

CW-WZ-0209

1000-2700MHz External Antenna

Key Features

Frequency: 1000-2700MHz

SMA Male Connector

Dimensions: 196*38.3 mm



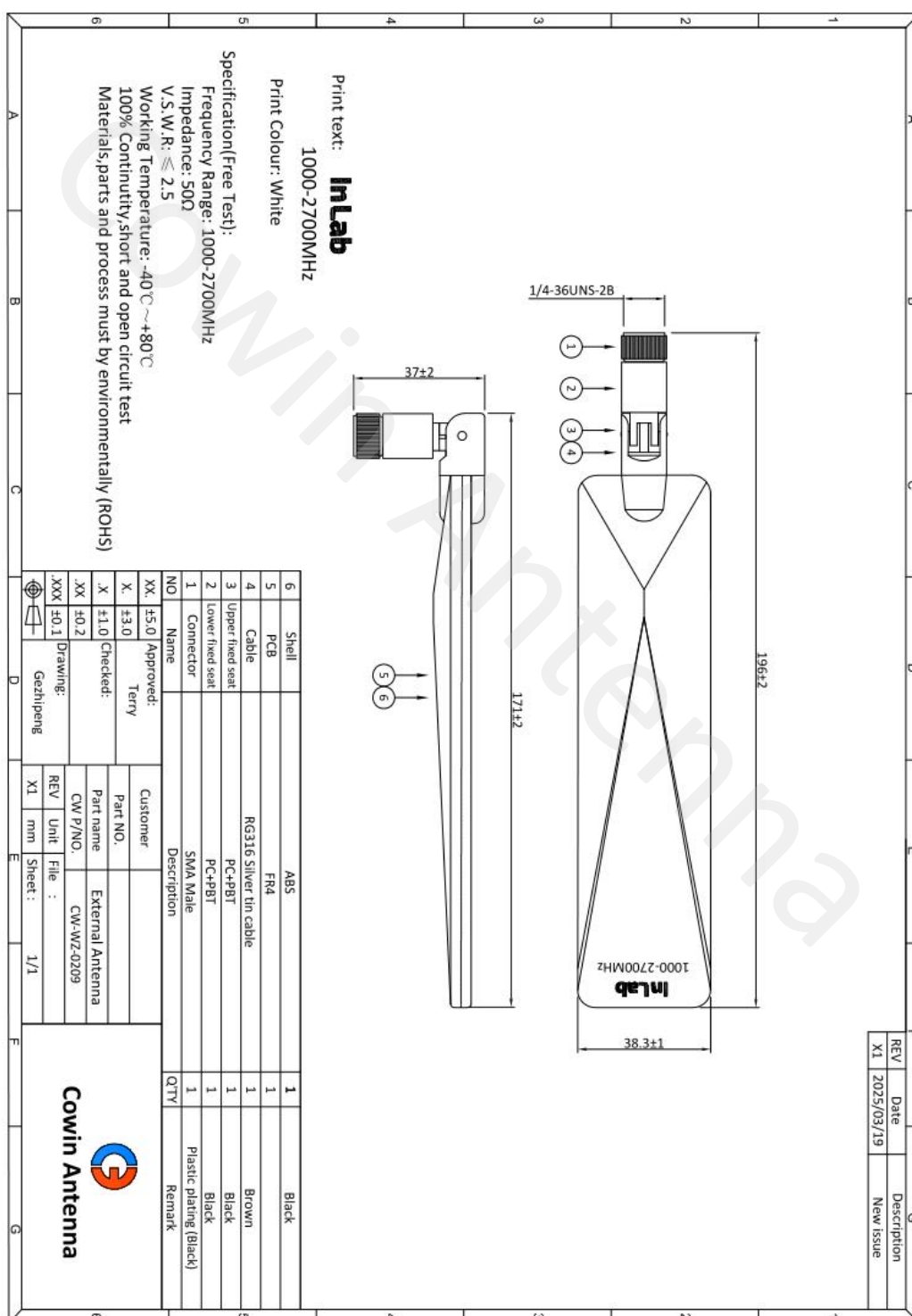
1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	1000-2700
VSWR	≤2.5
Efficiency (%)	88.14
Peak Gain (dBi)	2.78
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10

