

CWBLG6070V08M

6-7G Omni Fiberglass Antenna

Key Features

Frequency: 6-7GHz

Connector: SMA Male

Cable Type: RG316

Dimensions: 200*16mm



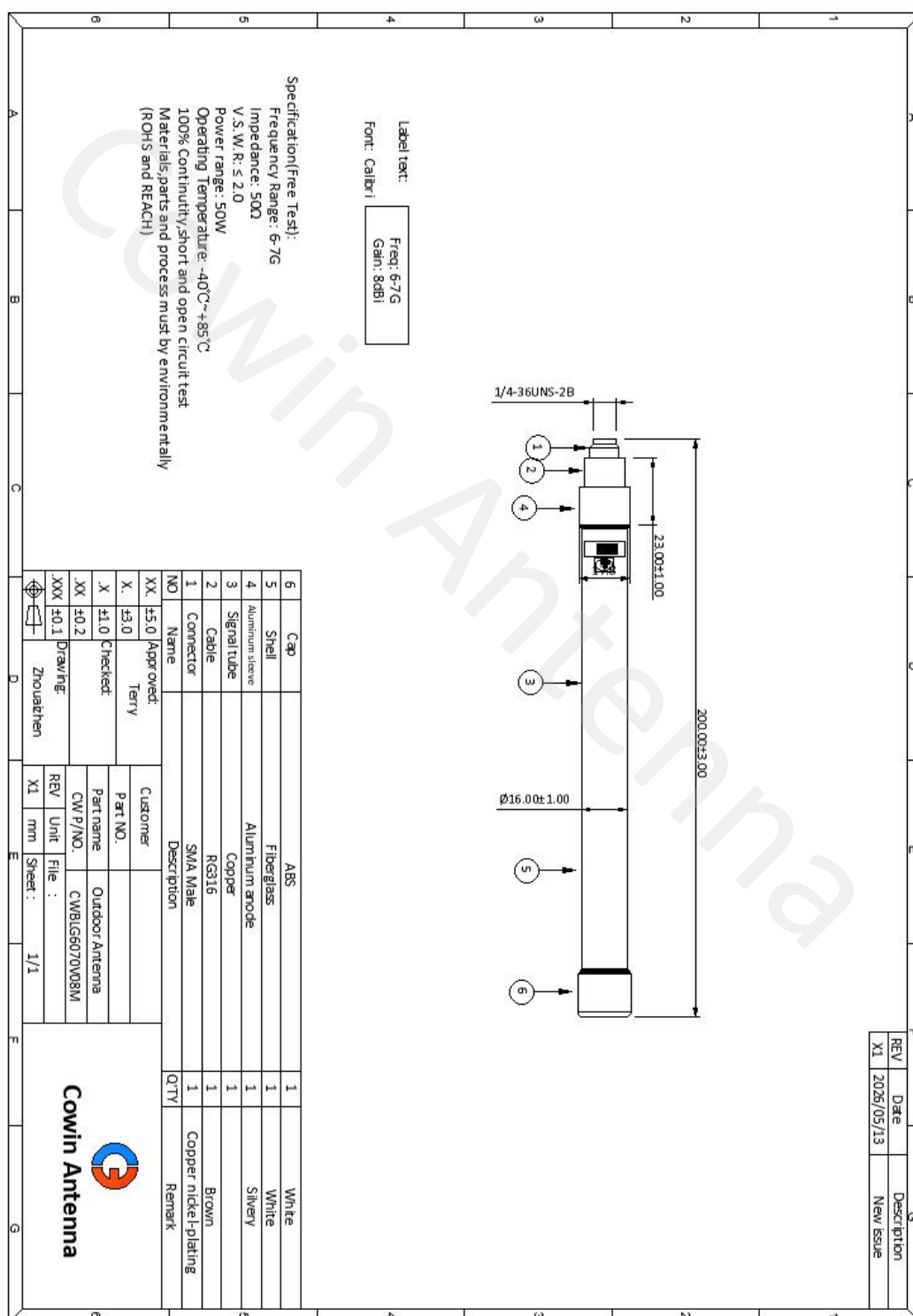
1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	6000-7000
VSWR	≤2.0
Efficiency (%)	78.12
Peak Gain (dBi)	8.67
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

