Product Datasheet

CW-WZ-0109

4G Magentic Antenna

Key Features

Frequency: 698-960/1710-2700MHz

SMA Male Connector

External Magnetic Base

Dimensions 110*30 mm

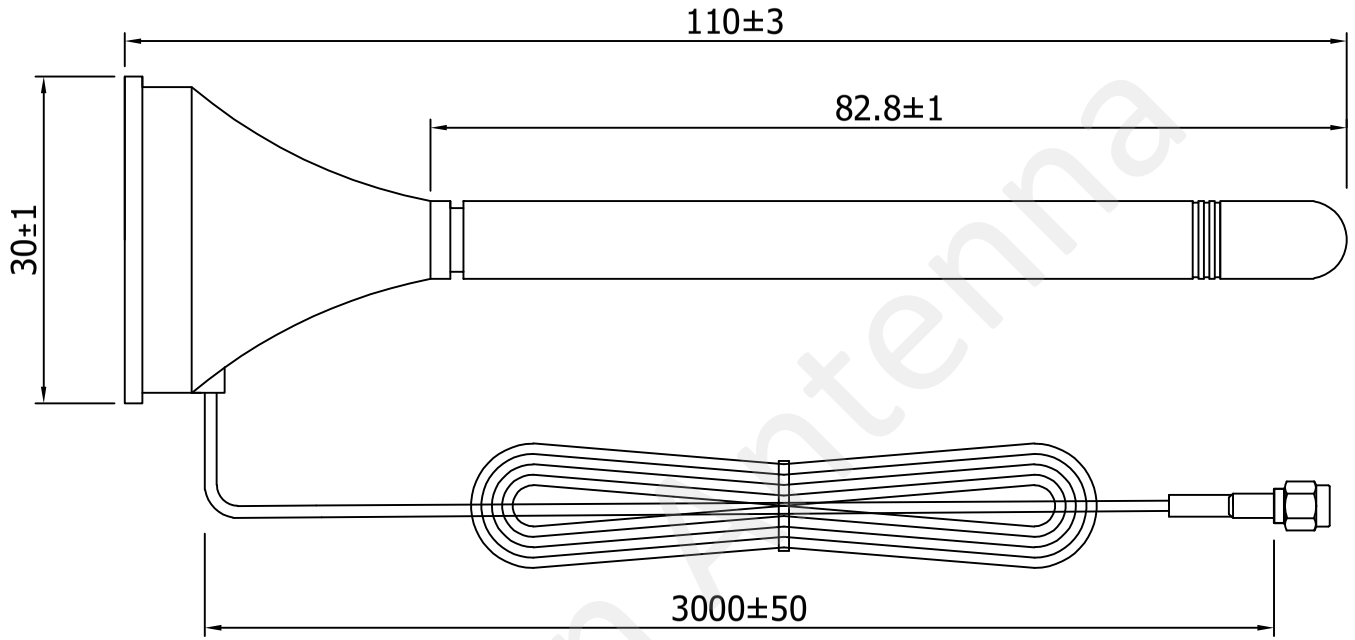
1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	698-960MHZ/1710-2700MHZ
VSWR	2/2.5
Efficiency (%)	58.24%/59.18%
Peak Gain (dBi)	2.72/2.86
Impendance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA Male

2. Material and environmental characteristics

Inner structure	Copper tube
Material of Plastic	ABS/TPE
Cable Type	RG174
Connector Type	SMA Male
Dimensions (mm)	110*30MM
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS

REV	Date	Description
X1	2023/02/16	New issue



Specification(Free Test):

Frequency Range:698-960MHZ/1710-2700MHZ

Impedance: 50Ω

V.S.W.R:≤2/2.5

100% Continutity,short and open circuit test

Materials,parts and process must by environmentally (ROHS)

