

CWBLG7080V08MWS

7-8.5G Omni Fiberglass Antenna

Key Features

Frequency: 7-8.5GHz

Connector: SMA Male

Cable Type: RG316

Dimensions: 200*16mm



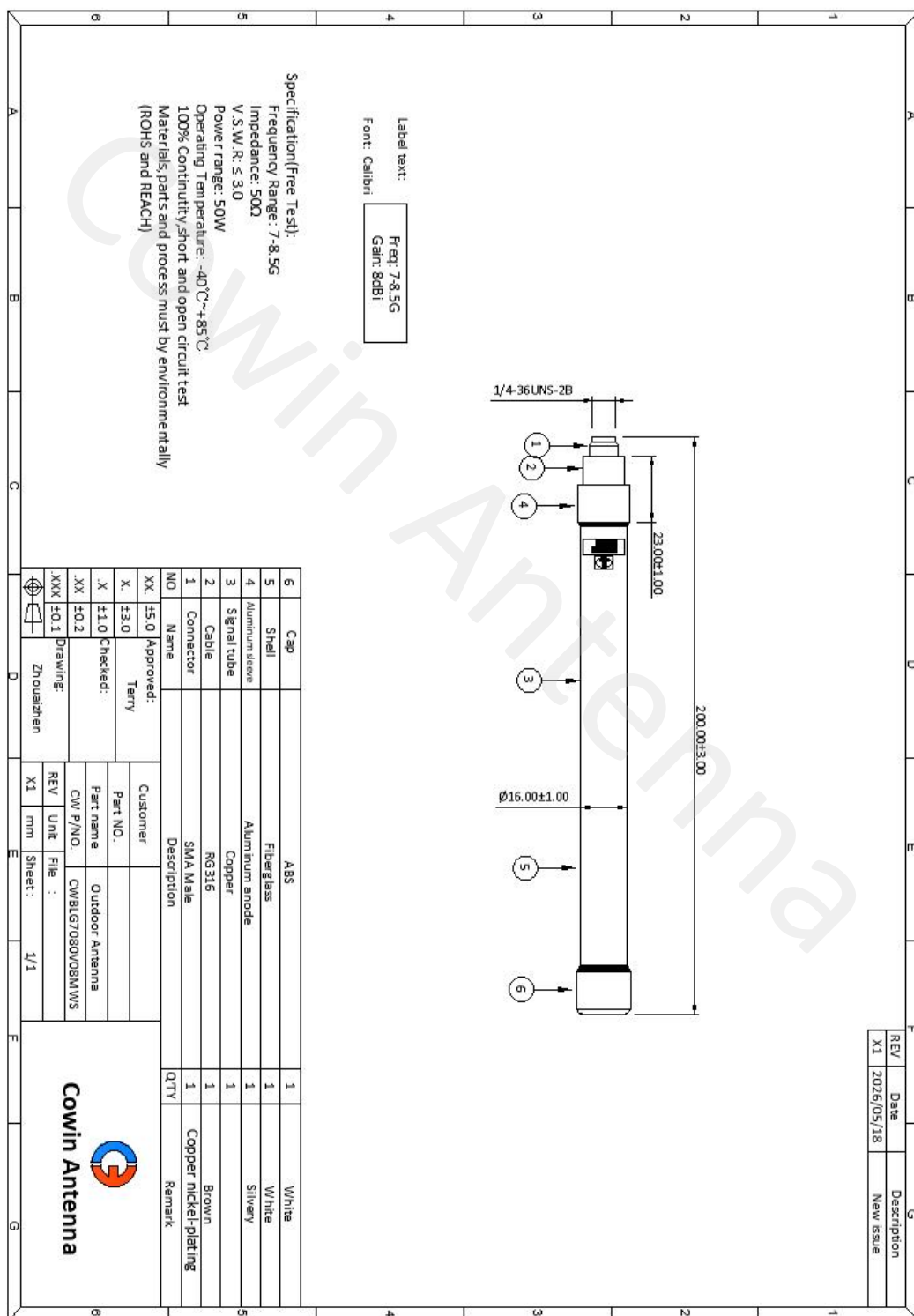
1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	7000-8500
VSWR	≤3.0
Efficiency (%)	77.6
Peak Gain (dBi)	8.23
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10