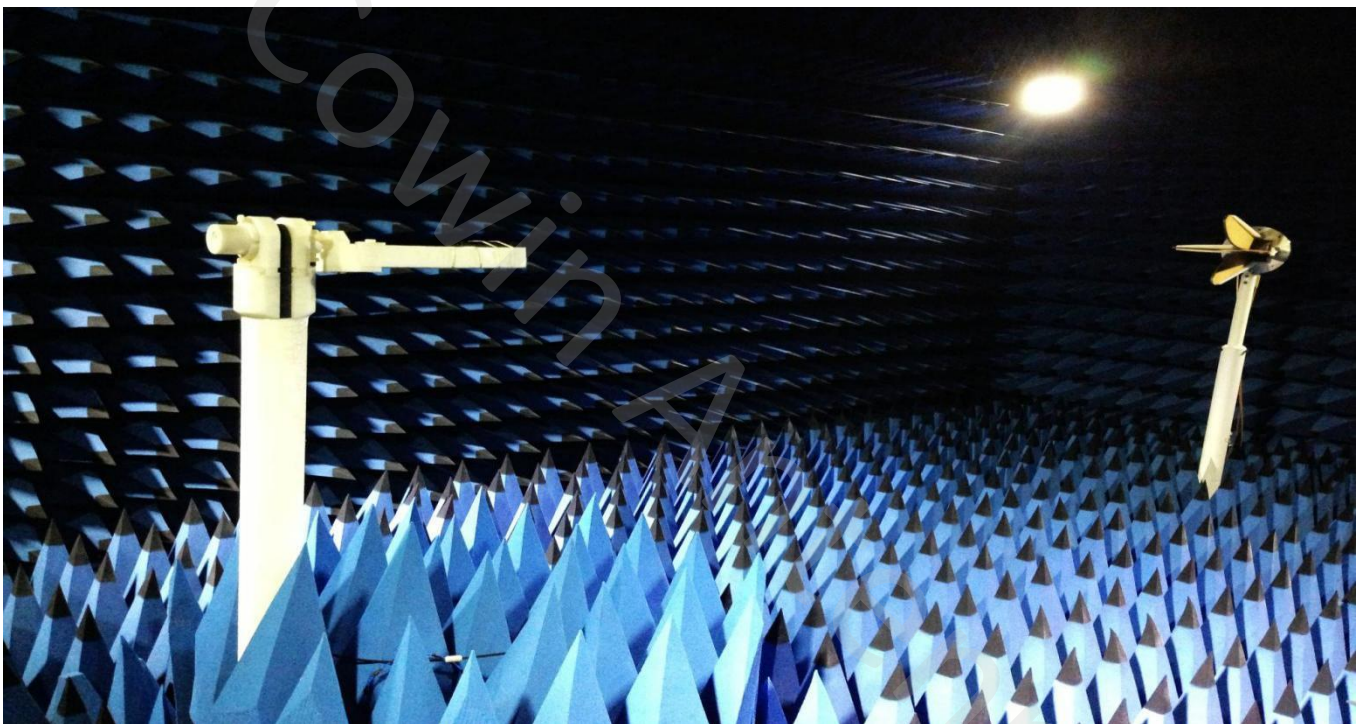
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