NO	Name	Description	Q'TY	Remark
8	Tube	3.5*15MM Heat shrinkable tube	1	
7	Signal tube	Copper	1	
6	Radome	Black TPE	1	
5	Bottom cover	Black ABS	1	
4	Sticker	29*1mm	1	
3	Magnet	Magnet	1	
2	Cable	RG174 Cable	1	
1	Connector	SMA Male	1	

XX.	±5.0	Approved	Customer	
X.	±3.0		Part NO.	
.X	±1.0	Checked	Part name	External antenna
.XX	±0.2		CW P/NO.	CW-WZ-0109
.XXX	±0.1	Drawing	REV / Unit / File :	
			X1 / m/m / Sheet : 1/1	

Cowin Antenna

4. Antenna test parameters

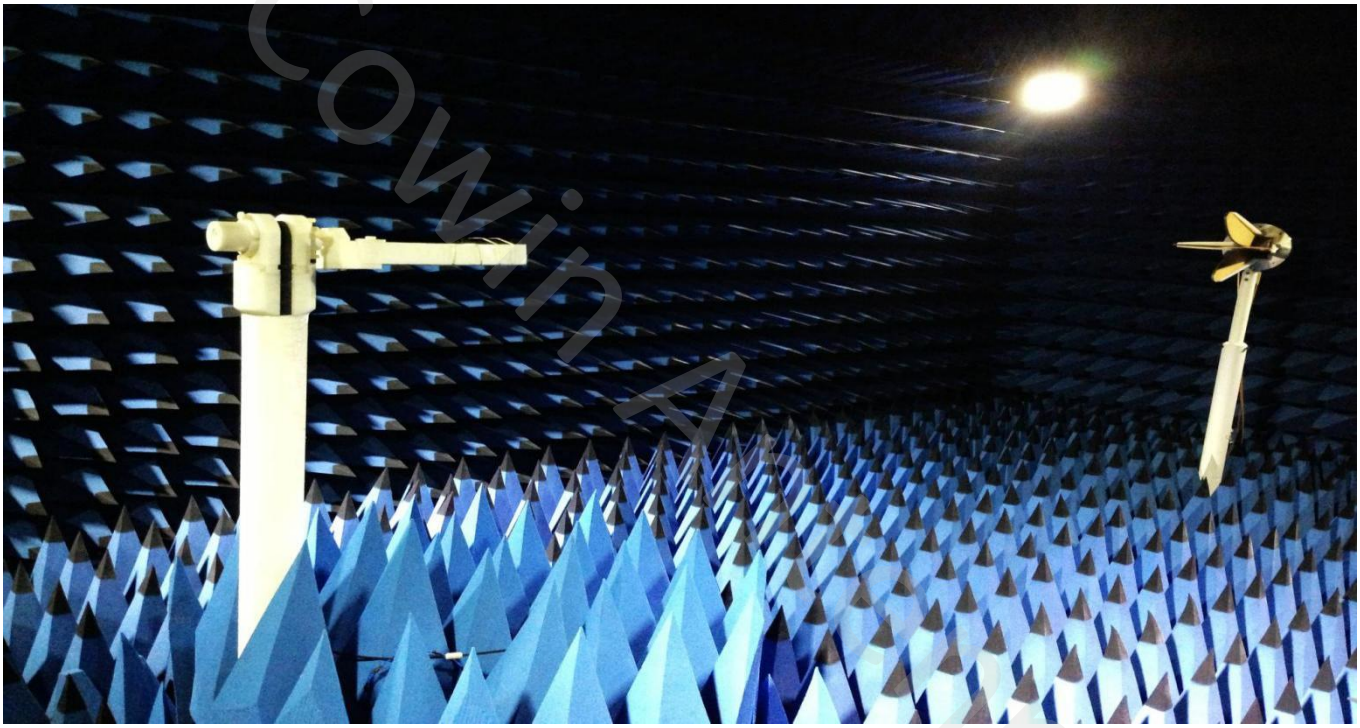
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

