

AMC-ANT-2JF0224P

Cellular/LTE Flexible Polymer (FPC) Antenna

Features

- Cellular/LTE
 - 698 – 960MHz
 - 1710 – 2170MHz
 - 2500 – 2700MHz
- Self-adhesive
- Small form factor
- High performance
- Flexible material
- Ground plane independent
- Dimensions: 40.0 x 7.0 x 0.15mm
- Customisable cable and connector



1. Antenna and electrical specifications

| Parameters | Cellular/LTE Antenna | | |
|----------------------|--|---------------------|-------------|
| Standards | 2G/3G/4G | | |
| Band (MHz) | 700/850/900 | 1700/1800/1900/2100 | 2600 |
| Frequency (MHz) | 698 - 960 | 1710 - 2170 | 2500 - 2700 |
| Return Loss (dB) | ~-6.0 | ~-4.7 | ~-5.5 |
| VSWR | ~4.0:1 | ~3.9:1 | ~3.3:1 |
| Efficiency (%) | ~40.0 | ~46.1 | ~53.8 |
| Peak Gain (dBi) | ~0.1 | ~1.4 | ~1.8 |
| Average Gain (dB) | ~-4.9 | ~-3.4 | ~-2.7 |
| Impedance (Ohms) | 50 | | |
| Polarisation | Linear | | |
| Radiation Pattern | Omni-Directional | | |
| Max. Input Power (W) | 25 | | |
| Connector Type | U.FL standard (other connectors available) | | |
| Cable Length | 150mm standard (other lengths available) | | |
| Cable Type | 1.37mm mini coax standard (other cables available) | | |

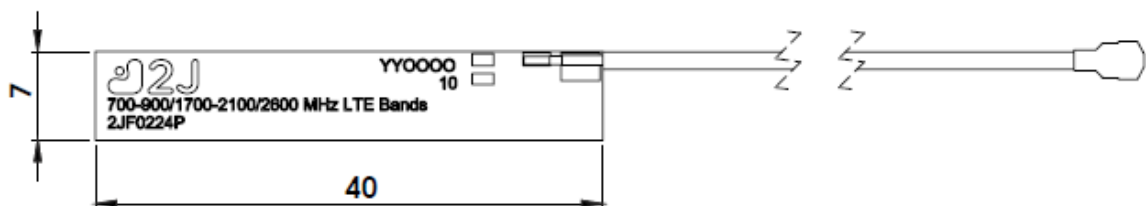
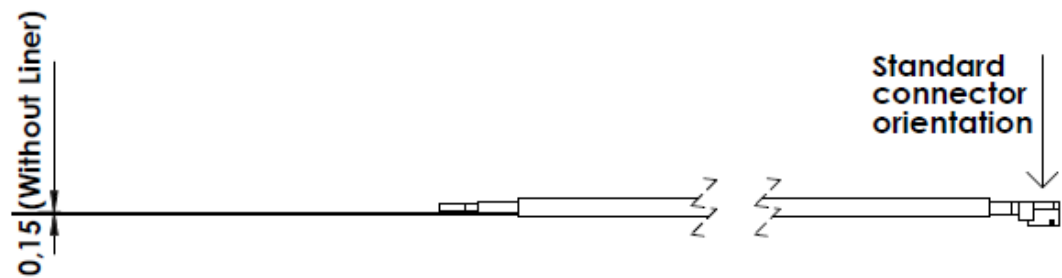
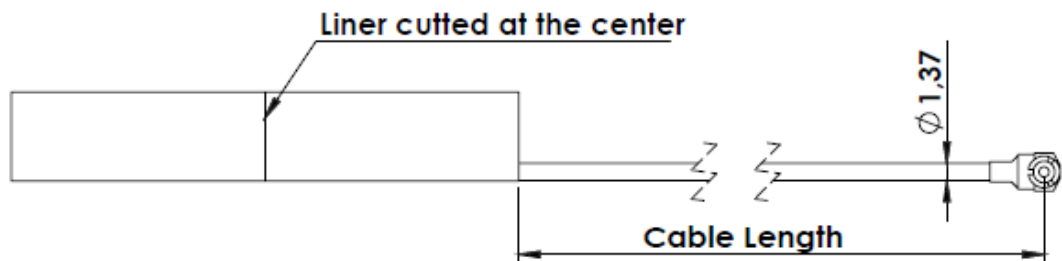
Measurement Conditions:

