

CW-WZ-0064

2.4G/5.8G External Antenna

Key Features

Frequency: 2.4G-2.5G/4.9G-5.85G

SMA Male Connector

External Rubber

Dimensions 108*7.9 mm

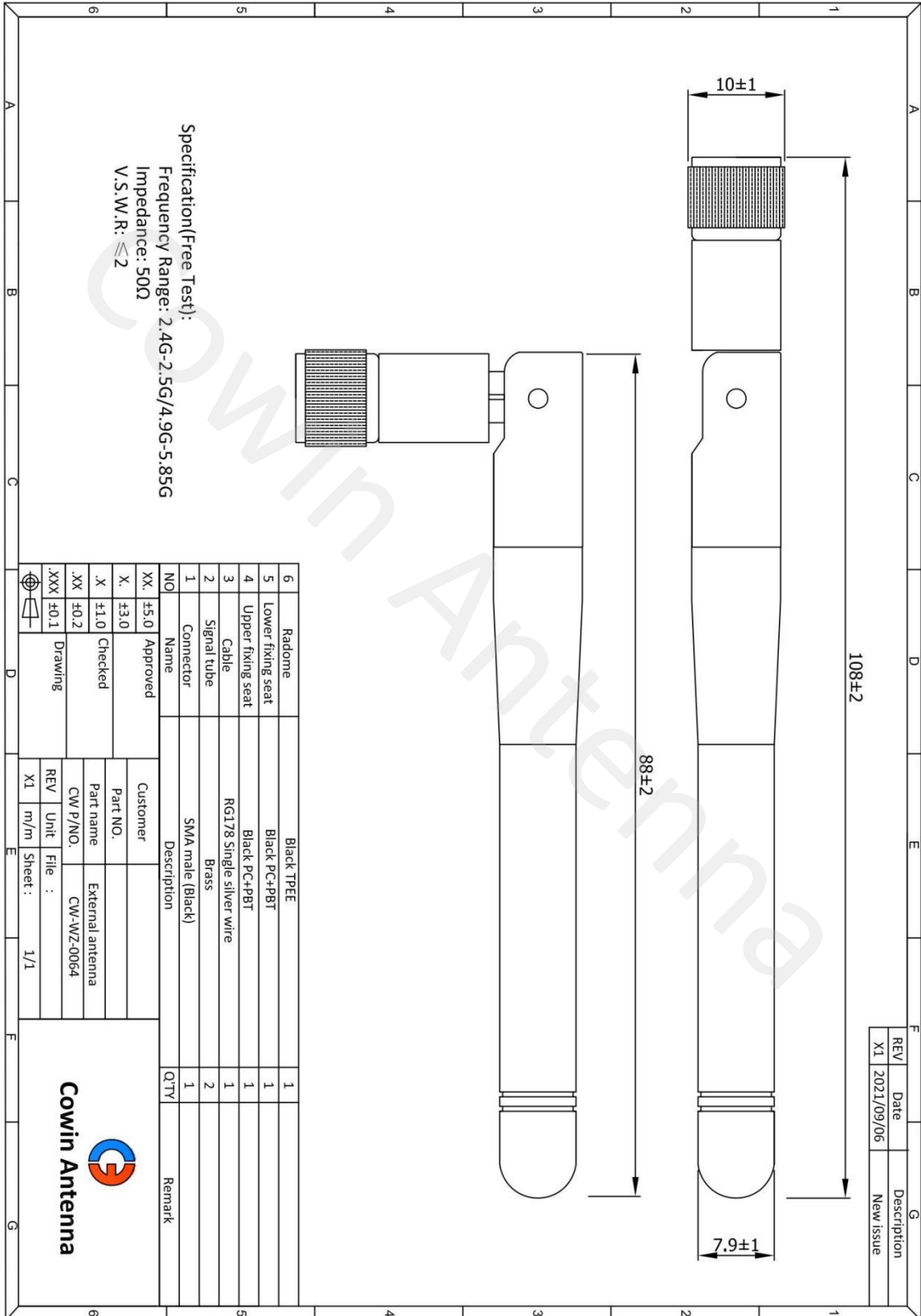


1. Antenna Electrical Characteristics

| | | |
|----------------------|-----------|------------|
| Band (MHz) | | |
| Frequency (MHz) | 2.4G-2.5G | 4.9G-5.85G |
| VSWR | 2:1 | 2:1 |
| Efficiency (%) | 62.99% | 61.02% |
| Peak Gain (dBi) | 3.28 | 3.73 |
| Impedance (Ohm) | | 50 |
| Polarisation | | Vertical |
| Max. Input Power (W) | | 10 |
| Connector Type | | SMA male |