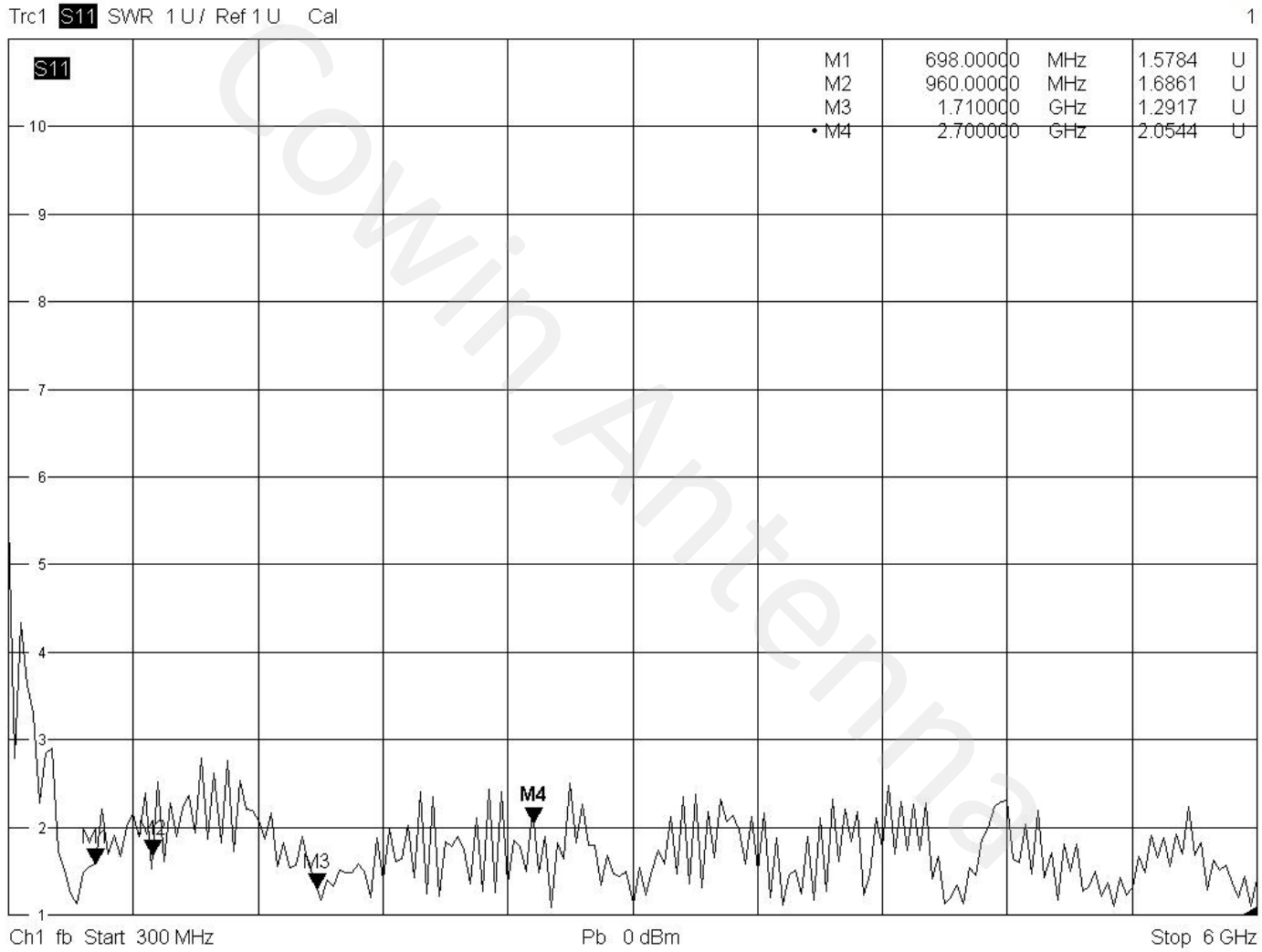
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