2. Material and environmental characteristics

External Structure	Fiberglass
Inner Structure	Signal tube
Cable Type	RG316
Connector Type	SMA Male
Dimensions (mm)	200*16
Antenna Colour	White
Operation Temperature	-40℃ to +85℃
Storage Temperature	-40℃ to +85℃
Antenna Storage Life(year)	10
Substance Compliance	ROHS

3. Antenna drawing



4. Antenna test parameters

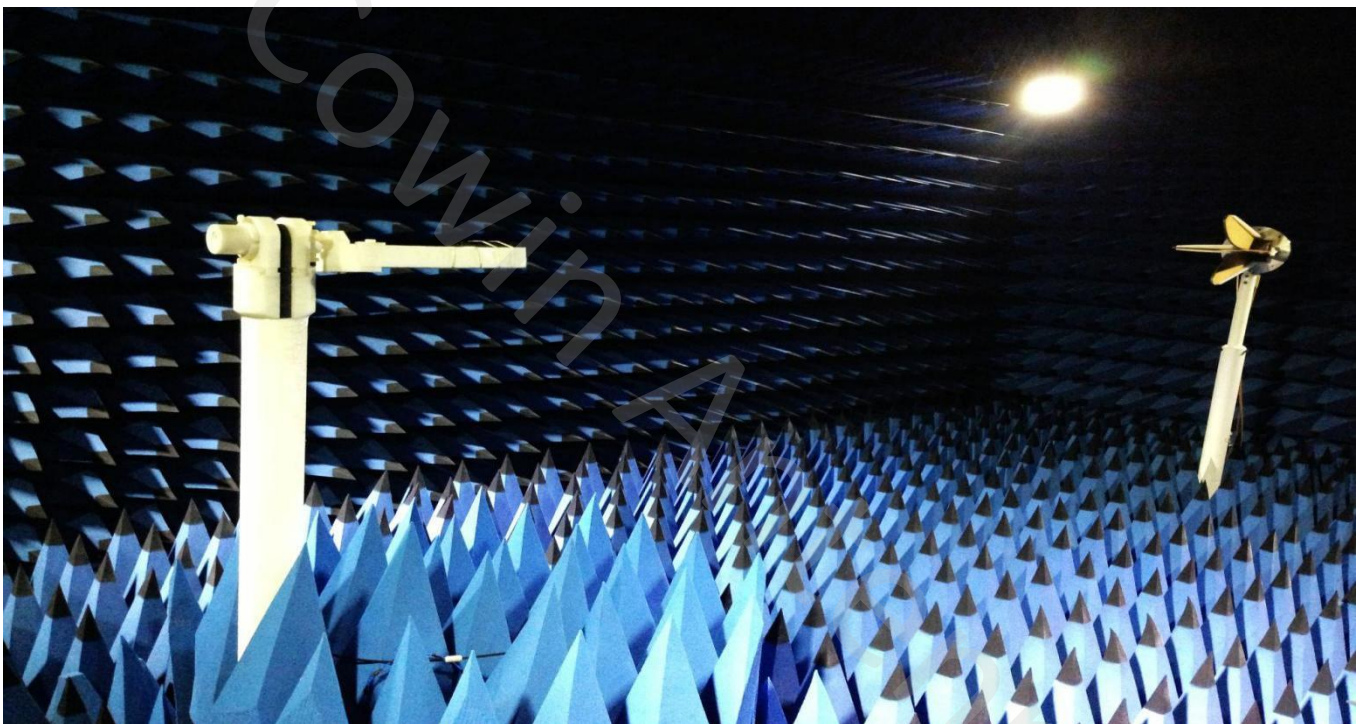
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

