

CW-NZ-0002

2.4G U.FL Antenna

Key Features

Frequency:2.4-2.5G

I-PEX Connector

1.13 Cable

Dimensions 36mm

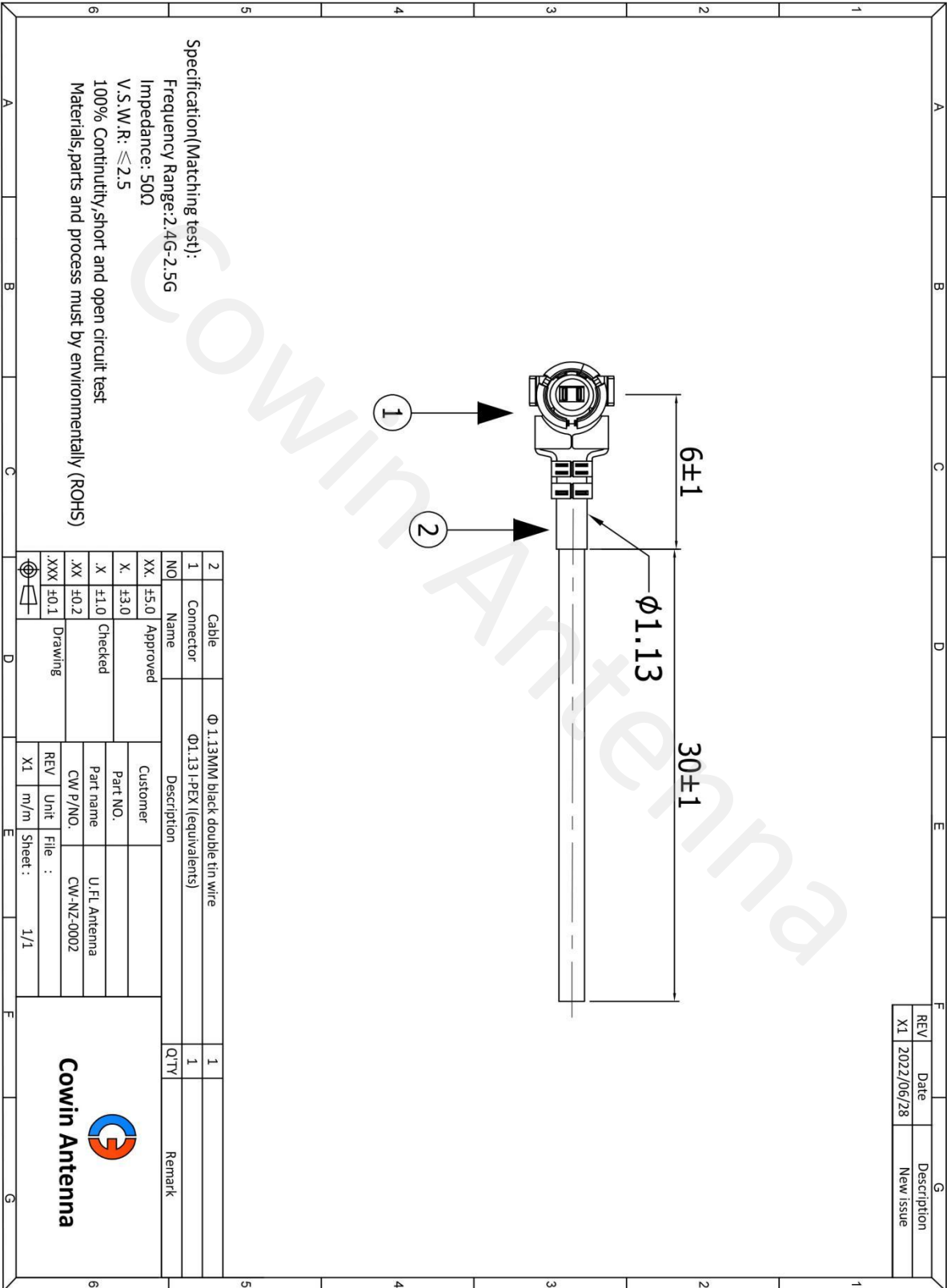


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2.4-2.5G
VSWR	2.5
Efficiency (%)	41.22%
Peak Gain (dBi)	2.19
Impedance (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
Cable Type	RF1.13
Connector Type	I-PEX
Dimensions (mm)	36MM
Antenna color	N/A
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS



Specification(Matching test):
 Frequency Range:2.4G-2.5G
 Impedance: 50Ω
 V.S.W.R: ≤ 2.5
 100% Continuity,short and open circuit test
 Materials,parts and process must by environmentally (ROHS)

2	Cable	Ø 1.13MM black double tin wire	1	
1	Connector	Ø1.13 I-PEX (equivalents)	1	
NO	Name	Description	QTY	Remark
XX: ±5.0	Approved	Customer		
X: ±3.0		Part NO.		
X: ±1.0	Checked	Part name		U.F.I Antenna
.XX: ±0.2		CW/P/NO.		CW-NZ-0002
XXX: ±0.1	Drawing	REV	Unit	File :
		X1	m/m	Sheet :
				1/1

REV	Date	Description
X1	2022/06/28	New issue

4. Antenna test parameters

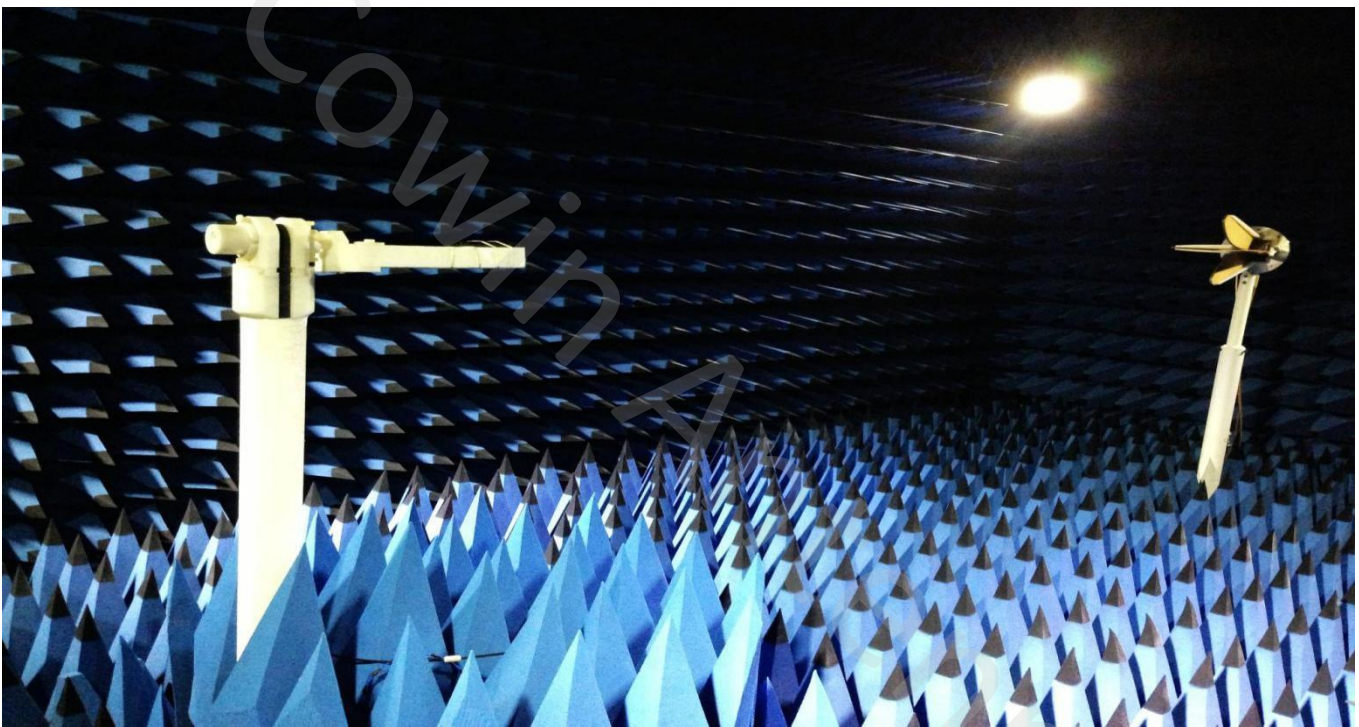
Antenna Measurement Conditions:

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

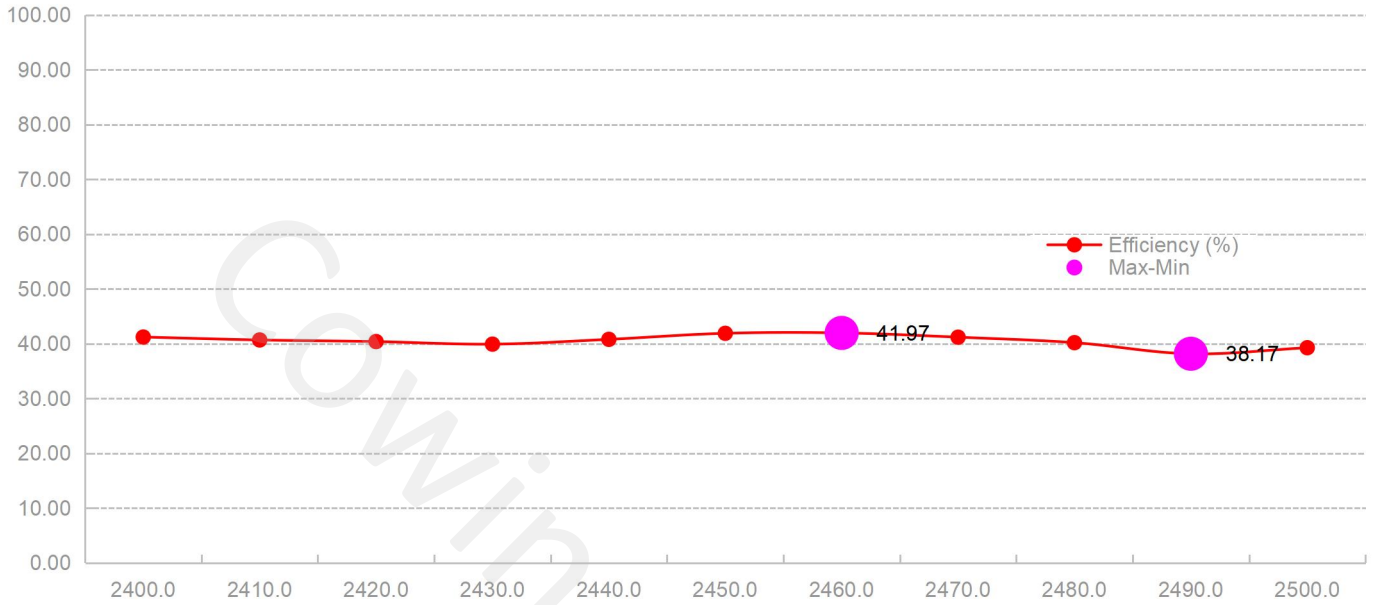


4.1 VSWR