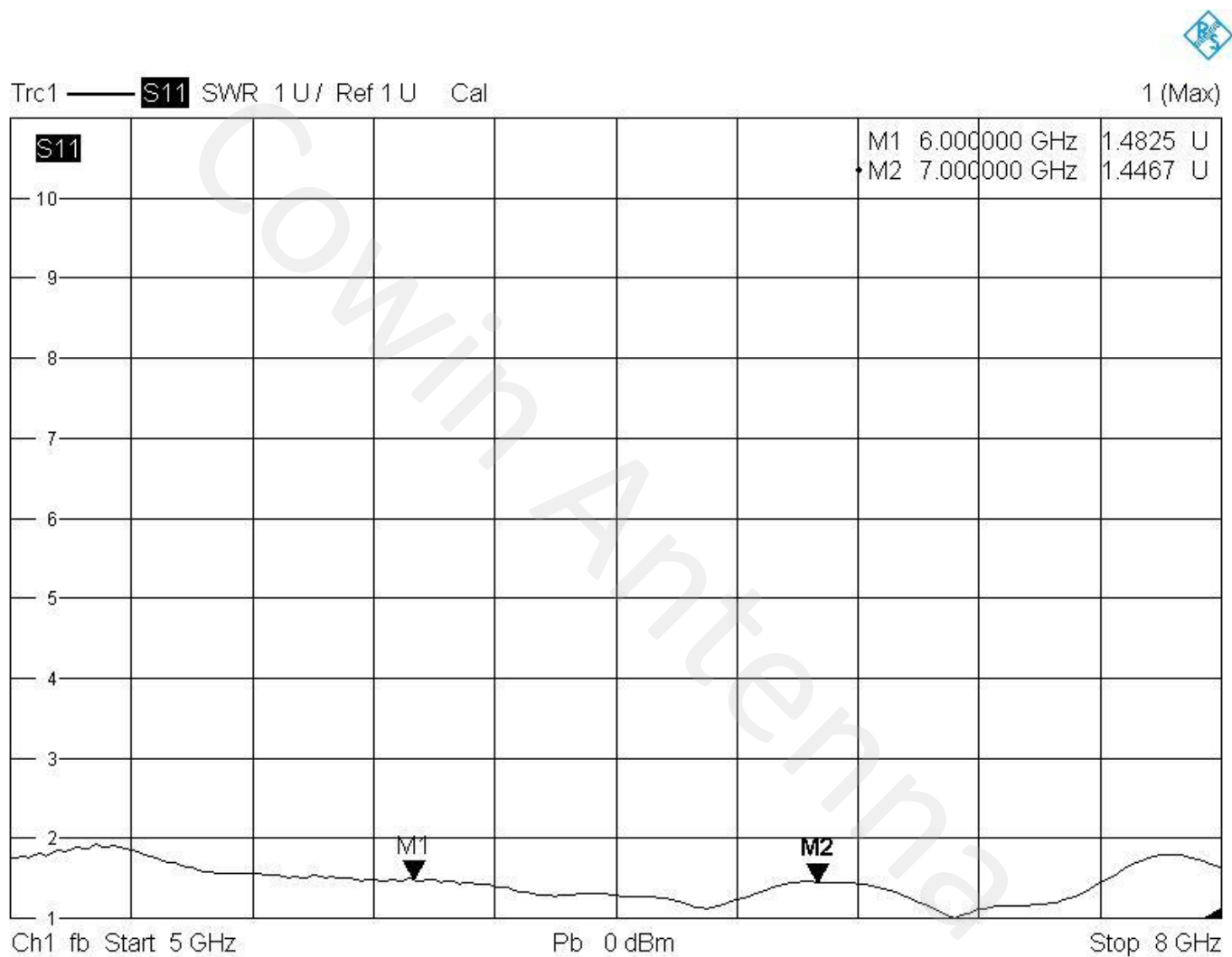
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

