CW-NZ-0199

4G FPC Antenna

Cowin 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
Impendance (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

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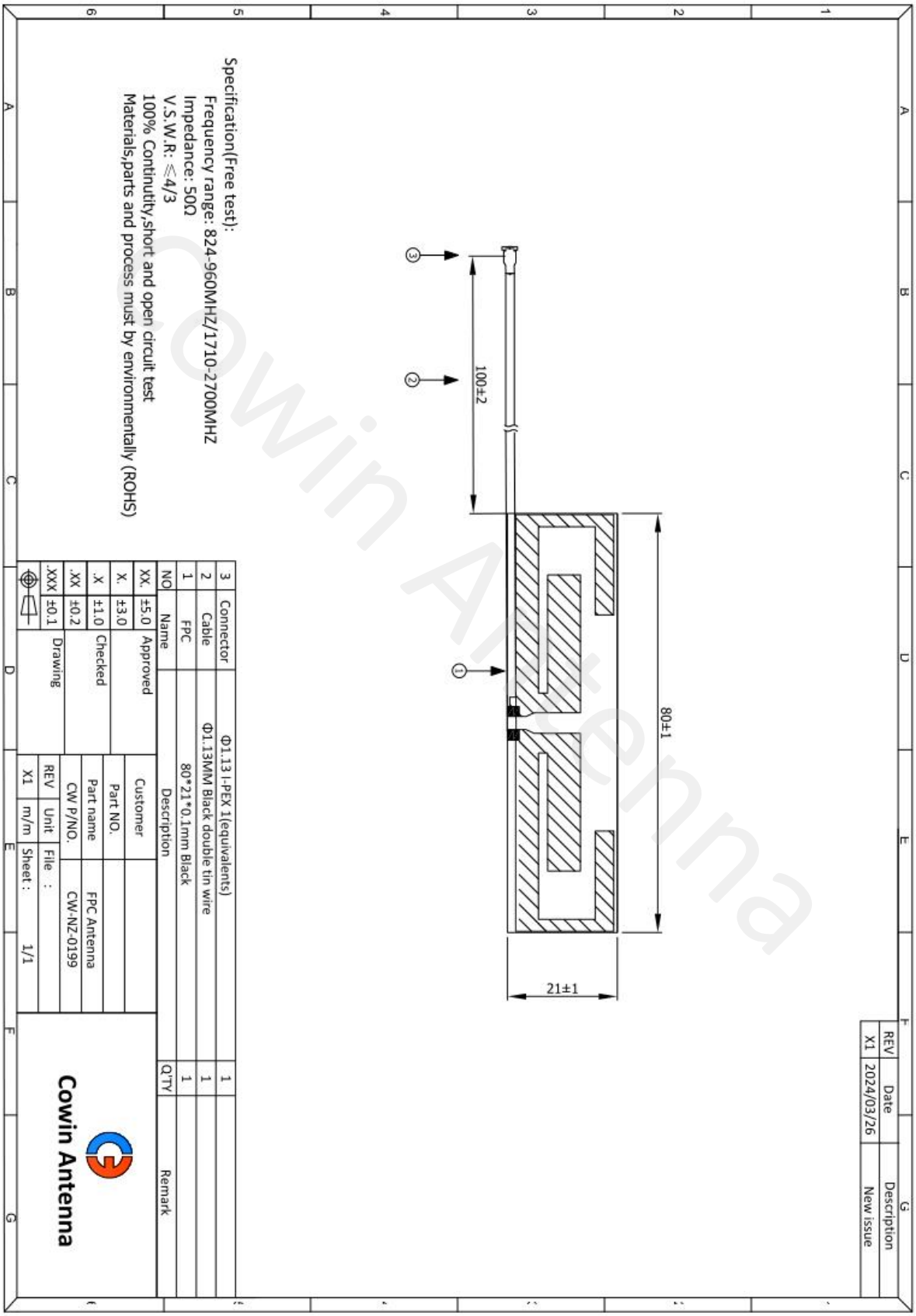

Specification(Free test):
Frequency range: 824-960MHZ/1710-2700MHZ
Impedance: 50Ω
V.S.W.R: ≤4/3
100% Continuitty,short and open circuit test
Materials,parts and process must by environmentally (ROHS)
100±2
80±1
21±1
3 Connector Φ1.13 I-PEX 1(equivalents) 1
2 Cable Φ1.13MM Black double tin wire 1
1 FPC 80*21*0.1mm Black 1
NO Name Description Q'TY Remark
XX. ±5.0 Approved
X. ±3.0
.X ±1.0 Checked
.XX ±0.2
.XXX ±0.1 Drawing
Customer
Part NO.
Part name FPC Antenna
CW P/NO. CW-NZ-0199
REV Unit File :
X1 m/m Sheet : 1/1
Cowin Antenna
REV Date Description
X1 2024/03/26 New issue