- Mounted on 30 x 30 x 0.25cm ABS plate
- 150mm of 1.37mm mini coax cable
- Measured in certified CTIA 3D anechoic chamber

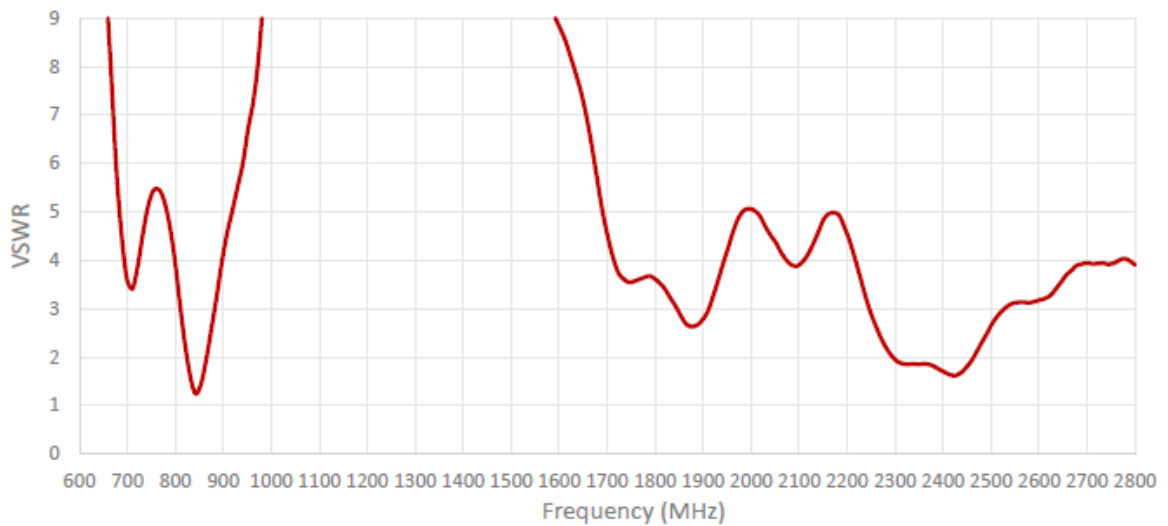
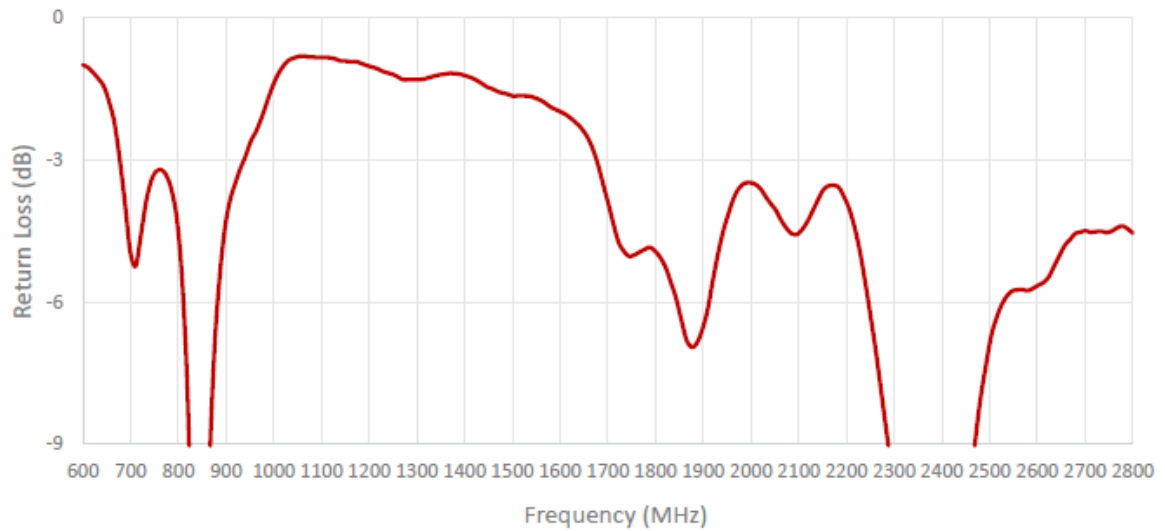