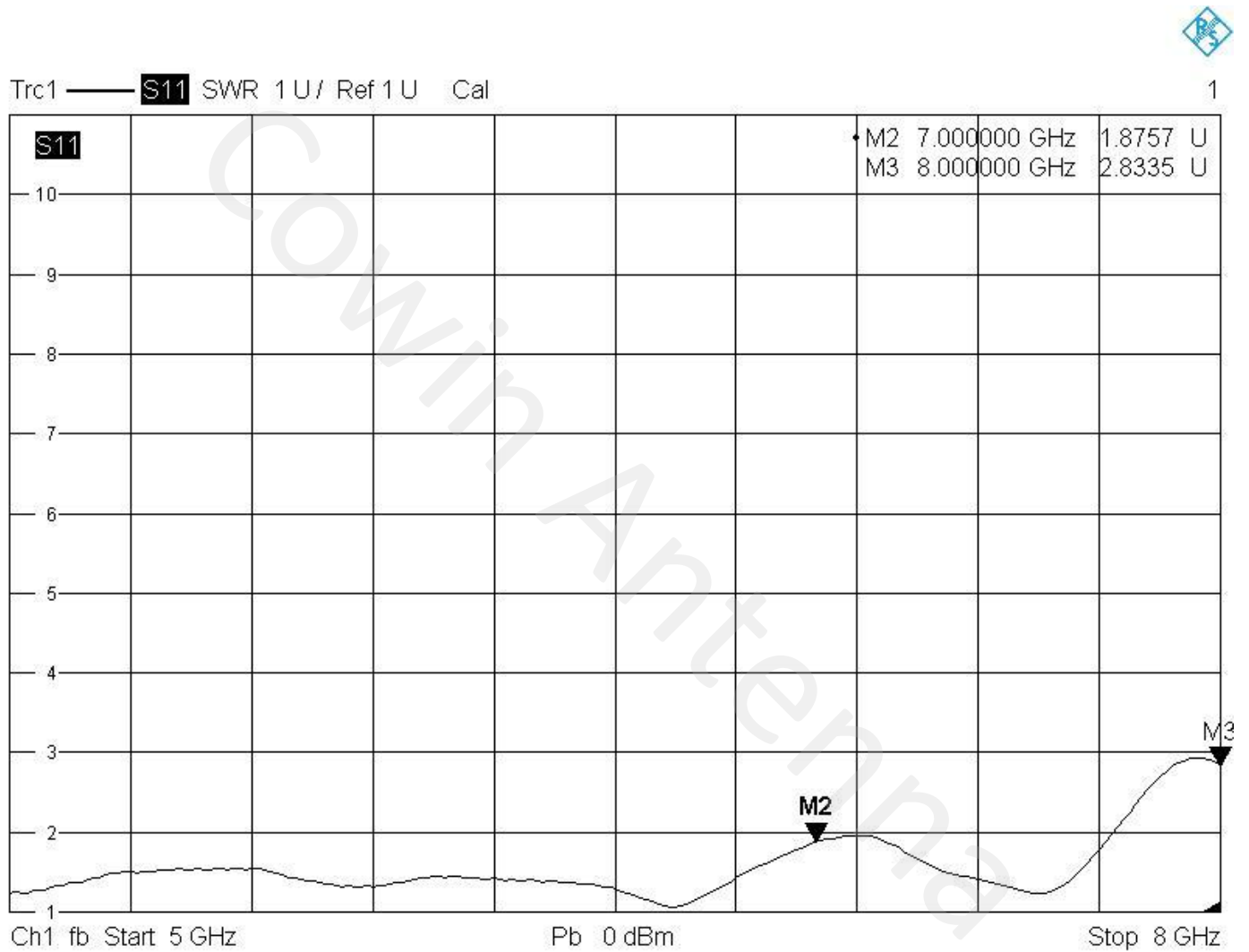
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

