

CW-WZ-0138

2.4G External Antenna

Key Features

Frequency: 2400-2500MHz

SMA Male Connector

Dimensions: 30*14mm

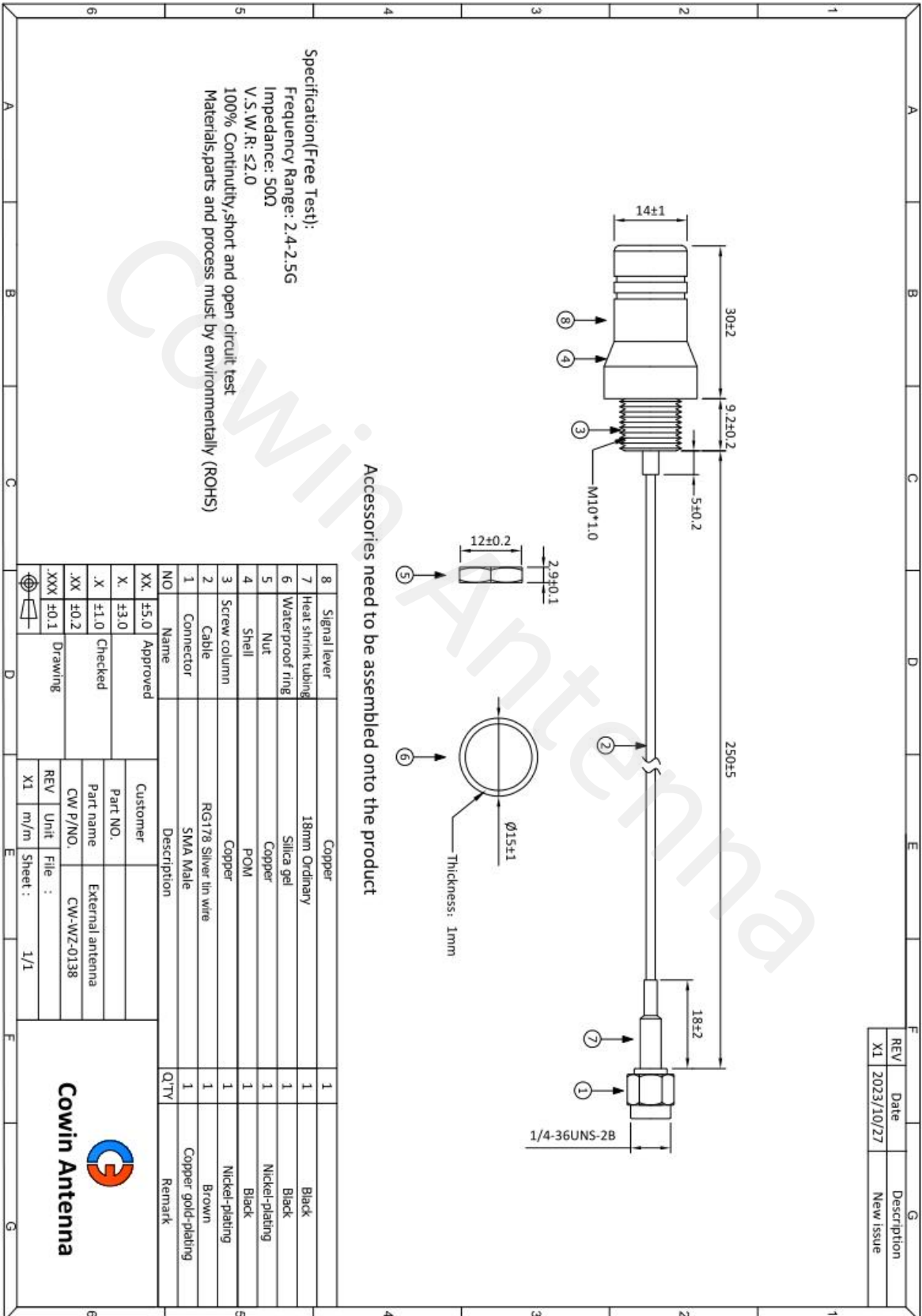


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2400-2500
VSWR	≤2.0
Efficiency (%)	49.93
Peak Gain (dBi)	2.76
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA Male

2. Material and environmental characteristics

External structure	POM
Inner structure	Signal lever
Cable Type	RG 178 Brown
Connector Type	SMA Male
Dimensions (mm)	30*14 mm
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

