CW-WZ-0205

2.4G External Antenna

Cowin Antenna

Key Features

Frequency: 2400-2500MHz

SMA Male Connector

Dimensions: 69mm

1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2400-2500
VSWR	≤2.0
Efficiency (%)	61.85
Peak Gain (dBi)	2.29
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10

2. Material and environmental characteristics

External Structure	PC+PBT / TPEE
Inner Structure	Signal lever+Signal tube
Cable Type	RG178 Silver tin cable
Connector Type	SMA Male
Dimensions (mm)	69
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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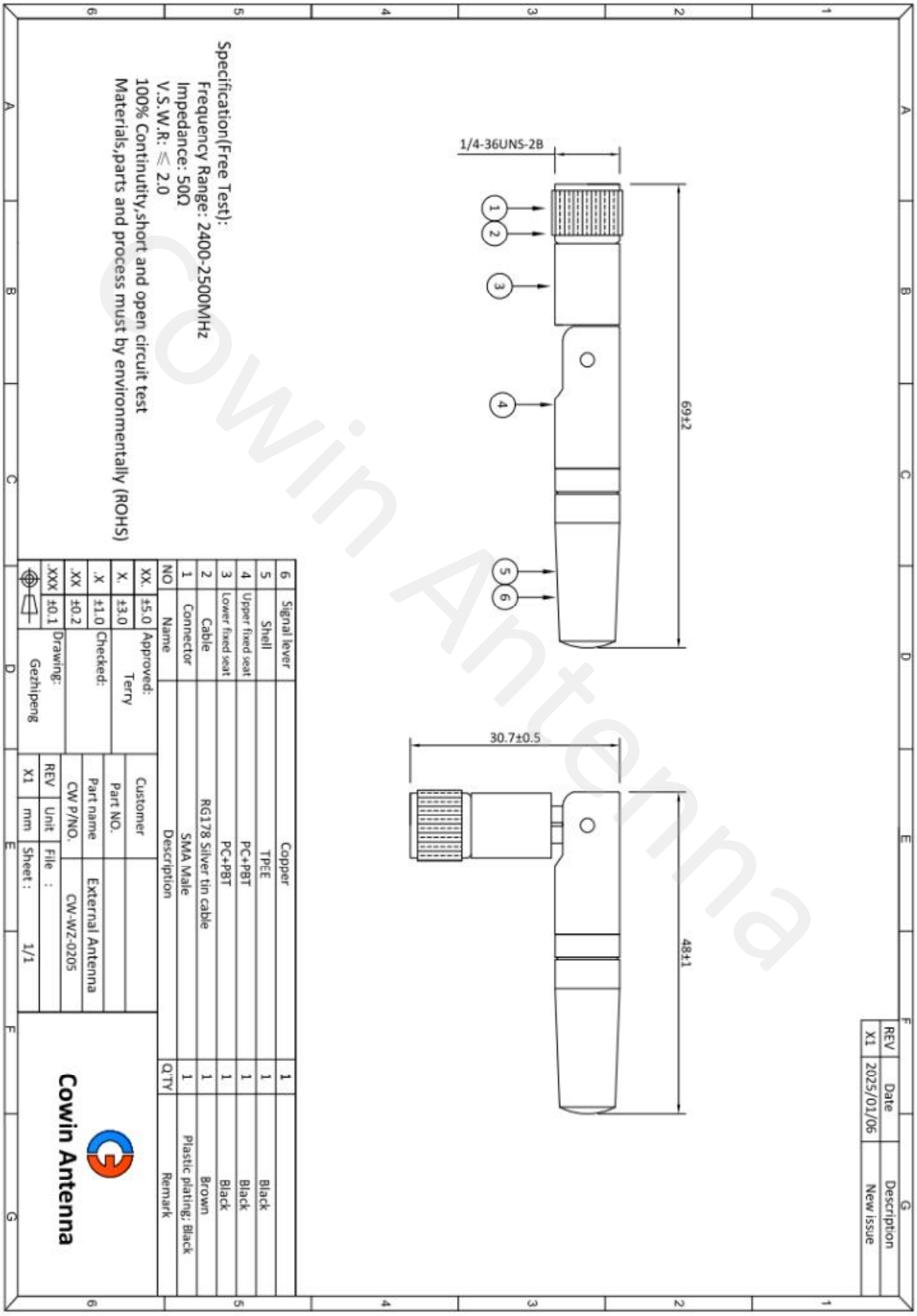