4. Antenna test parameters

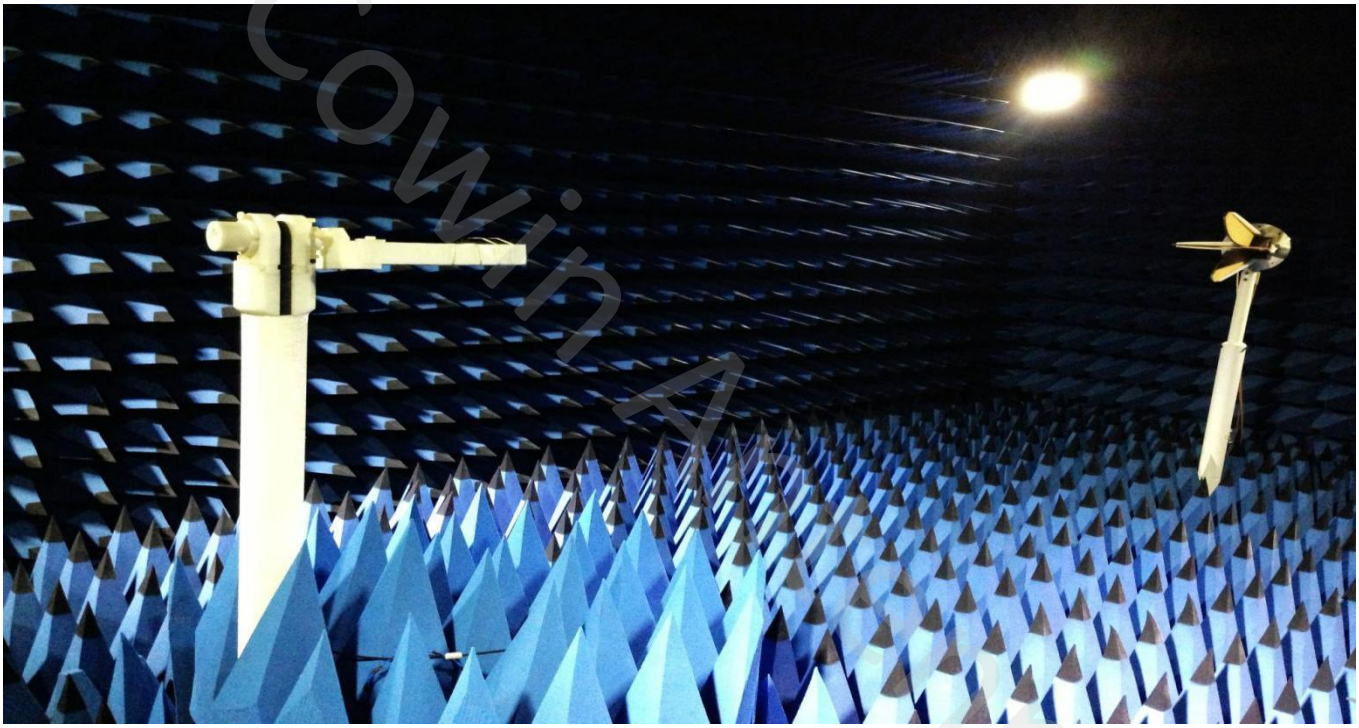
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

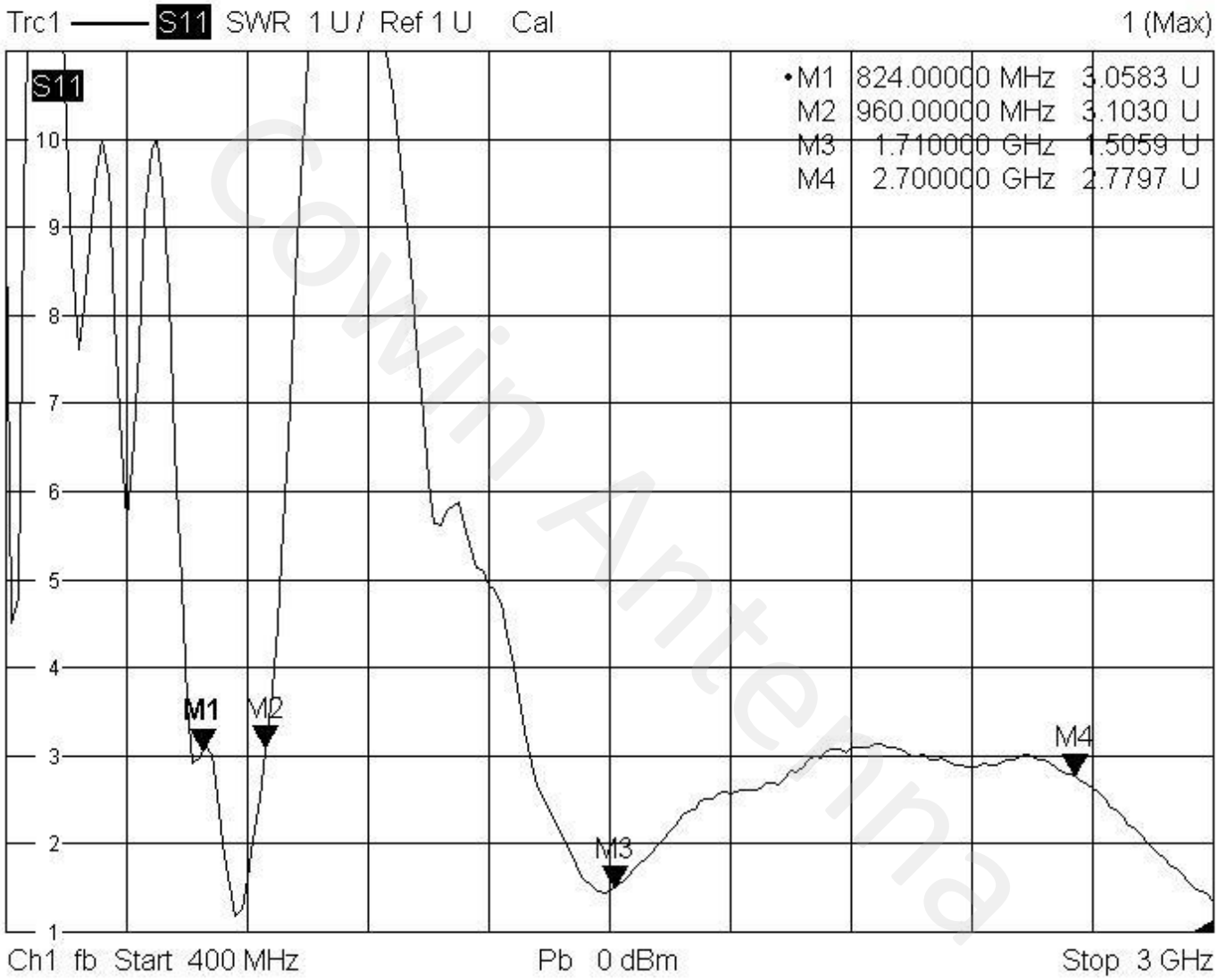
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

