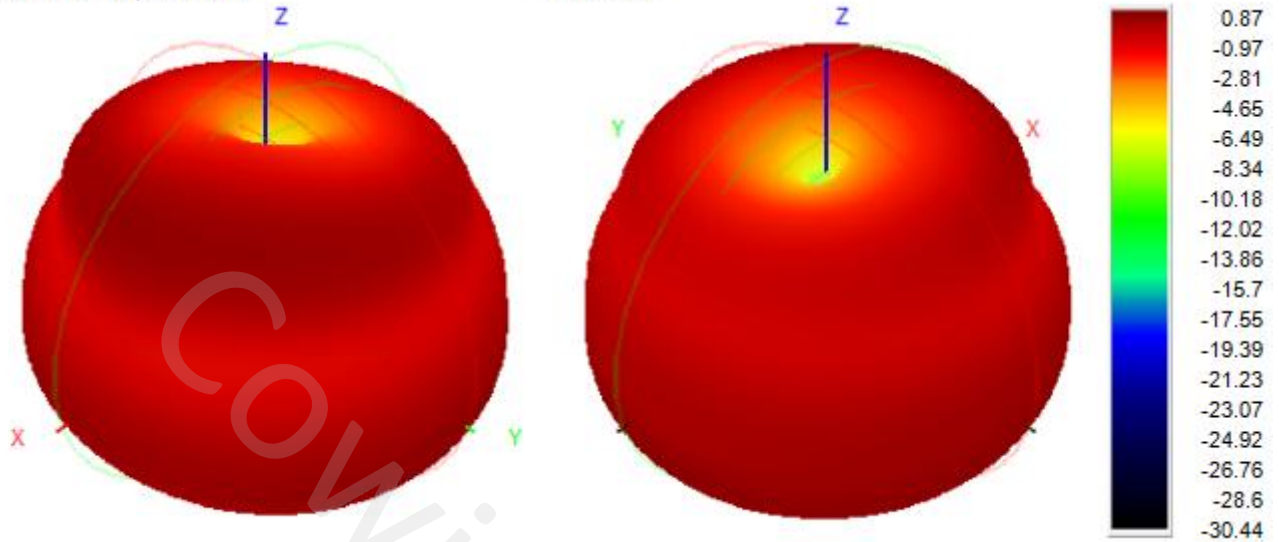
700.0MHz Total(E1-XZ), Max= 3.64dBi

700.0MHz Total(E2-YZ), Max= -0.19dBi



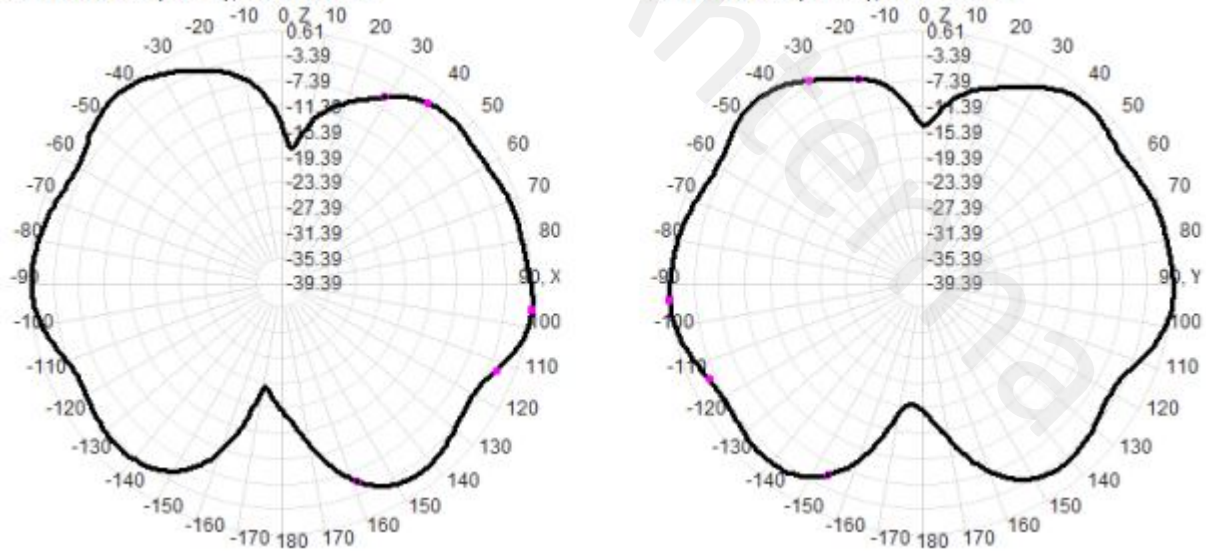
860.0MHz H+V, Eff: 66.4%

Back View