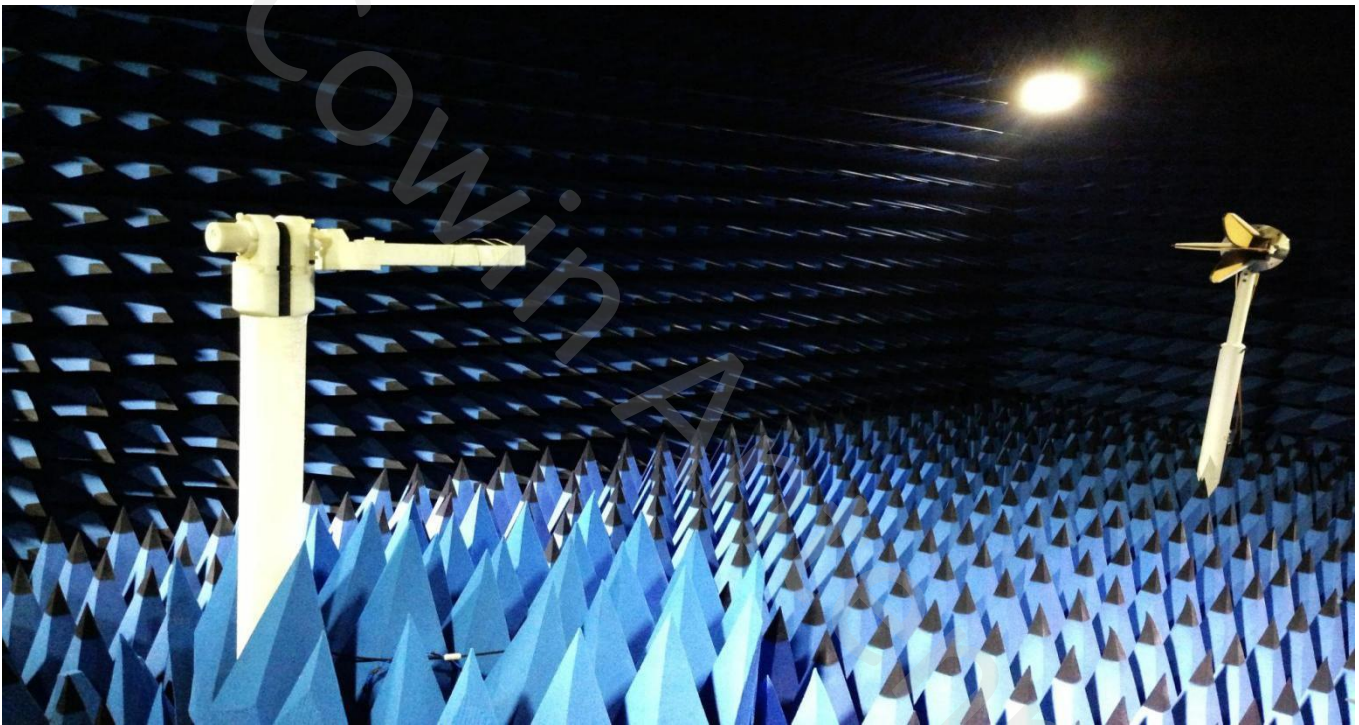
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