2. Material and environmental characteristics

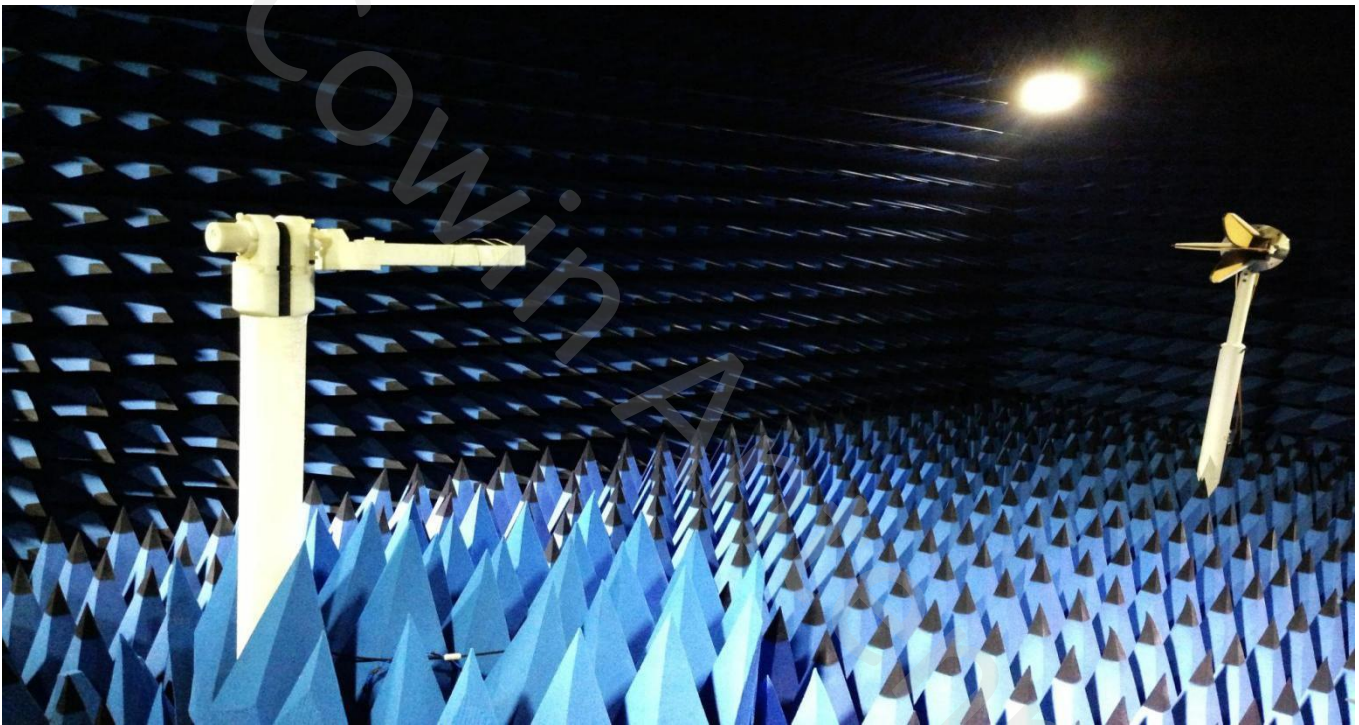
| | |
|----------------------------|-------------|
| Material of PCB | N/A |
| Material of Plastic | PC+PBT/TPEE |
| Cable Type | RG178 |
| Connector Type | SMA male |
| Dimensions (mm) | 108*7.9MM |
| Antenna color | Black |
| Operation Temperature | -40 to +80 |
| Storage Temperature | -40 to +80 |
| Antenna Storage life(year) | 10 |
| Substance Compliance | ROHS |



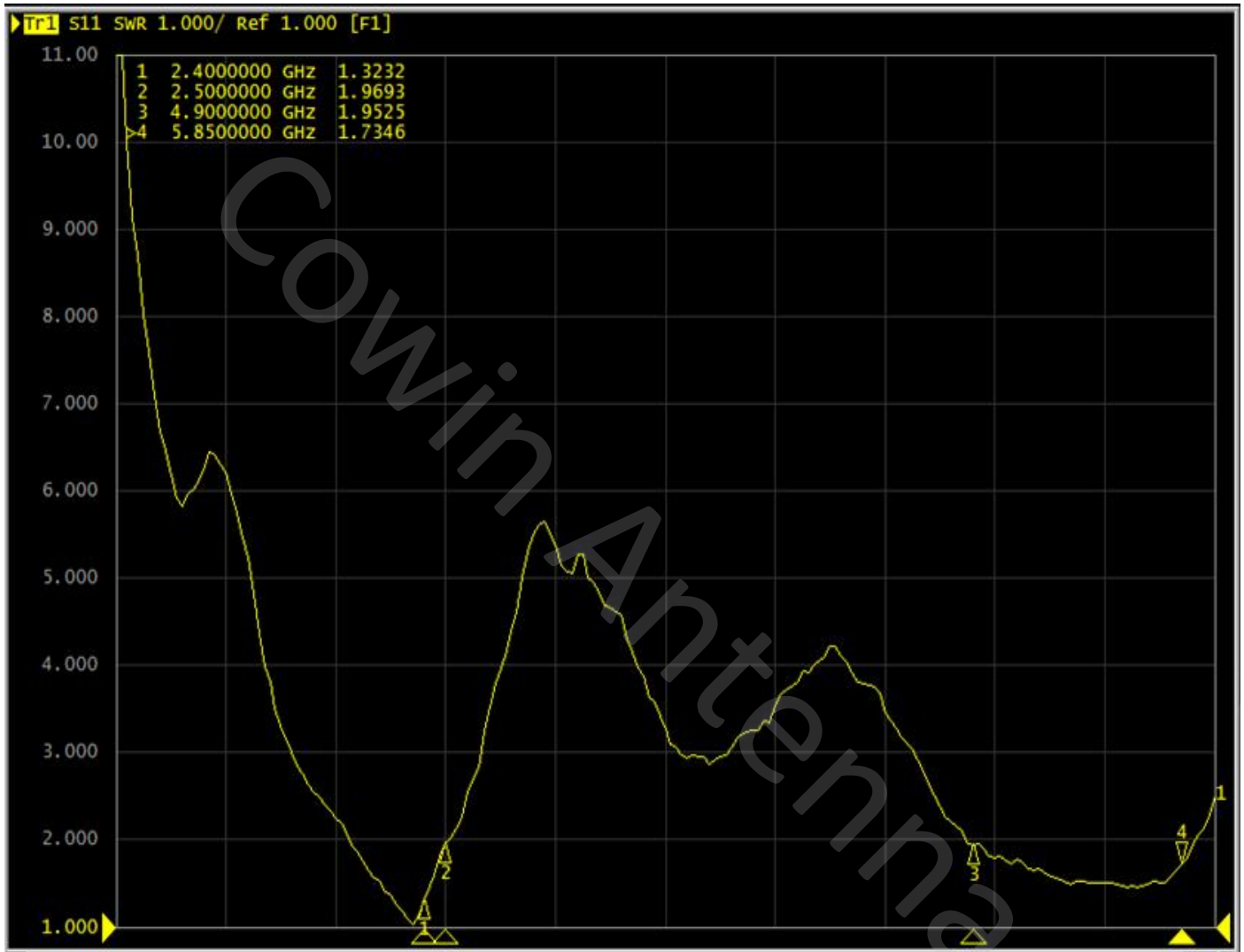
4. Antenna test parameters

Antenna Measurement Conditions:

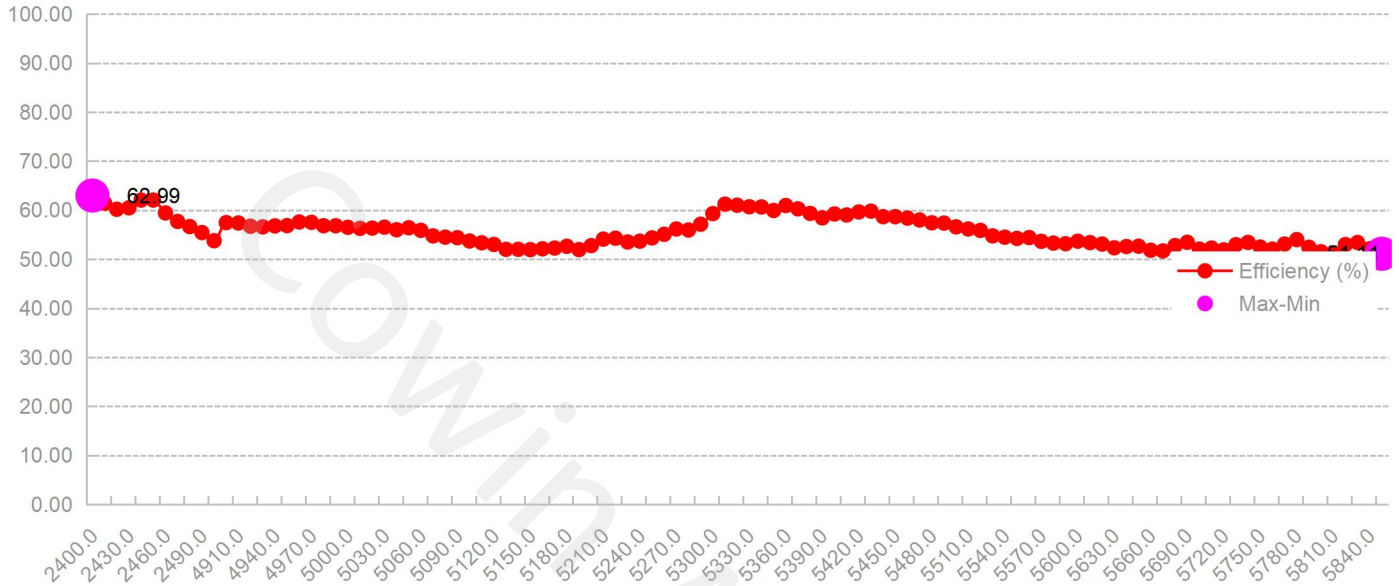
- Mounted on Ground Plane of 280 x 80 mm
- Measured in Certified 3D Anechoic Chamber
- The network analyzer is Agilent 5071c
- The comprehensive tester is Agilent cmv500



