

CW-NZ-0072

4G Flexible FPC Antenna

Key Features

Frequency: 824-960MHz/1710-1880MHz

IPEX Connector

3M Adhesive

Dimensions 108*16mm

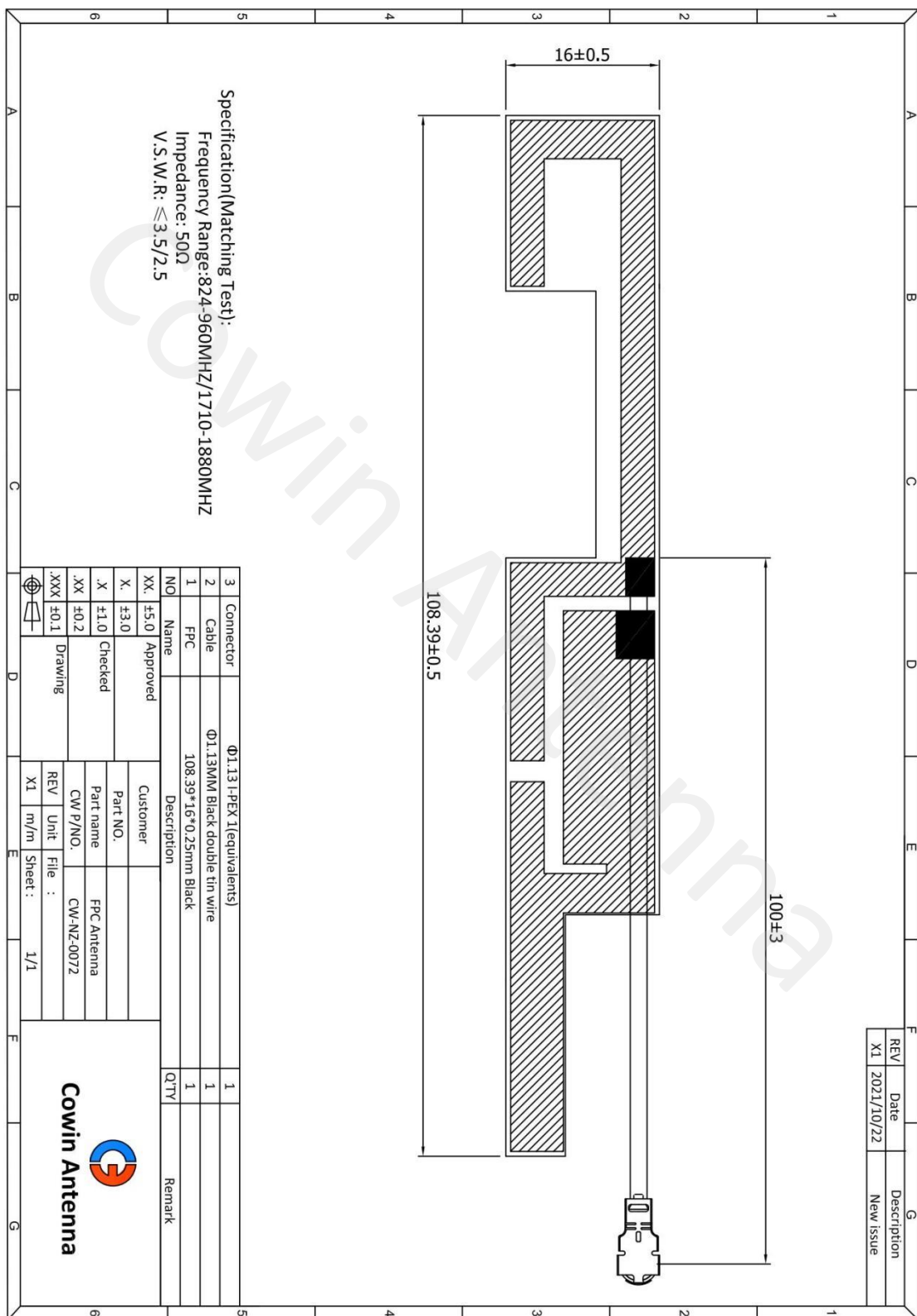


1. Antenna Electrical Characteristics

Band (MHz)		
Frequency (MHz)	824-960MHz	1710-1880MHz
VSWR	3.5:1	2.5:1
Efficiency (%)	54.34%	64.92%
Peak Gain (dBi)	1.97	3.12
Impedance (Ohm)	50	
Polarisation	Vertical	
Max. Input Power (W)	10	
Connector Type	IPEX	

2. Material and environmental characteristics

inner structure	FPC
Material of Plastic	N/A
Cable Type	RF1.13
Connector Type	IPEX
Dimensions (mm)	108*16MM
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