Specification(Free Test):
Frequency Range: 2400-2500MHz
Impedance: 50Ω
V.S.W.R: ≤ 2.0
100% Continuity,short and open circuit test
Materials,parts and process must by environmentally (ROHS)

NO	Name	Description	Q'TY	Remark
6	Signal lever	Copper	1	
5	Shell	TPEE	1	Black
4	Upper fixed seat	PC+PBT	1	Black
3	Lower fixed seat	PC+PBT	1	Black
2	Cable	RG178 Silver tin cable	1	Brown
1	Connector	SMA Male	1	Plastic plating; Black

REV	Date	Description
X1	2025/01/06	New issue

XX.	±5.0	Approved:	Terry
X.	±3.0		
.X	±1.0	Checked:	
.XX	±0.2		
.XXX	±0.1	Drawing:	Gezhipeng

Customer	
Part NO.	
Part name	External Antenna
CW P/NO.	CW-WZ-0205
REV	X1
Unit	mm
File :	
Sheet :	1/1

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4. Antenna test parameters

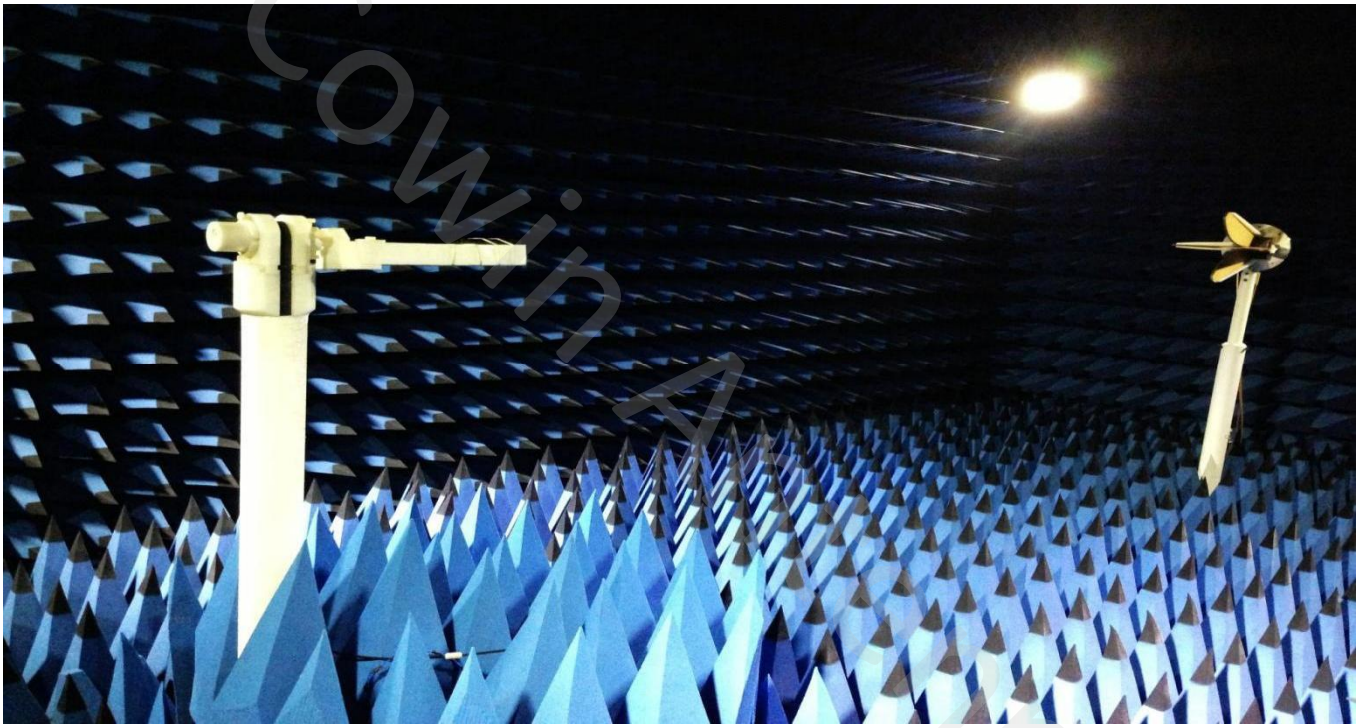
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