2. Material and environmental characteristics

External Structure	ABS / PC+PBT
Inner Structure	PCB
Cable Type	RG316 Silver tin cable
Connector Type	SMA Male
Dimensions (mm)	196*38.3
Antenna Color	Black
Operation Temperature	-40°C to +80°C
Storage Temperature	-40°C to +80°C
Antenna Storage life (year)	10
Substance Compliance	ROHS

3. Antenna drawing



4. Antenna test parameters

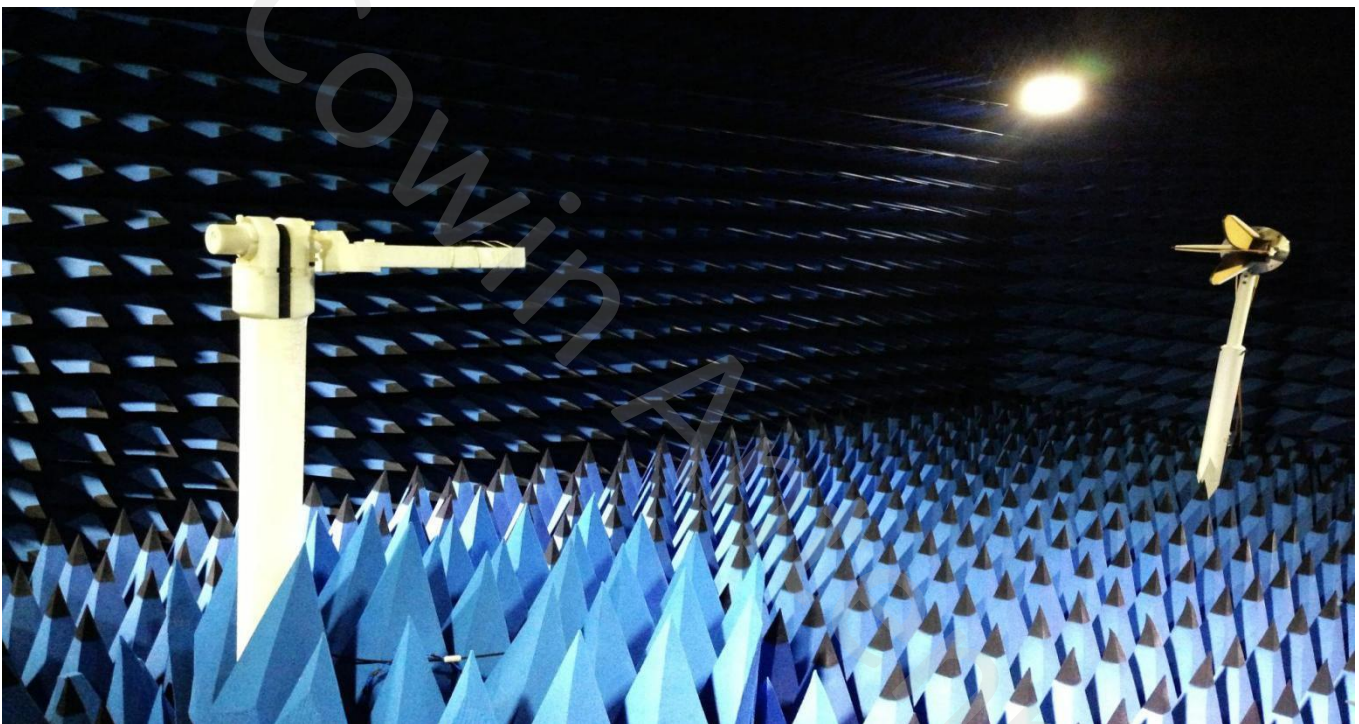
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