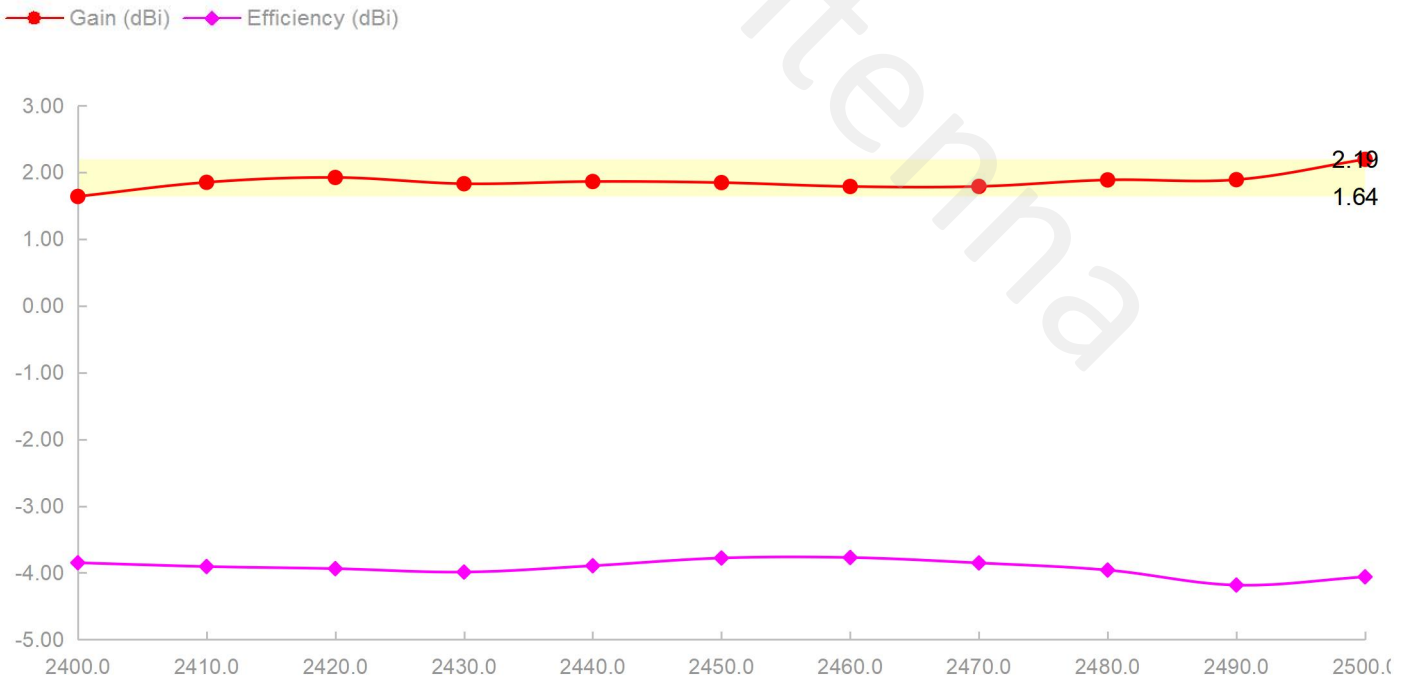


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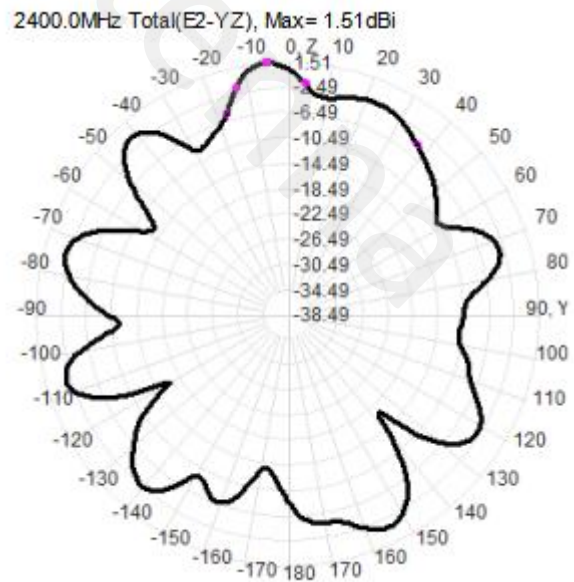