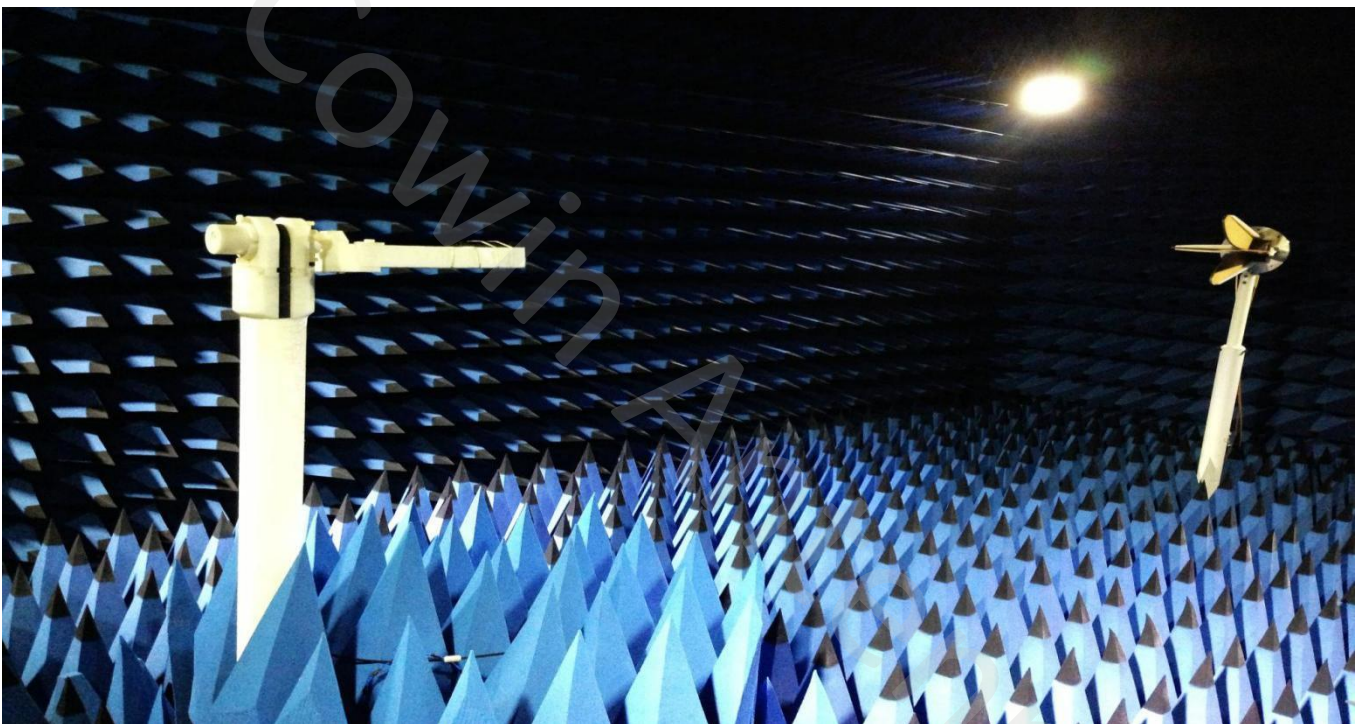
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

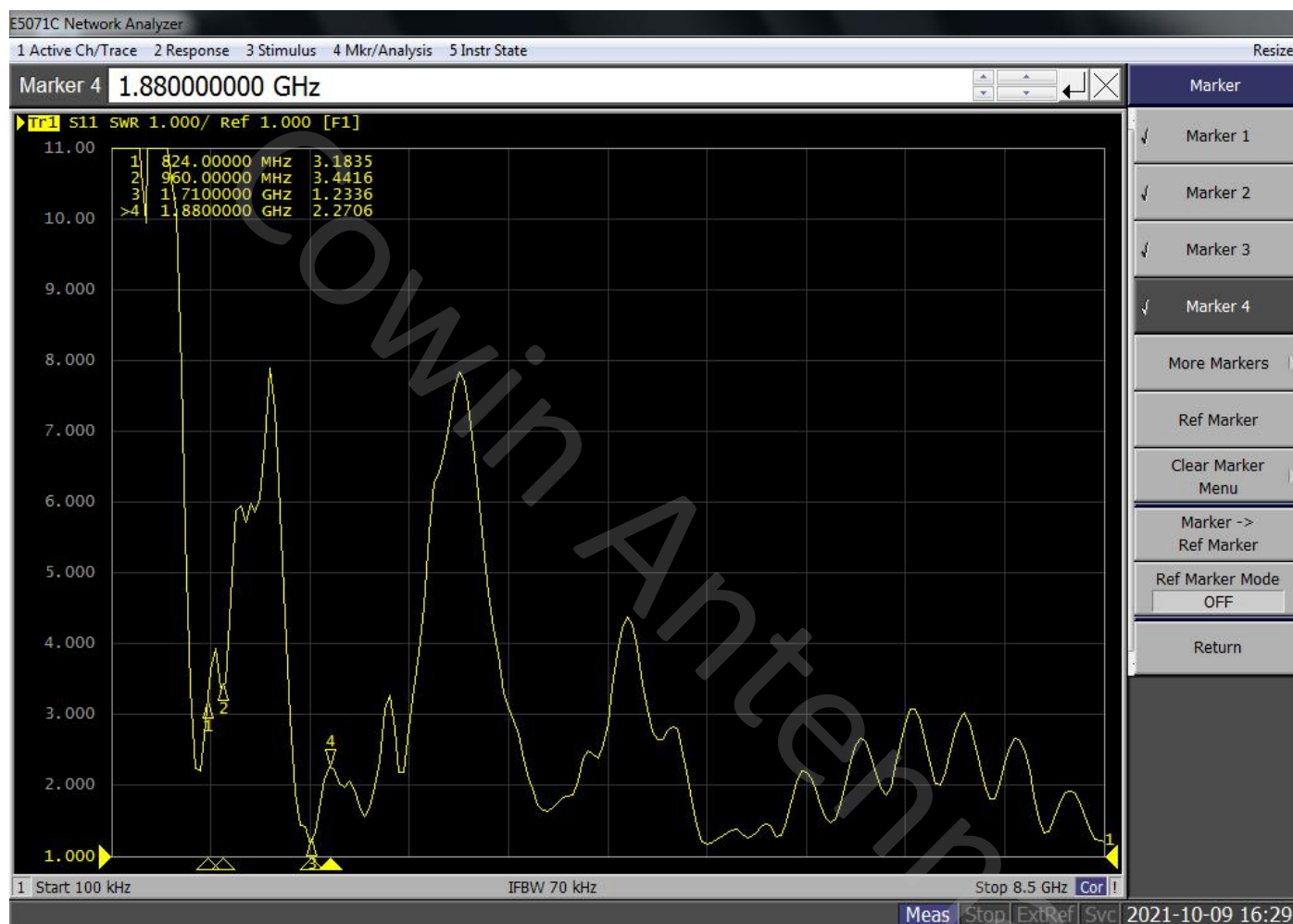
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