The comprehensive tester is Agilent cmv500



4.1 VSWR



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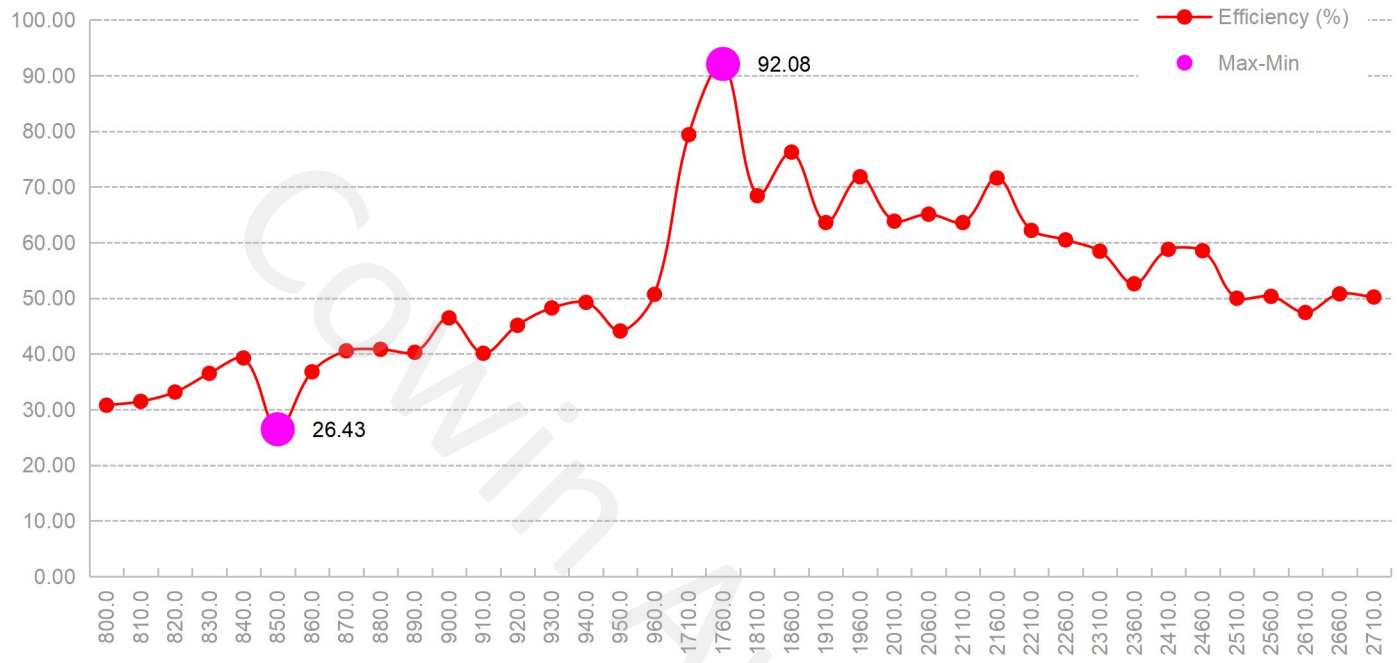
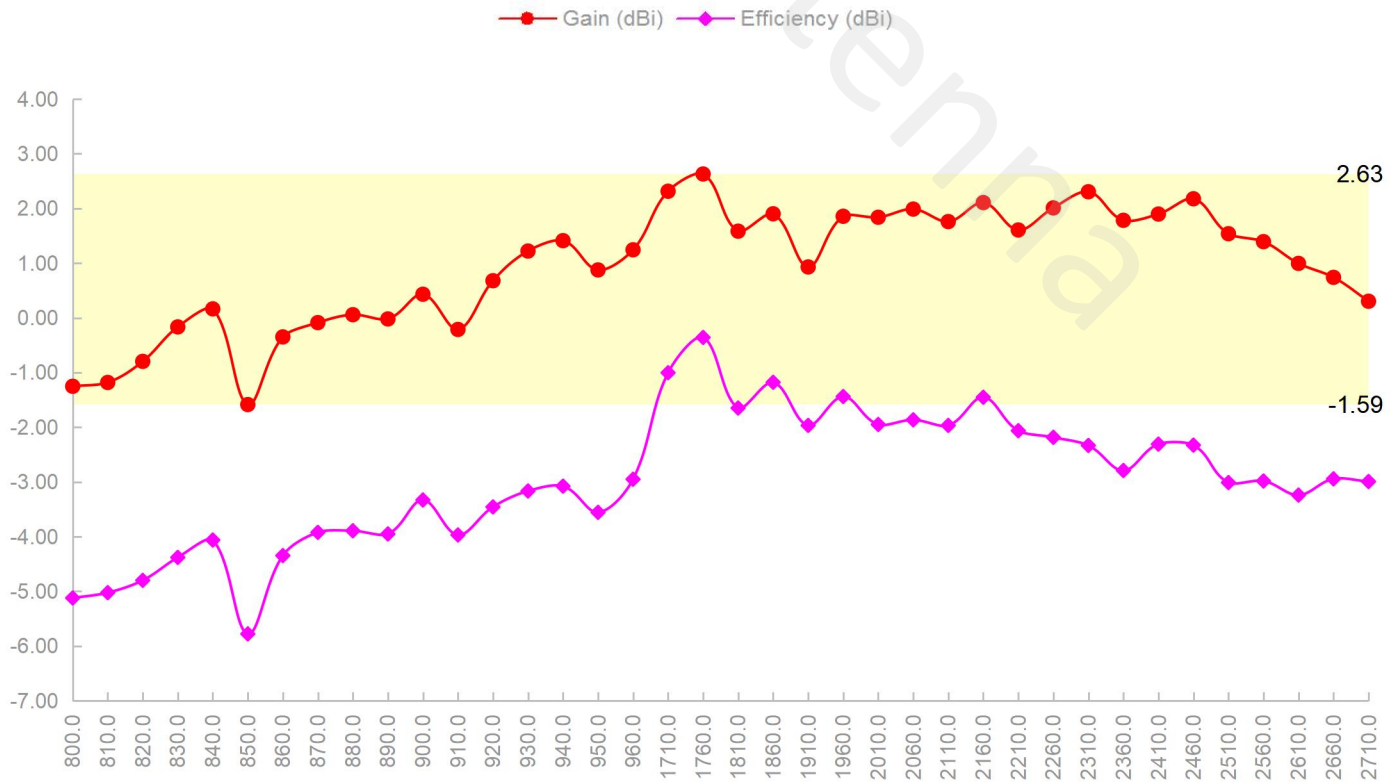
4.2 Efficiency