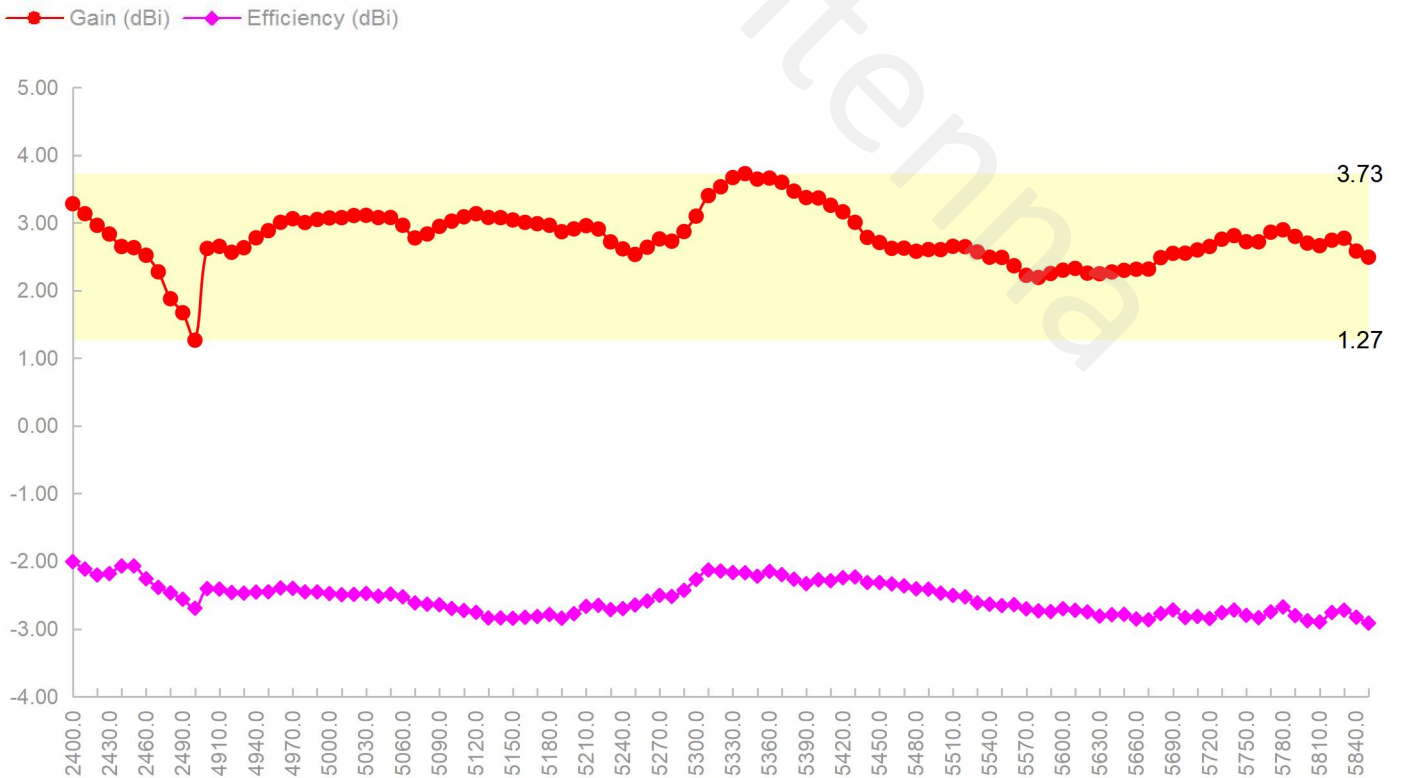
4.1 VSWR



4.2 Efficiency

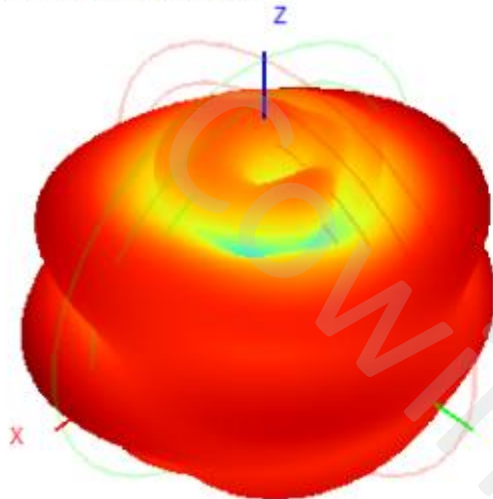


4.3 Peak gain

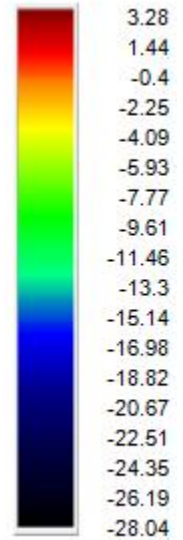
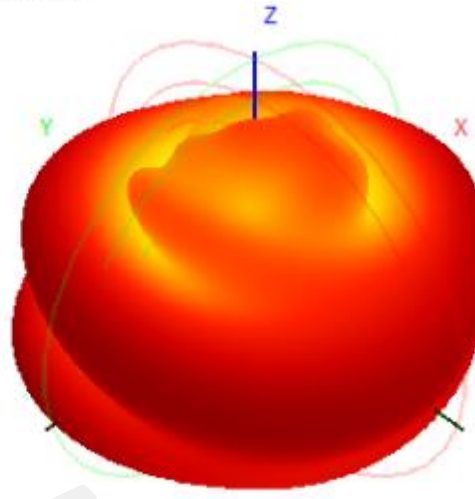