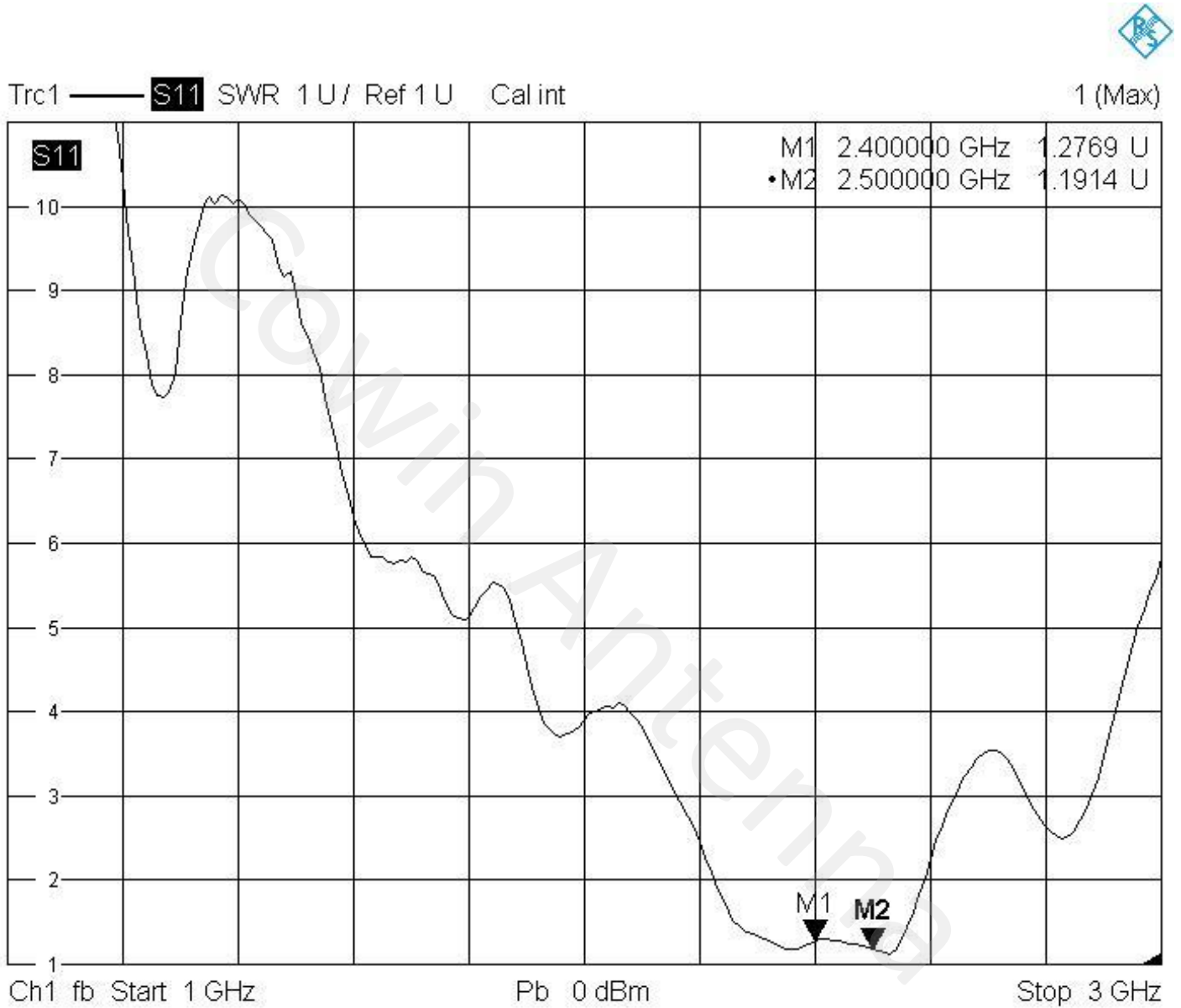
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

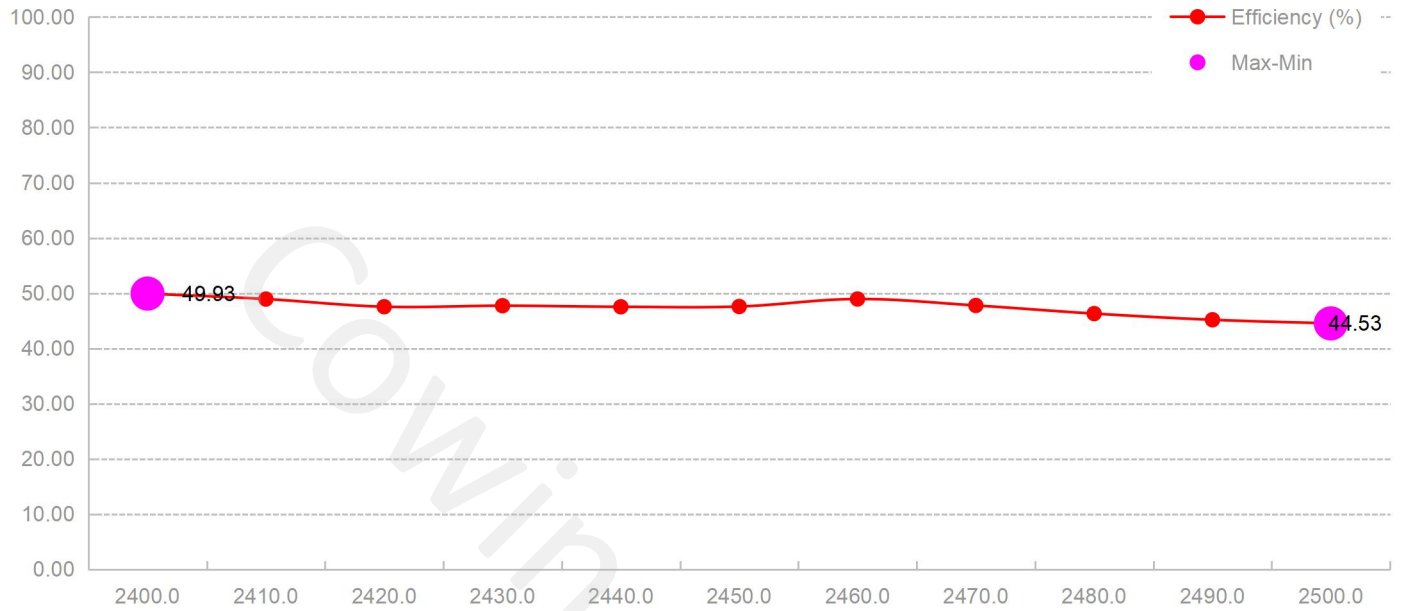
The comprehensive tester is Agilent cmv500