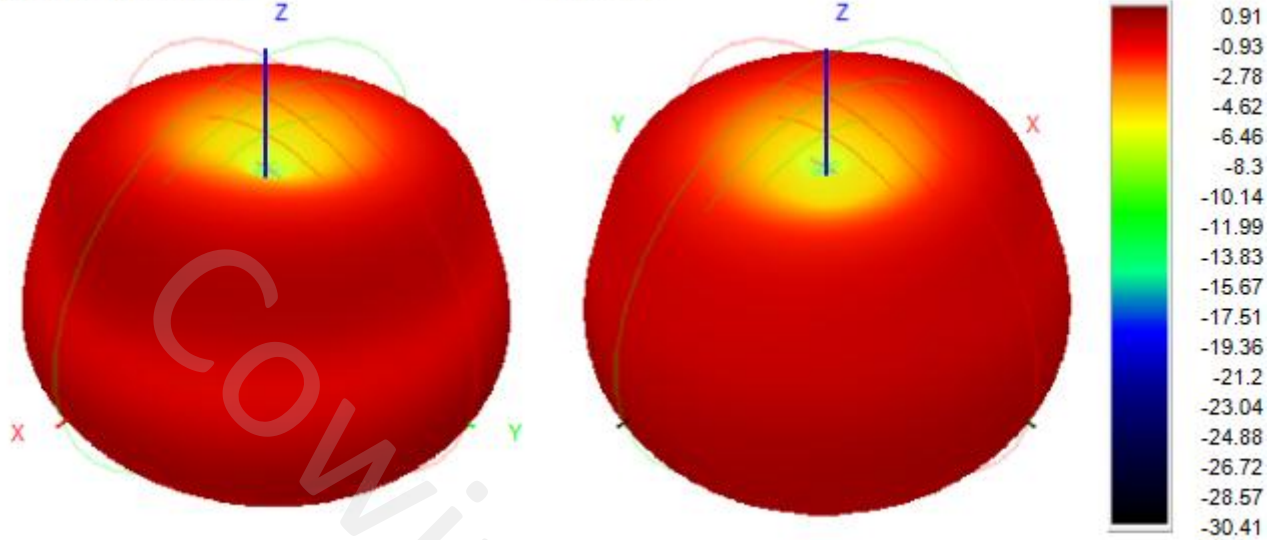
860.0MHz Total(E1-XZ), Max= 0.61dBi

860.0MHz Total(E2-YZ), Max= 0.58dBi



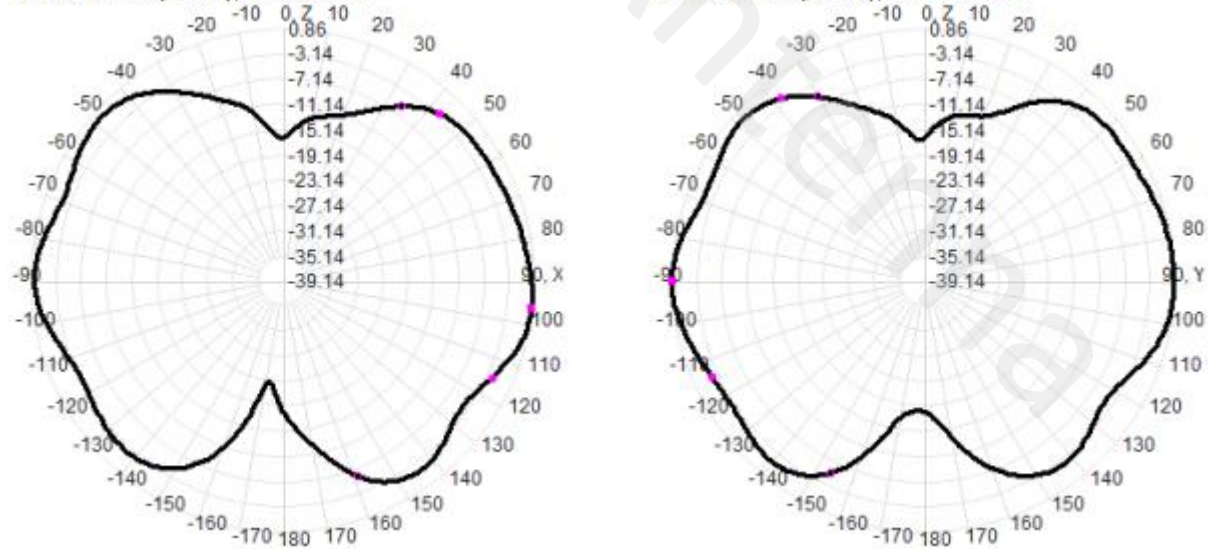
960.0MHz H+V, Eff: 64.2%

Back View