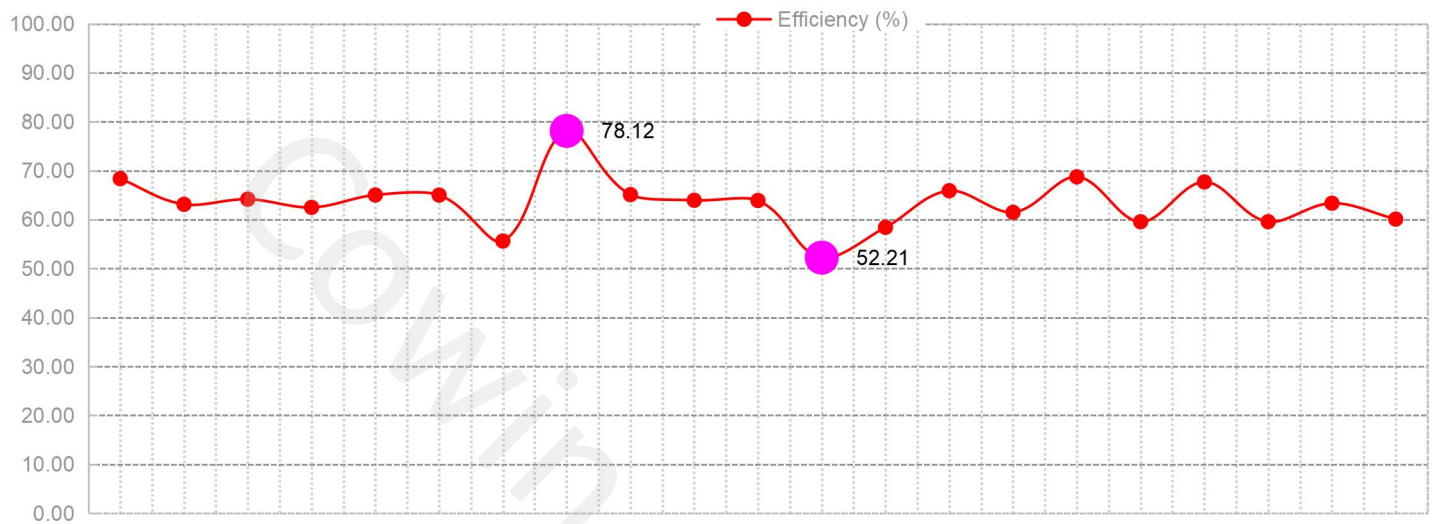
The comprehensive tester is Agilent cmv500



