Product Datasheet

CW-NZ-0211

2.4G Internal Antenna

Cowin Antenna

Key Features

Frequency: 2.4-2.5G

I-PEX Connector

RF1.13 Cable

Dimensions: 31.6*10.6*0.1mm

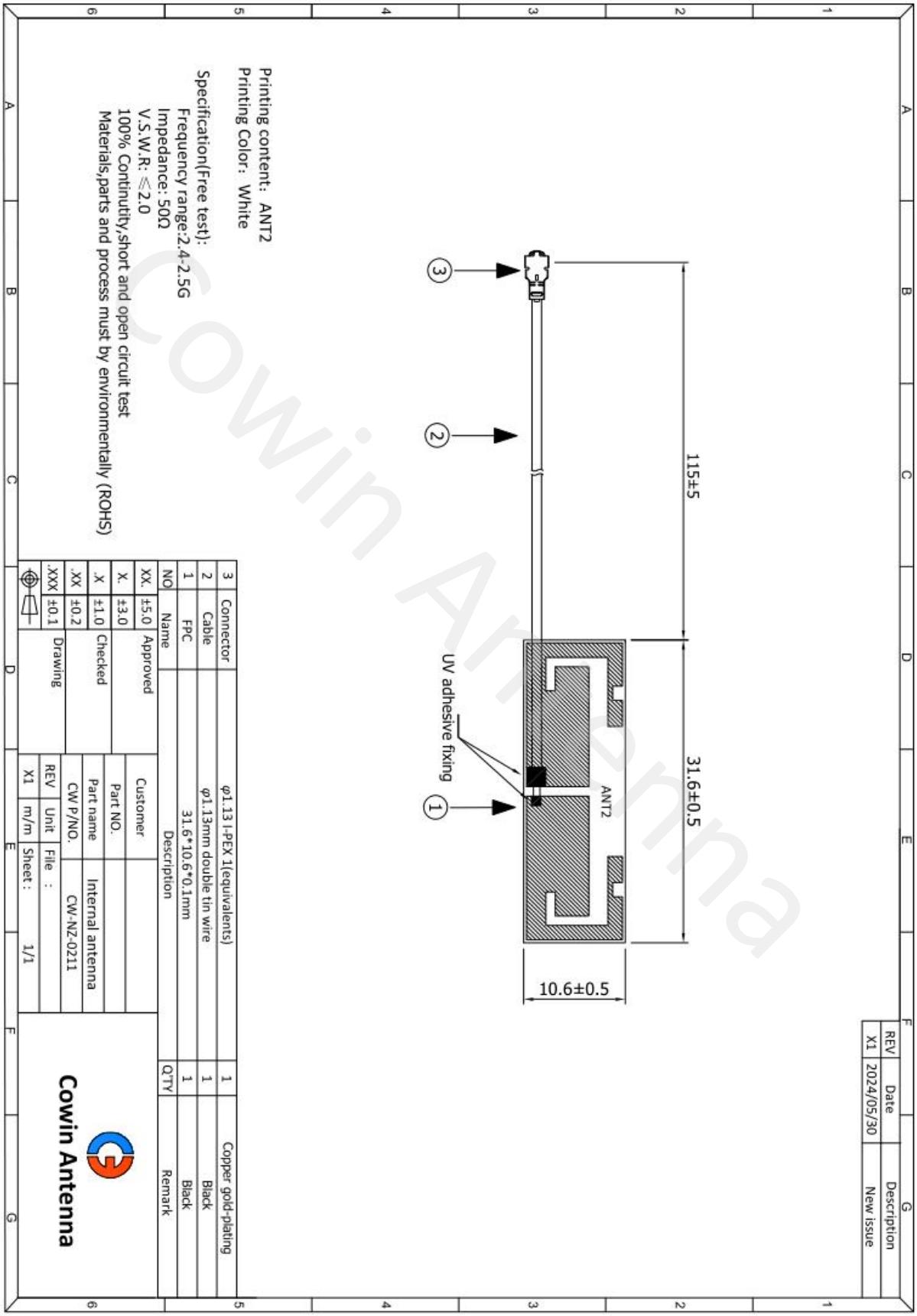
1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2.4-2.5G
VSWR	≤2.0
Efficiency (%)	71.33%
Peak Gain (dBi)	5.00
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)	31.6*10.6*0.1MM
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS