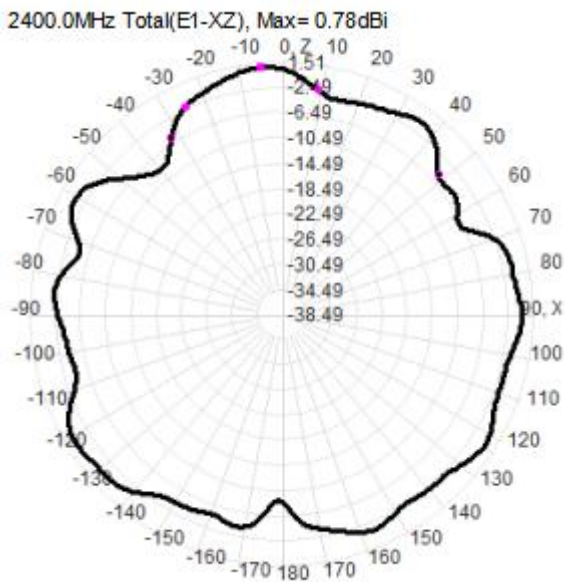
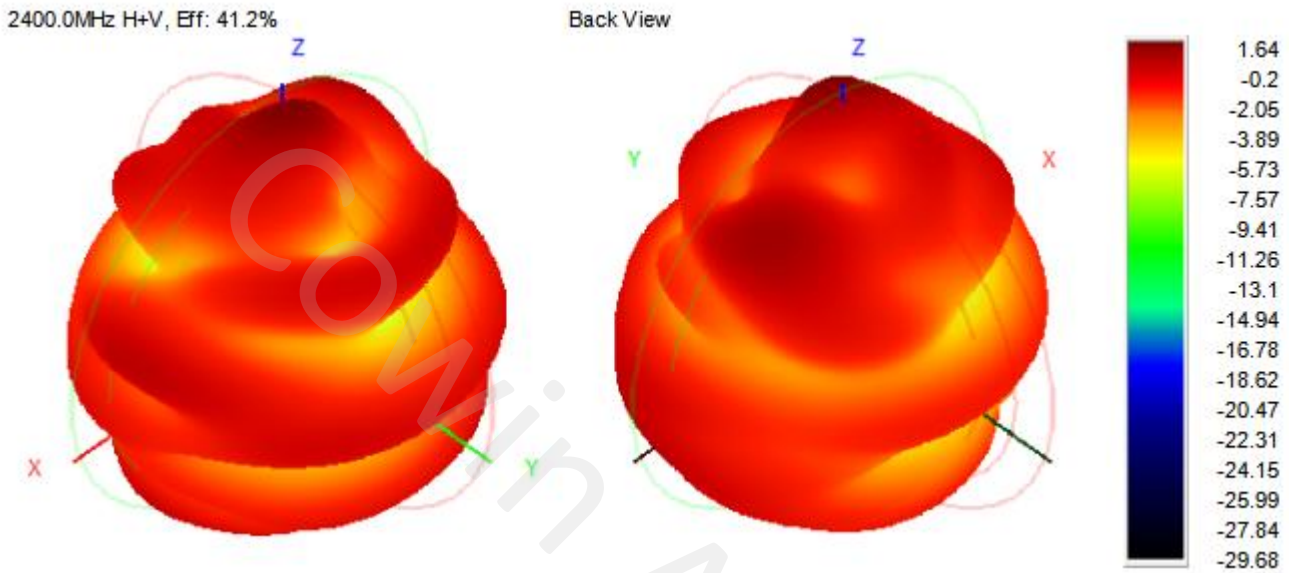
4.2 Efficiency