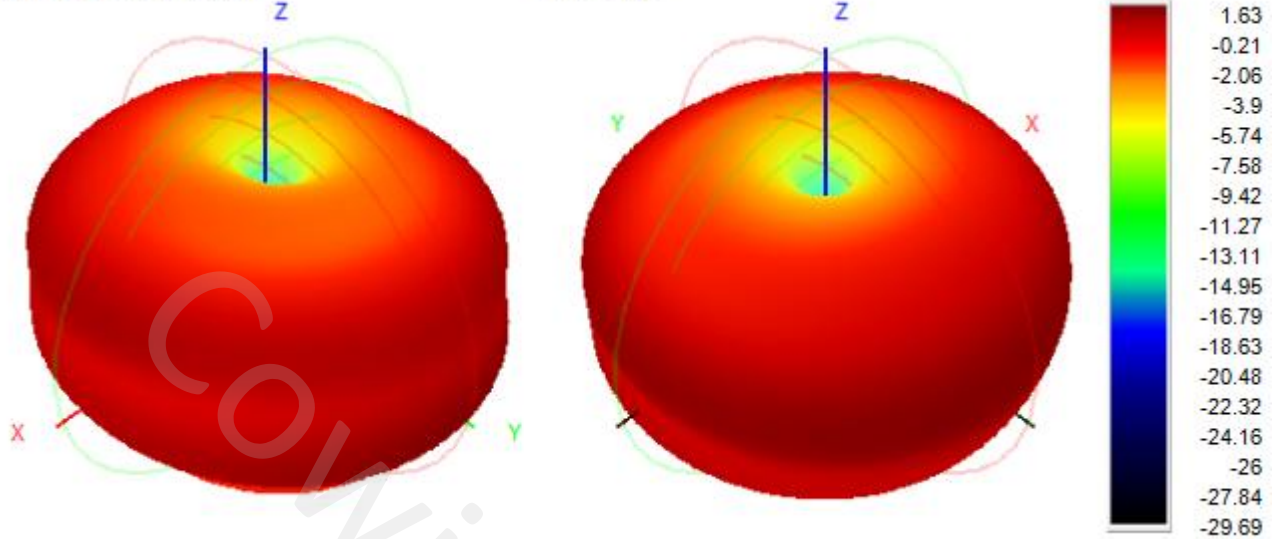
960.0MHz Total(E1-XZ), Max= 0.38dBi

960.0MHz Total(E2-YZ), Max= 0.82dBi



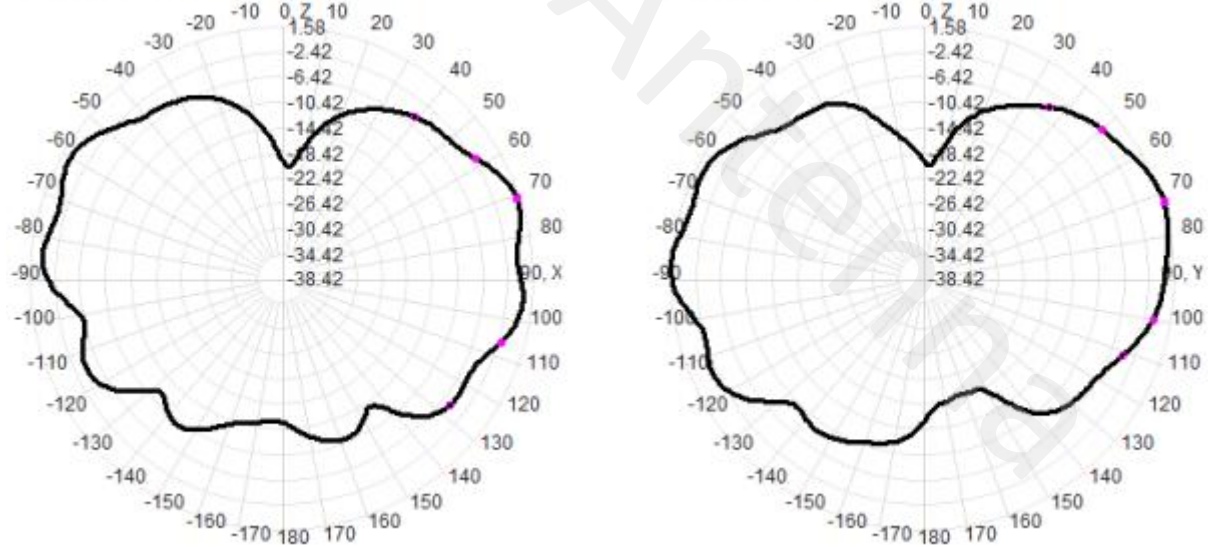
1570.0MHz H+V, Eff: 53.7%

Back View



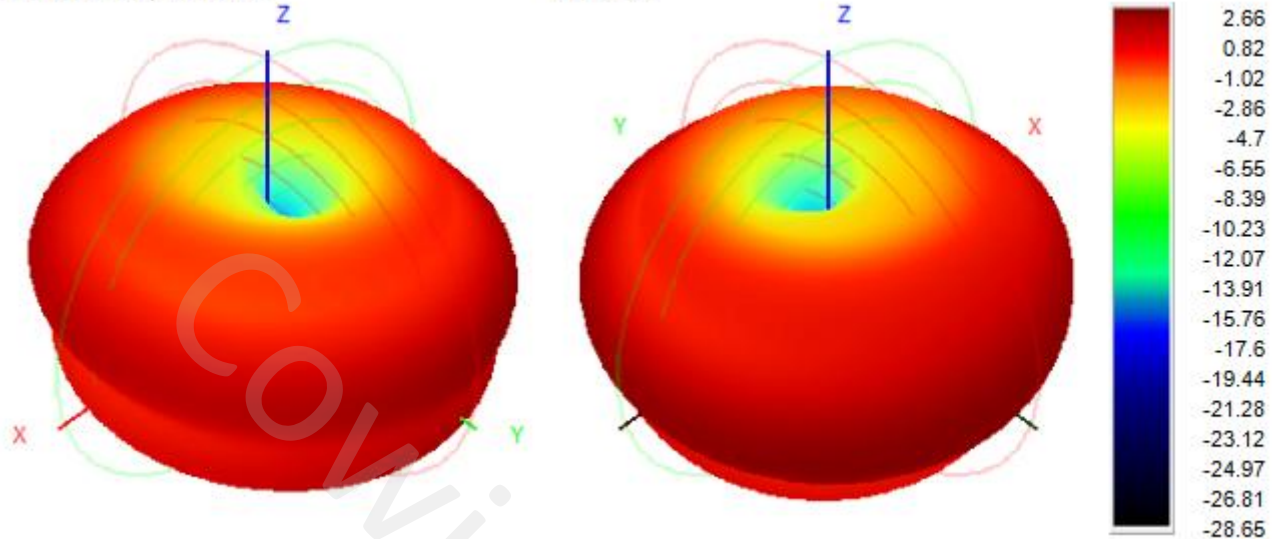