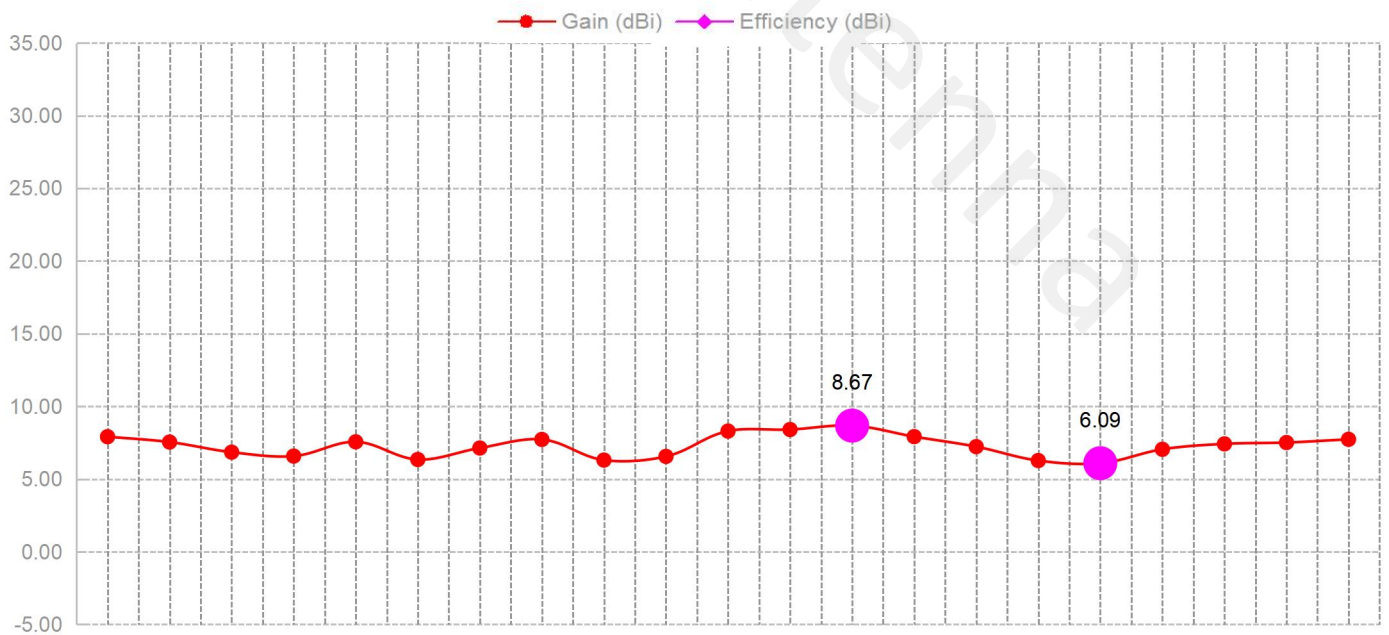
4.1 VSWR



4.2 Efficiency



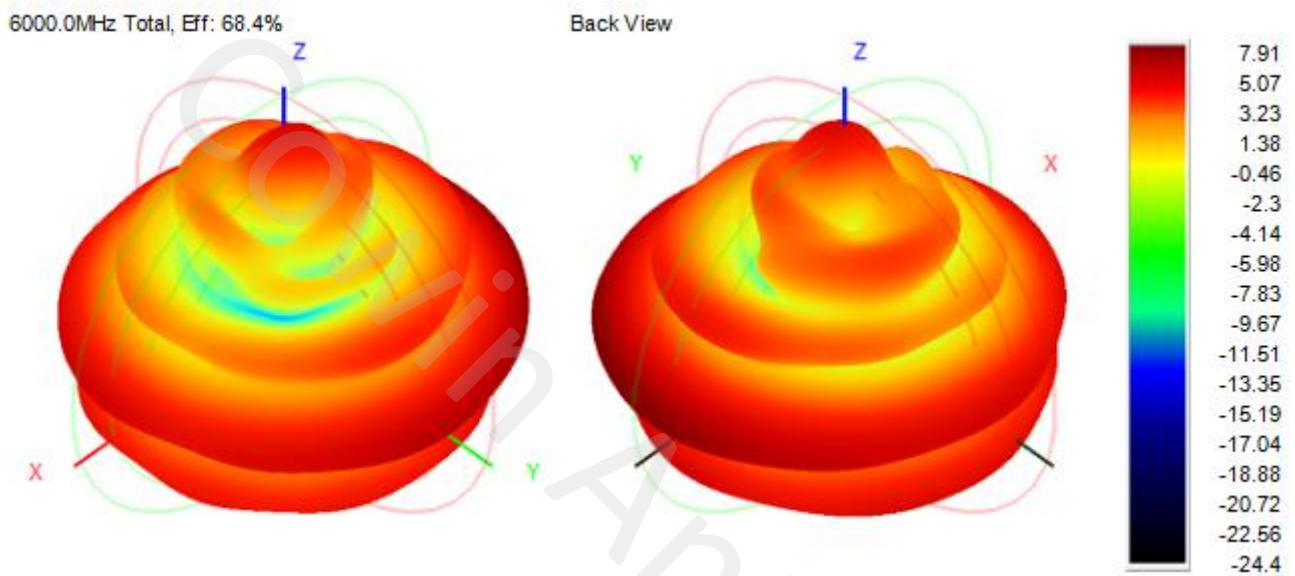
4.3 Peak gain



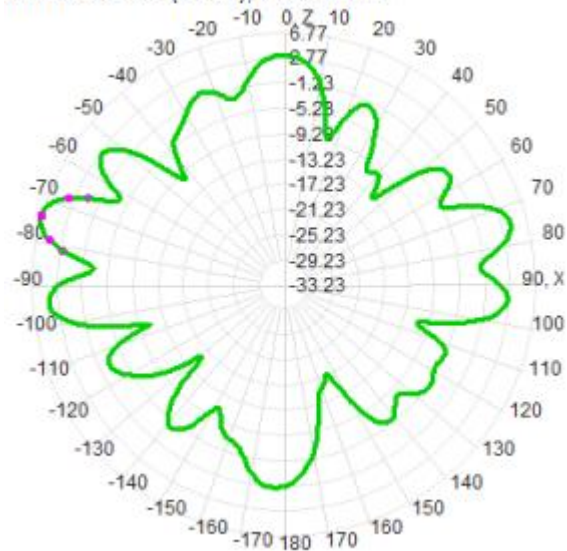
4.4 Data summary

Frequency (MHz)	Gain (dBi)	Efficiency (%)
6000.0	7.91	68.35
6050.0	7.54	63.11
6100.0	6.85	64.16
6150.0	6.58	62.48
6200.0	7.56	65.01
6250.0	6.34	65.00
6300.0	7.13	55.61
6350.0	7.72	78.12
6400.0	6.30	65.09
6450.0	6.55	63.93
6500.0	8.30	63.89
6550.0	8.40	52.21
6600.0	8.67	58.41
6650.0	7.92	65.89
6700.0	7.23	61.48
6750.0	6.27	68.72
6800.0	6.09	59.55
6850.0	7.04	67.68
6900.0	7.42	59.56
6950.0	7.51	63.33
7000.0	7.73	60.09