Cowin Antenna



Cowin Antenna

4. Antenna test parameters

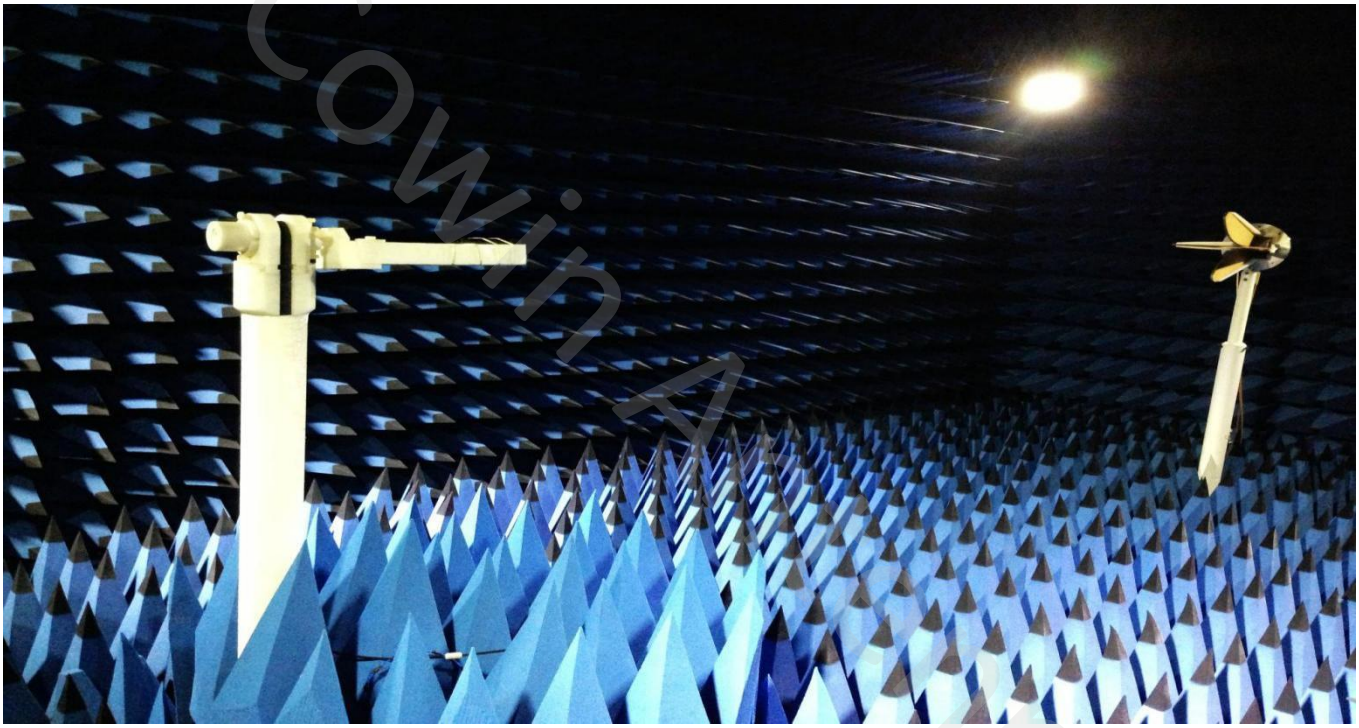
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