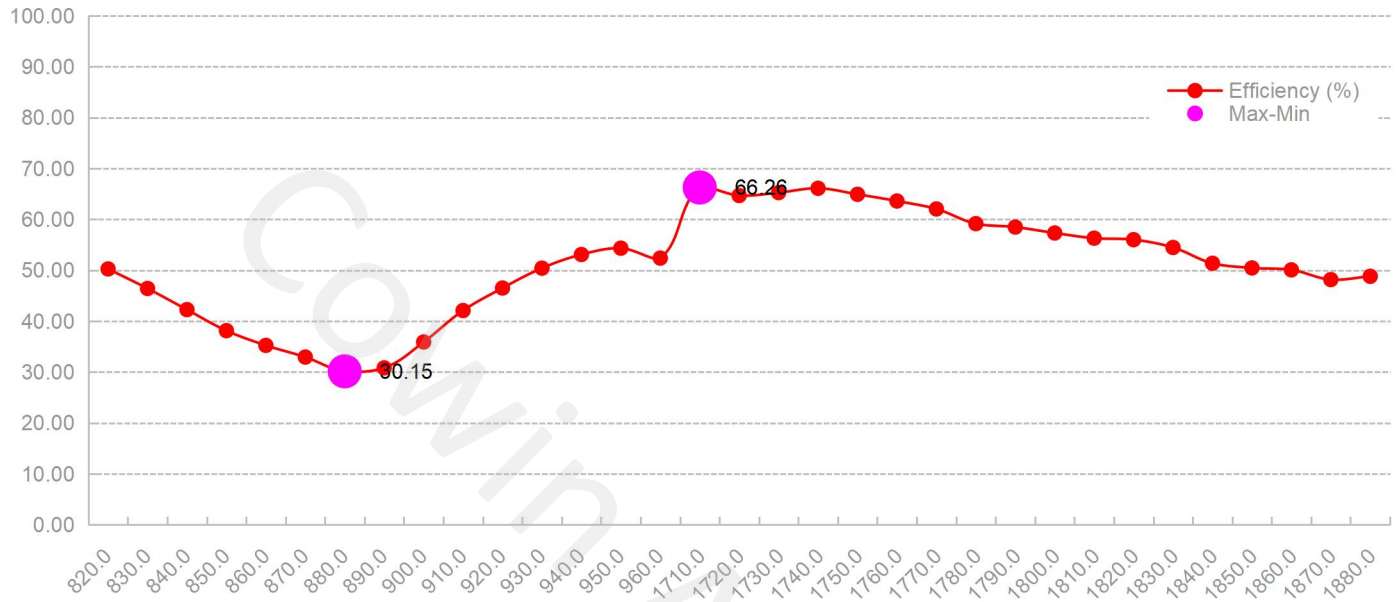
The comprehensive tester is Agilent cmv500