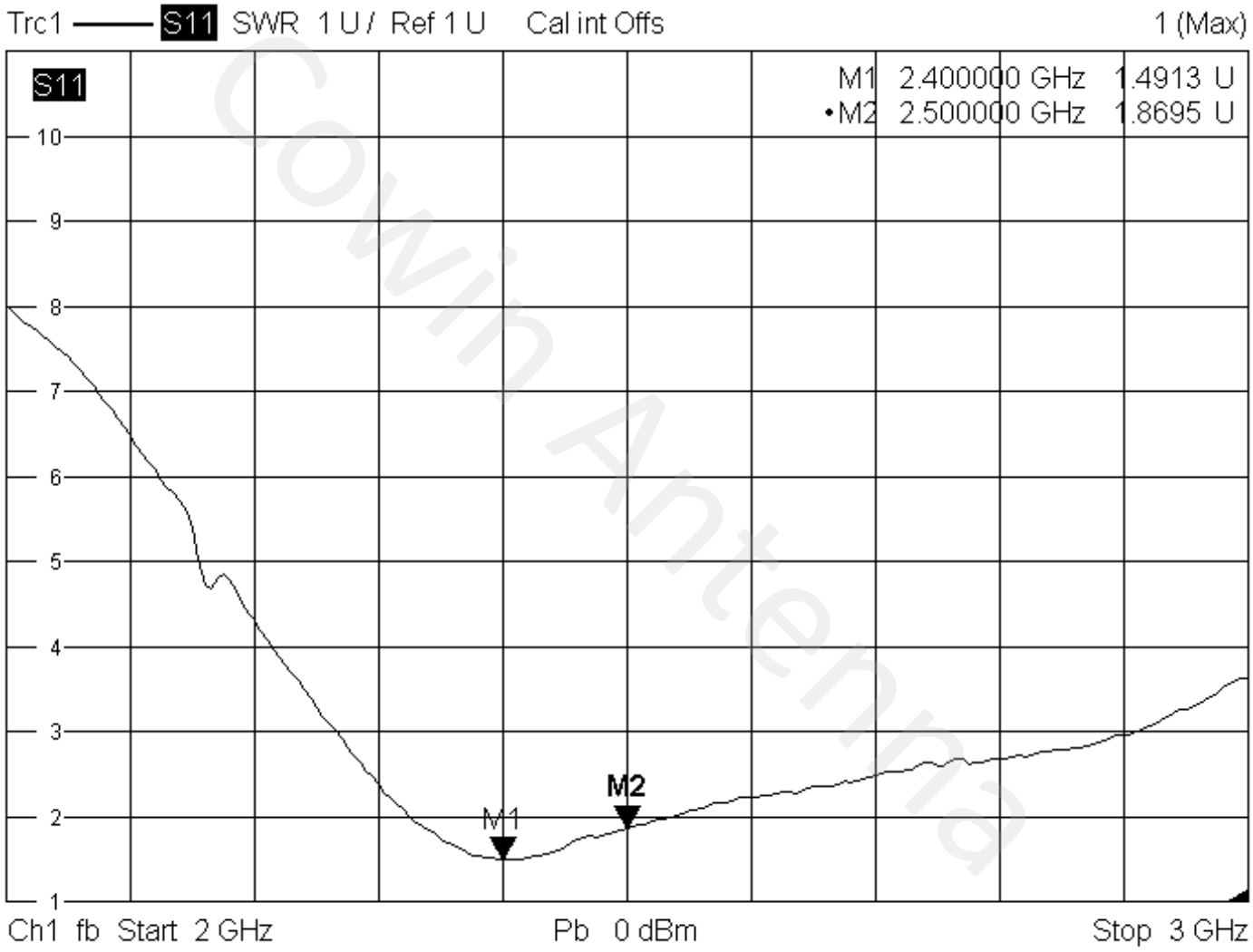
The comprehensive tester is Agilent cmv500