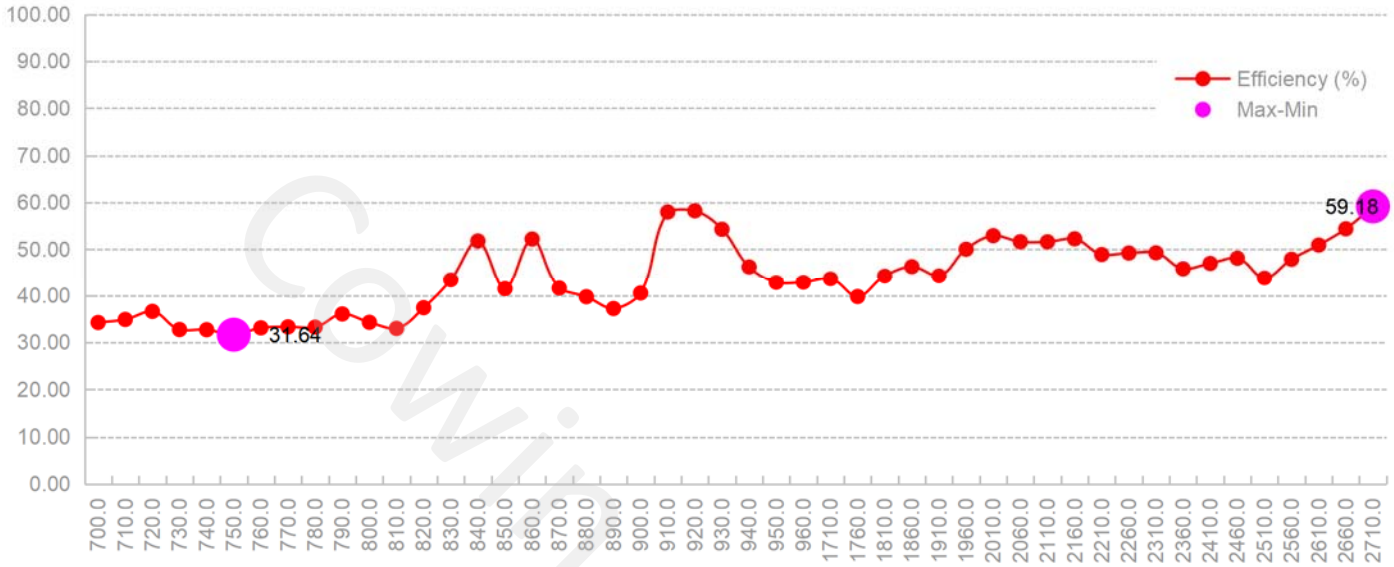
The comprehensive tester is Agilent cmv500