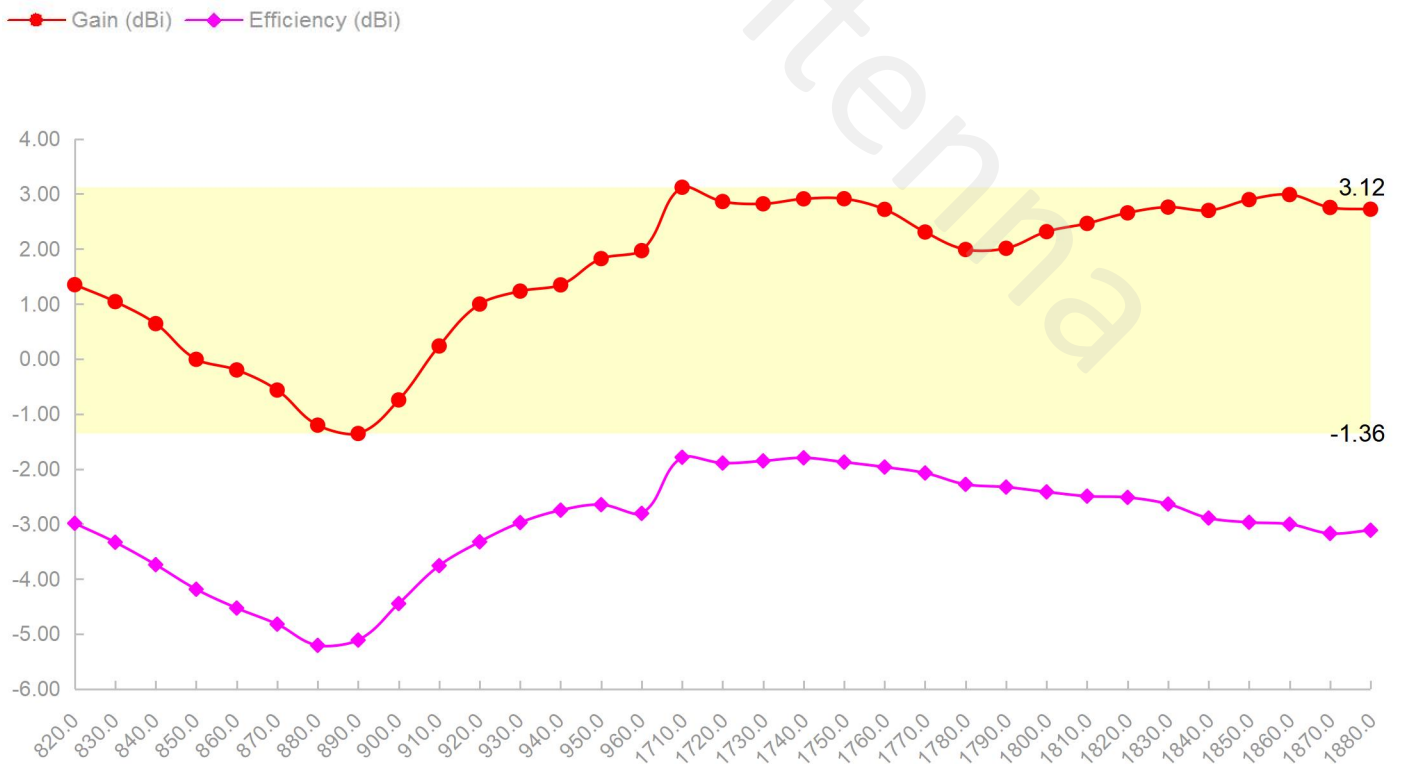
4.1 VSWR



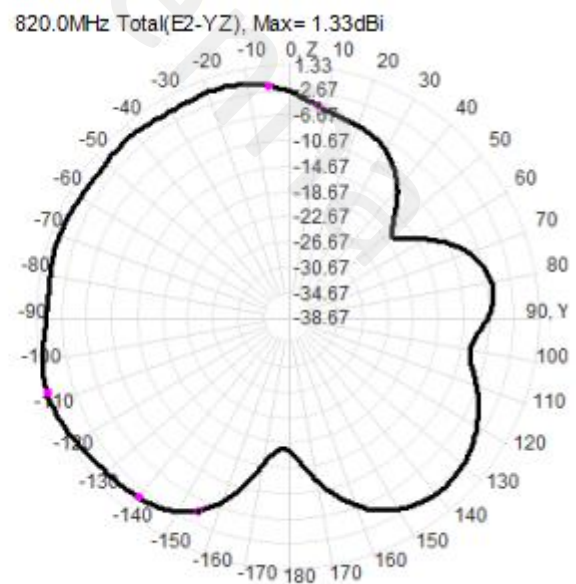
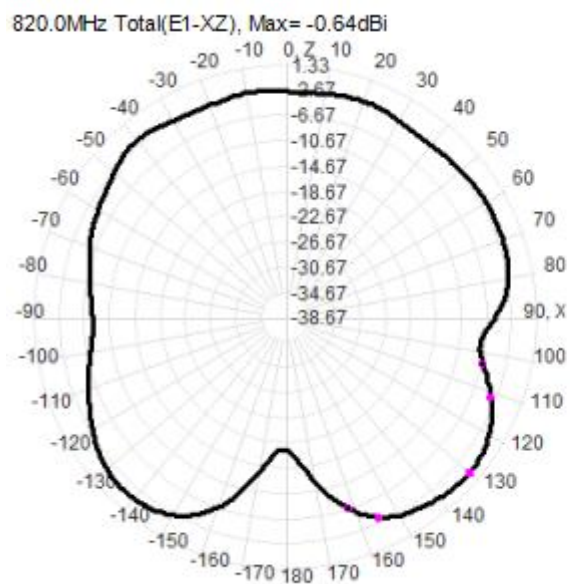
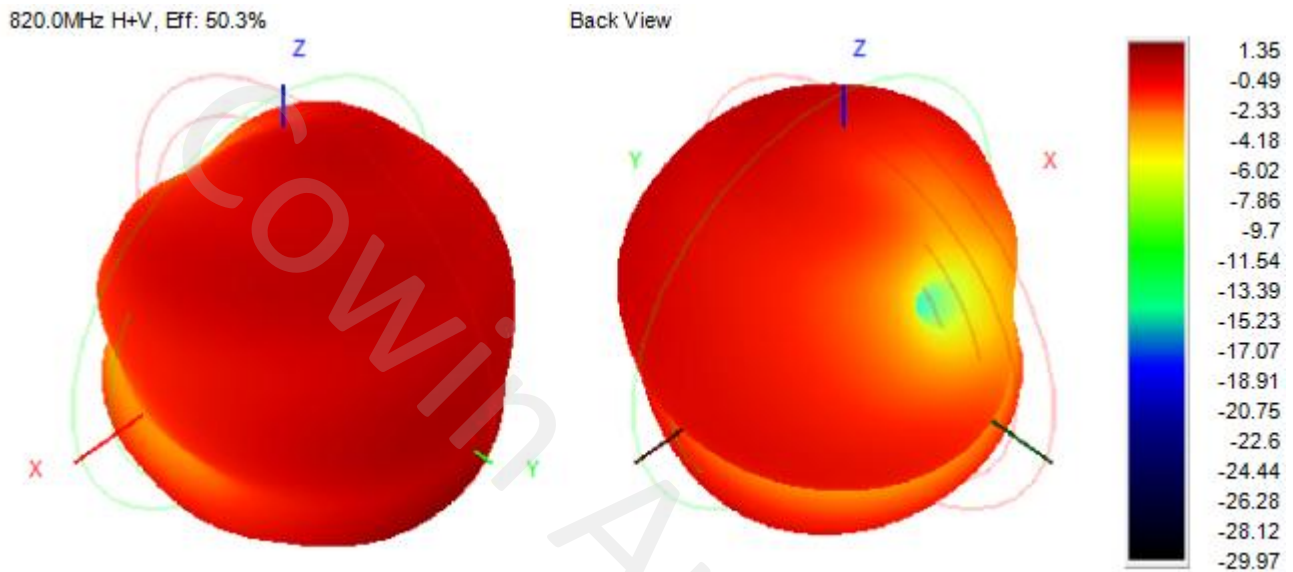
4.2 Efficiency