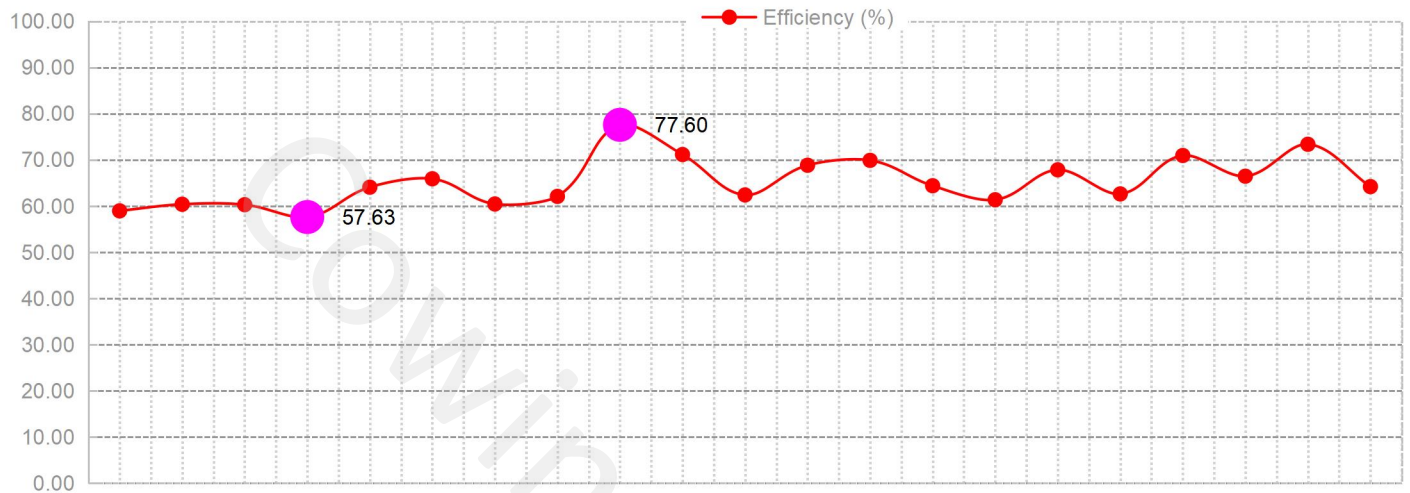
The comprehensive tester is Agilent cmv500