4.1 VSWR



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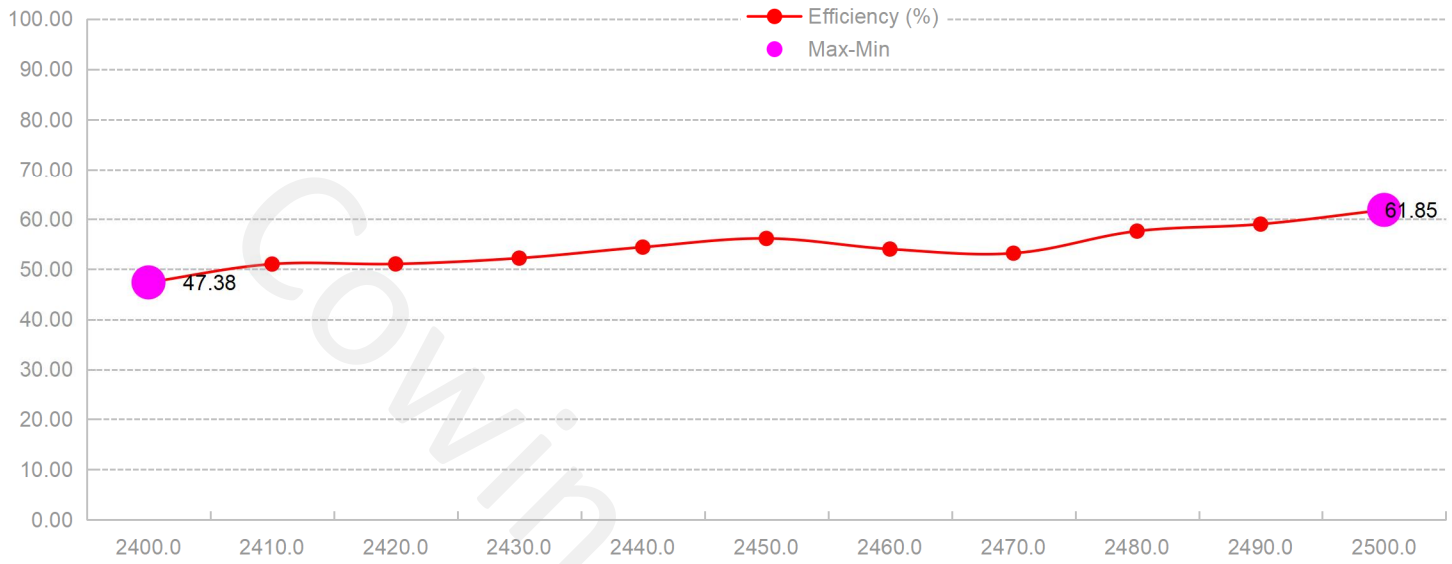
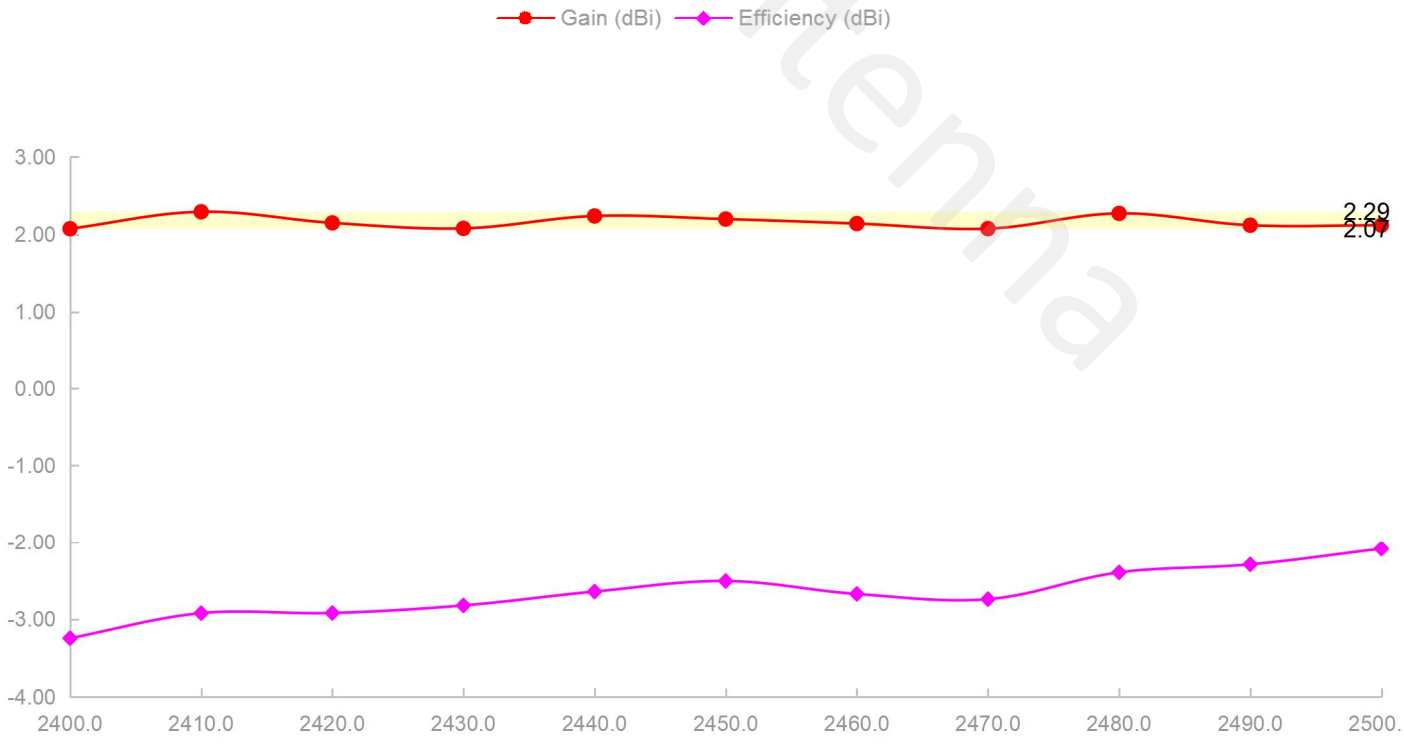
4.2 Efficiency