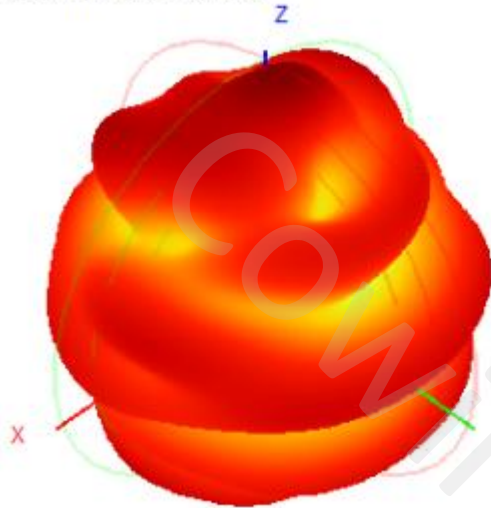
4.3 Peak gain



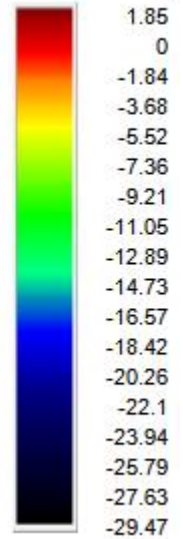
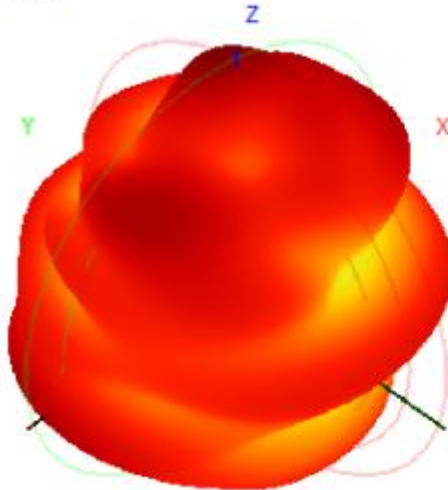
4.4 3D&2D Radiation Patterns