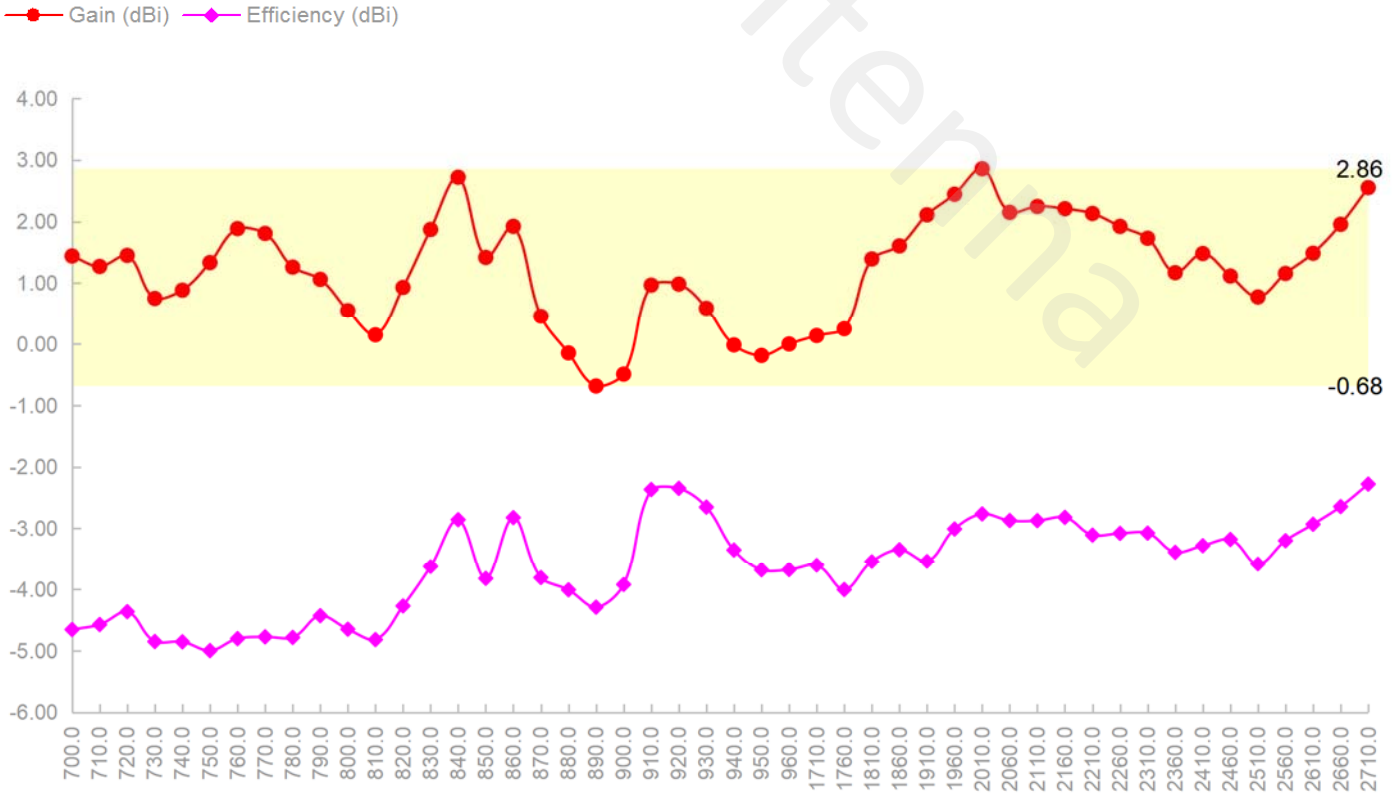
4.1 VSWR



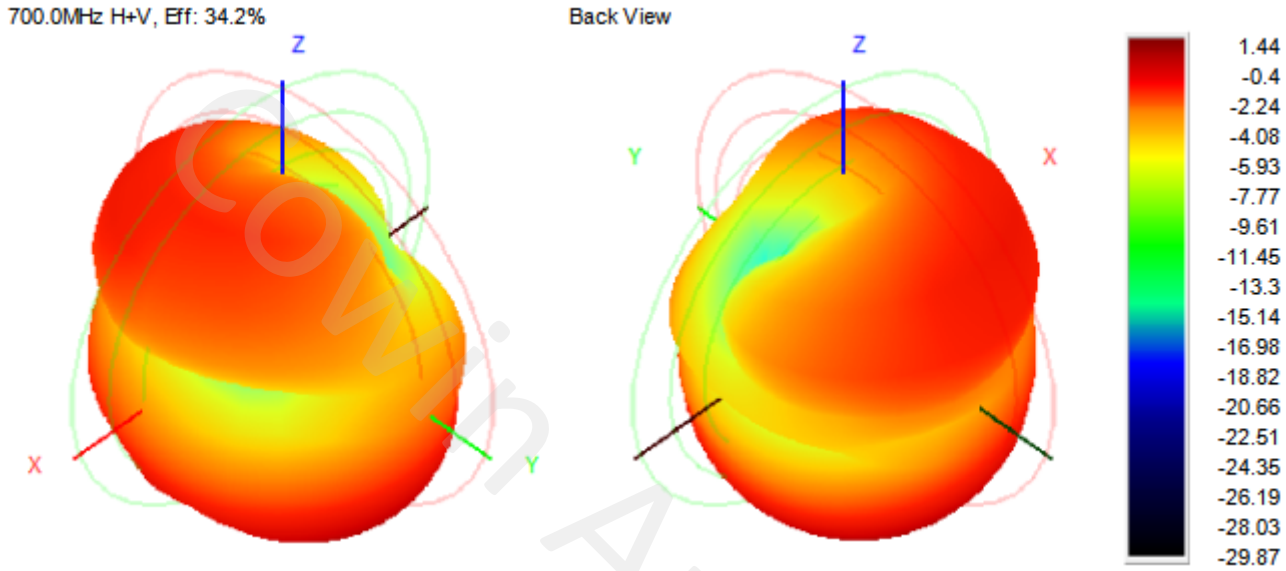
4.2 Efficiency

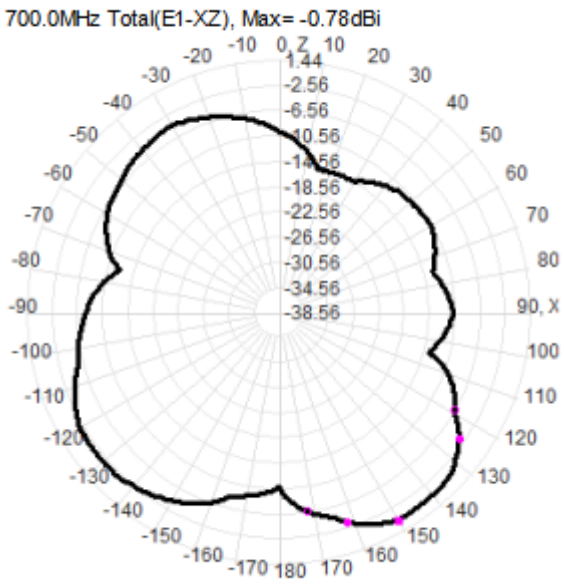