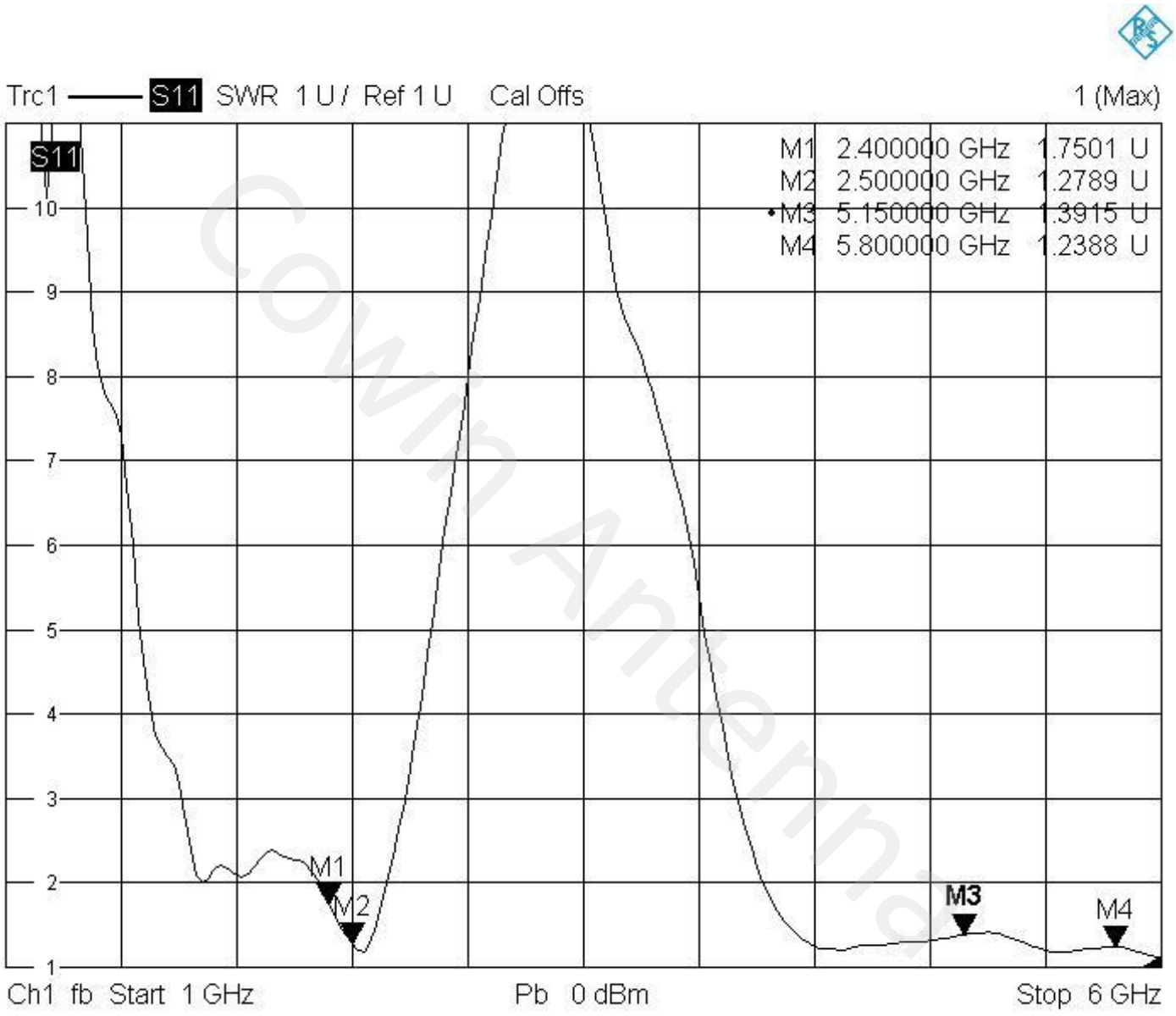
The comprehensive tester is Agilent cmv500