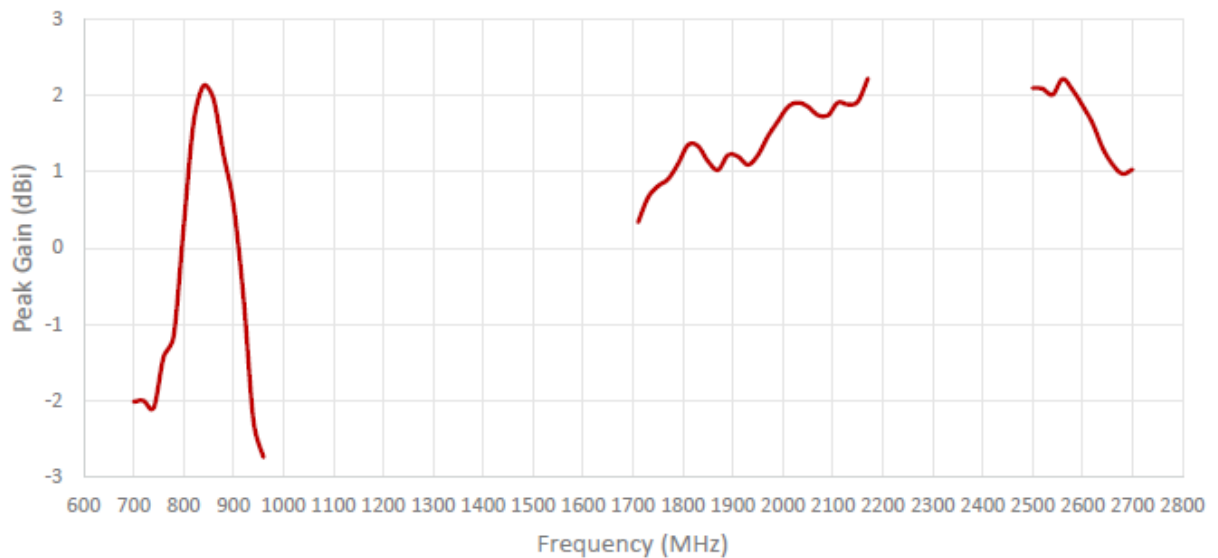
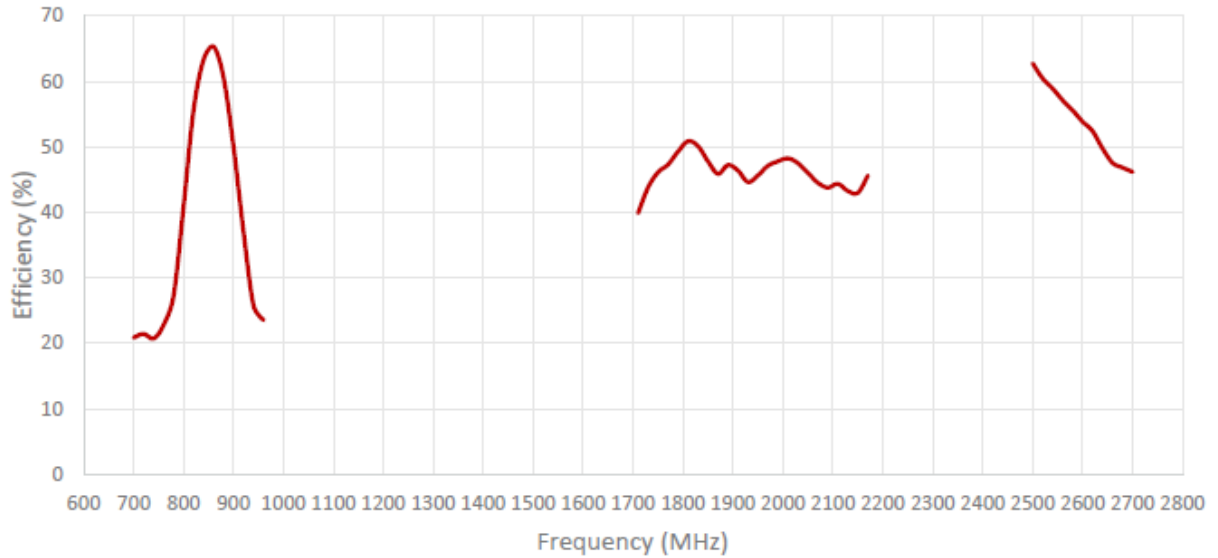
2. Mechanical and environmental specifications