4.3 Peak gain

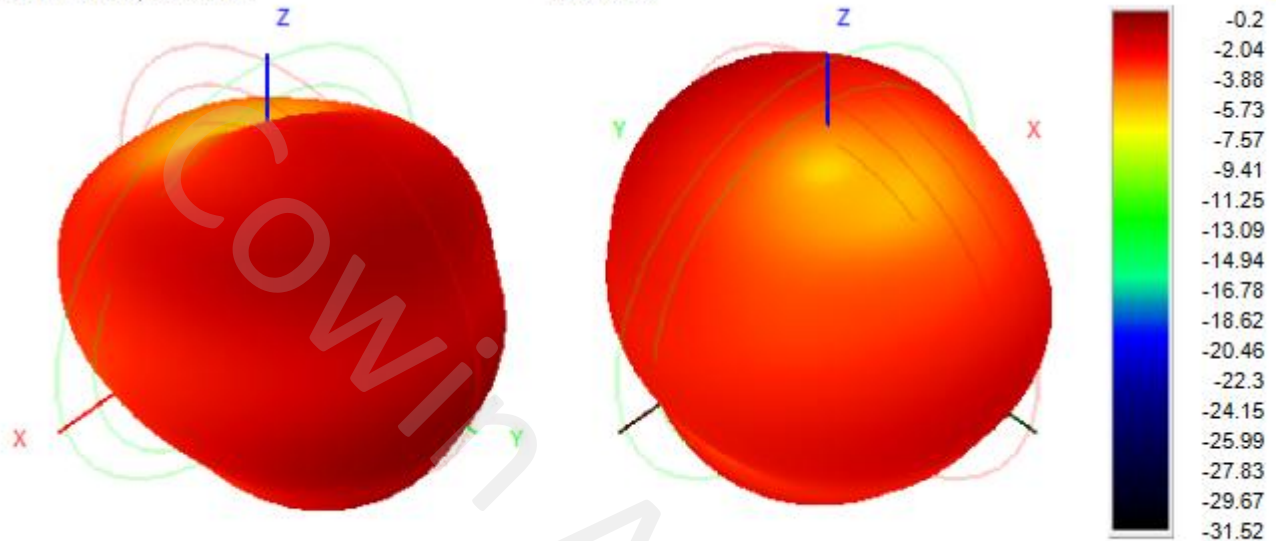


4.4 3D&2D Radiation Patterns



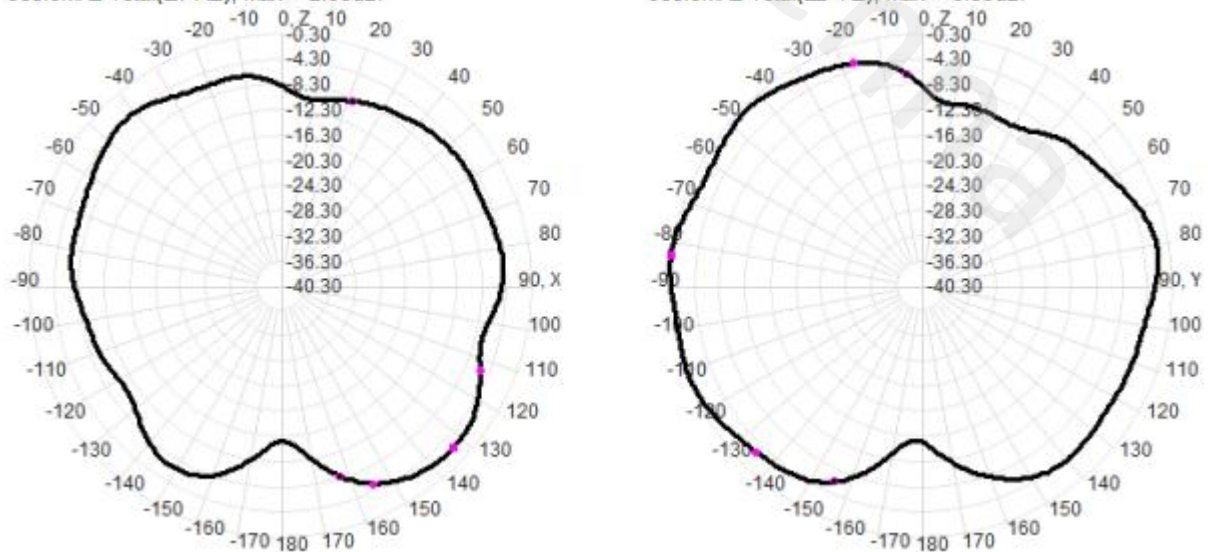
860.0MHz H+V, Eff: 35.2%

Back View

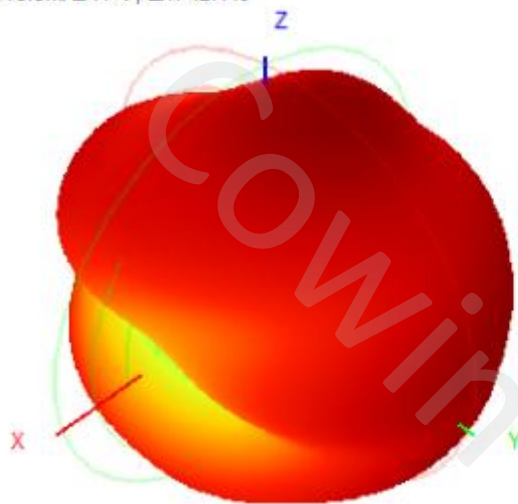


860.0MHz Total(E1-XZ), Max= -2.86dBi

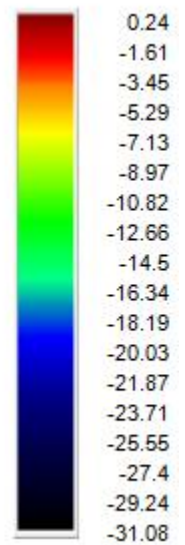
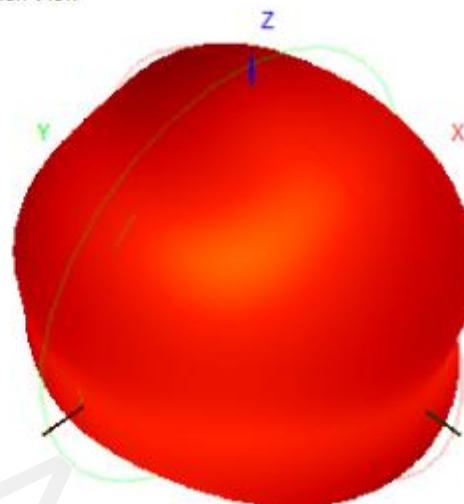
860.0MHz Total(E2-YZ), Max= -0.30dBi