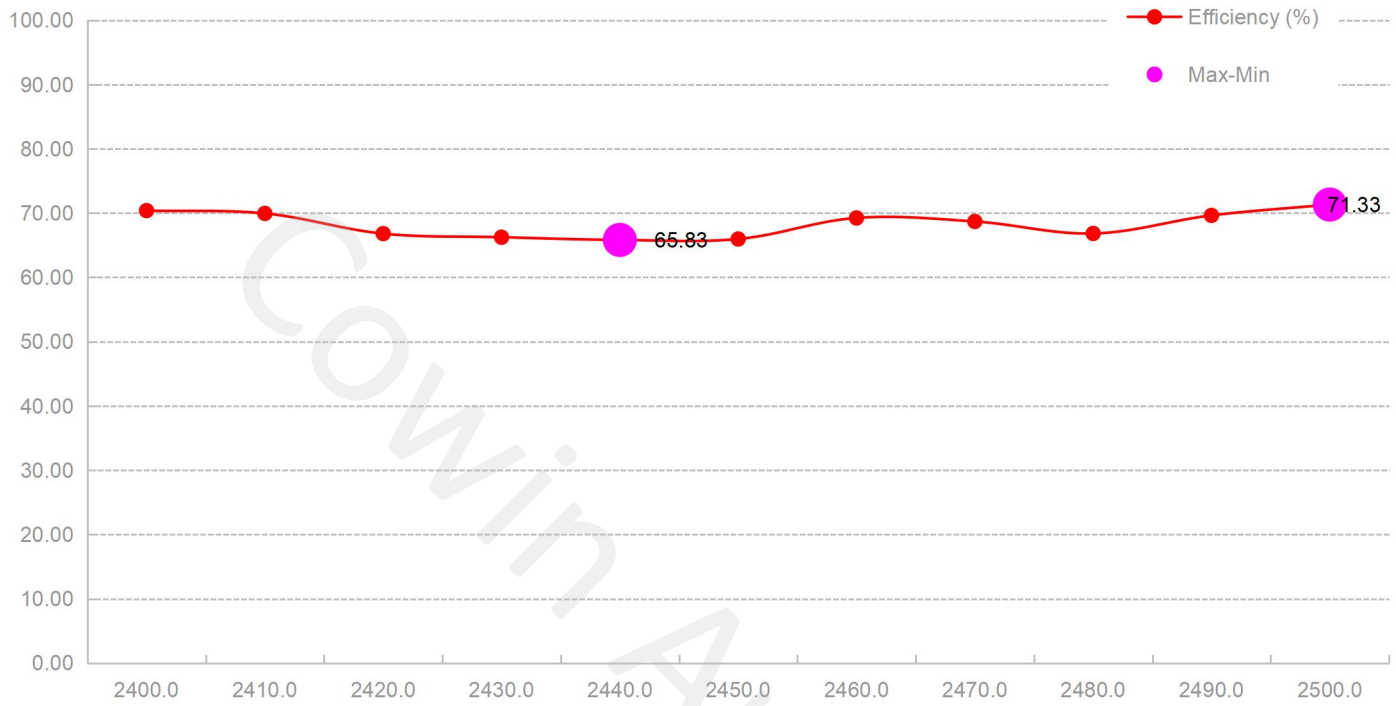


4.1 VSWR

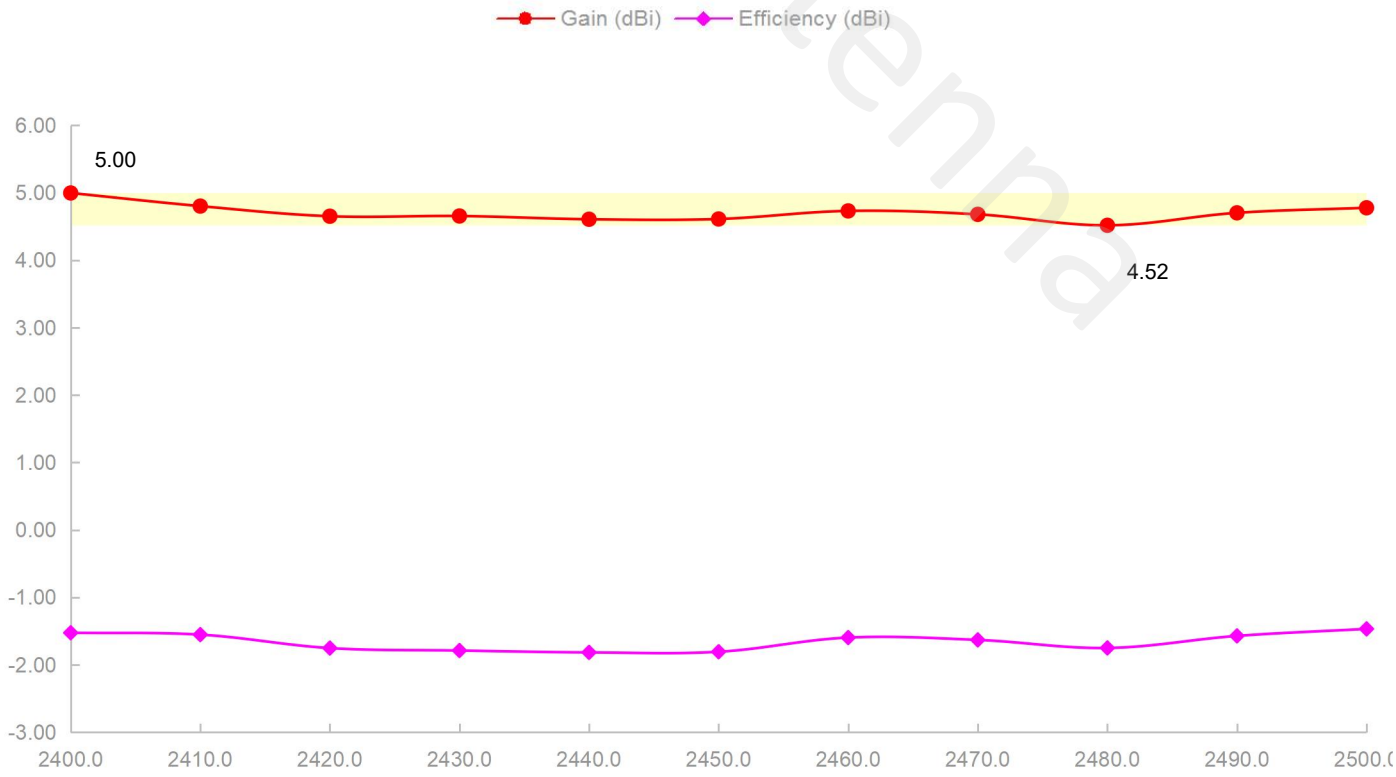


Cowin Antenna

4.2 Efficiency



4.3 Peak gain



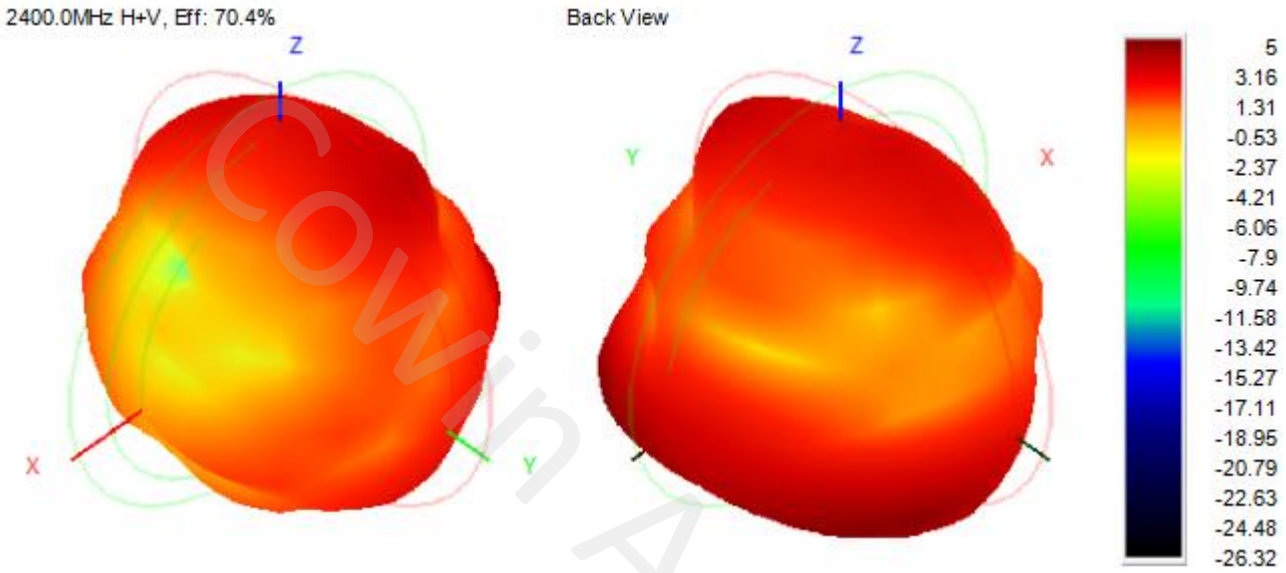