4.3 Peak gain



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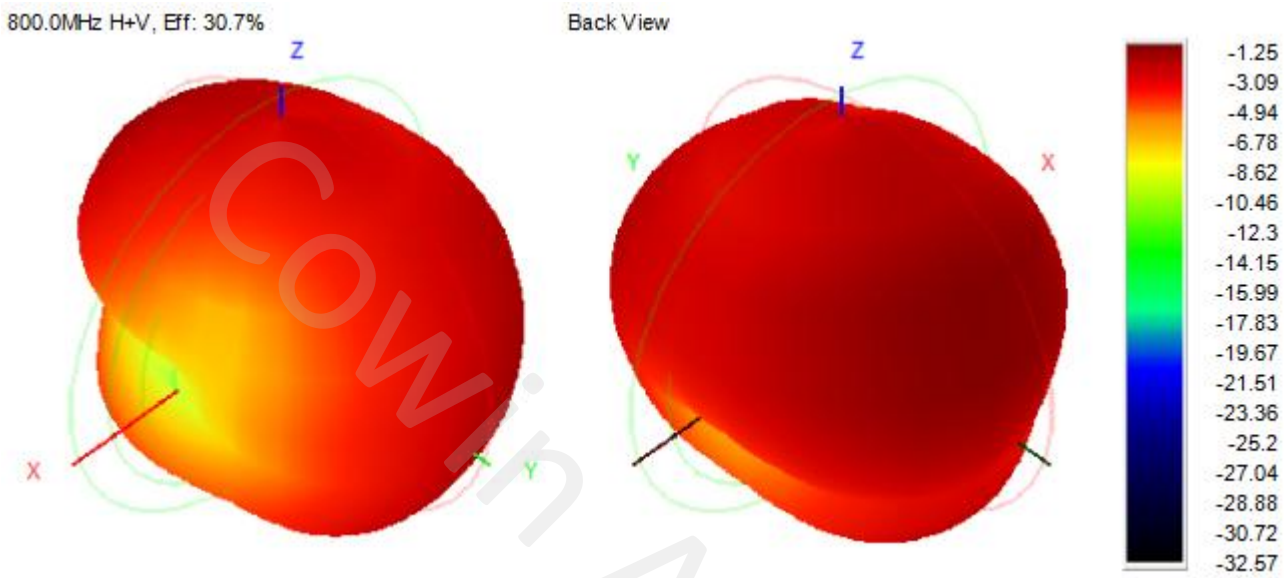
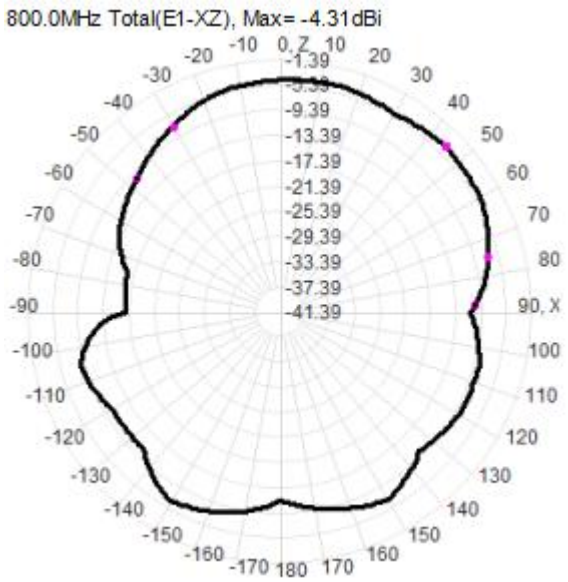
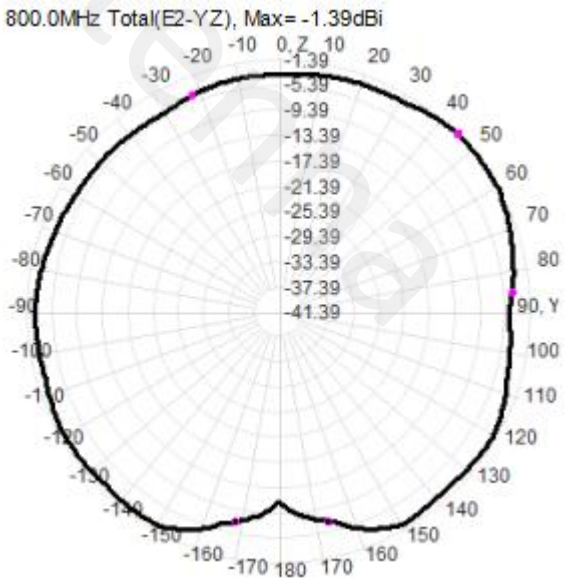
4.4 3D&2D Radiation Patterns







