

## AMC-ANTELTWM01

**Type** Cellular/LTE wall mount antenna

### Features

- Cellular/LTE:
  - 698 – 960MHz
  - 1710 – 2170MHz
  - 2500 – 2700MHz
- Wall mount
- Ground plane independent
- IP67 rating
- Dimensions - 325 x 36 x 155mm (220 x Ø 16mm)
- Customisable cable and connector



### Certifications:



Alpha Micro UK: Tel: +44 1256 851770 | email: [sales@alphamicro.net](mailto:sales@alphamicro.net)  
[www.alphamicro.net](http://www.alphamicro.net)

## 1. Antenna and Electrical Specifications

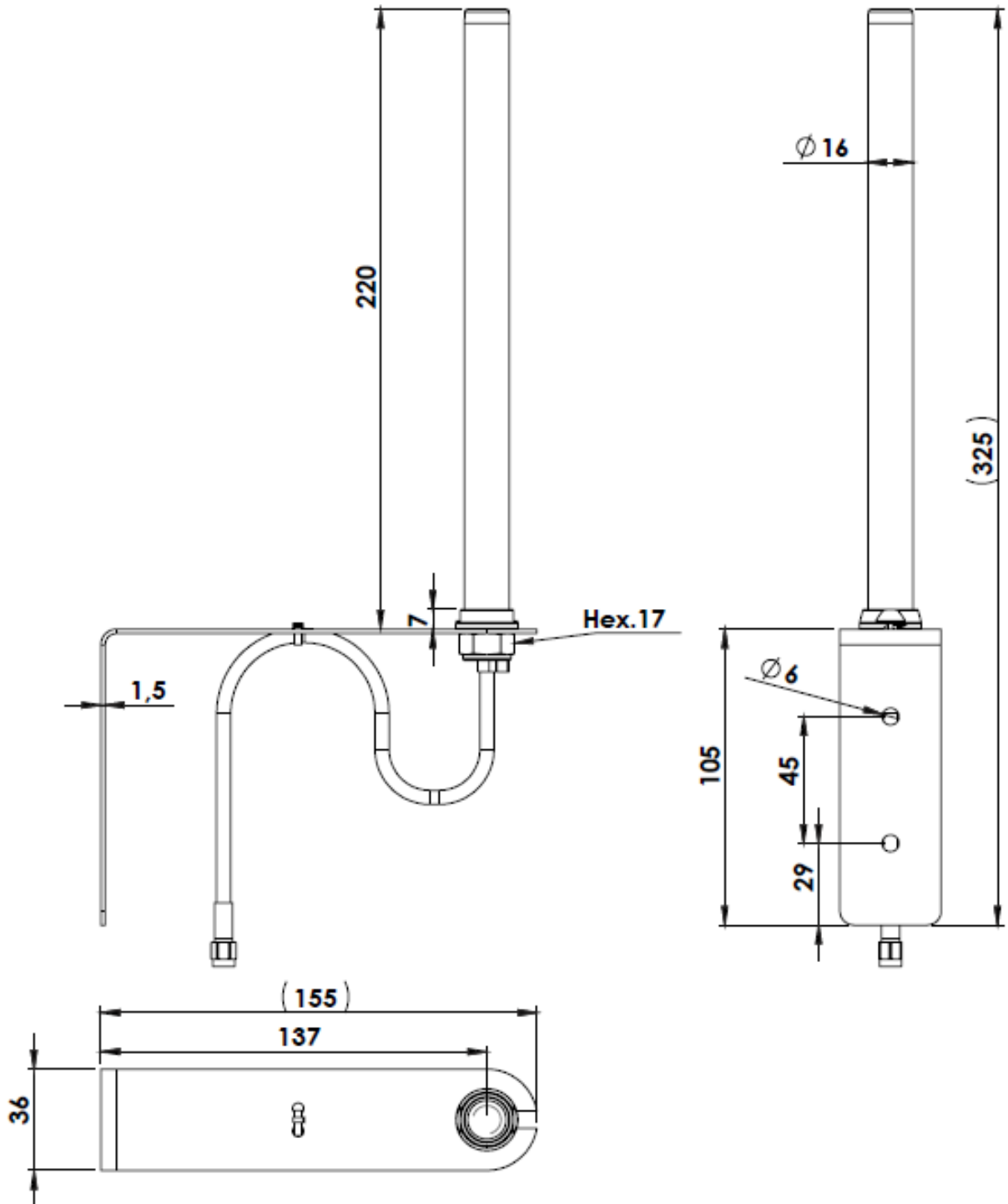
| Parameters                  | Cellular/LTE antenna                                    |                     |             |
|-----------------------------|---|---------------------|-------------|
| <b>Standards</b>            | 2G/3G/4G  |                     |             |
| <b>Band (MHz)</b>           | 700/850/900   | 1700/1800/1900/2100 | 2600        |
| <b>Frequency (MHz)</b>      | 698 - 960   | 1710 - 2170         | 2500 - 2700 |
| <b>Return loss (dB)</b>     | ~-16  | ~-16                | ~-16        |
| <b>VSWR</b>                 | ~1.4:1  | ~1.4:1              | ~1.4:1      |
| <b>Efficiency (%)</b>       | ~67   | ~54                 | ~50         |
| <b>Peak gain (dBi)</b>      | ~3.4  | ~2.5                | ~1.0        |
| <b>Average gain (dB)</b>    | ~-1.8   | ~-2.7               | ~-3.0       |
| <b>Impedance (Ohms)</b>     | 50  |                     |             |
| <b>Polarisation</b>         | Linear  |                     |             |
| <b>Radiation pattern</b>    | Omni-Directional  |                     |             |
| <b>Max. input power (W)</b> | 25  |                     |             |
| <b>Connector Type</b>       | SMA male (nickel) standard (other connectors available) |                     |             |
| <b>Cable Length</b>         | 3m standard (other lengths available)                   |                     |             |
| <b>Cable Type</b>           | LMR195 standard (other cables available)                |                     |             |