Cowin Antenna

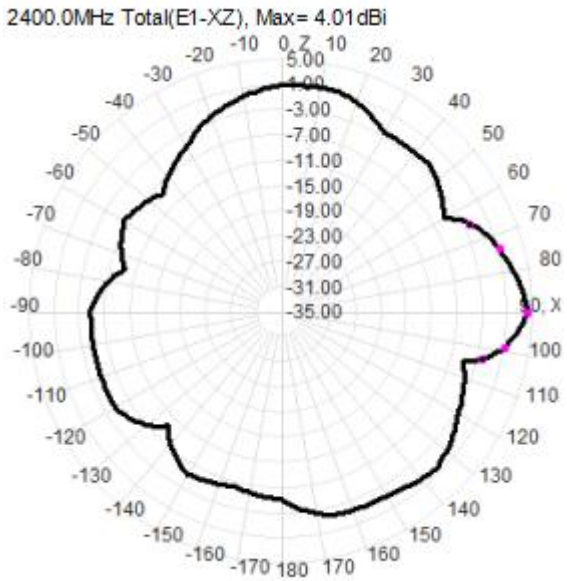
4.4 Data summary

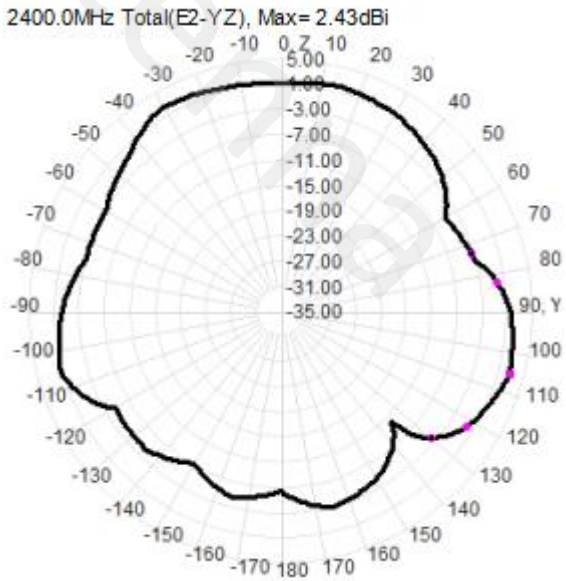
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	5.00	70.39
2410.0	4.80	69.94
2420.0	4.65	66.81
2430.0	4.66	66.25
2440.0	4.61	65.83
2450.0	4.61	65.97
2460.0	4.73	69.24
2470.0	4.68	68.70
2480.0	4.52	66.83
2490.0	4.70	69.64
2500.0	4.78	71.33