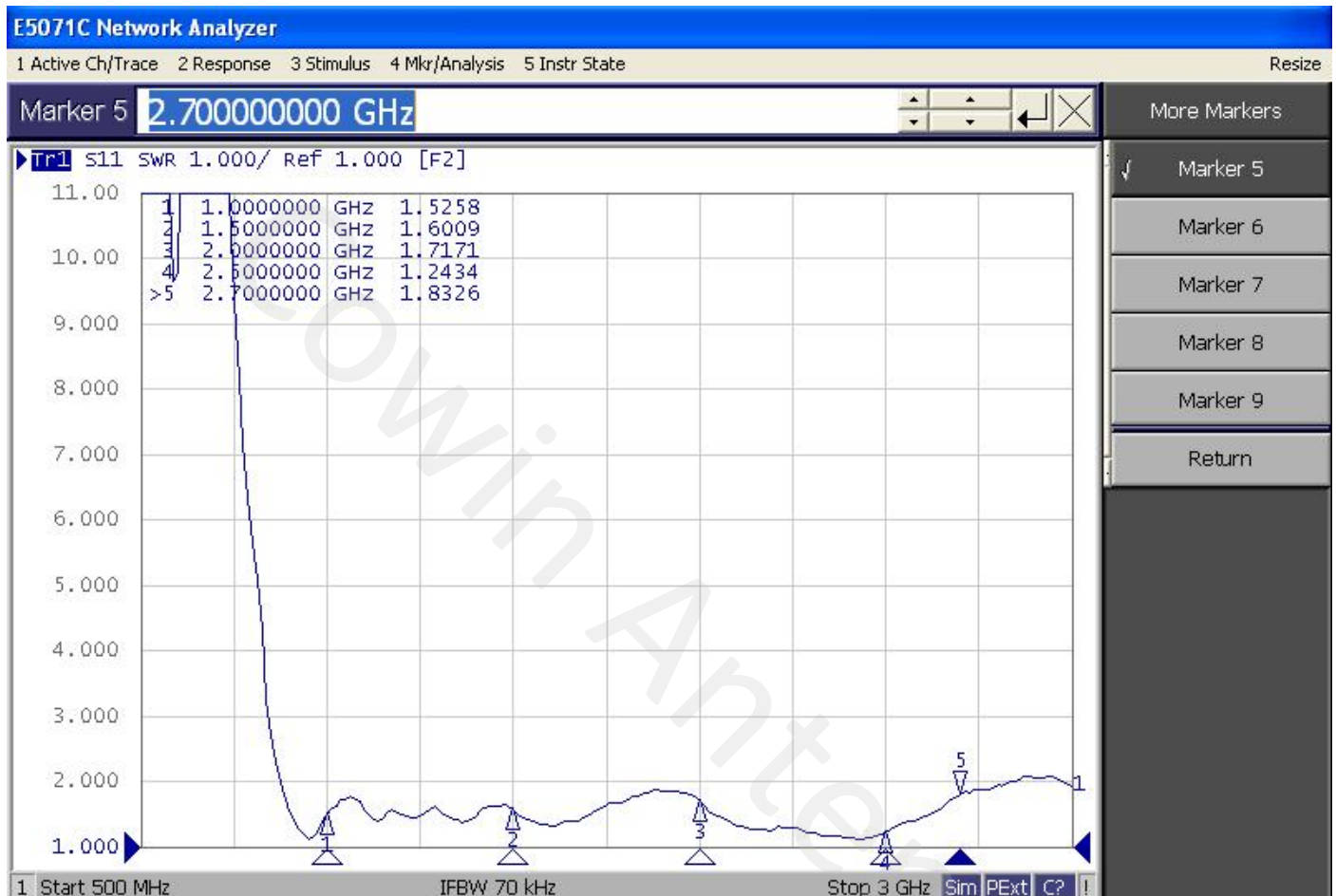
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