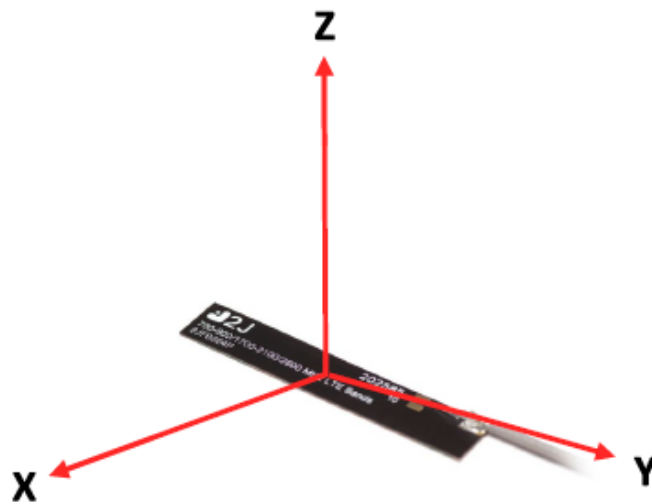
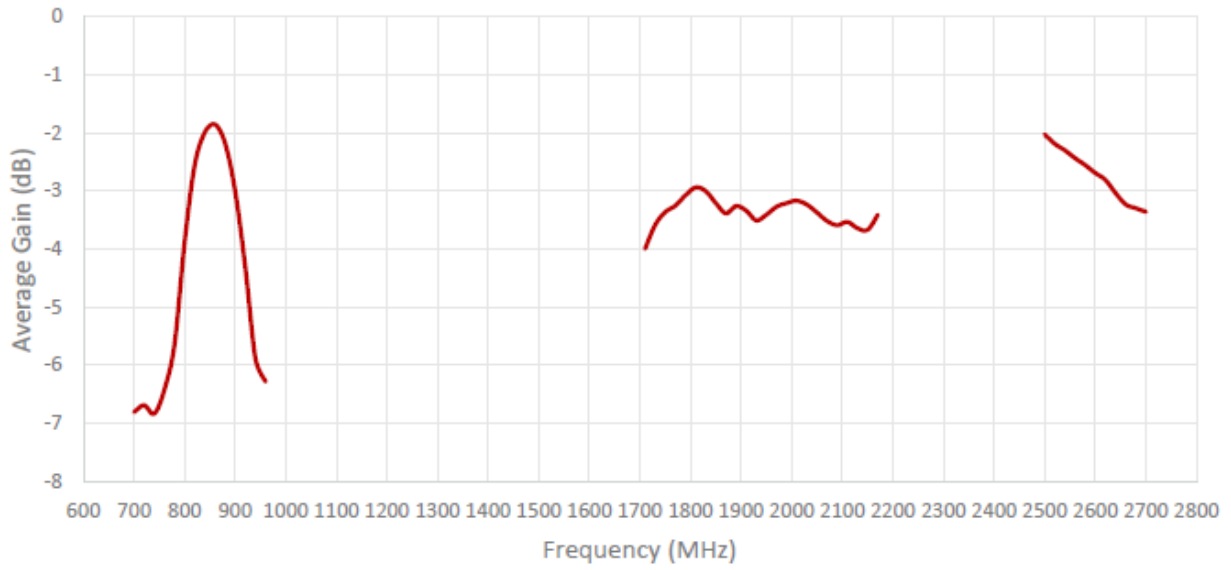
| | |
|-----------------------------------|-------------------|
| Mounting Type | Self-adhesive |
| Dimensions (mm) | 40.0 x 7.0 x 0.15 |
| Adhesive type | 3M 467 |
| Material | Flexible polymer |
| Operating Temperature (°C) | -40 to +85 |
| Storage Temperature (°C) | -40 to +85 |
| Substance Compliance | RoHS |