Cowin Antenna

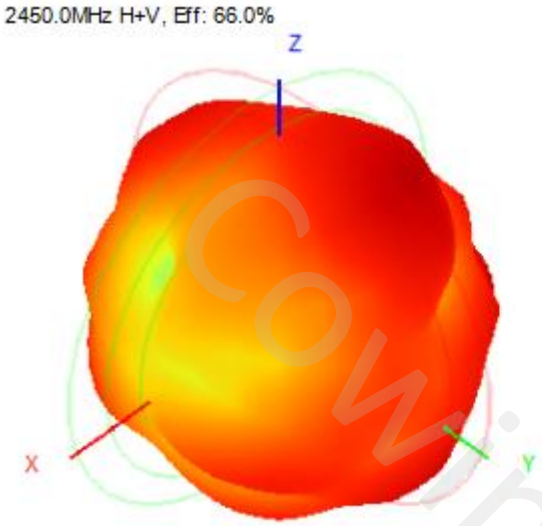
4.5 3D&2D Radiation Patterns

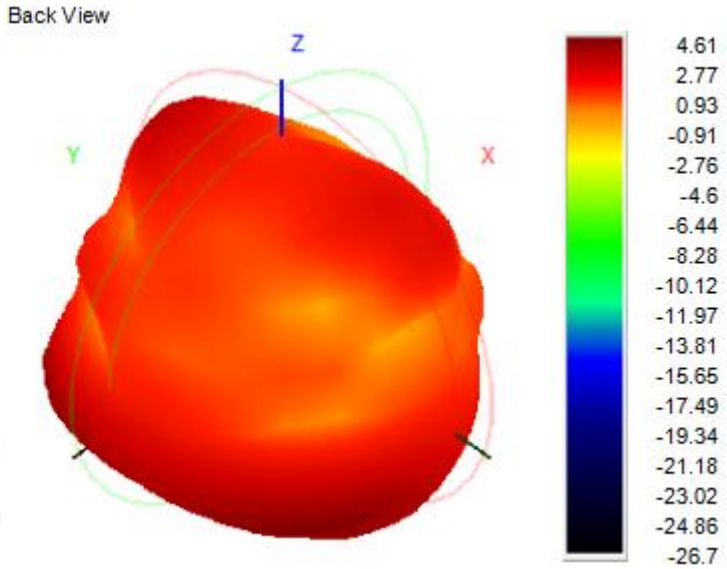


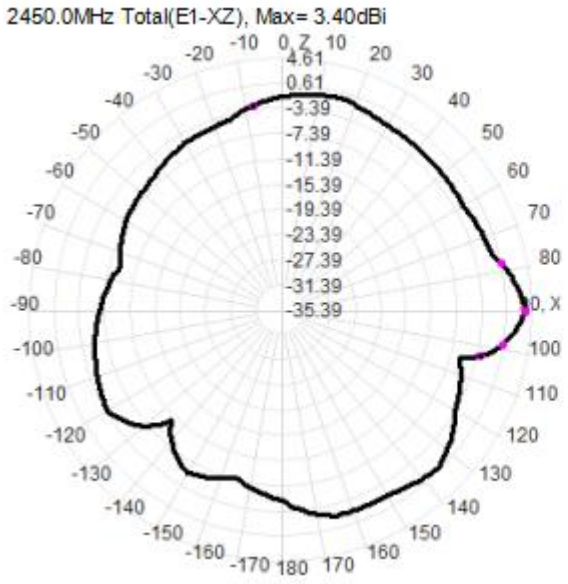


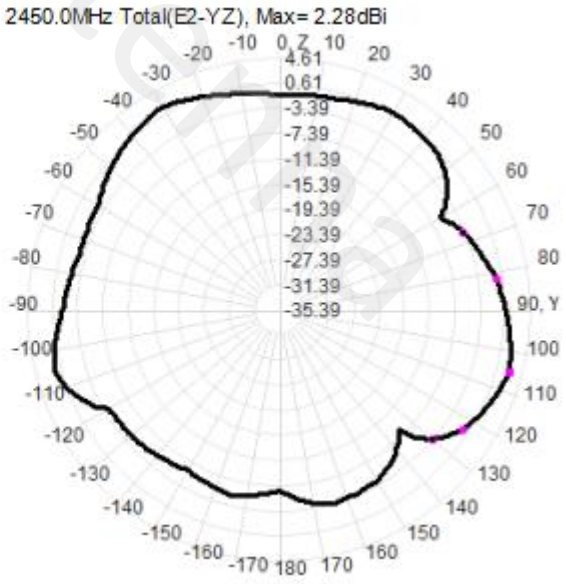