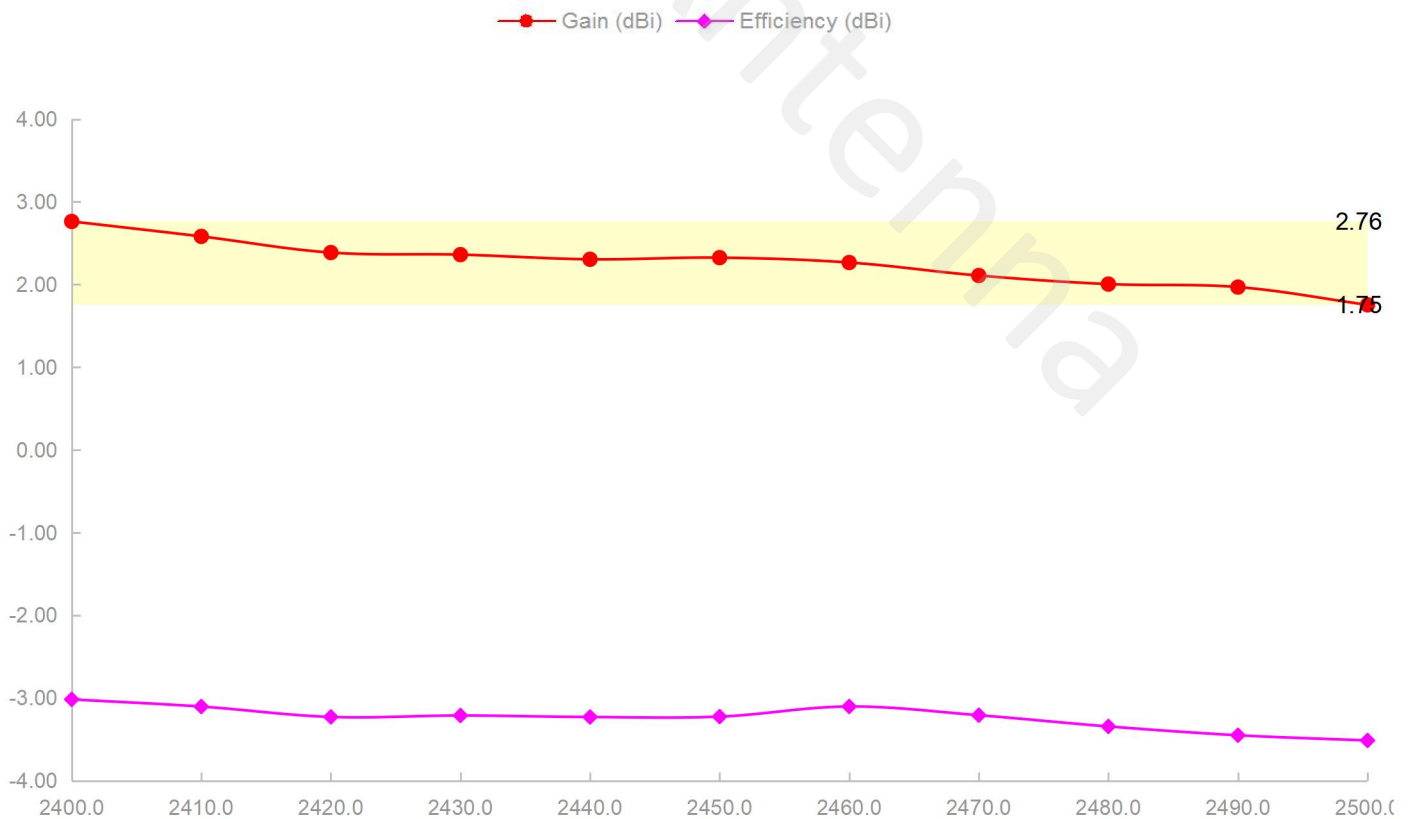
4.1 VSWR



4.2 Efficiency



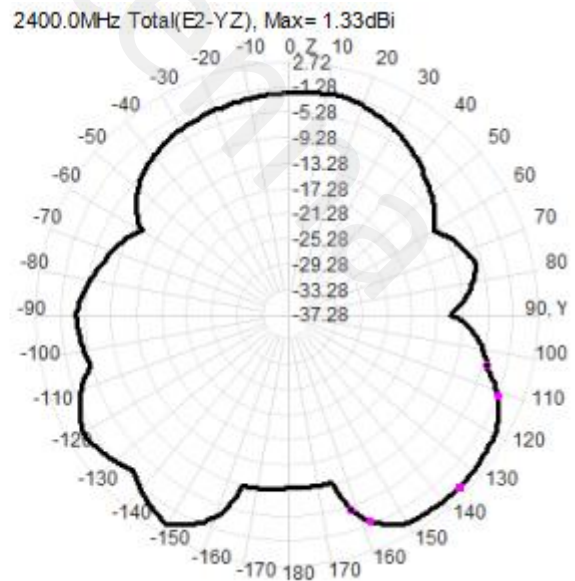