### Measurement Conditions:

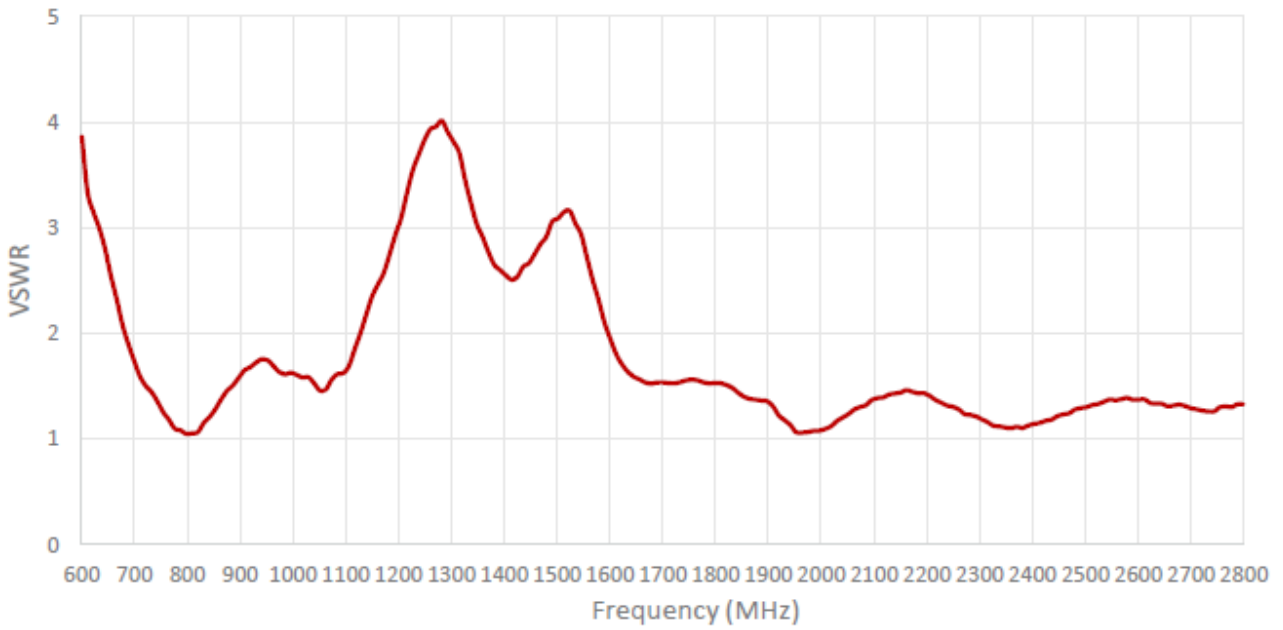
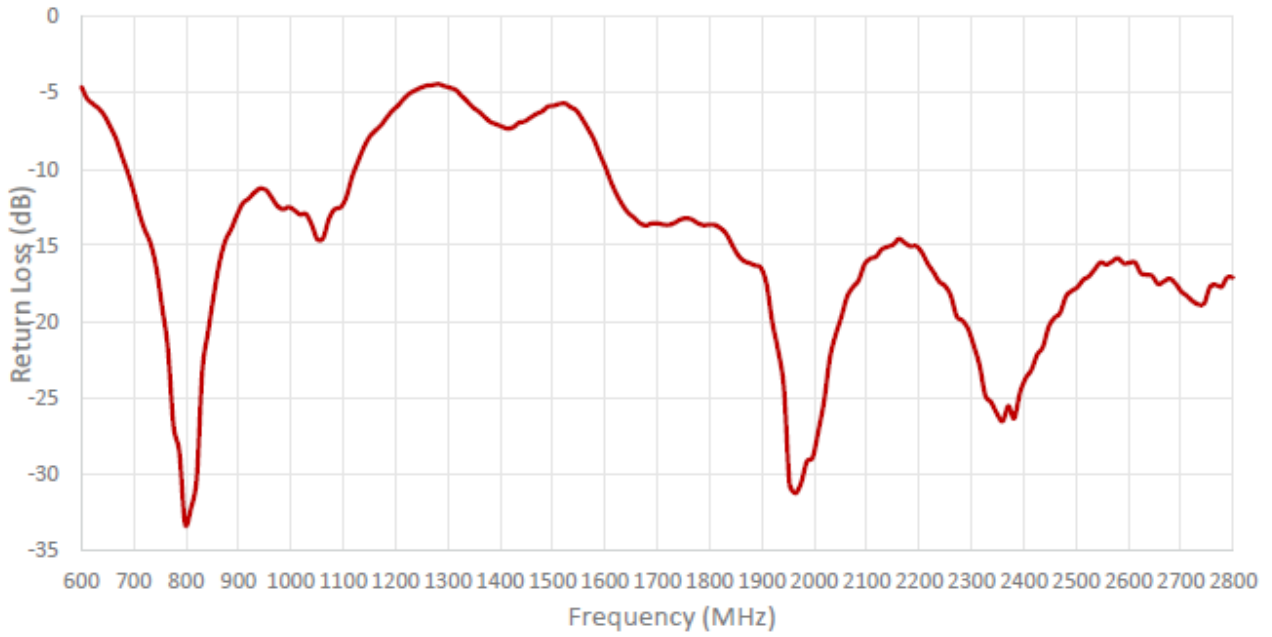
- Free space
- 2m LMR195 cable
- Measured in certified CTIA 3D Anechoic chamber