4.3 Peak gain



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4.4 Data summary

Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	2.07	47.38
2410.0	2.29	51.04
2420.0	2.15	51.07
2430.0	2.08	52.23
2440.0	2.24	54.42
2450.0	2.20	56.15
2460.0	2.14	54.04
2470.0	2.08	53.21
2480.0	2.27	57.61
2490.0	2.12	59.01
2500.0	2.12	61.85

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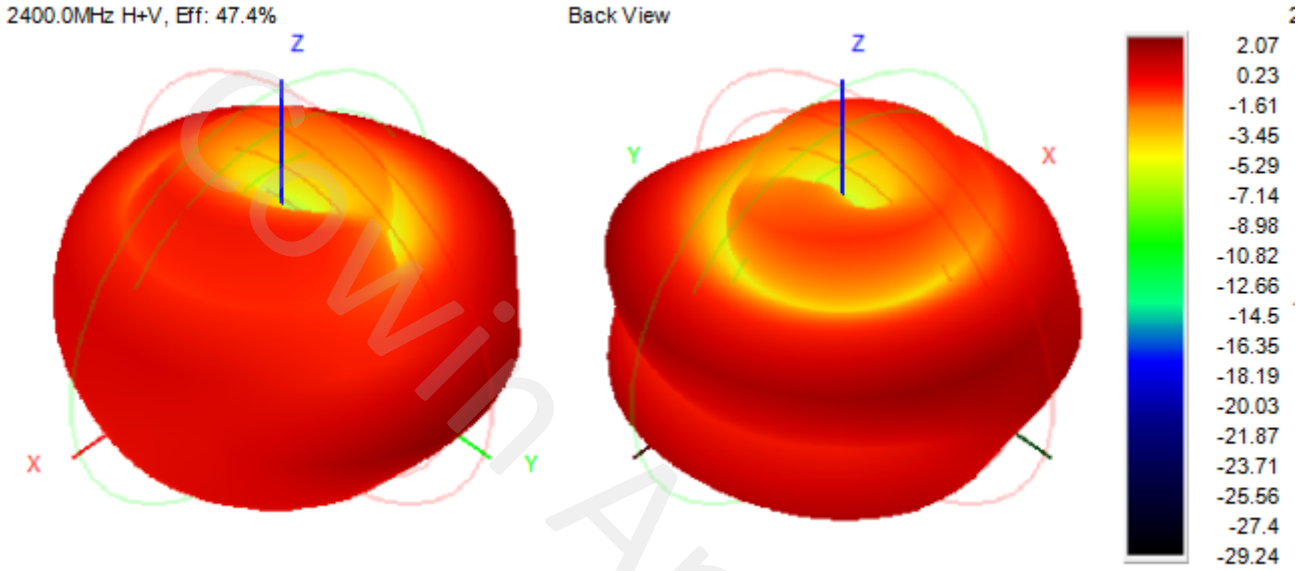
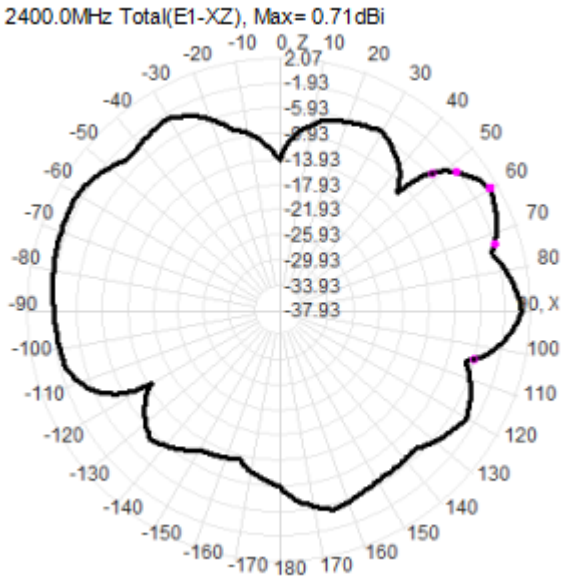
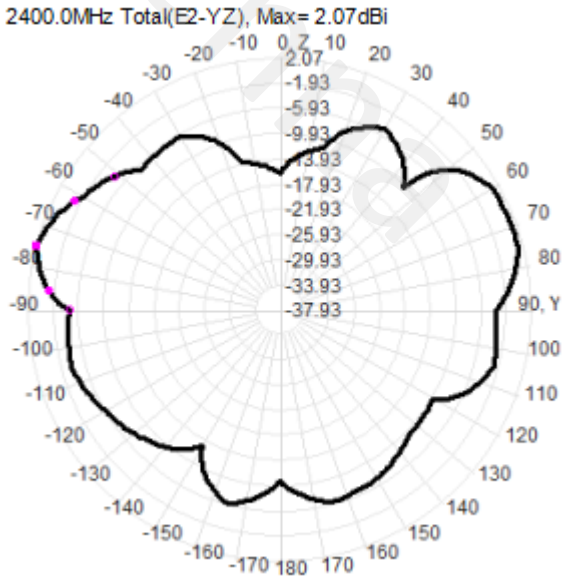
4.5 3D&2D Radiation Patterns