3. Antenna parameters

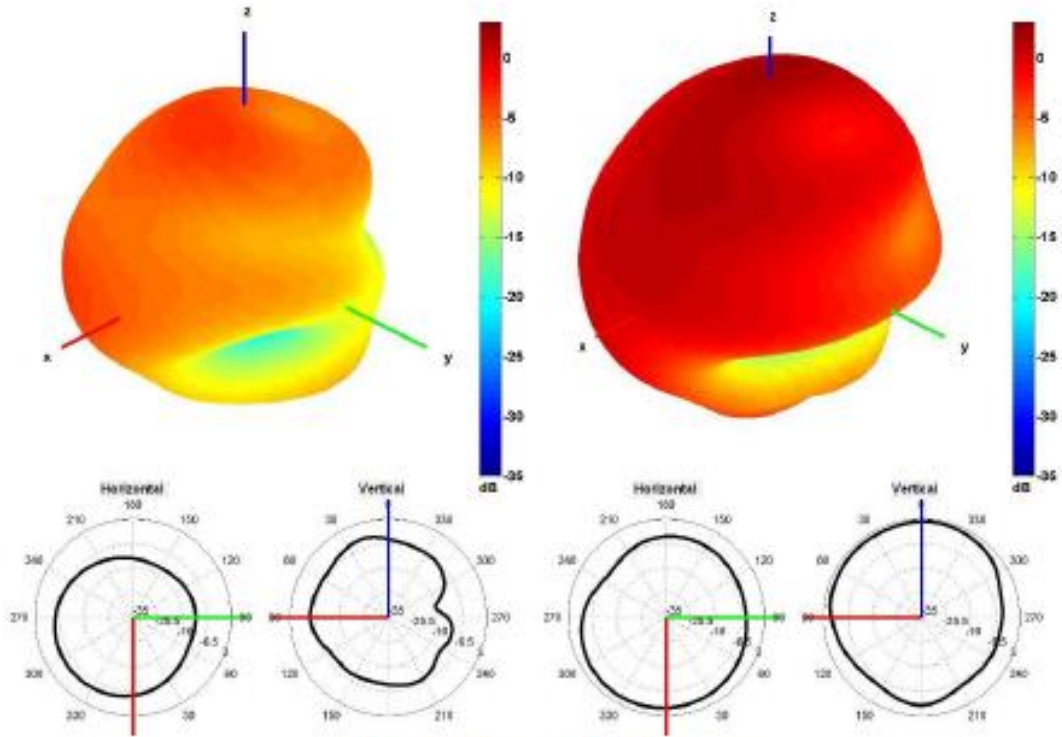




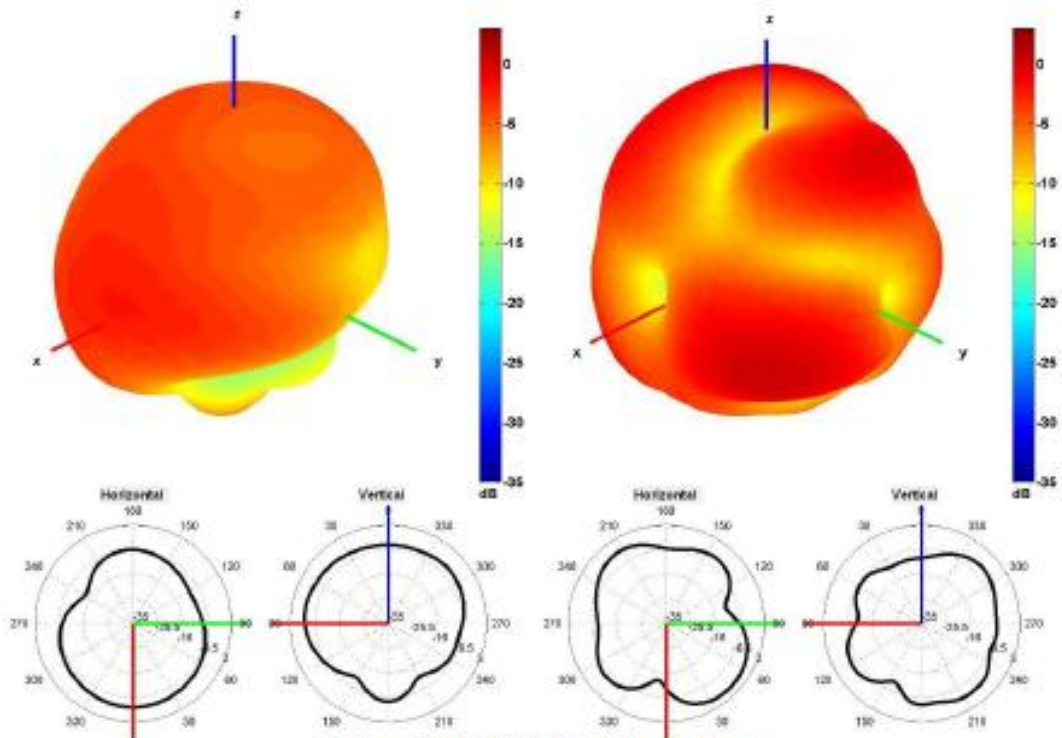