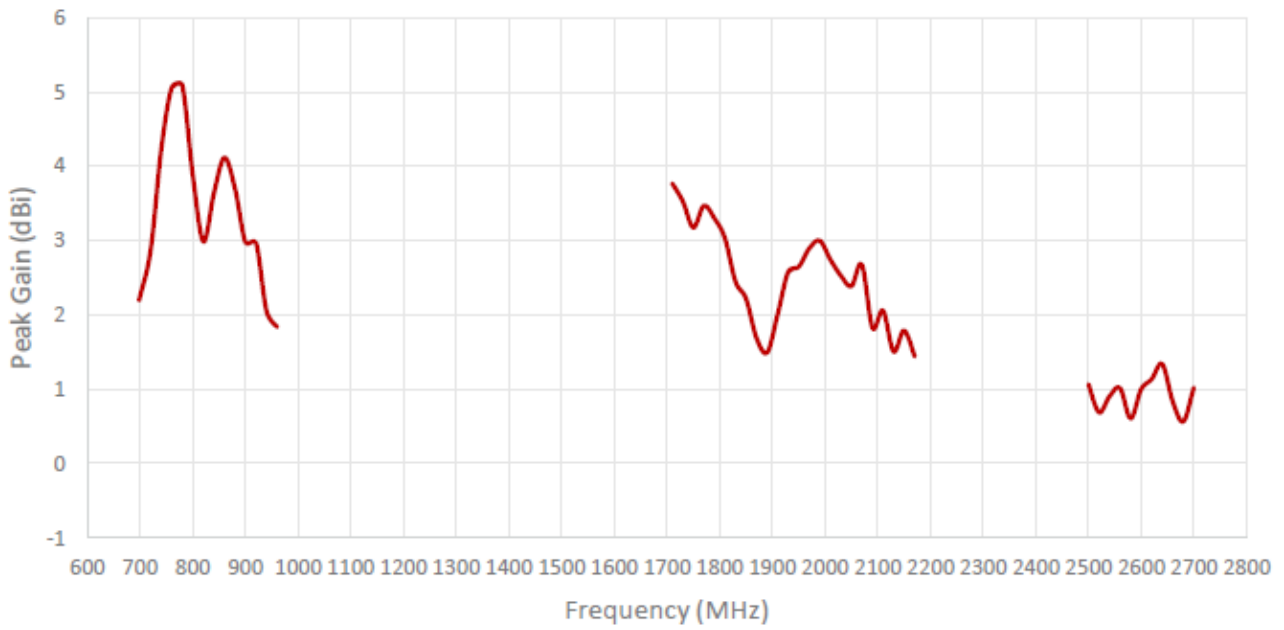
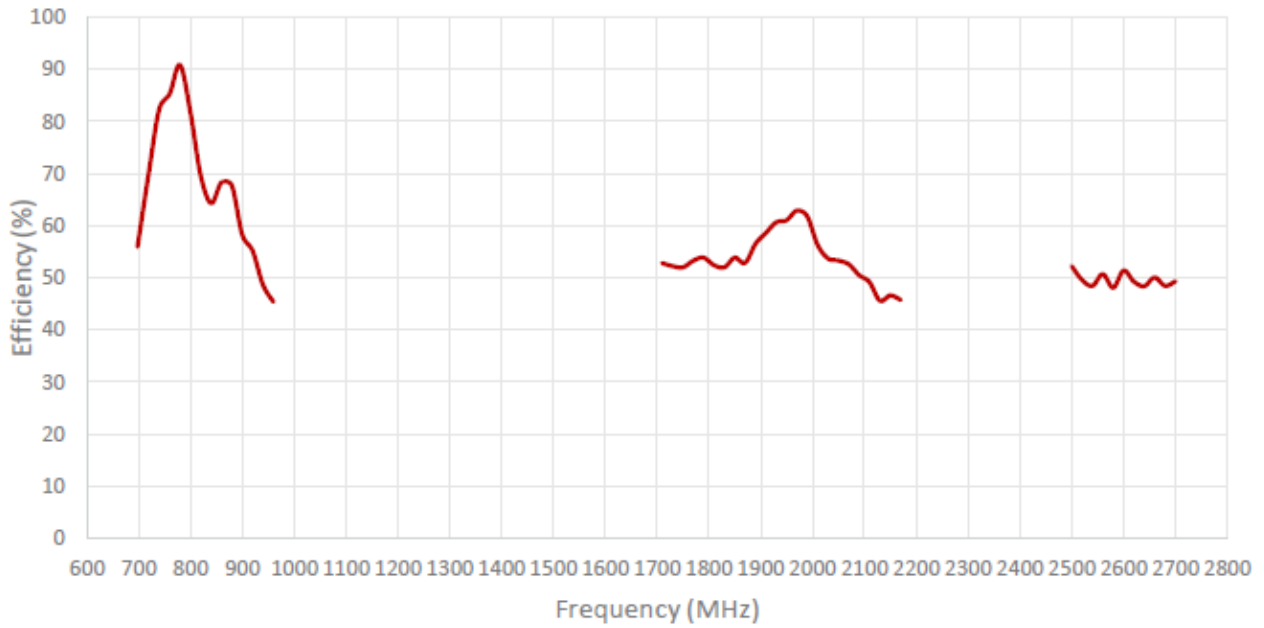
## 2. Mechanical and Environmental Specifications