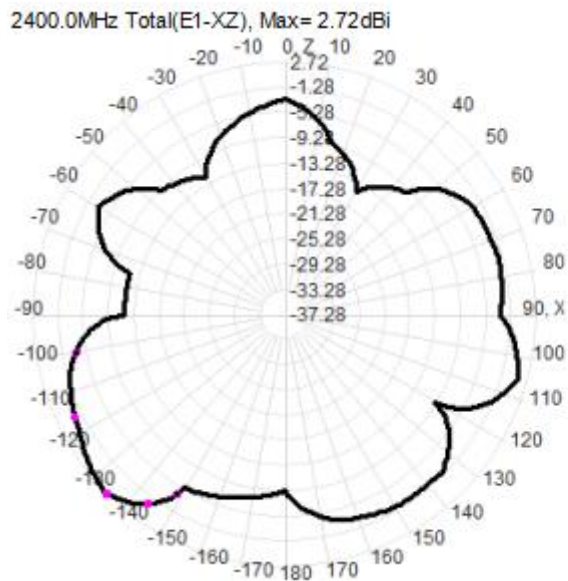
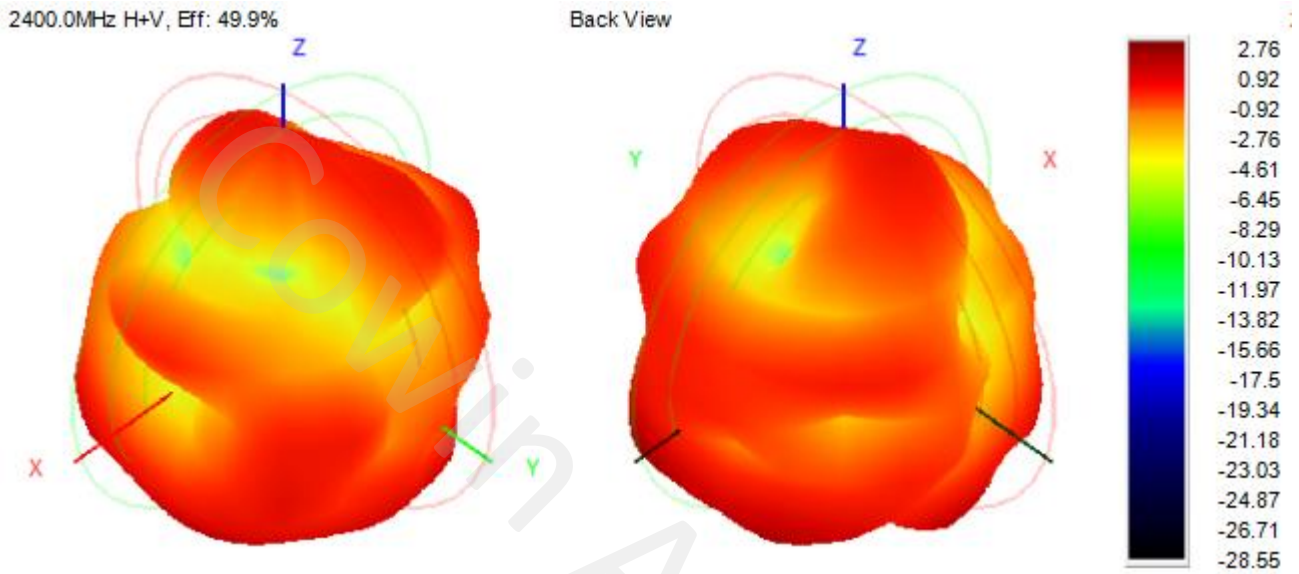
4.3 Peak gain