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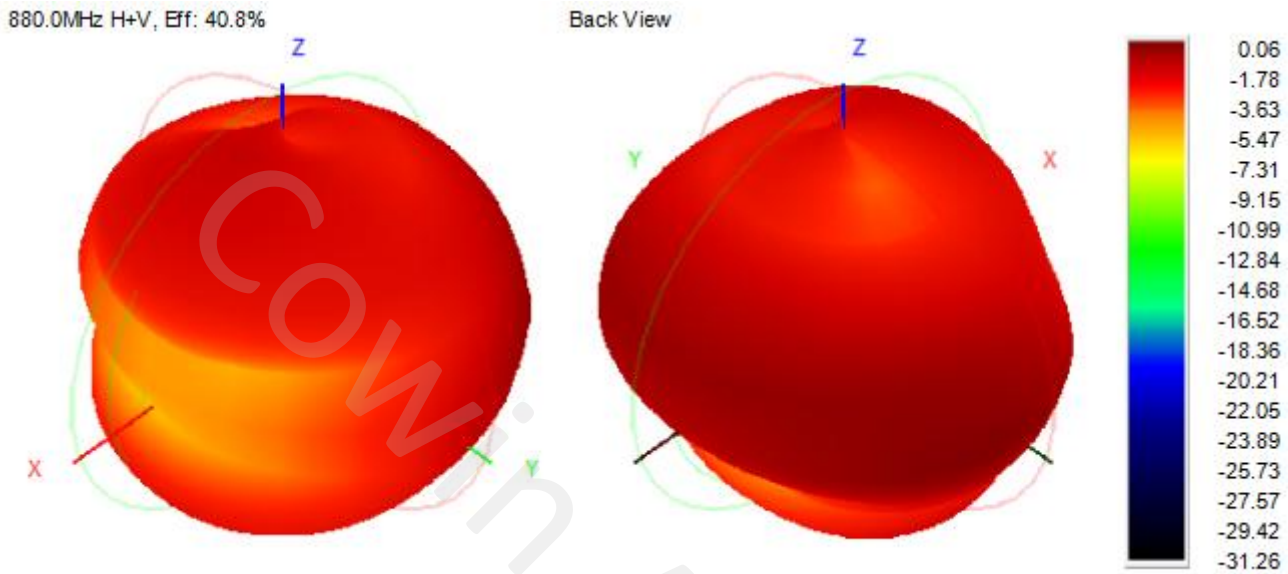