4.4 3D&2D Radiation Patterns

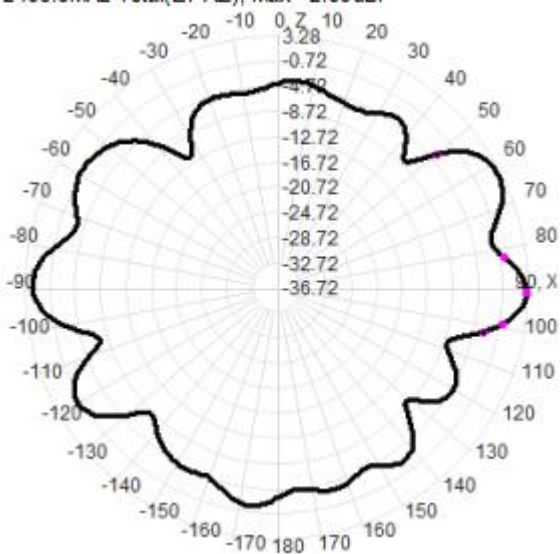
2400.0MHz H+V, Eff: 63.0%



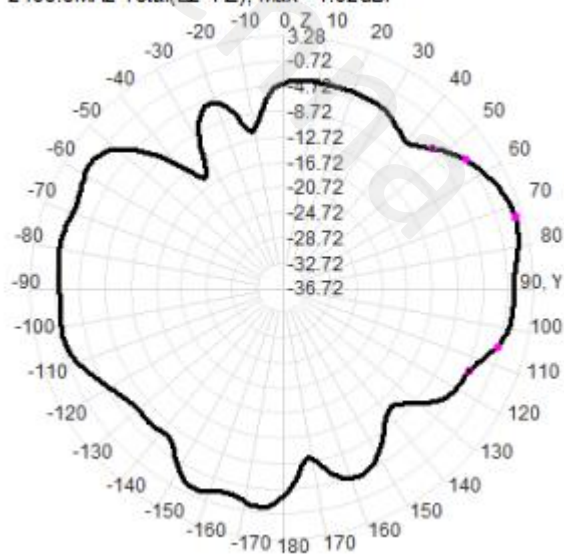
Back View



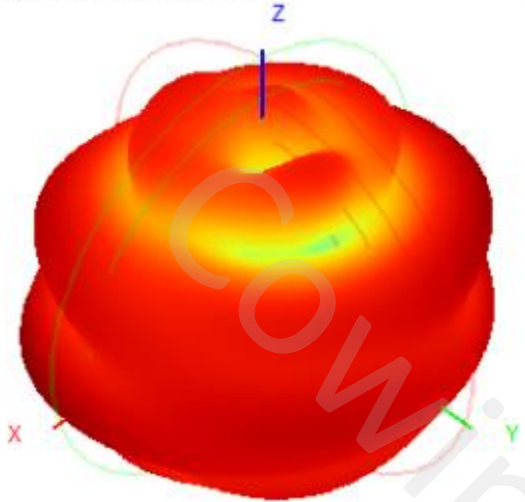
2400.0MHz Total(E1-XZ), Max= 2.69dBi



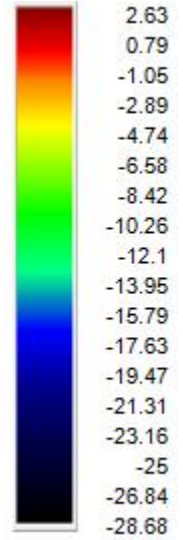
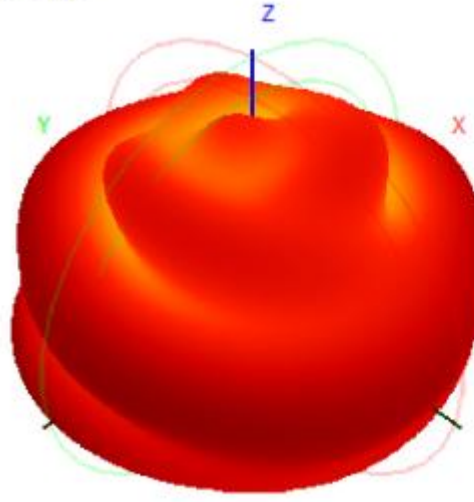
2400.0MHz Total(E2-YZ), Max= 1.82dBi



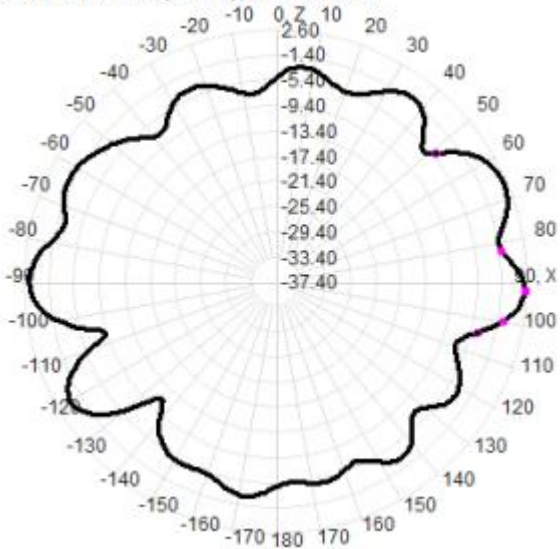
2450.0MHz H+V, Eff: 62.1%



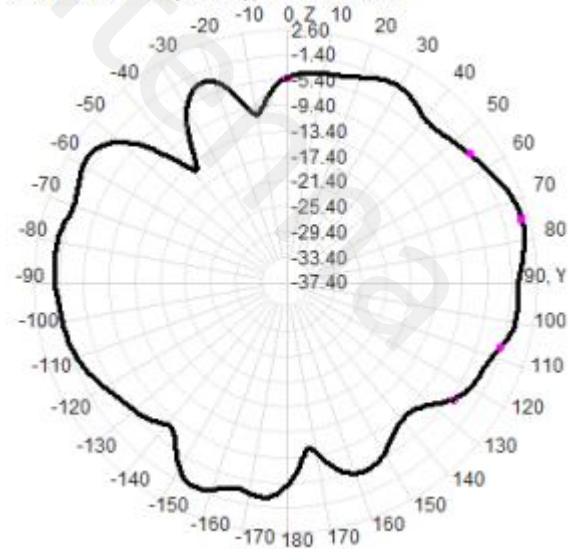
Back View



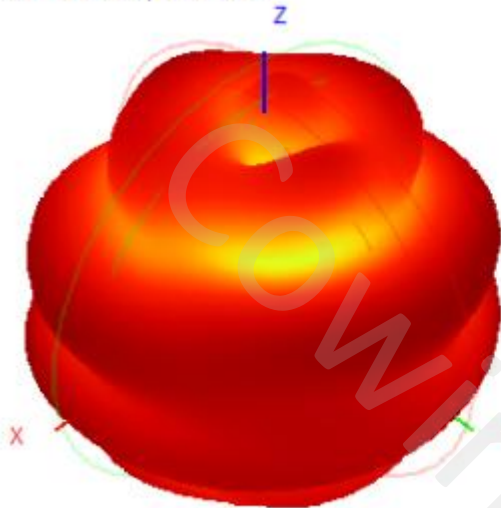
2450.0MHz Total(E1-XZ), Max= 1.94dBi



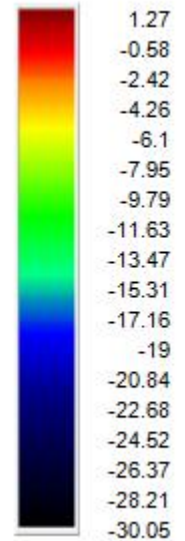
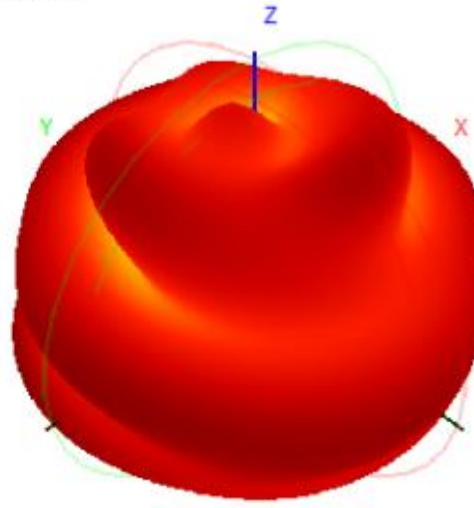
2450.0MHz Total(E2-YZ), Max= 1.17dBi