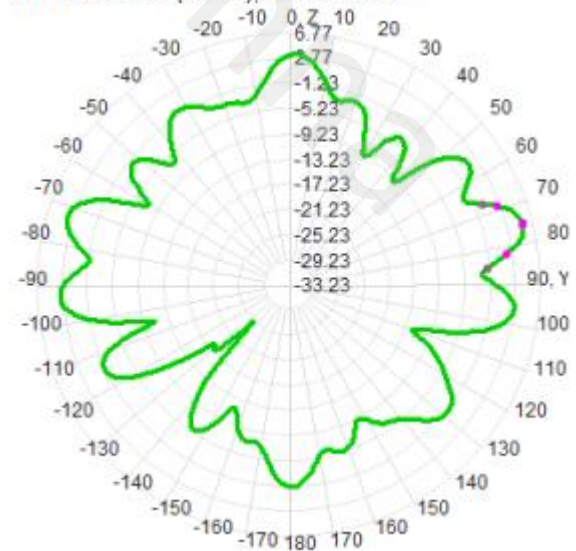
4.5 3D&2D Radiation Patterns



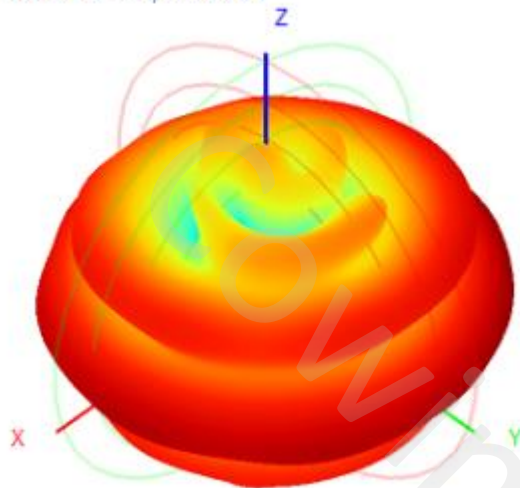
6000.0MHz Total(E1-XZ), Max= 6.77dBi



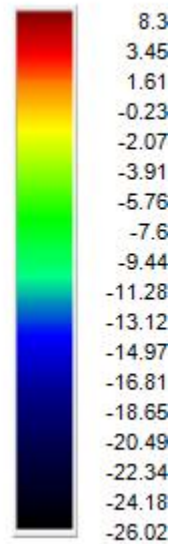
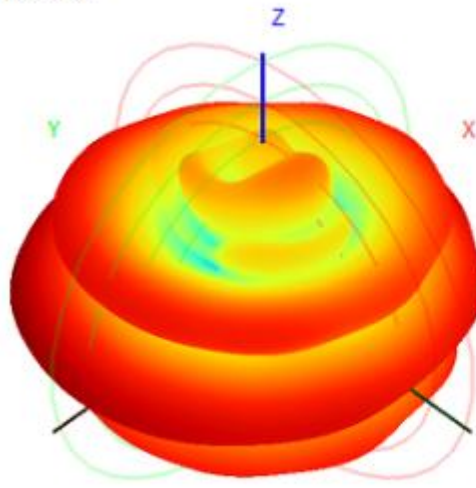
6000.0MHz Total(E2-YZ), Max= 4.90dBi