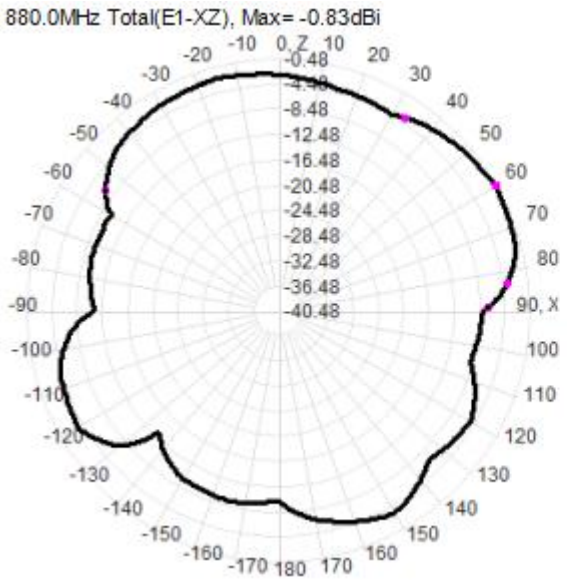

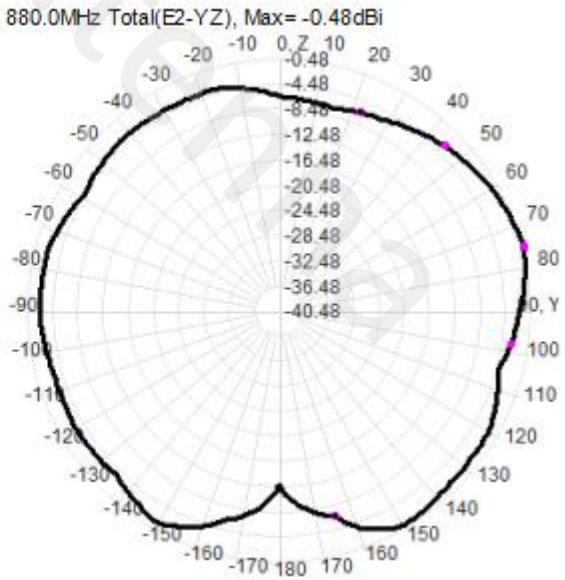

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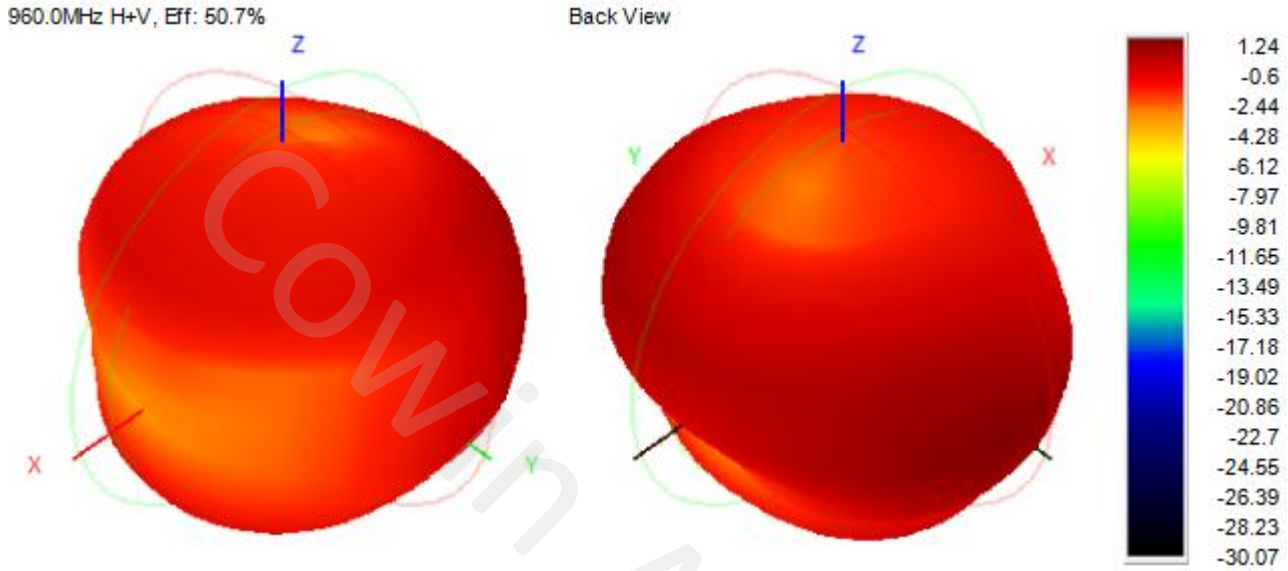

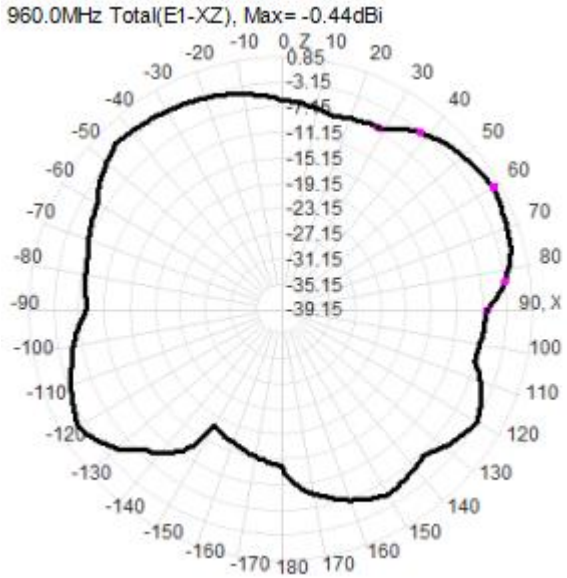

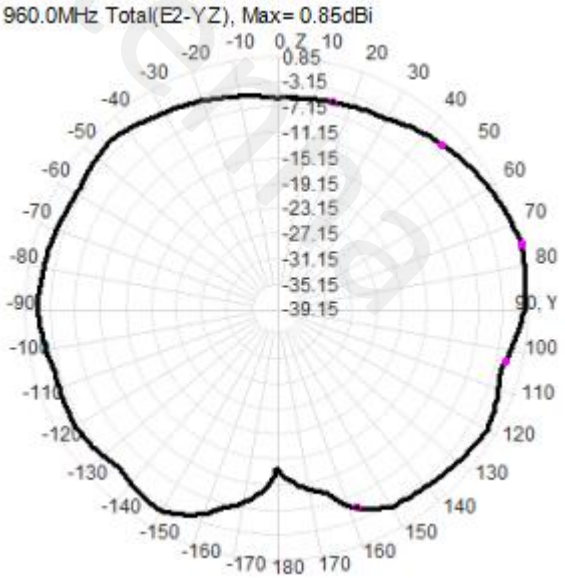

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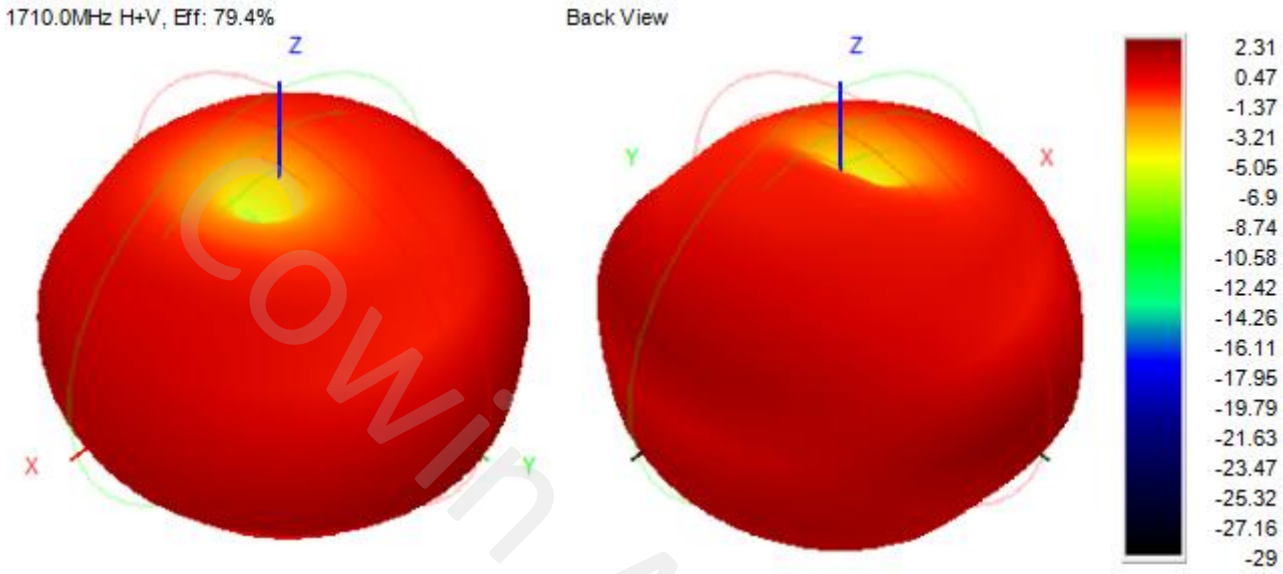