1570.0MHz Total(E1-XZ), Max= 0.85dBi

1570.0MHz Total(E2-YZ), Max= 1.58dBi



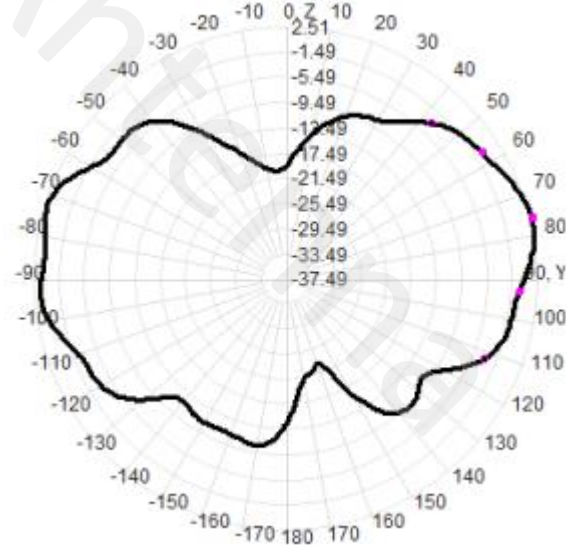
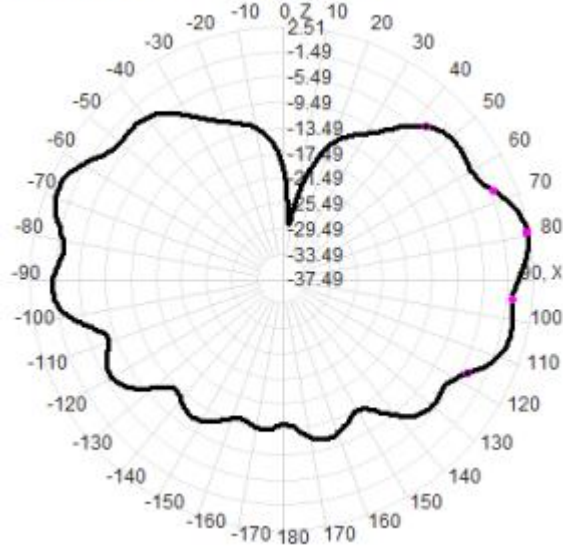
1710.0MHz H+V, Eff: 56.6%