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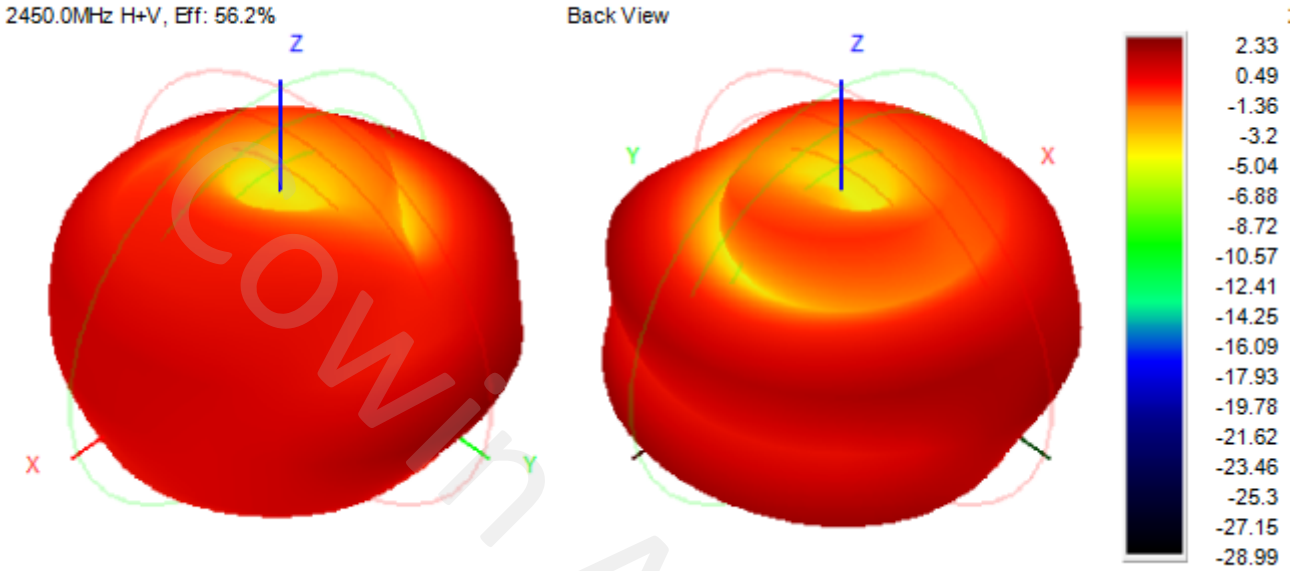