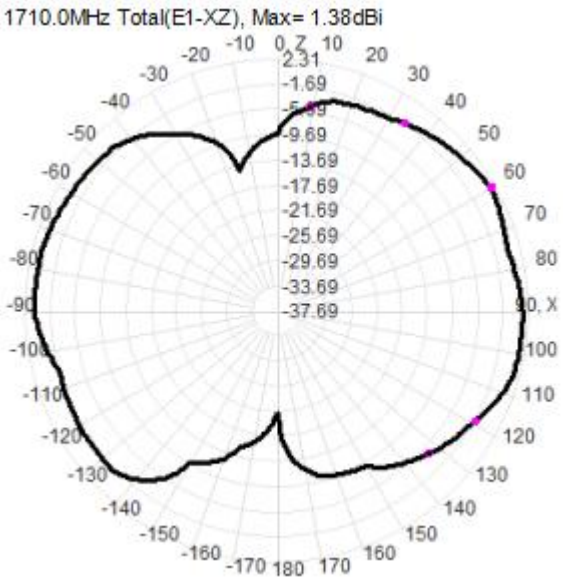

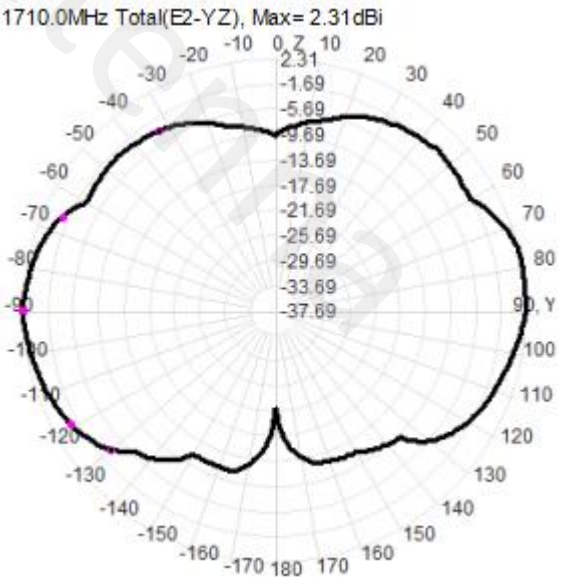

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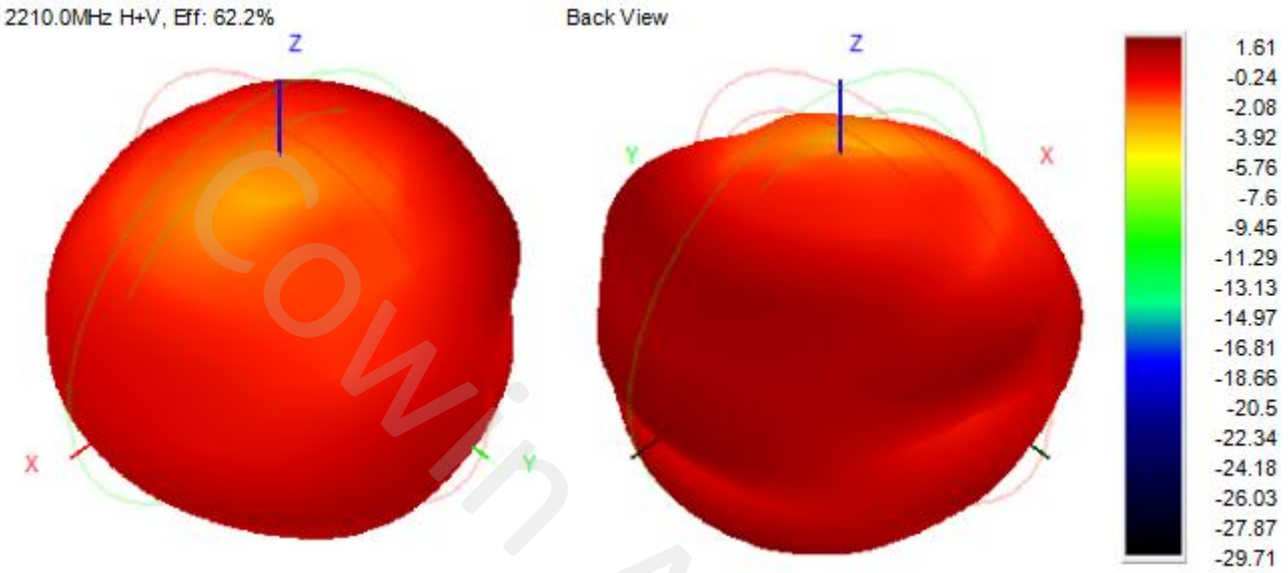