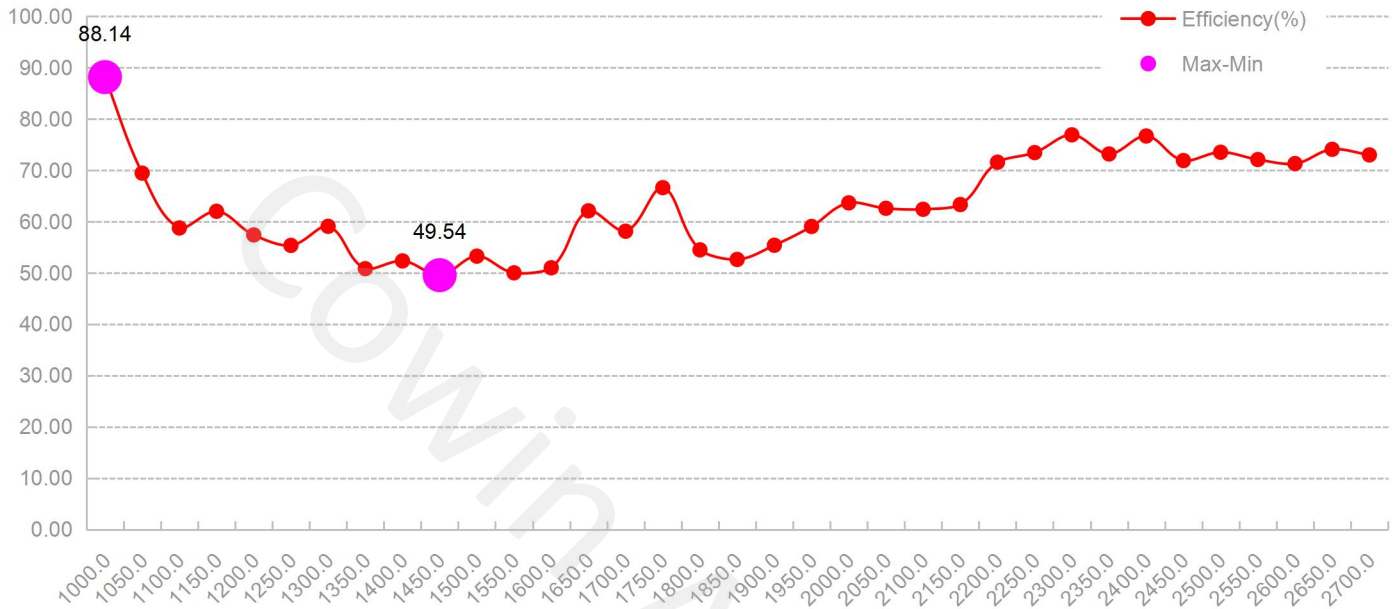
The comprehensive tester is Agilent cmv500