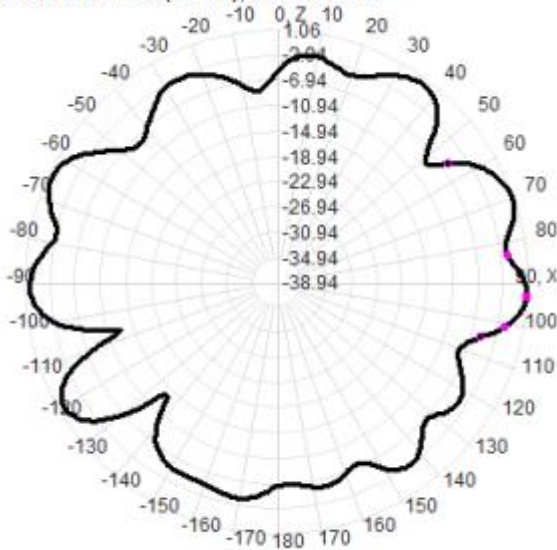
2500.0MHz H+V, Eff: 53.8%



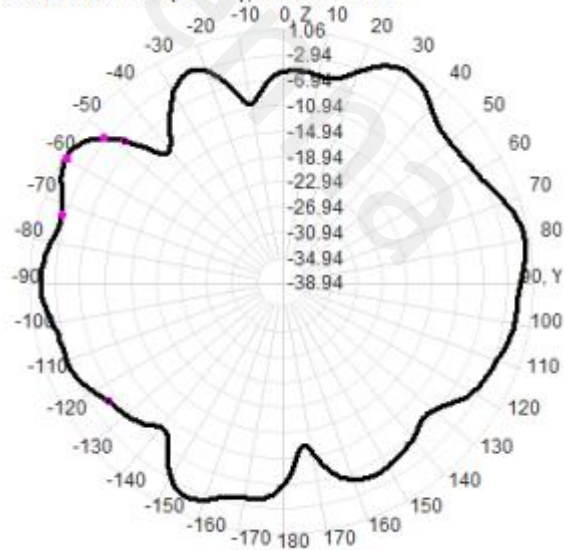
Back View



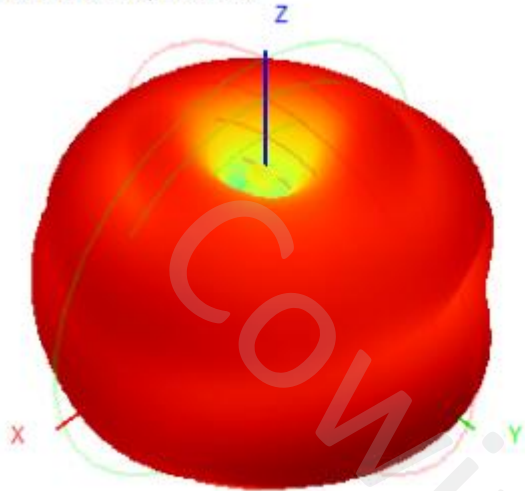
2500.0MHz Total(E1-XZ), Max= 0.63dBi



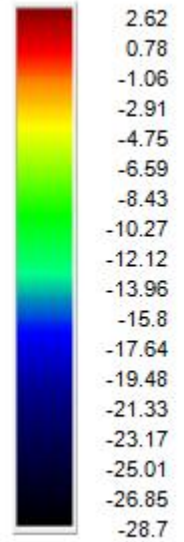
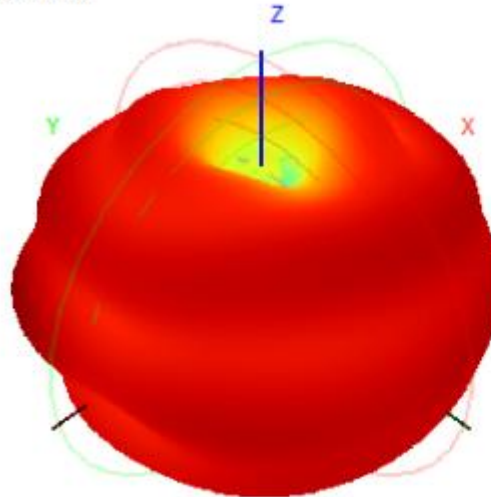
2500.0MHz Total(E2-YZ), Max= 0.59dBi