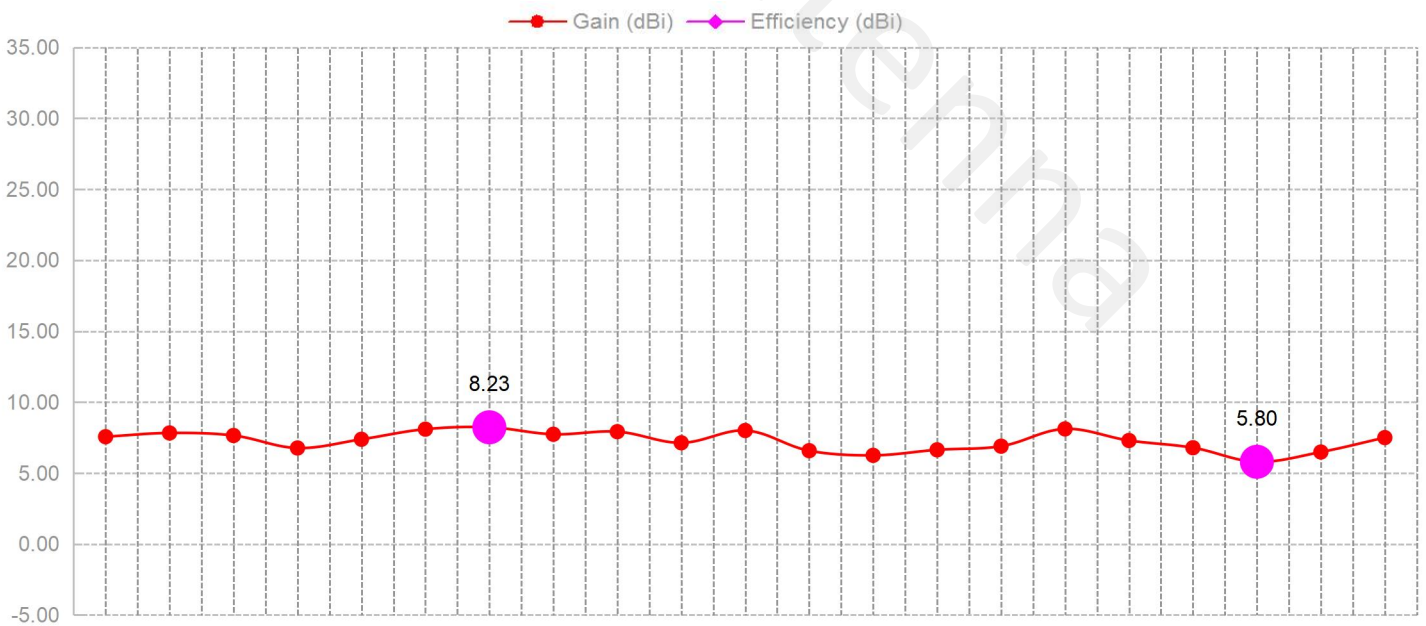
4.1 VSWR



4.2 Efficiency



4.3 Peak gain

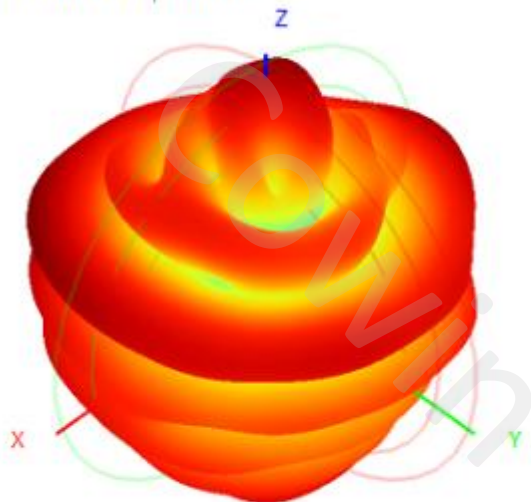


4.4 Data summary

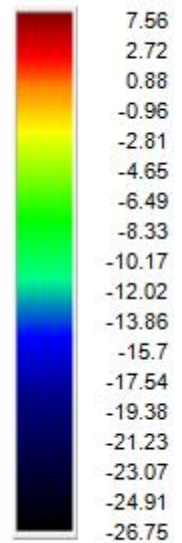
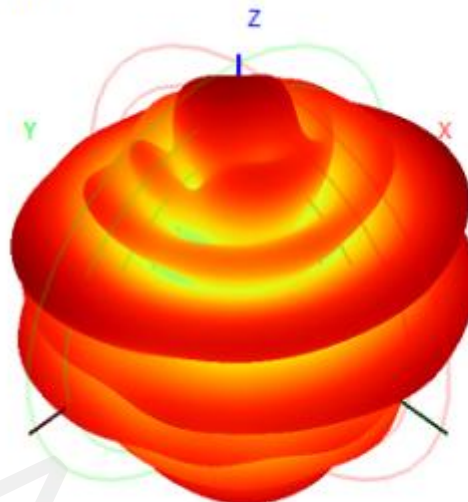
Frequency (MHz)	Gain (dBi)	Efficiency (%)
7000.0	7.56	58.97
7050.0	7.83	60.40
7100.0	7.65	60.30
7150.0	6.77	57.63
7200.0	7.38	64.09
7250.0	8.09	65.92
7300.0	8.23	60.46
7350.0	7.74	62.10
7400.0	7.92	77.60
7450.0	7.14	71.17
7500.0	8.00	62.42
7550.0	6.58	68.84
7600.0	6.25	69.91
7650.0	6.64	64.41
7700.0	6.90	61.37
7750.0	8.11	67.85
7800.0	7.30	62.64
7850.0	6.79	70.96
7900.0	5.80	66.47
7950.0	6.48	73.38
8000.0	7.50	64.22