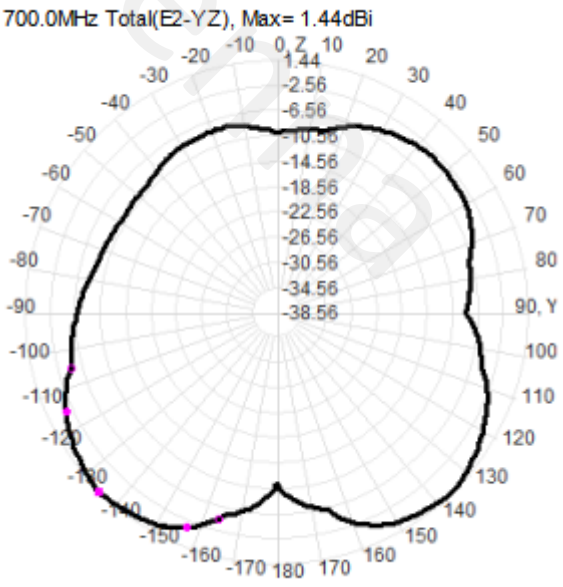
4.3 Peak gain

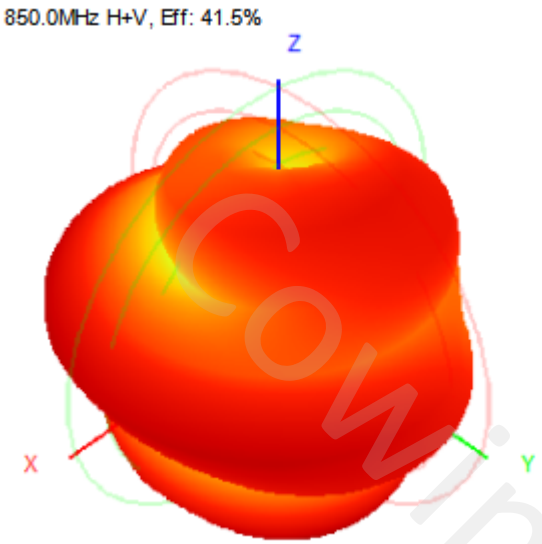


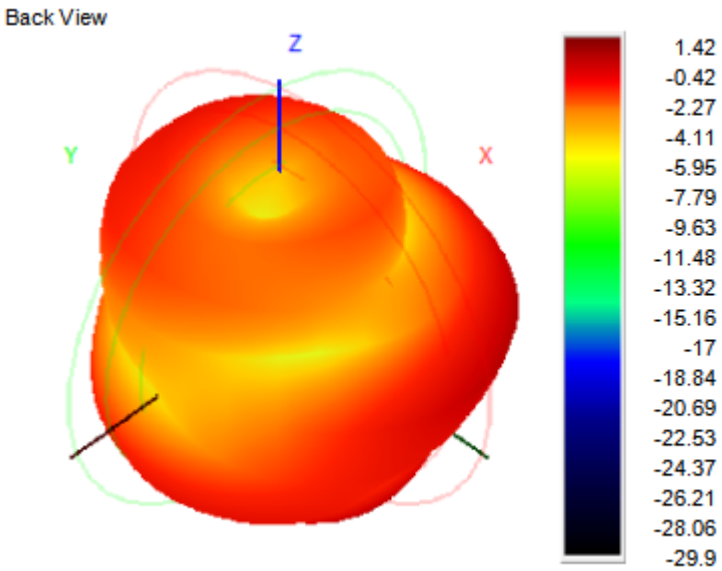
4.4 3D&2D Radiation Patterns