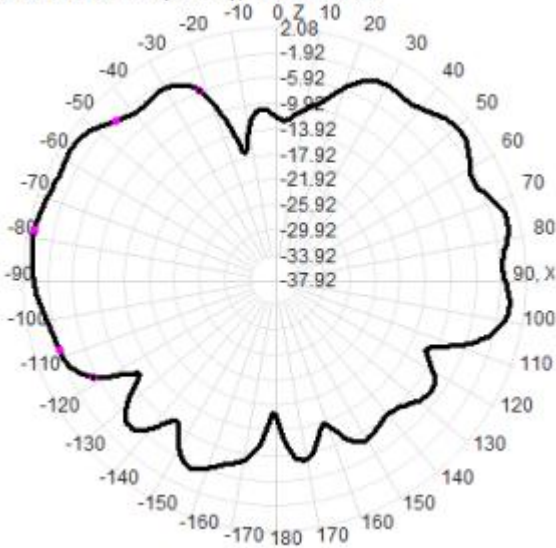
4900.0MHz H+V, Eff: 57.5%



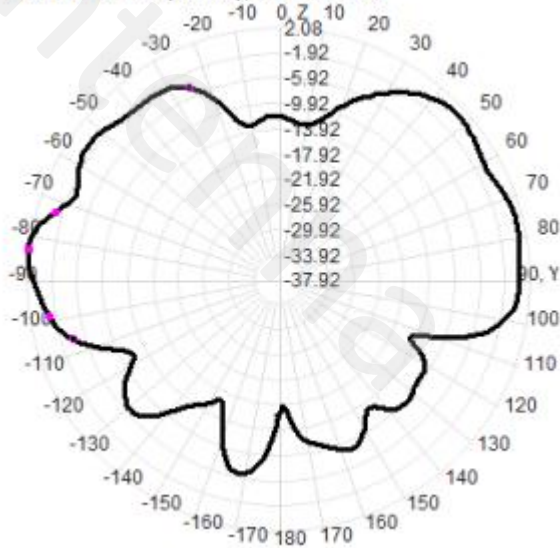
Back View



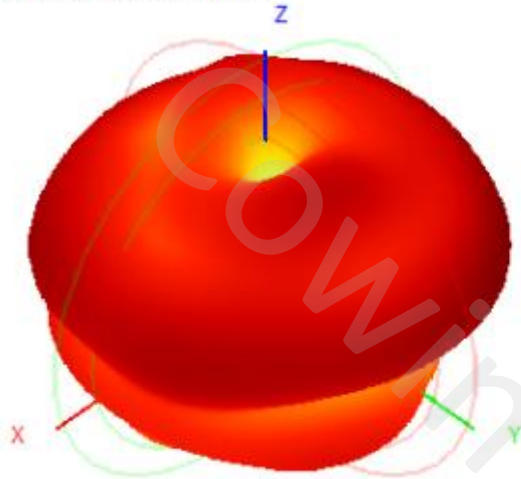
4900.0MHz Total(E1-XZ), Max= 1.06dBi



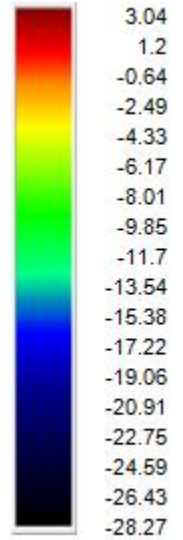
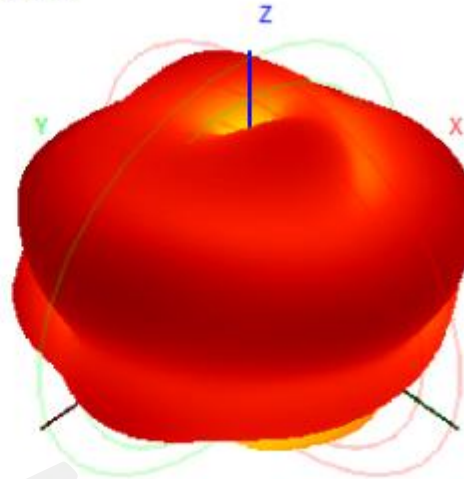
4900.0MHz Total(E2-YZ), Max= 2.08dBi



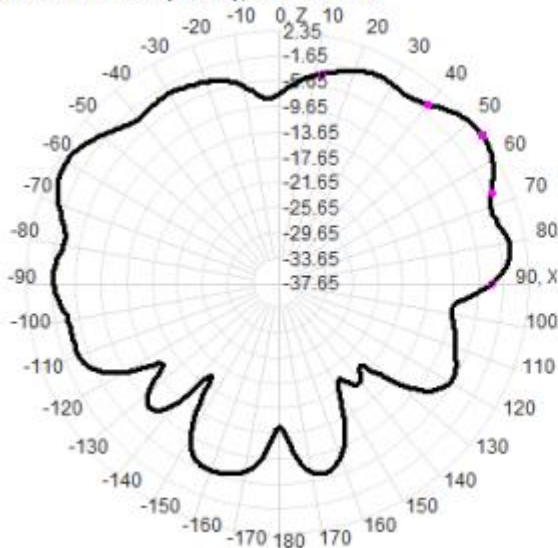
5150.0MHz H+V, Eff: 52.0%



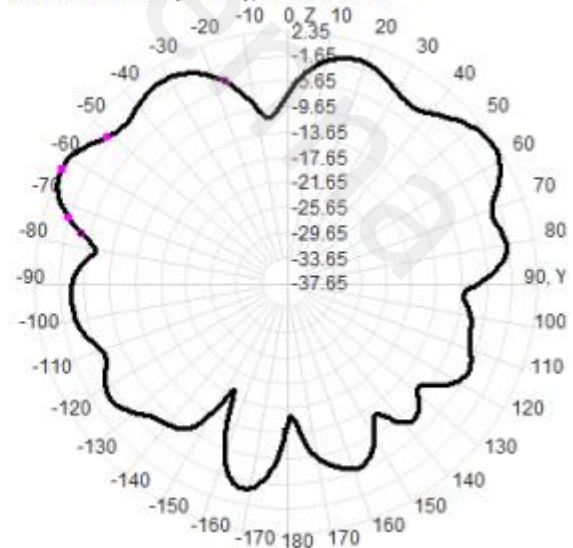
Back View



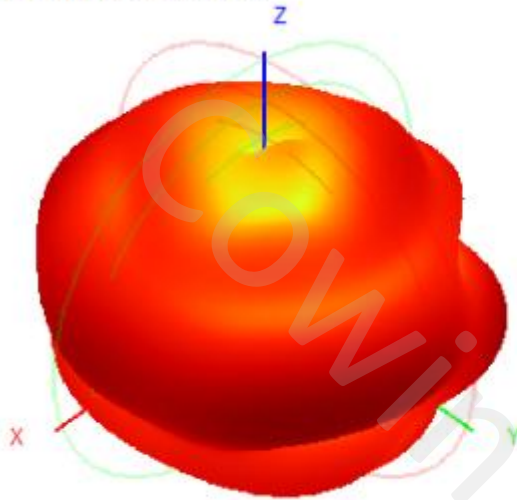
5150.0MHz Total(E1-XZ), Max= 2.35dBi



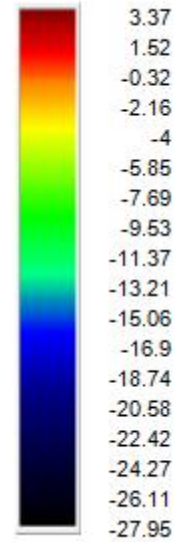
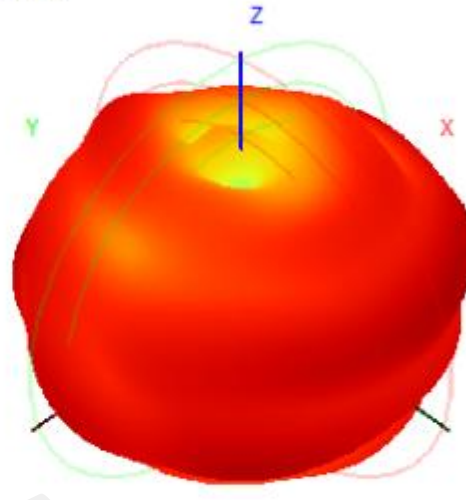
5150.0MHz Total(E2-YZ), Max= 2.28dBi