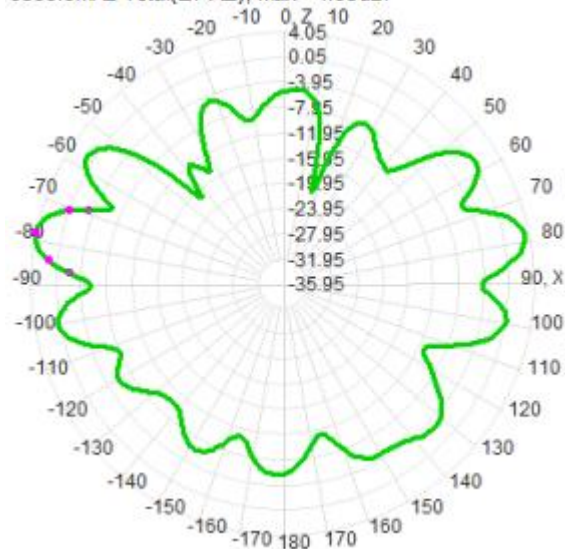
6500.0MHz Total, Eff: 63.9%



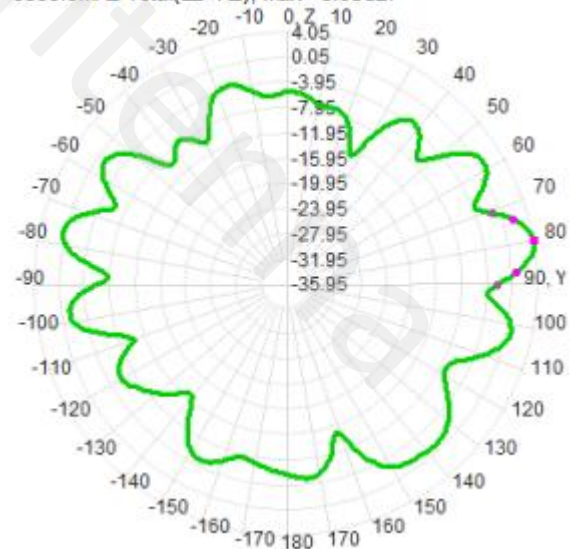
Back View



6500.0MHz Total(E1-XZ), Max= 4.05dBi

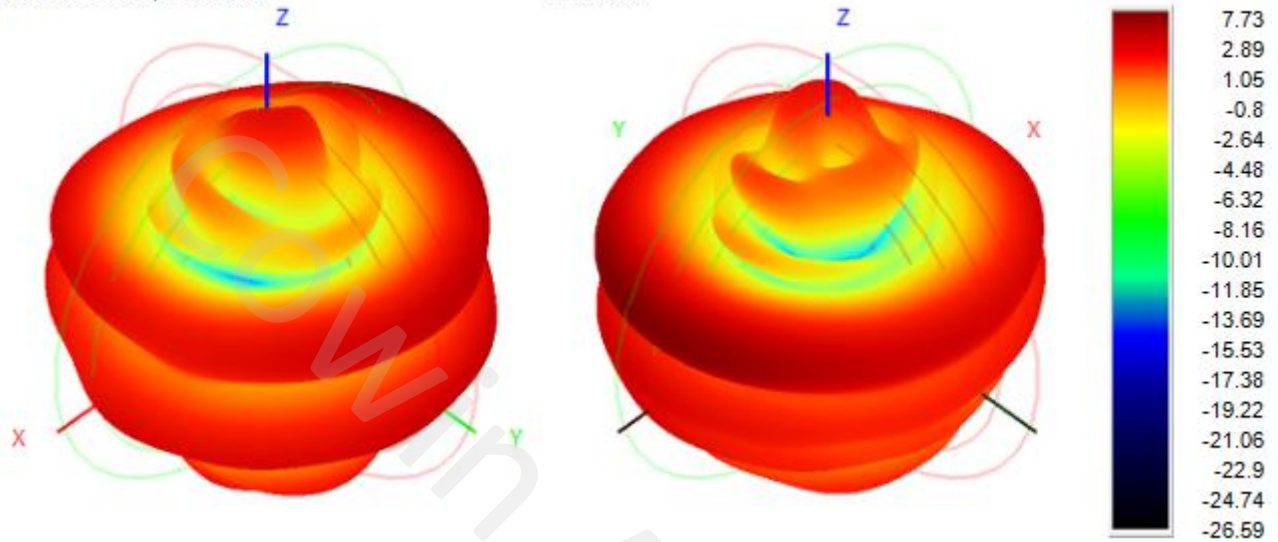


6500.0MHz Total(E2-YZ), Max= 3.85dBi



7000.0MHz Total, Eff: 60.1%

Back View



7000.0MHz Total(E1-XZ), Max= 4.73dBi

7000.0MHz Total(E2-YZ), Max= 2.29dBi