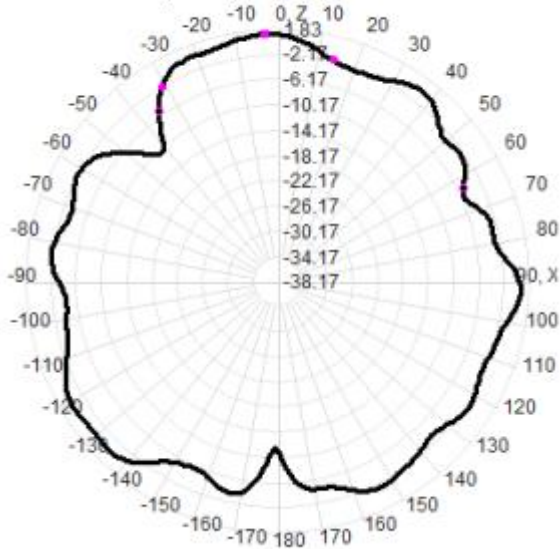
2450.0MHz H+V, Eff: 41.9%



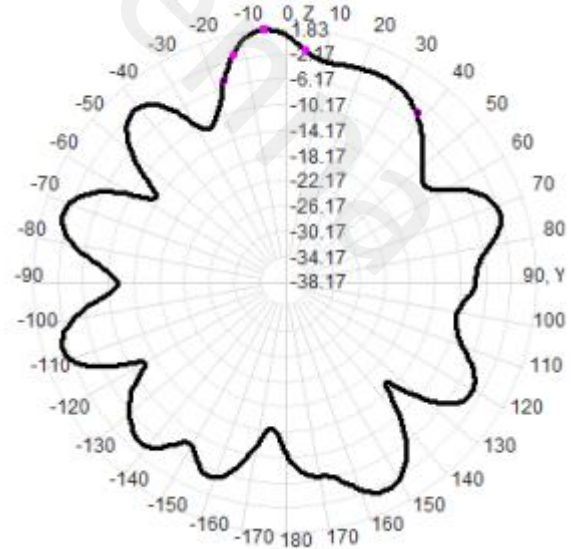
Back View



2450.0MHz Total(E1-XZ), Max= 1.01dBi

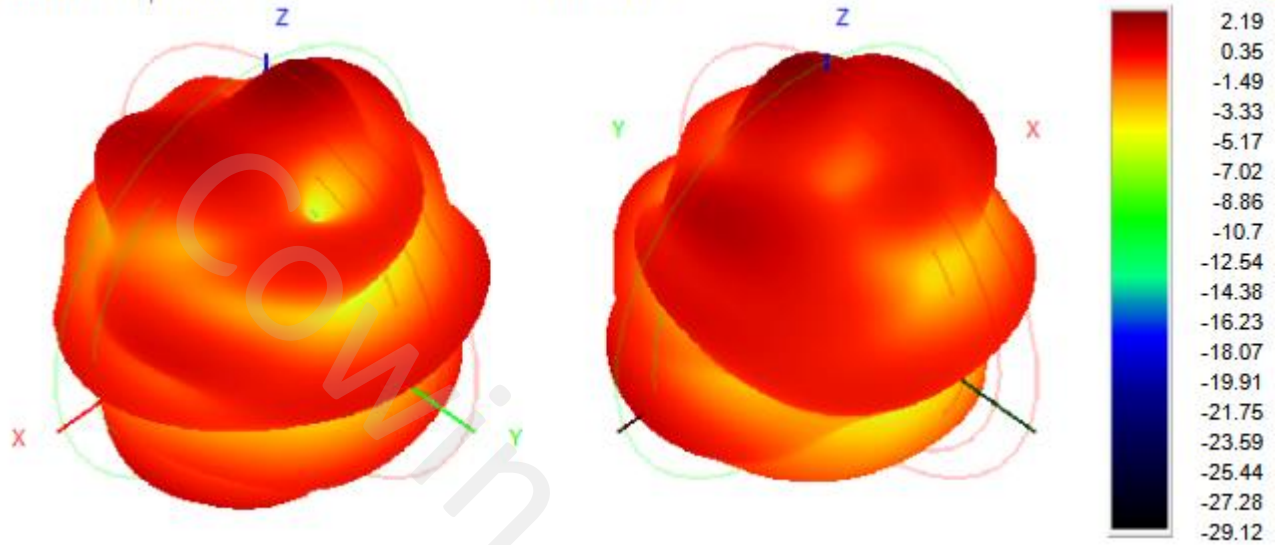


2450.0MHz Total(E2-YZ), Max= 1.83dBi

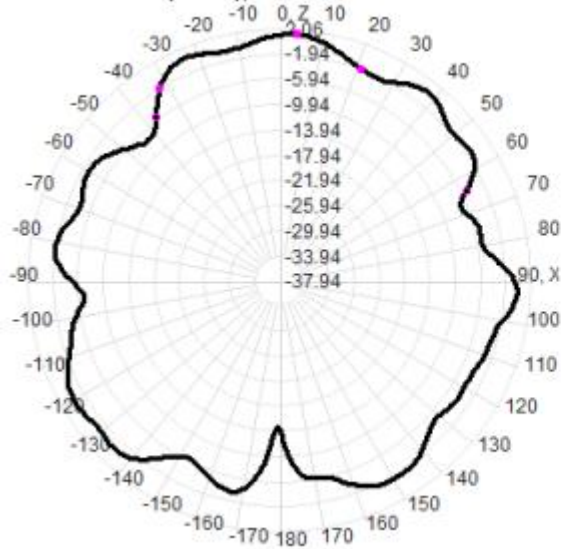


2500.0MHz H+V, Eff: 39.3%

Back View



2500.0MHz Total(E1-XZ), Max= 1.25dBi



2500.0MHz Total(E2-YZ), Max= 2.06dBi