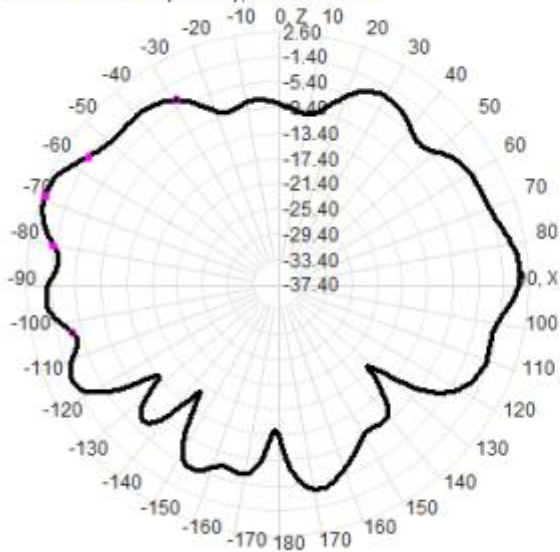
5400.0MHz H+V, Eff: 59.2%



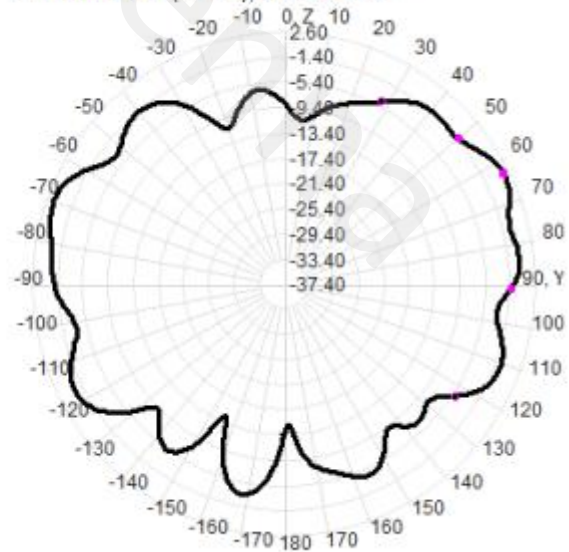
Back View



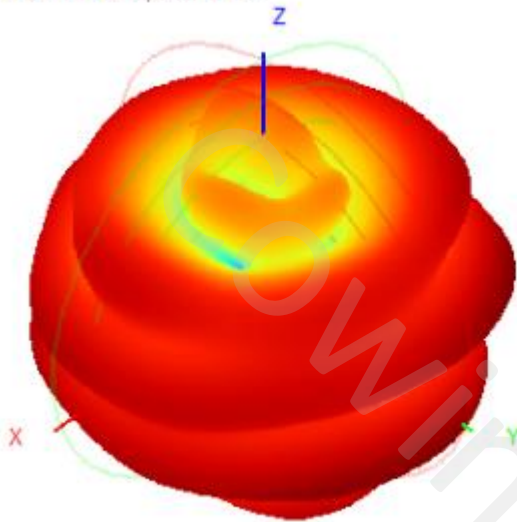
5400.0MHz Total(E1-XZ), Max= 2.15dBi



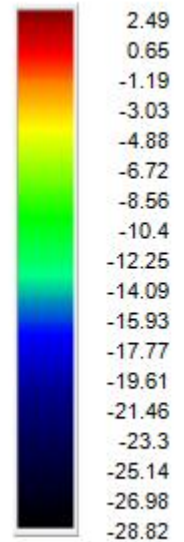
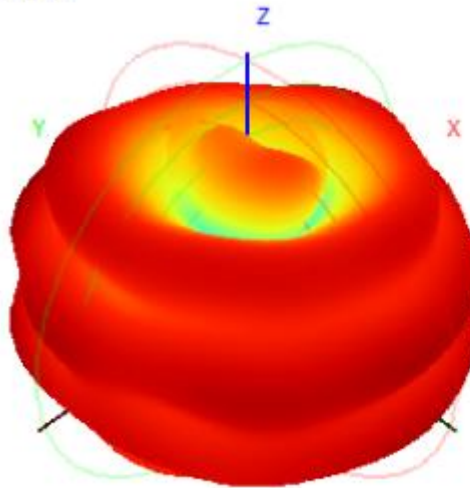
5400.0MHz Total(E2-YZ), Max= 1.55dBi



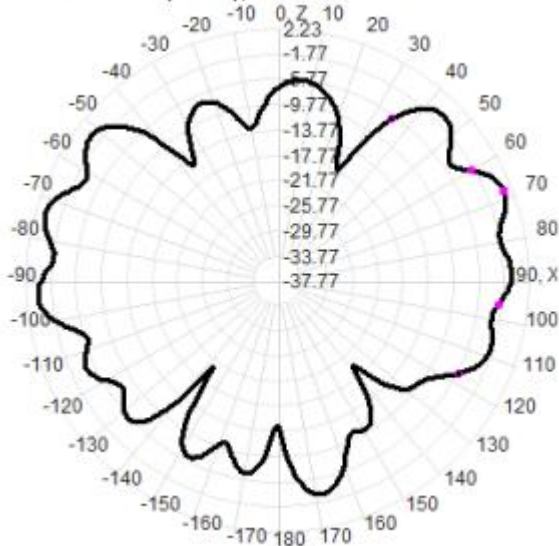
5850.0MHz H+V, Eff: 51.1%



Back View



5850.0MHz Total(E1-XZ), Max= 0.65dBi



5850.0MHz Total(E2-YZ), Max= 2.23dBi