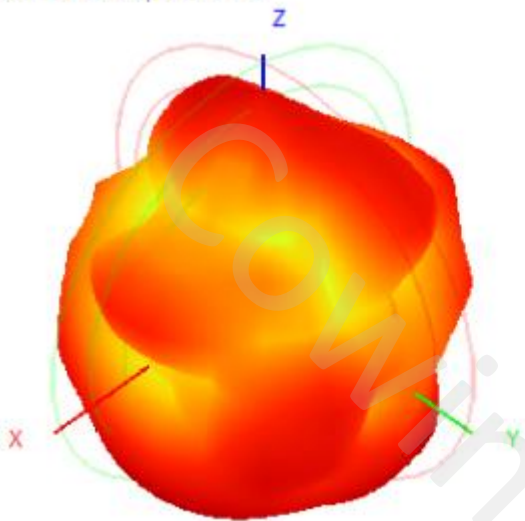
4.4 Data summary

Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400.0	2.76	49.93
2410.0	2.58	48.94
2420.0	2.39	47.55
2430.0	2.36	47.74
2440.0	2.31	47.54
2450.0	2.33	47.59
2460.0	2.27	48.95
2470.0	2.11	47.78
2480.0	2.01	46.31
2490.0	1.97	45.18
2500.0	1.75	44.53

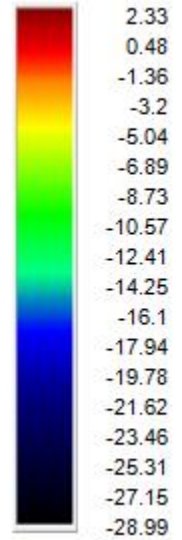
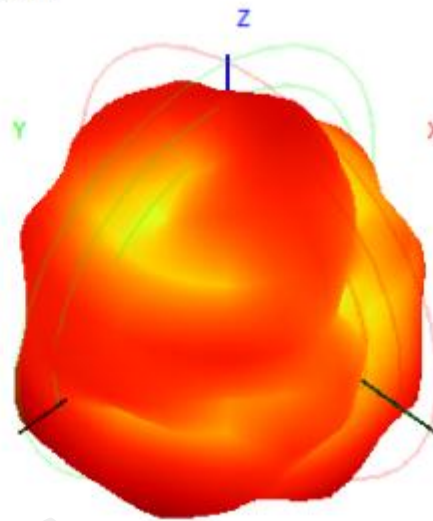
4.5 3D&2D Radiation Patterns