Cowin Antenna

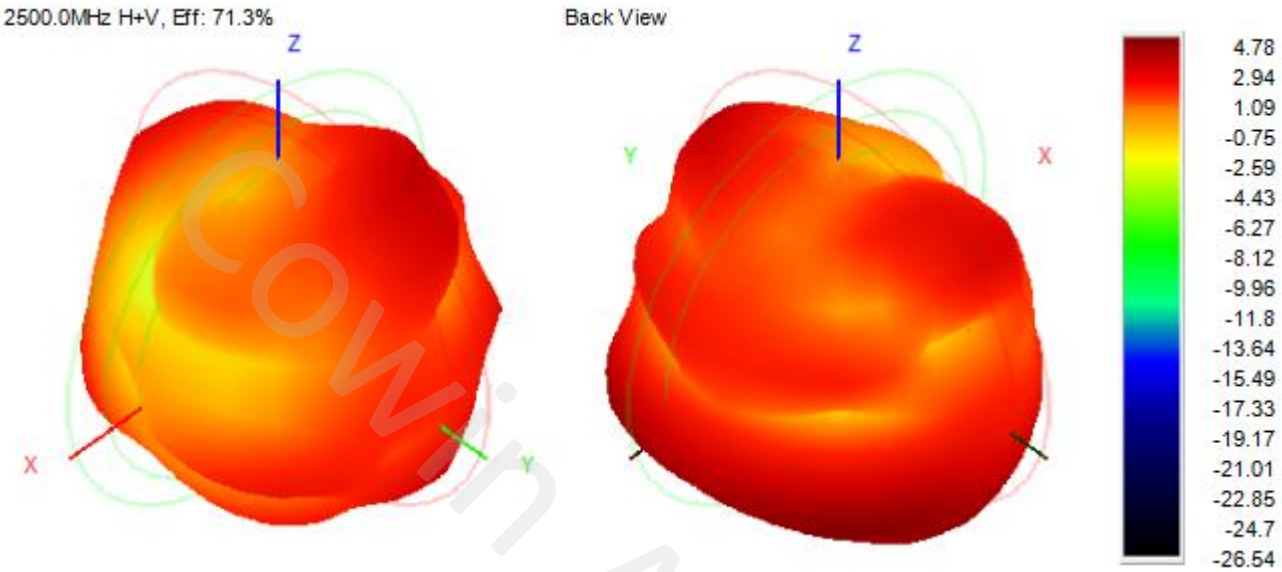


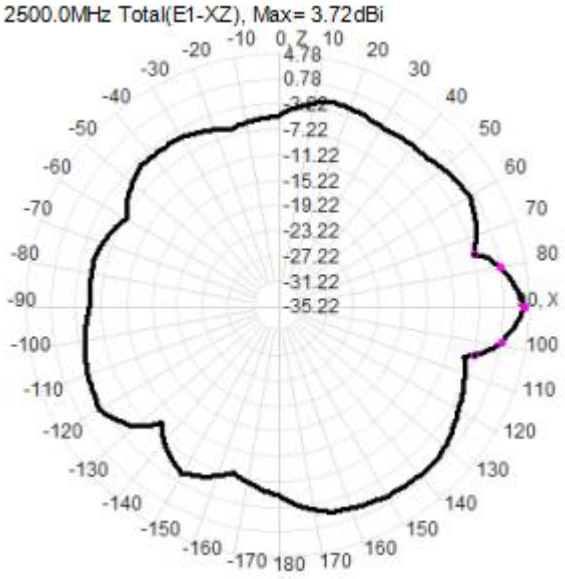


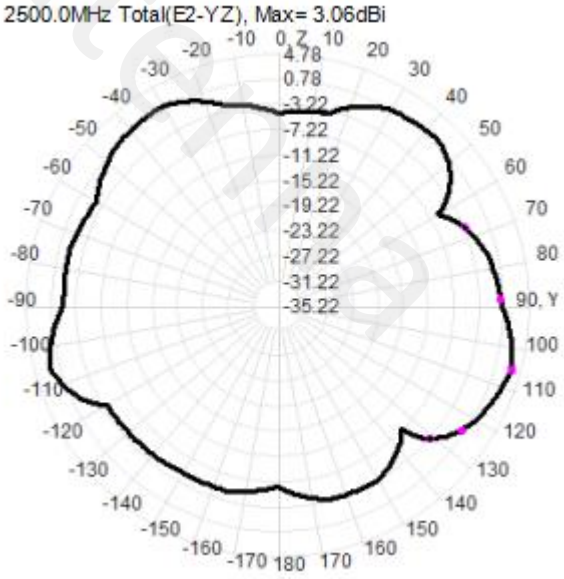




Cowin Antenna







Cowin Antenna