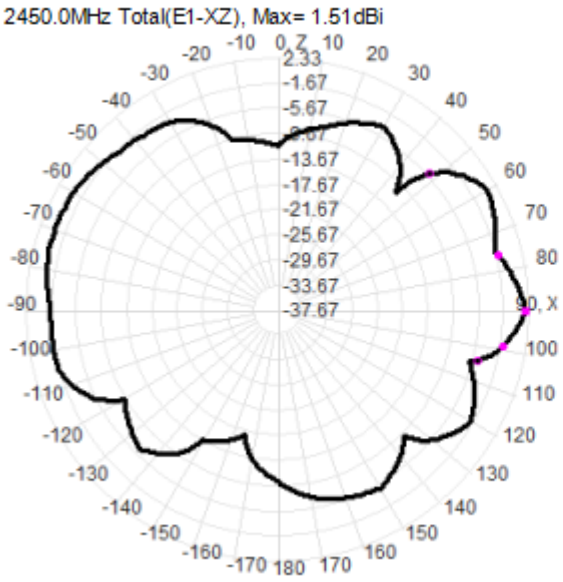

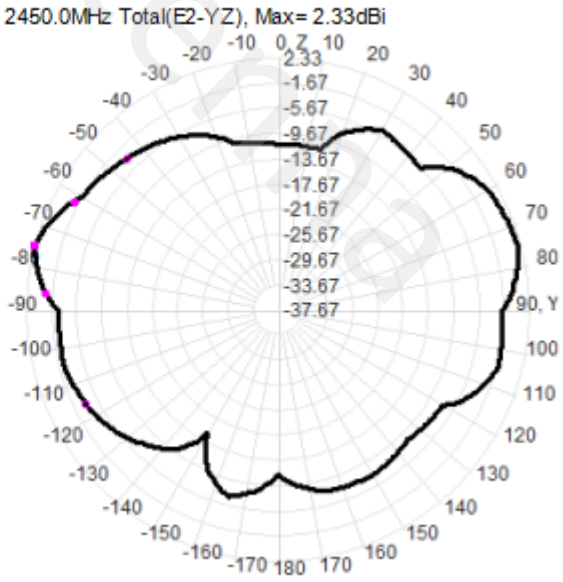

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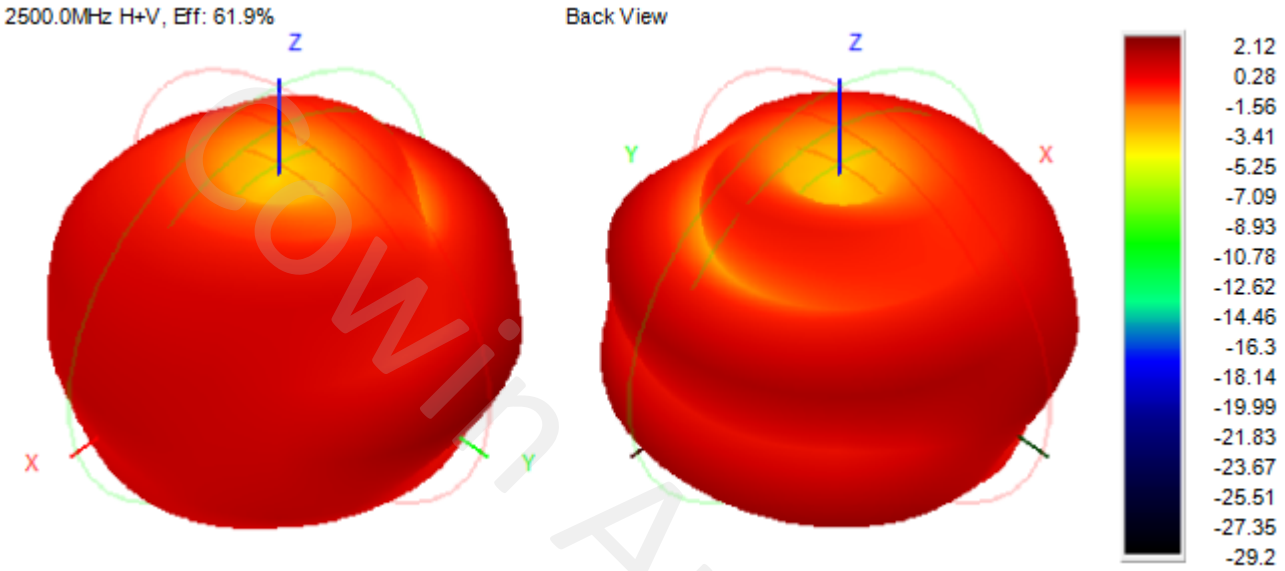