4.5 3D&2D Radiation Patterns

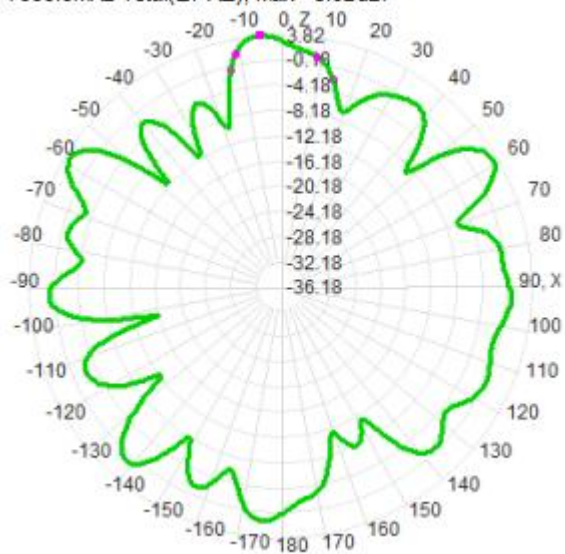
7000.0MHz Total, Eff: 59.0%



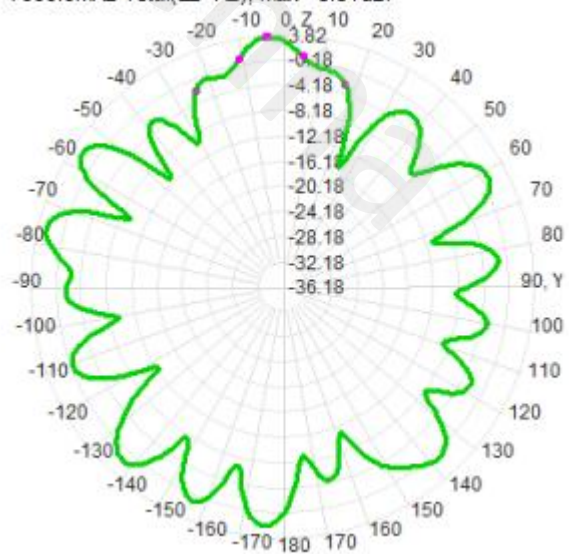
Back View



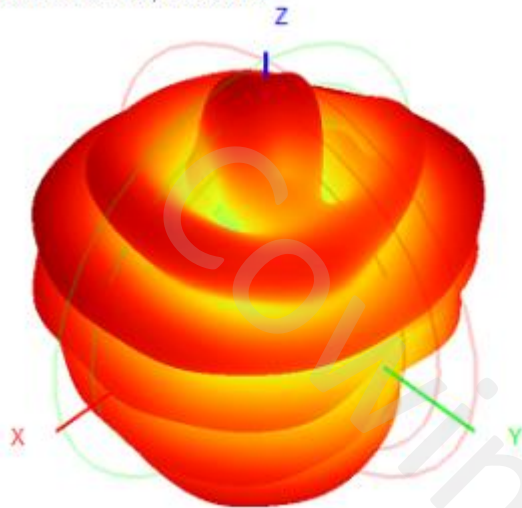
7000.0MHz Total(E1-XZ), Max= 3.82dBi



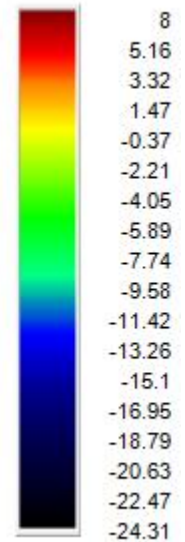
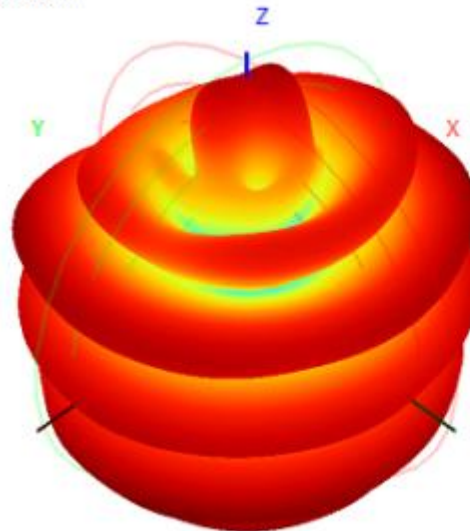
7000.0MHz Total(E2-YZ), Max= 3.51dBi