Radiation pattern reference



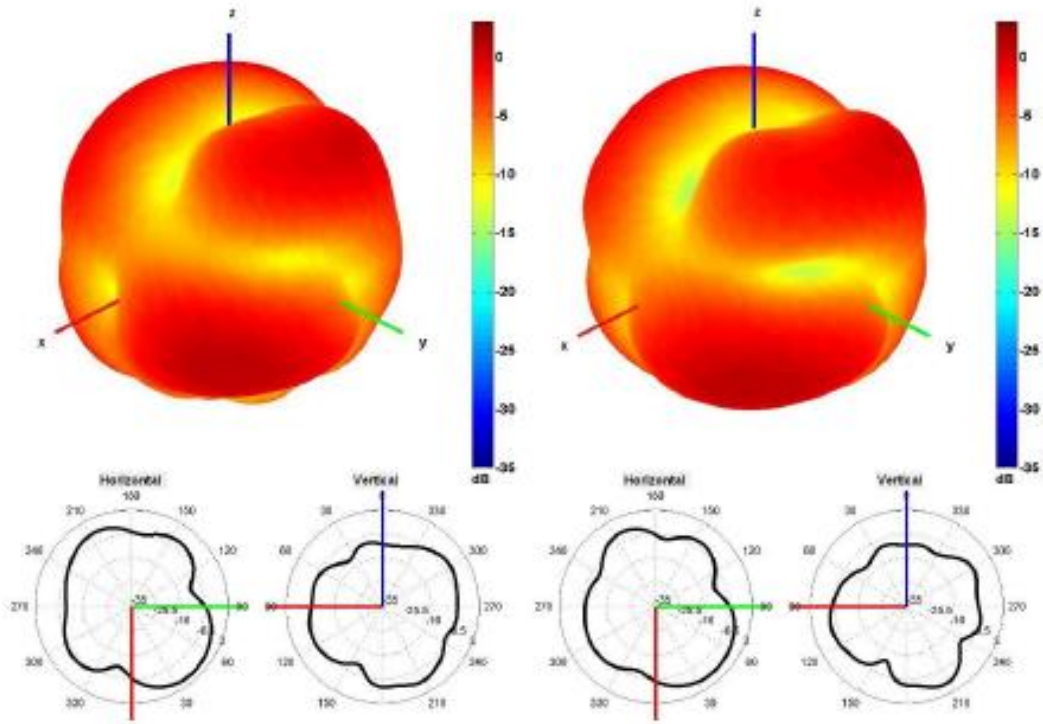


750 and 850 MHz Radiation pattern

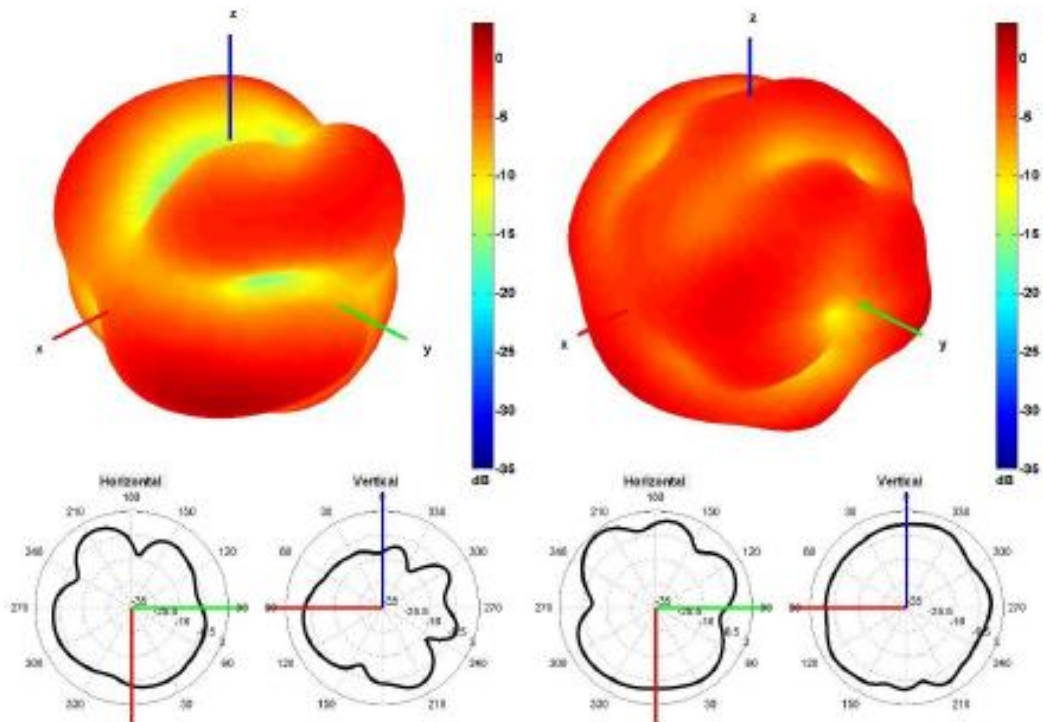


940 and 1750 MHz Radiation pattern





1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern