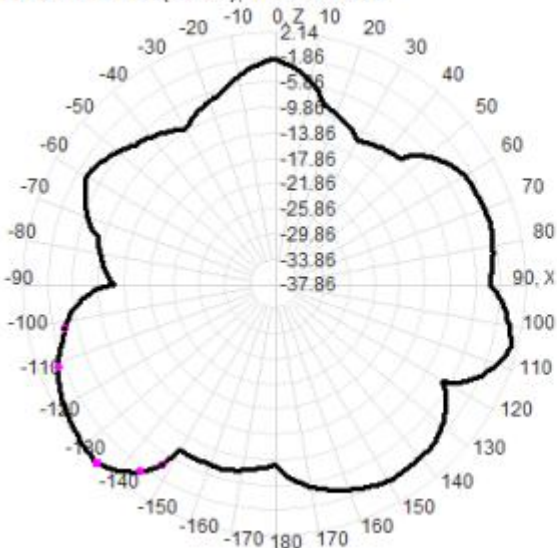
2450.0MHz H+V, Eff: 47.6%



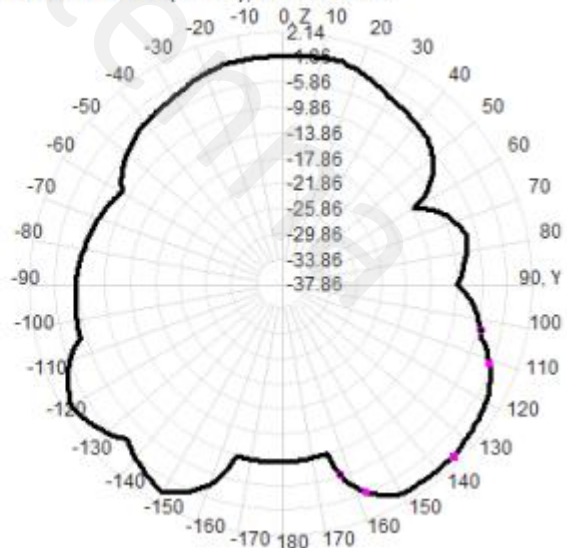
Back View



2450.0MHz Total(E1-XZ), Max= 2.14dBi

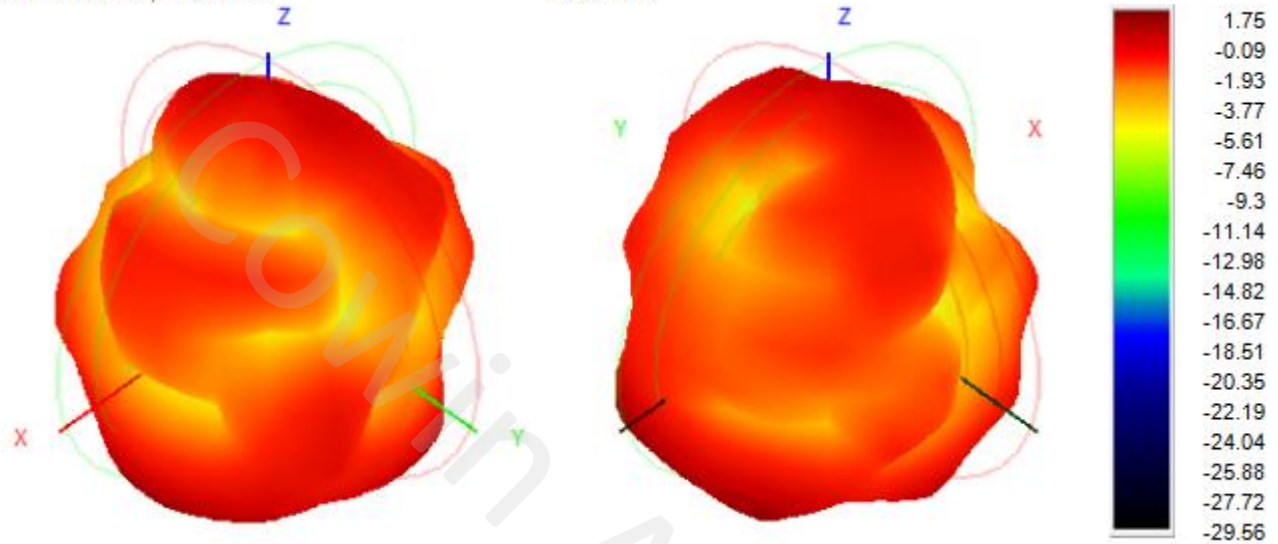


2450.0MHz Total(E2-YZ), Max= 0.66dBi



2500.0MHz H+V, Eff: 44.5%

Back View



2500.0MHz Total(E1-XZ), Max= 1.29dBi

2500.0MHz Total(E2-YZ), Max= 0.29dBi