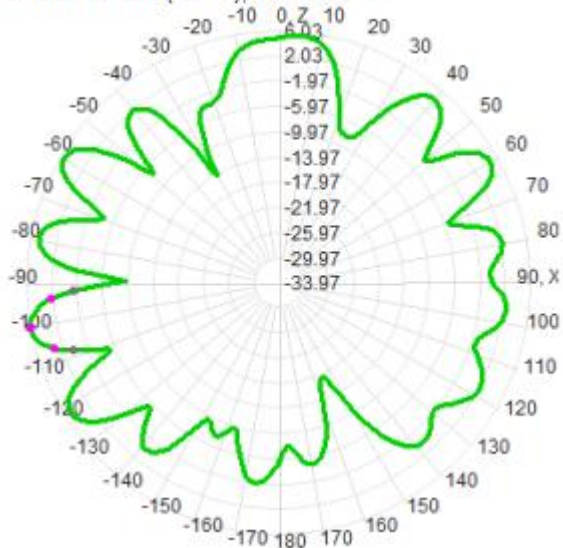
7500.0MHz Total, Eff: 62.4%



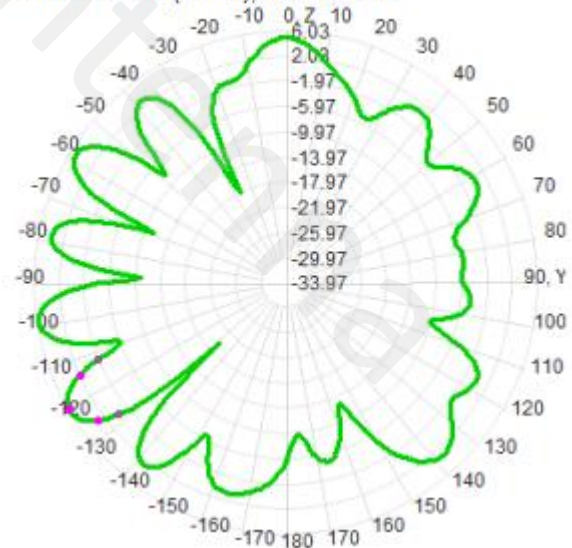
Back View



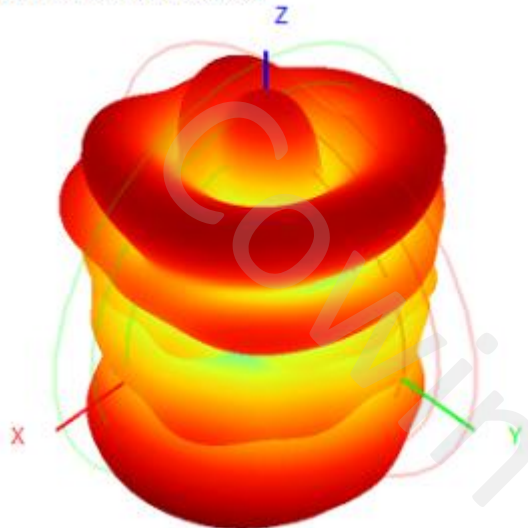
7500.0MHz Total(E1-XZ), Max= 6.03dBi



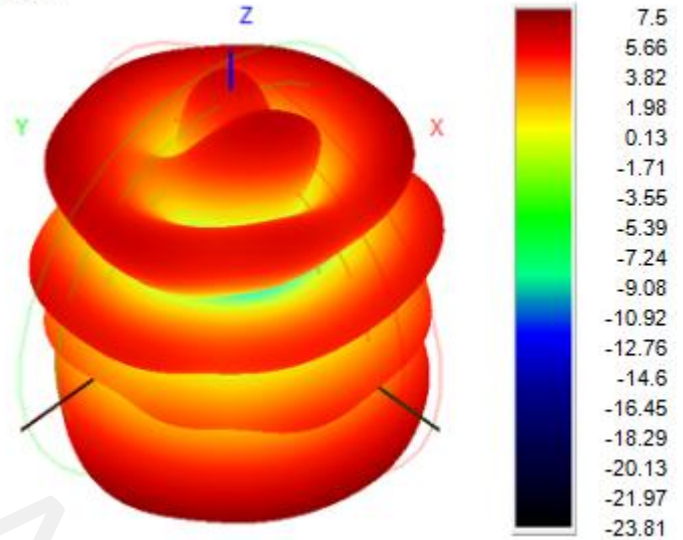
7500.0MHz Total(E2-YZ), Max= 5.78dBi



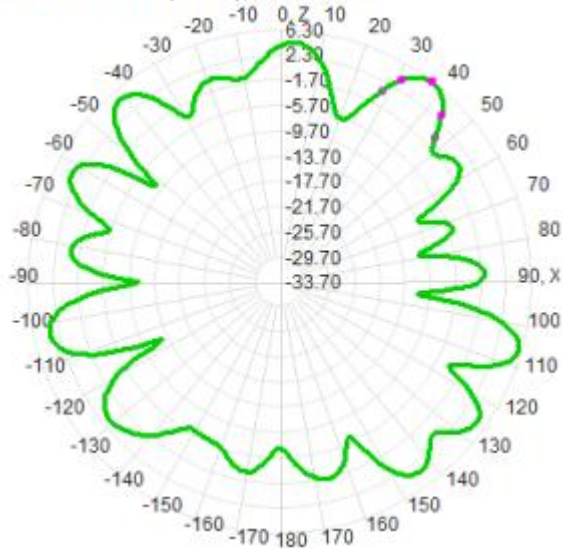
8000.0MHz Total, Eff: 64.2%



Back View



8000.0MHz Total(E1-XZ), Max= 6.17dBi



8000.0MHz Total(E2-YZ), Max= 6.30dBi