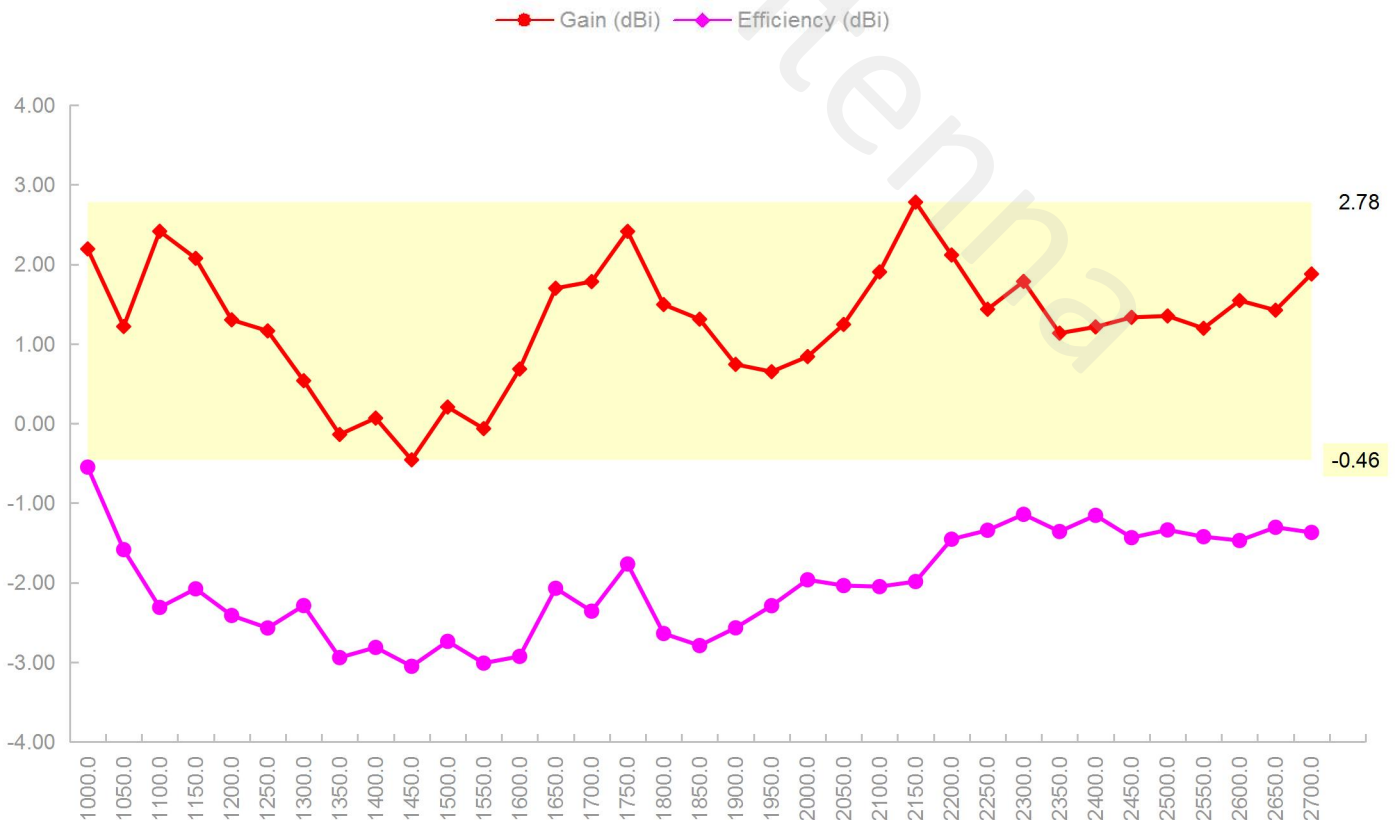
4.1 VSWR



4.2 Efficiency



4.3 Peak gain



4.4 Data summary

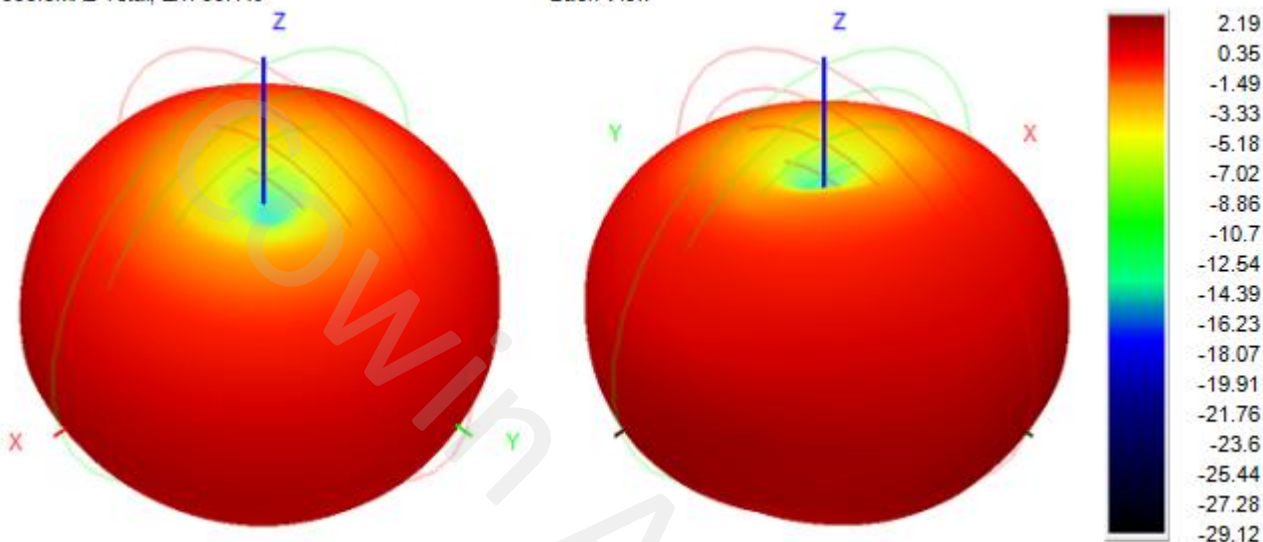
Frequency (MHz)	Gain (dBi)	Efficiency (%)
1000.0	2.19	88.14
1050.0	1.22	69.43
1100.0	2.41	58.74
1150.0	2.07	61.99
1200.0	1.30	57.39
1250.0	1.16	55.34
1300.0	0.54	59.05
1350.0	-0.14	50.81
1400.0	0.07	52.32
1450.0	-0.46	49.54
1500.0	0.21	53.25
1550.0	-0.06	50.00
1600.0	0.68	50.98
1650.0	1.70	62.08
1700.0	1.78	58.10
1750.0	2.41	66.59
1800.0	1.49	54.47

1850.0	1.31	52.60
1900.0	0.74	55.37
1950.0	0.65	59.03
2000.0	0.84	63.63
2050.0	1.24	62.57
2100.0	1.90	62.38
2150.0	2.78	63.30
2200.0	2.12	71.55
2250.0	1.43	73.42
2300.0	1.78	76.88
2350.0	1.13	73.16
2400.0	1.21	76.66
2450.0	1.33	71.87
2500.0	1.35	73.49
2550.0	1.19	72.07
2600.0	1.54	71.28
2650.0	1.42	74.06
2700.0	1.88	72.97