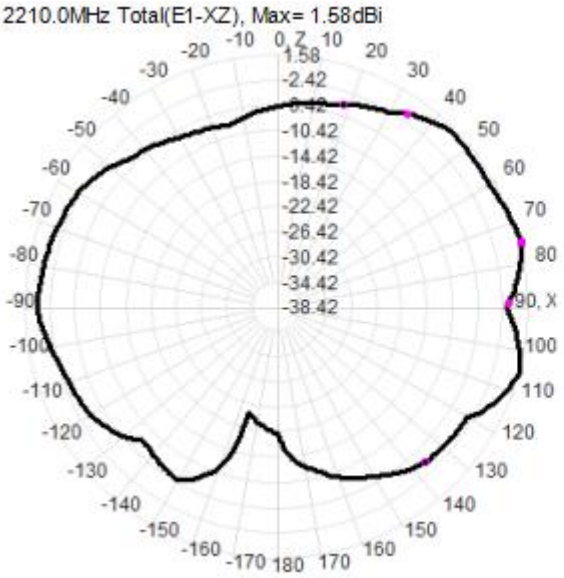

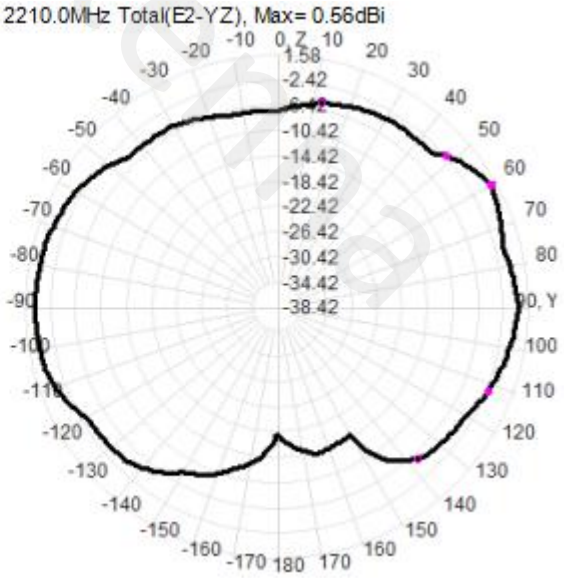

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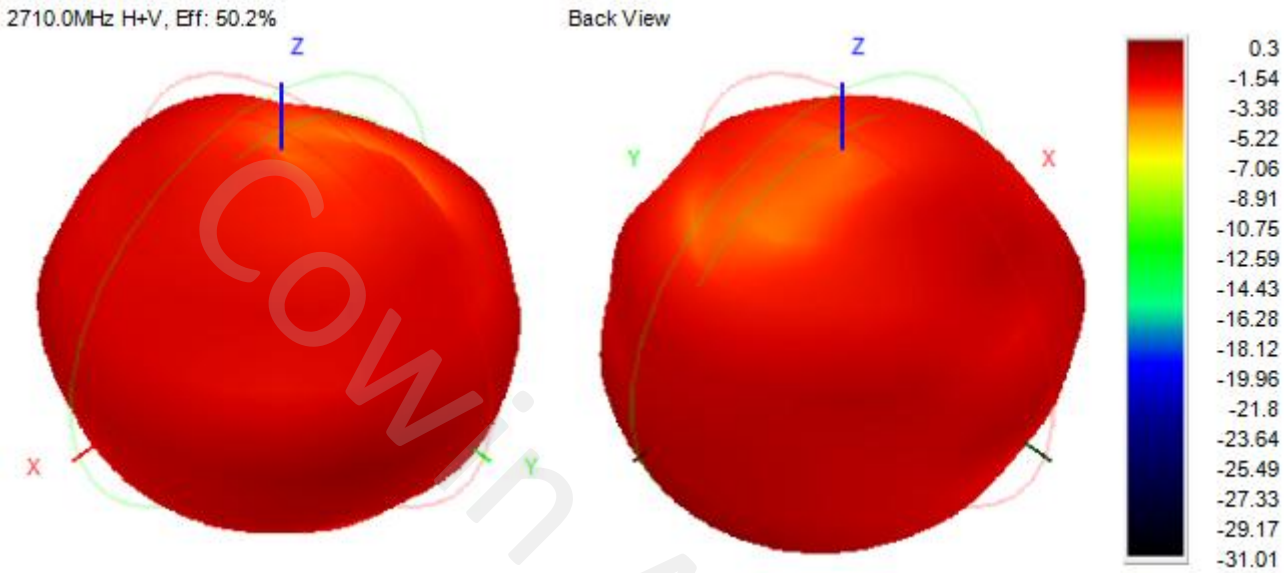

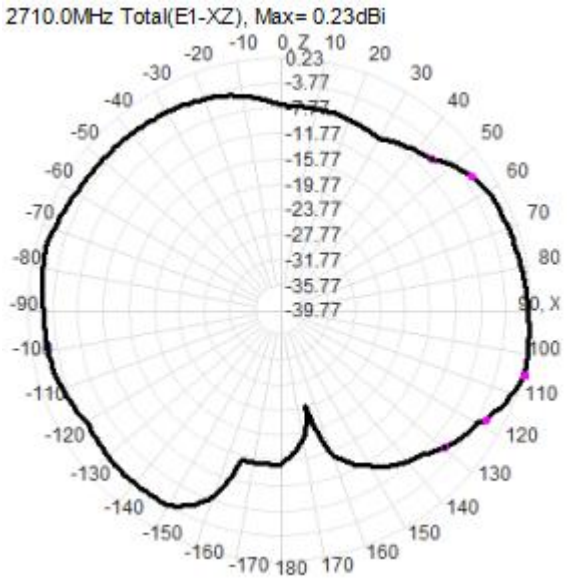

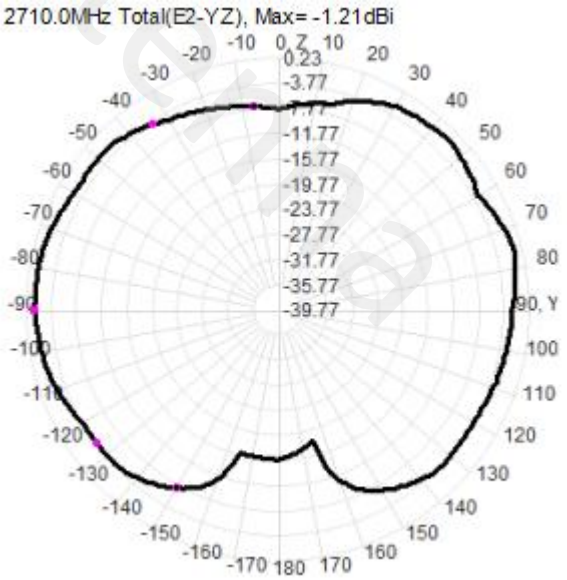

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