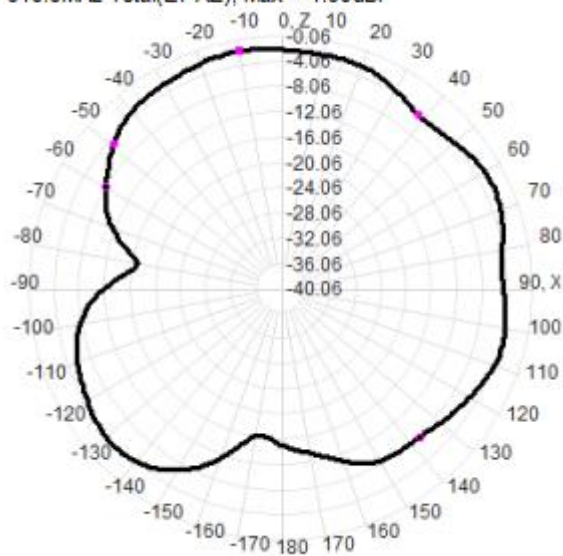
910.0MHz H+V, Eff: 42.1%



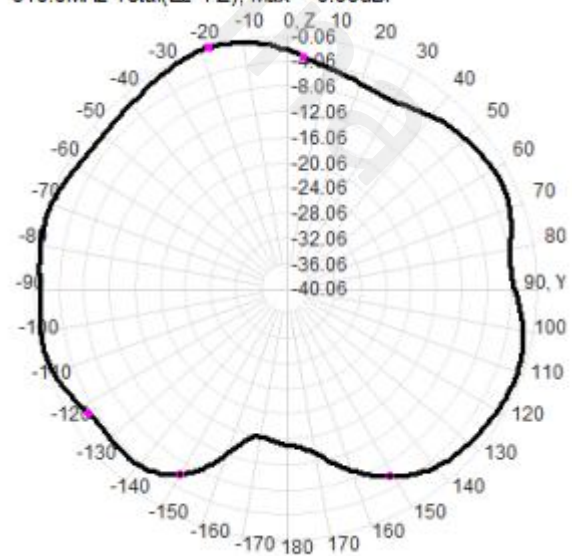
Back View



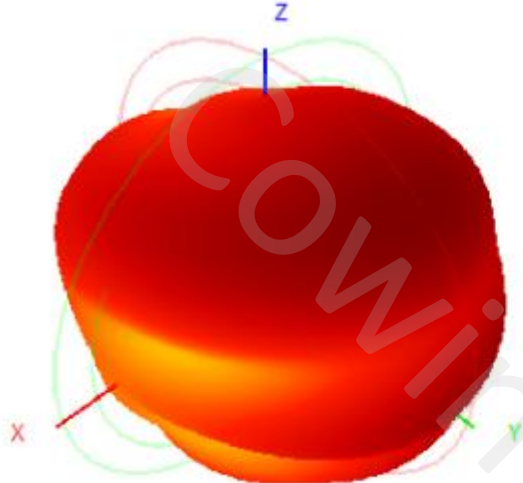
910.0MHz Total(E1-XZ), Max=-1.90dBi



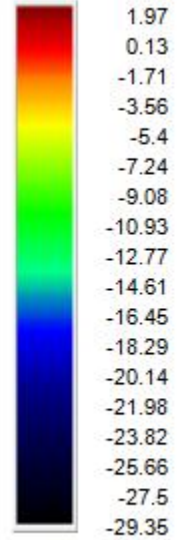
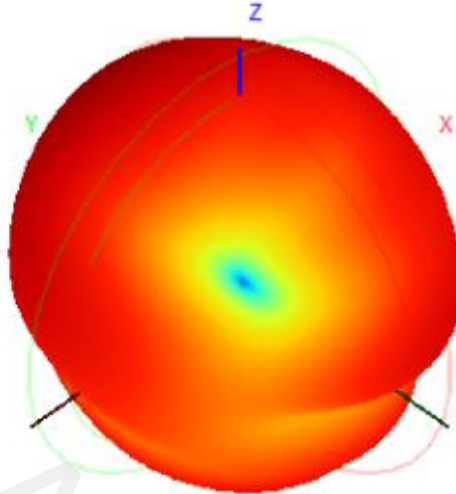
910.0MHz Total(E2-YZ), Max=-0.06dBi