4.5 3D&2D Radiation Patterns

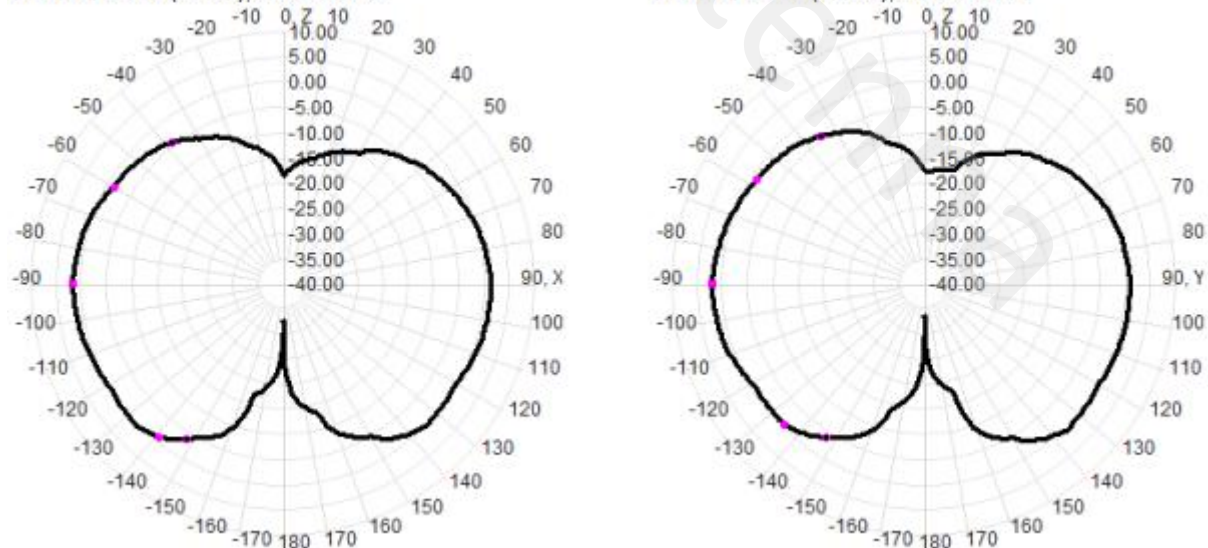
1000.0MHz Total, Eff: 88.1%

Back View



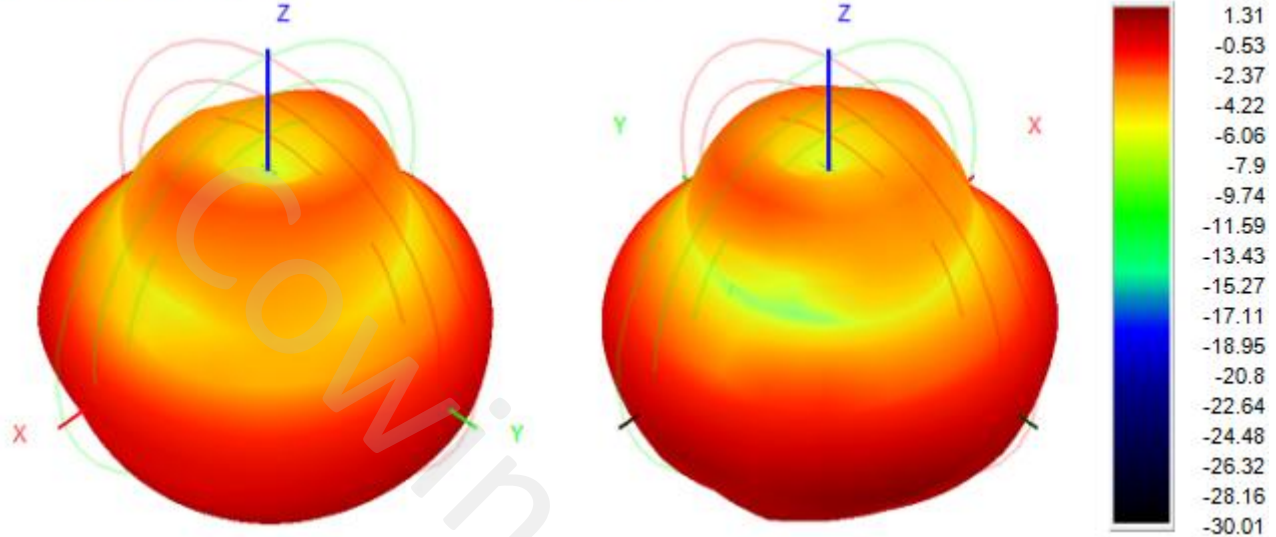
1000.0MHz Total(E1-XZ), Max= 1.66dBi

1000.0MHz Total(E2-YZ), Max= 2.06dBi



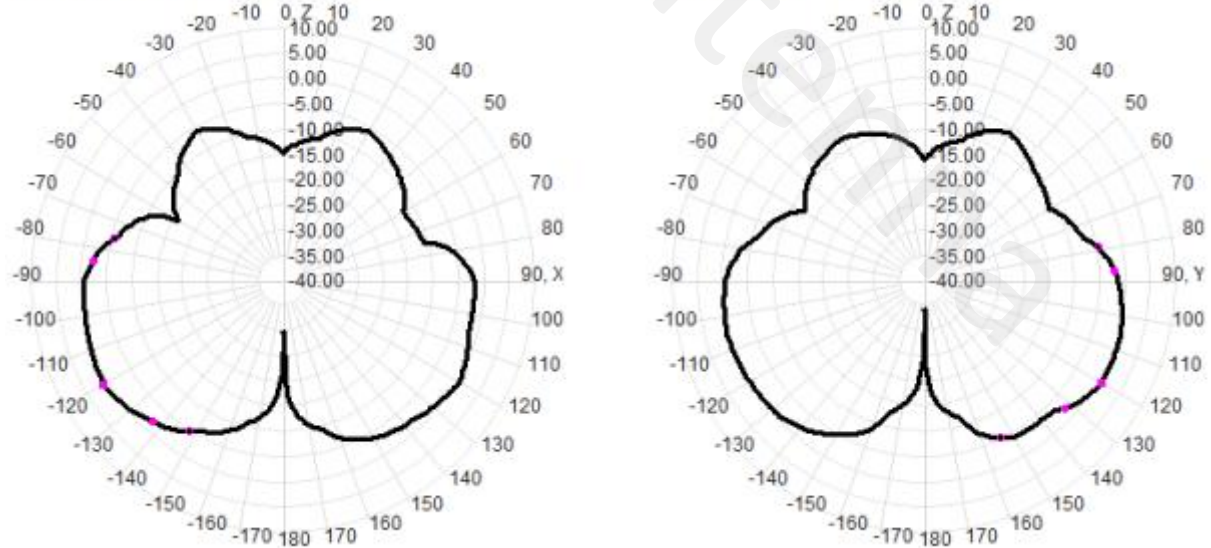