Back View



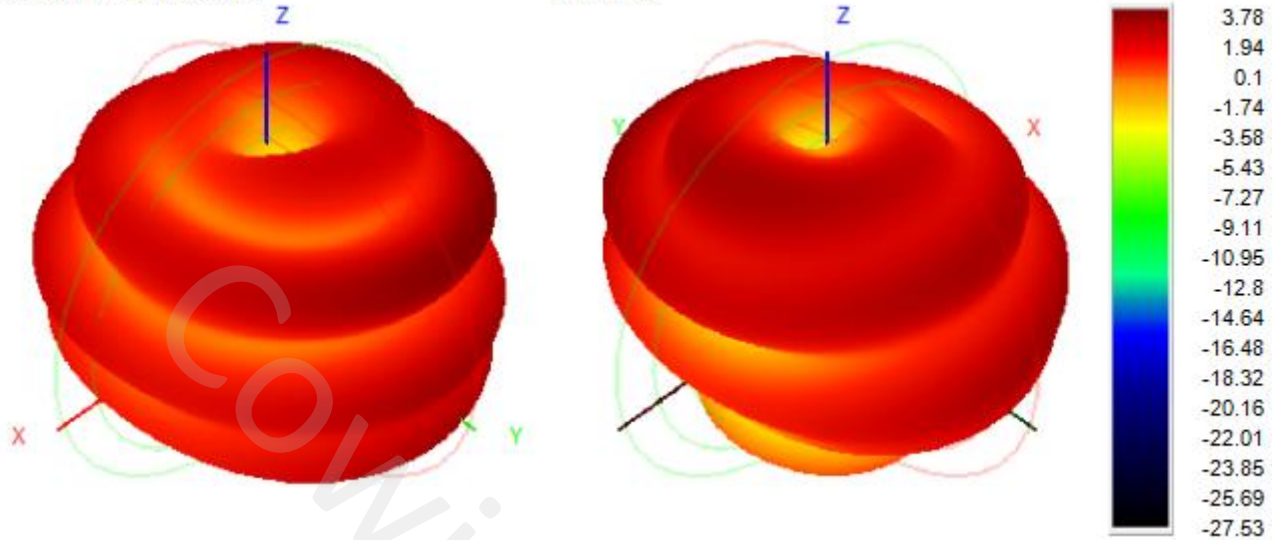
1710.0MHz Total(E1-XZ), Max= 1.98dBi

1710.0MHz Total(E2-YZ), Max= 2.51dBi



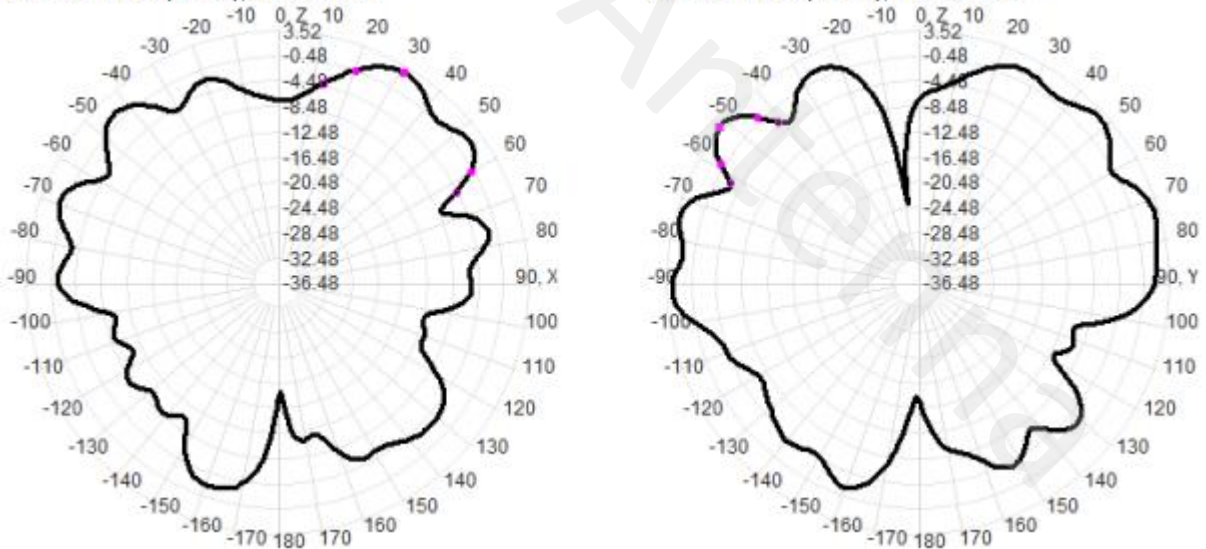
2310.0MHz H+V, Eff: 64.4%

Back View



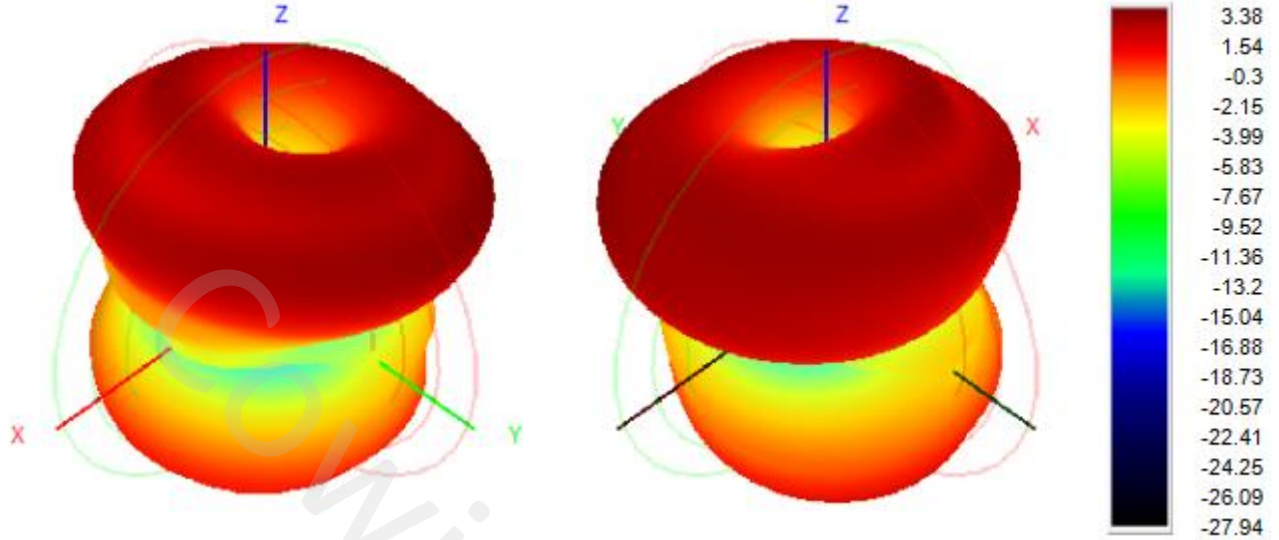
2310.0MHz Total(E1-XZ), Max= 2.41dBi

2310.0MHz Total(E2-YZ), Max= 3.52dBi