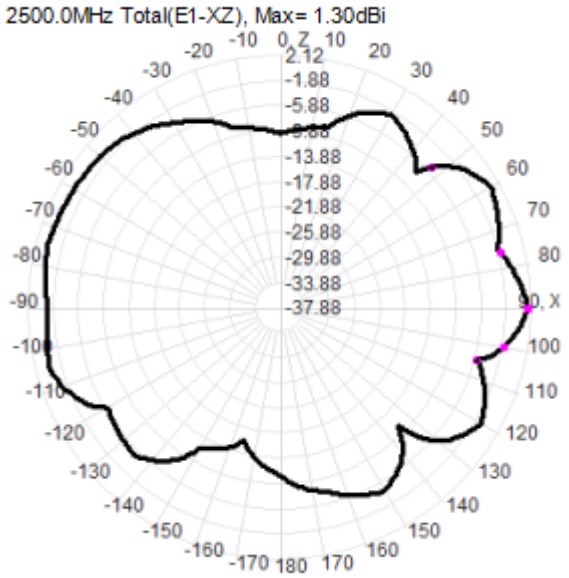

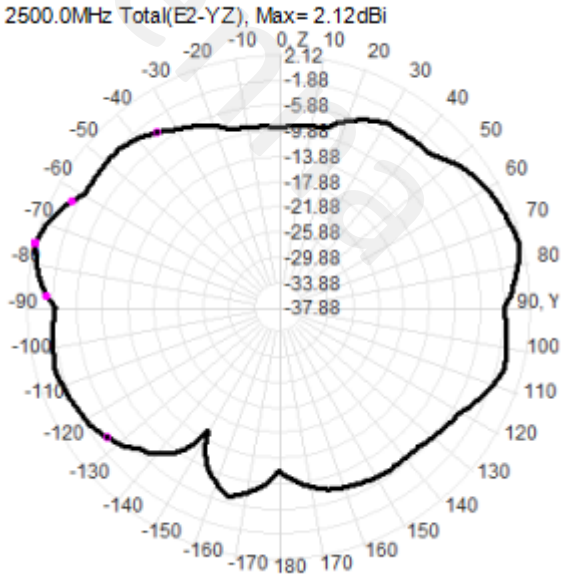

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