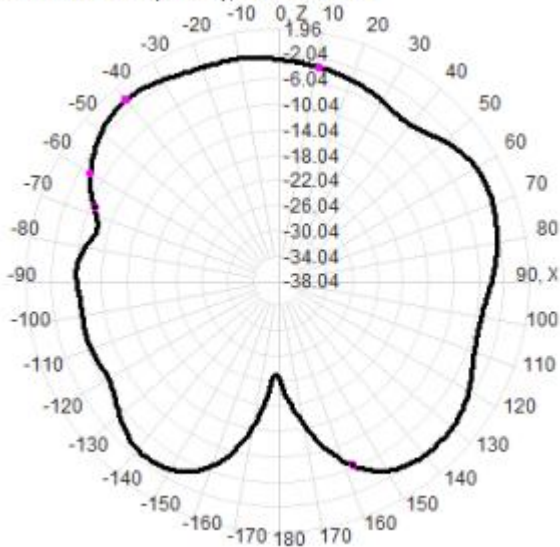
960.0MHz H+V, Eff: 52.4%



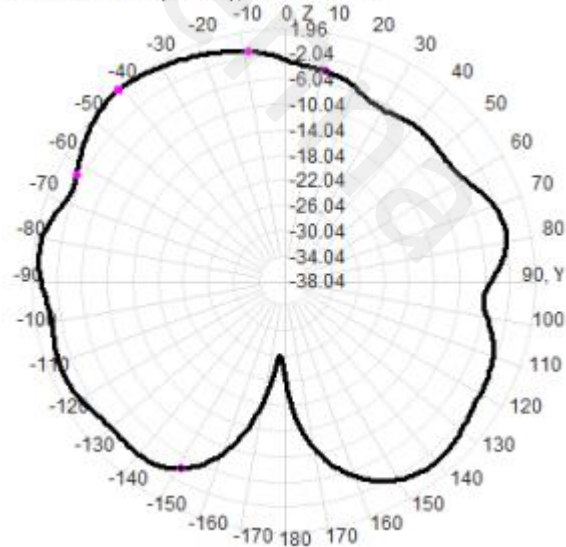
Back View

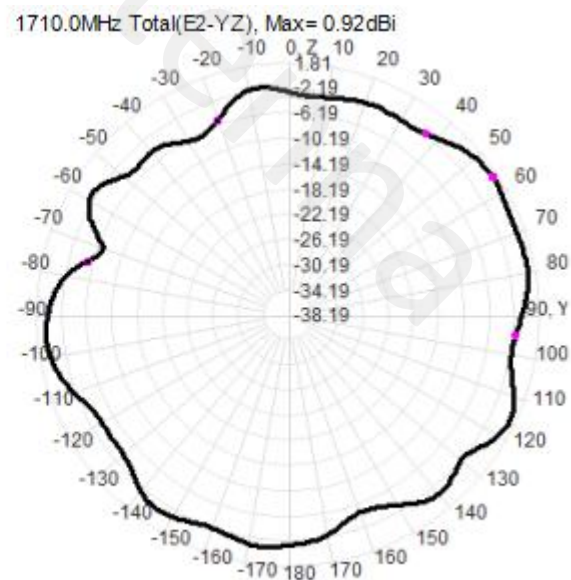
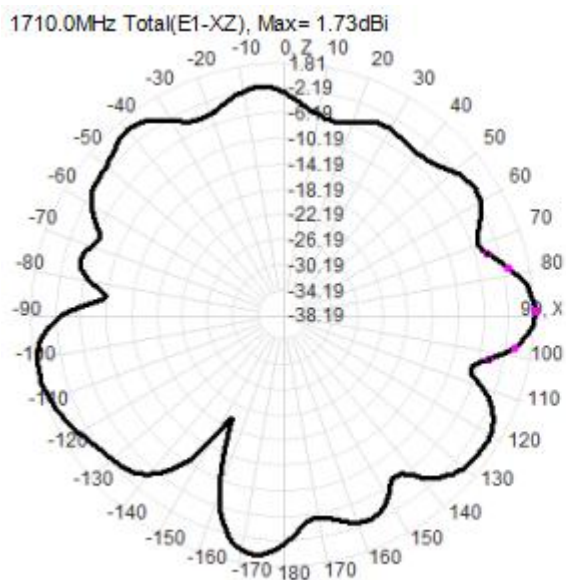
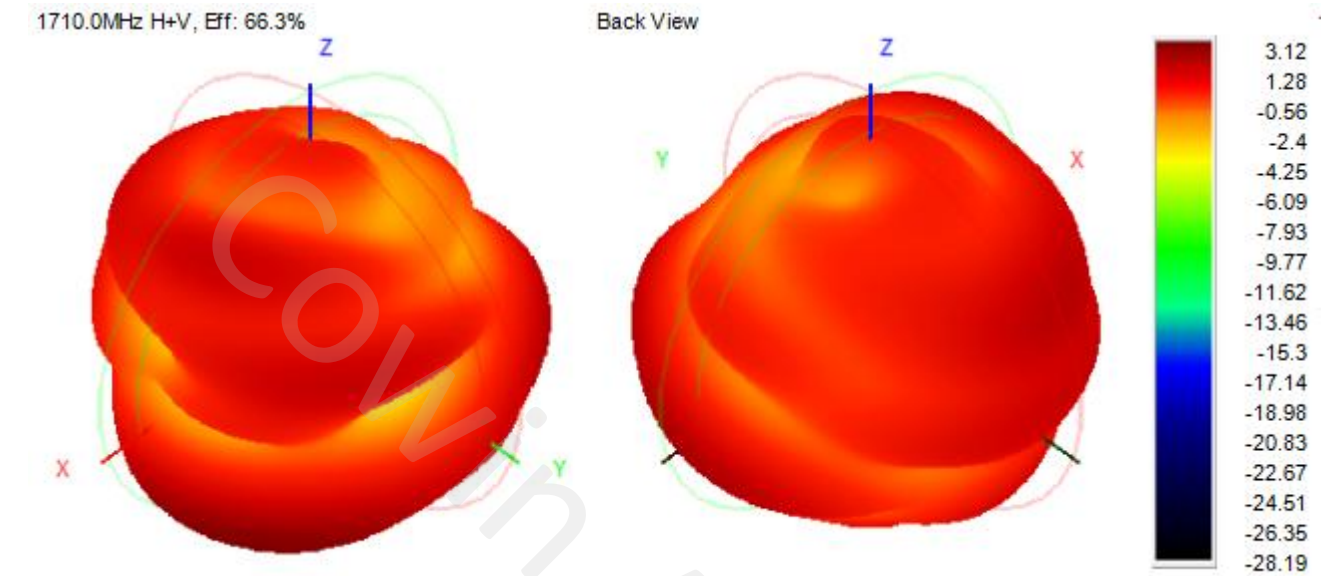