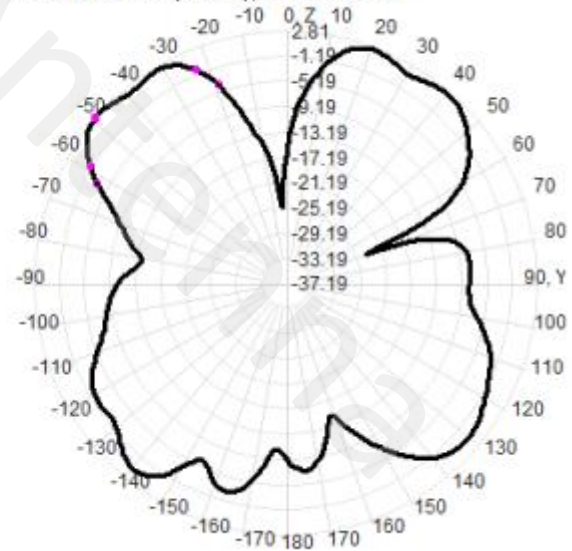
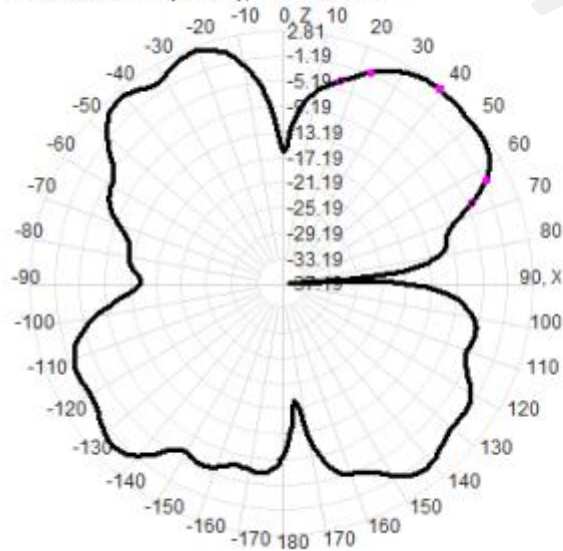
2710.0MHz H+V, Eff: 57.7%

Back View

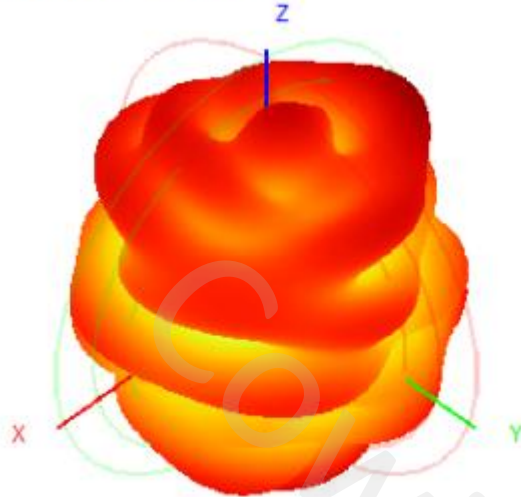


2710.0MHz Total(E1-XZ), Max= 2.45dBi

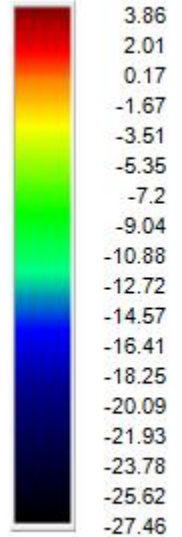
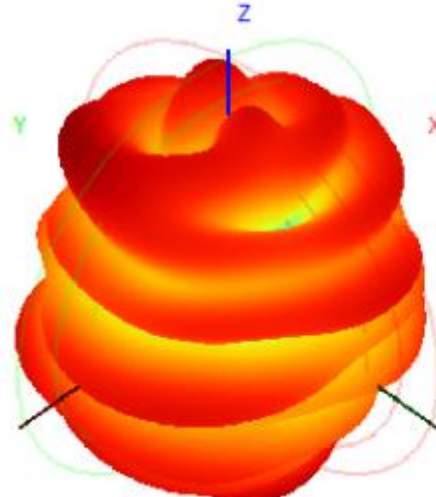
2710.0MHz Total(E2-YZ), Max= 2.81dBi