1850.0MHz Total, Eff: 52.6%

Back View



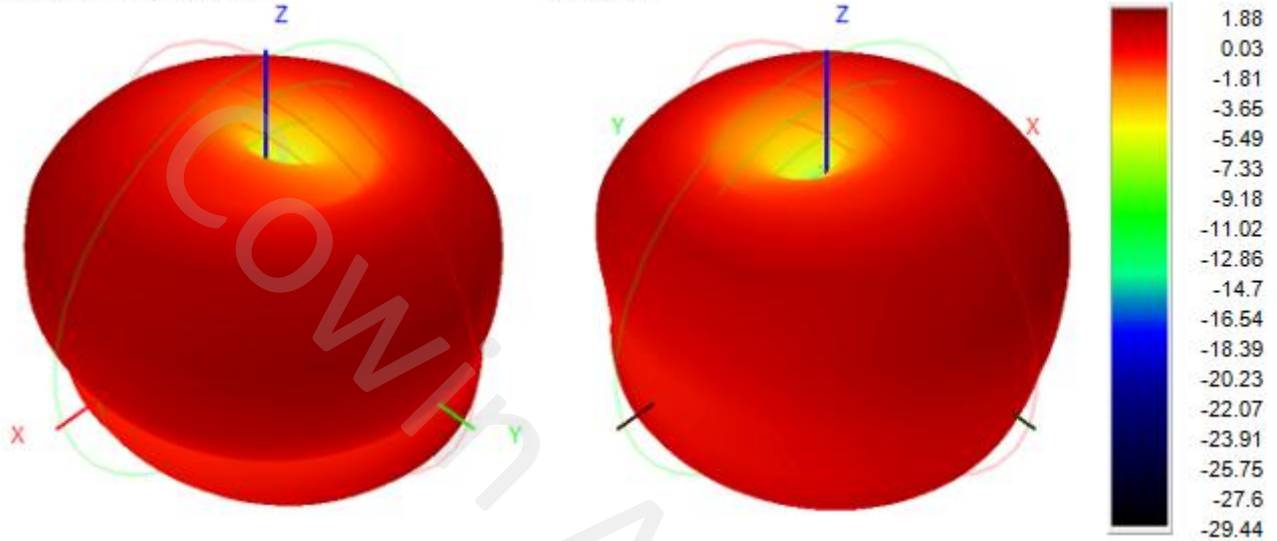
1850.0MHz Total(E1-XZ), Max= 1.00dBi

1850.0MHz Total(E2-YZ), Max= 0.52dBi



2700.0MHz Total, Eff: 73.0%

Back View



2700.0MHz Total(E1-XZ), Max= 0.72dBi

2700.0MHz Total(E2-YZ), Max= 1.67dBi