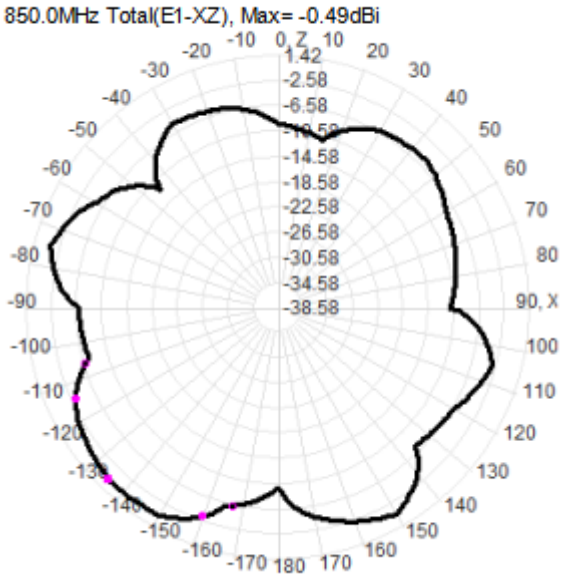


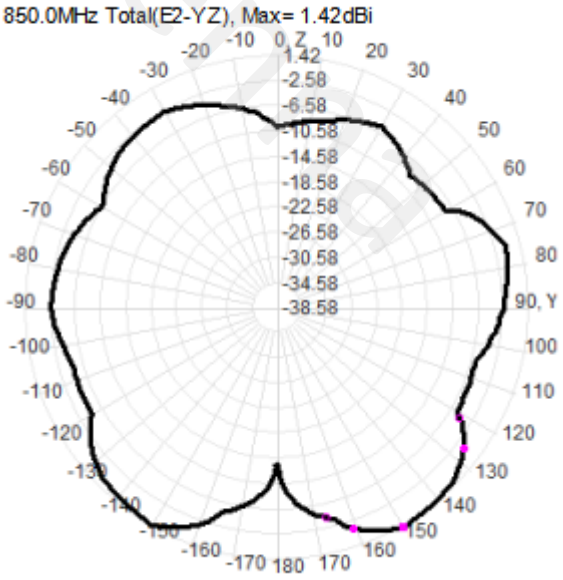




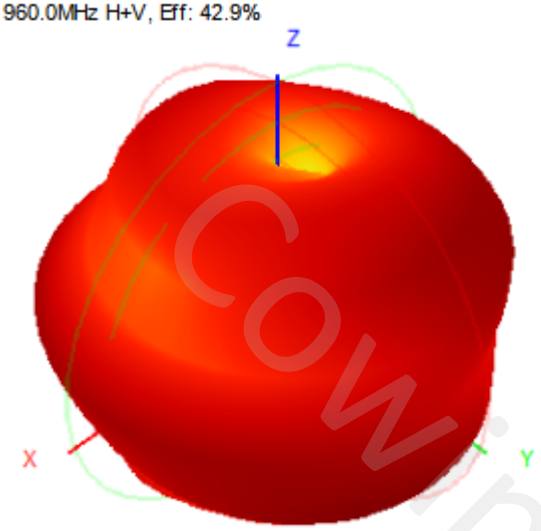




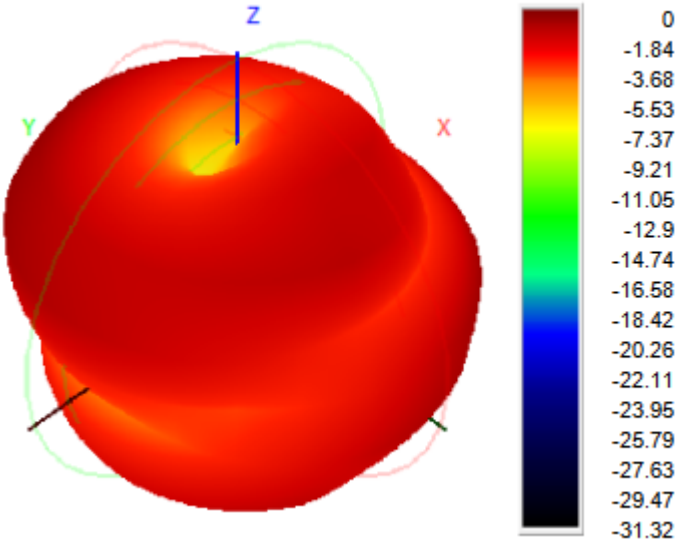




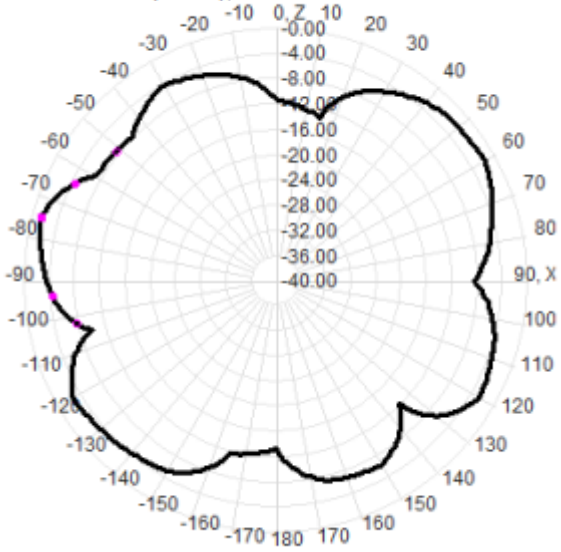
960.0MHz H+V, Eff: 42.9%



Back View



960.0MHz Total(E1-XZ), Max= -1.44dBi



960.0MHz Total(E2-YZ), Max= -0.97dBi