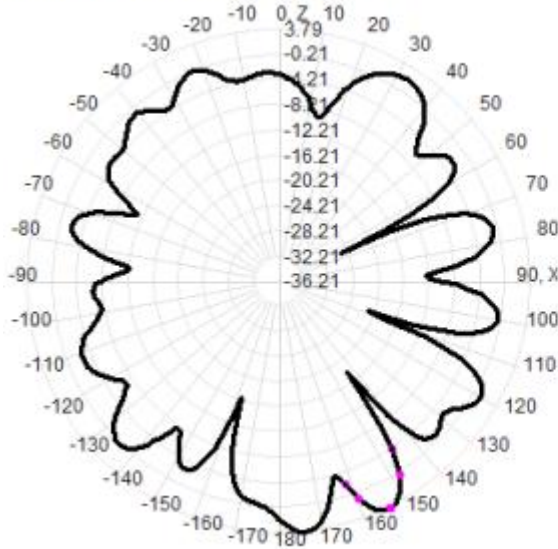
5150.0MHz H+V, Eff: 48.7%



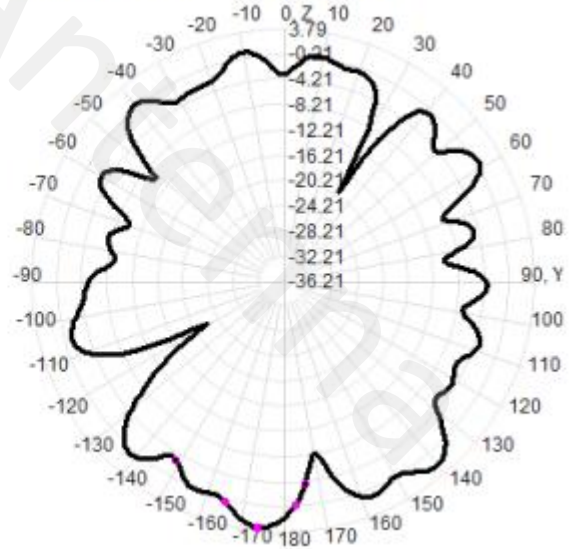
Back View



5150.0MHz Total(E1-XZ), Max= 3.79dBi

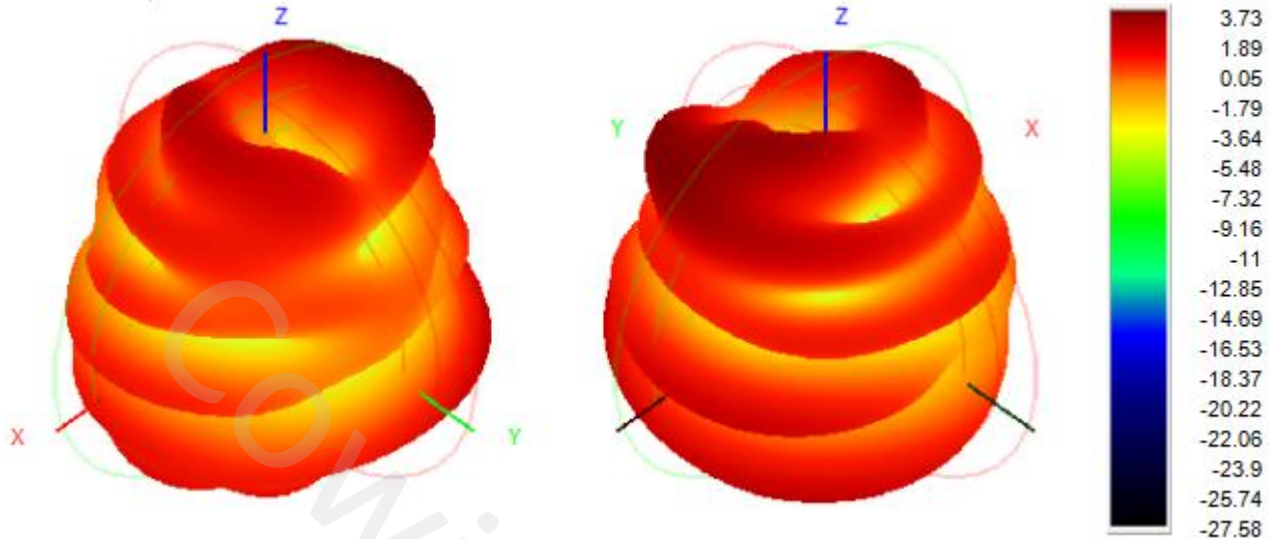


5150.0MHz Total(E2-YZ), Max= 2.87dBi

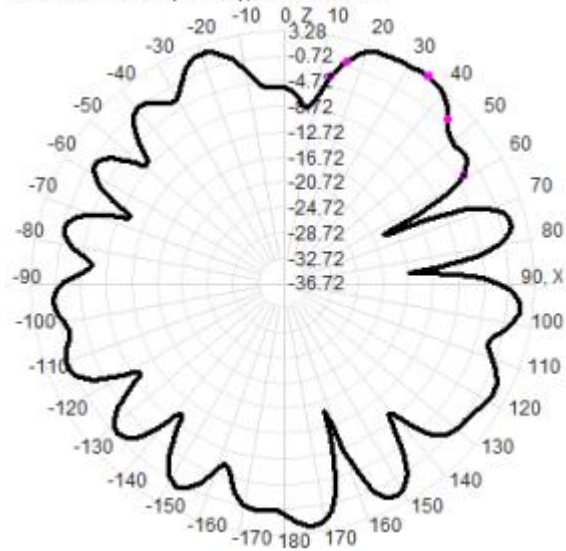


5550.0MHz H+V, Eff: 53.4%