960.0MHz Total(E1-XZ), Max= -0.54dBi



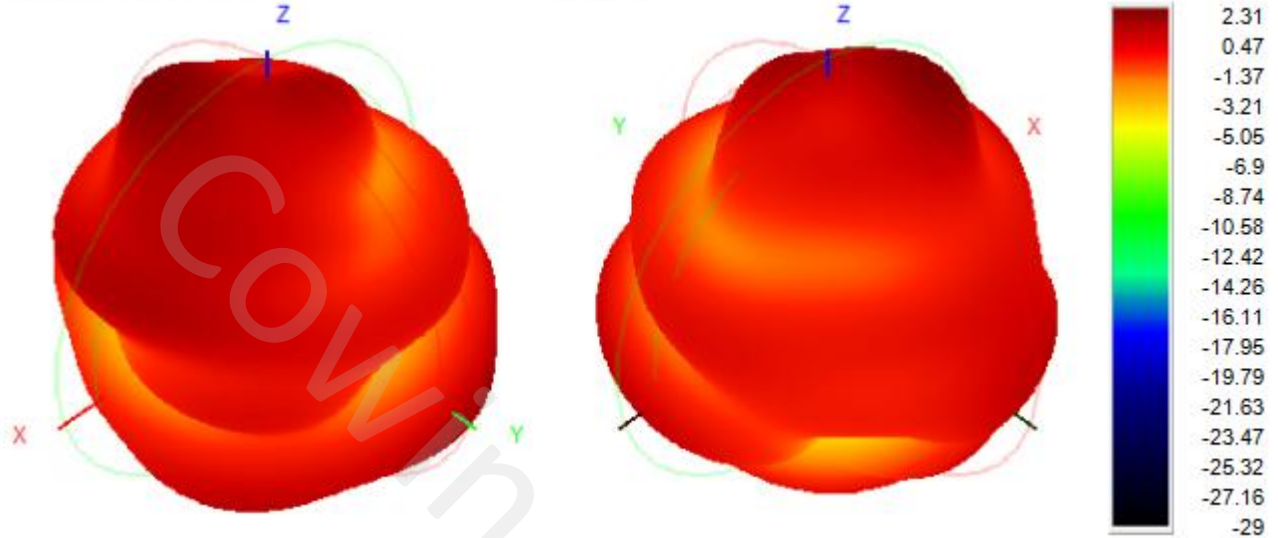
960.0MHz Total(E2-YZ), Max= 1.96dBi





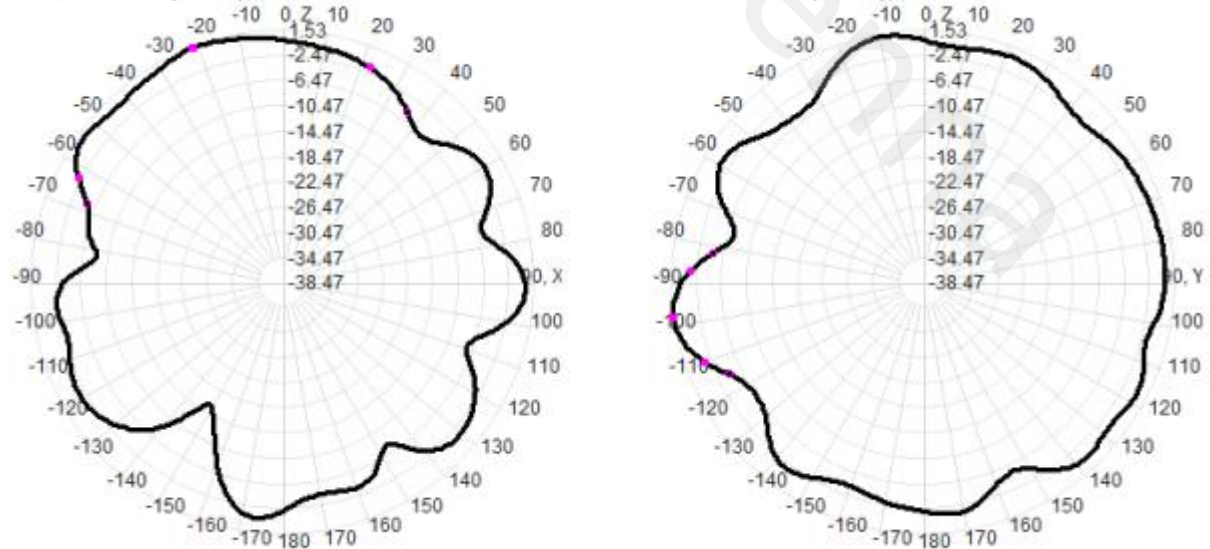
1800.0MHz H+V, Eff: 57.3%

Back View

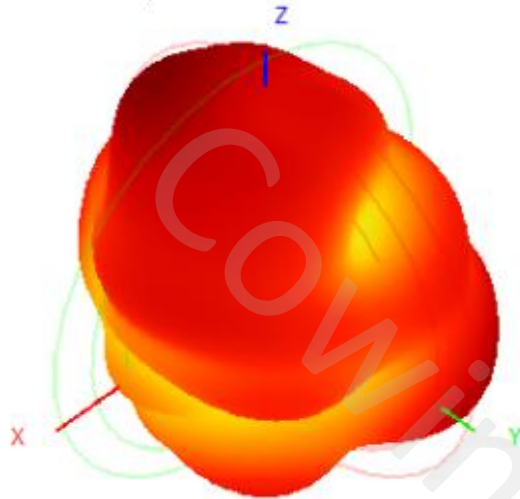


1800.0MHz Total(E1-XZ), Max= 1.31dBi

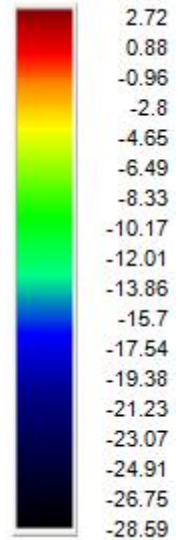
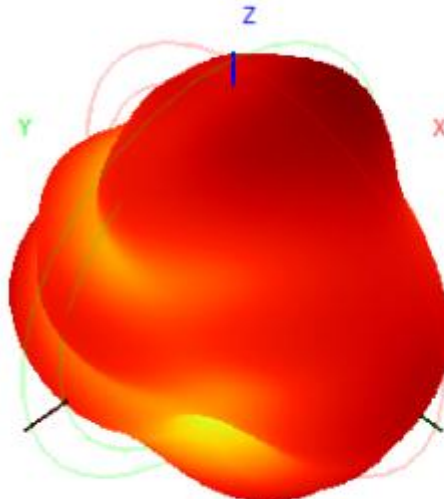
1800.0MHz Total(E2-YZ), Max= 1.53dBi



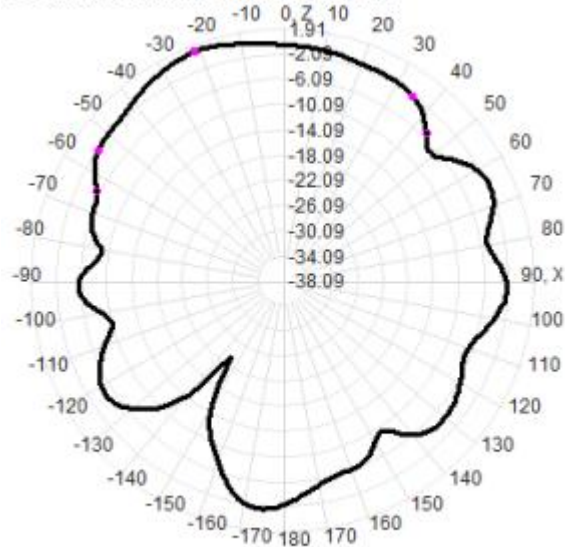
1880.0MHz H+V, Eff: 48.8%



Back View



1880.0MHz Total(E1-XZ), Max= 0.87dBi



1880.0MHz Total(E2-YZ), Max= 1.91dBi