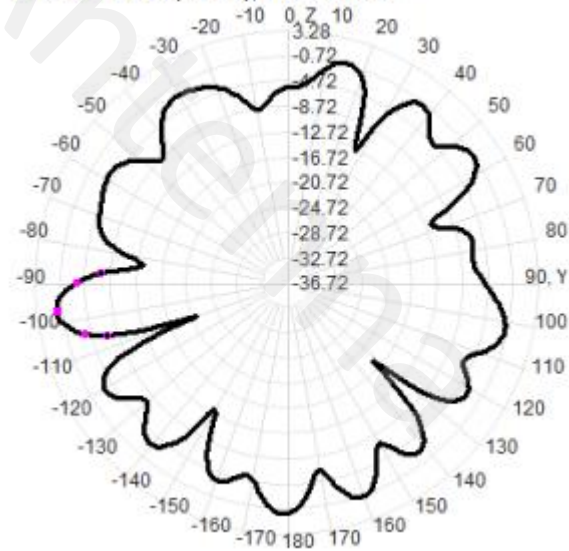
Back View



5550.0MHz Total(E1-XZ), Max= 3.28dBi

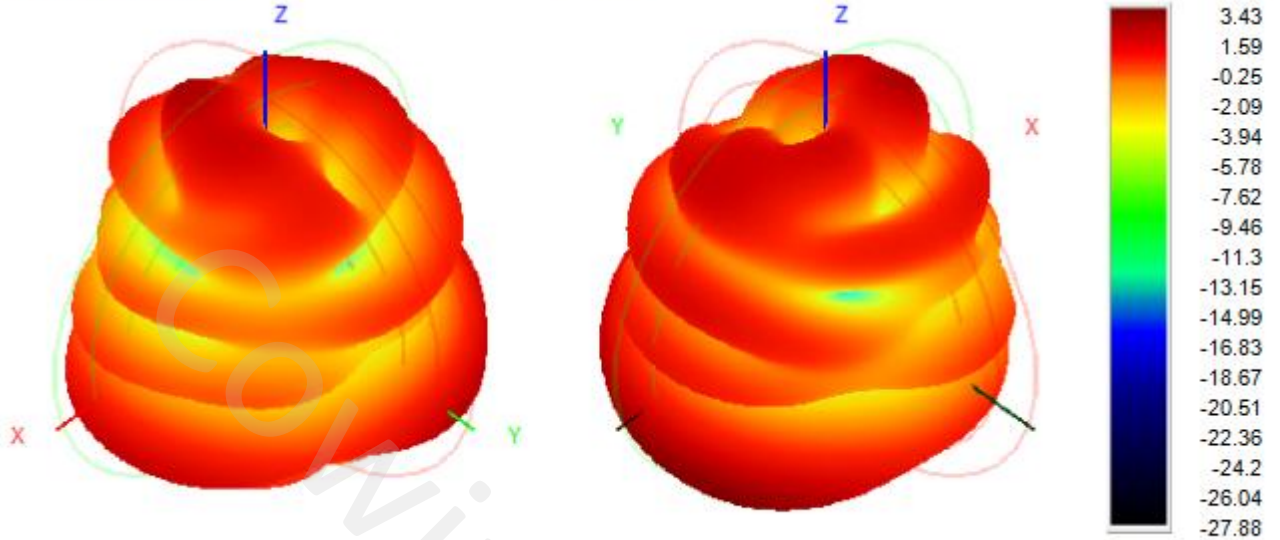


5550.0MHz Total(E2-YZ), Max= 0.02dBi



5950.0MHz H+V, Eff: 42.4%

Back View



5950.0MHz Total(E1-XZ), Max= 3.00dBi

5950.0MHz Total(E2-YZ), Max= 1.60dBi