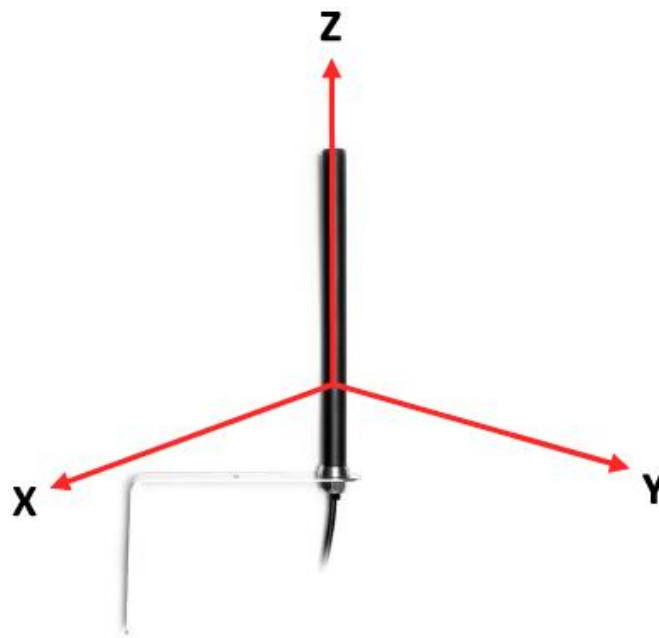
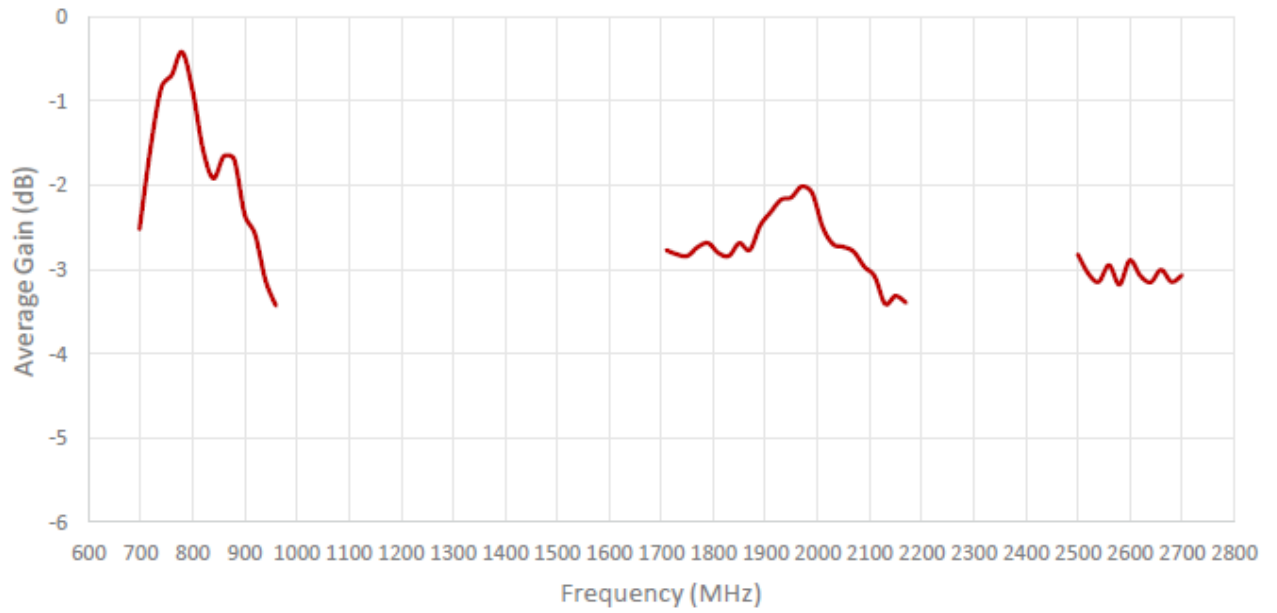
|                                   |                             |
|-----------------------------------|-----------------------------|
| <b>Mounting type</b>              | Wall mount                  |
| <b>Dimensions (mm)</b>            | 325 x 36 x 155 (220 x Ø 16) |
| <b>Radome</b>                     | PC/ABS UV stable            |
| <b>Radome Colour</b>              | Black                       |
| <b>Antenna Base</b>               | Brass                       |
| <b>Bracket</b>                    | Stainless steel             |
| <b>Operating temperature (°C)</b> | -40 to +85                  |
| <b>Storage temperature (°C)</b>   | -40 to +85                  |
| <b>Substance compliance</b>       | RoHS                        |
| <b>Certificates</b>               | IP67                        |



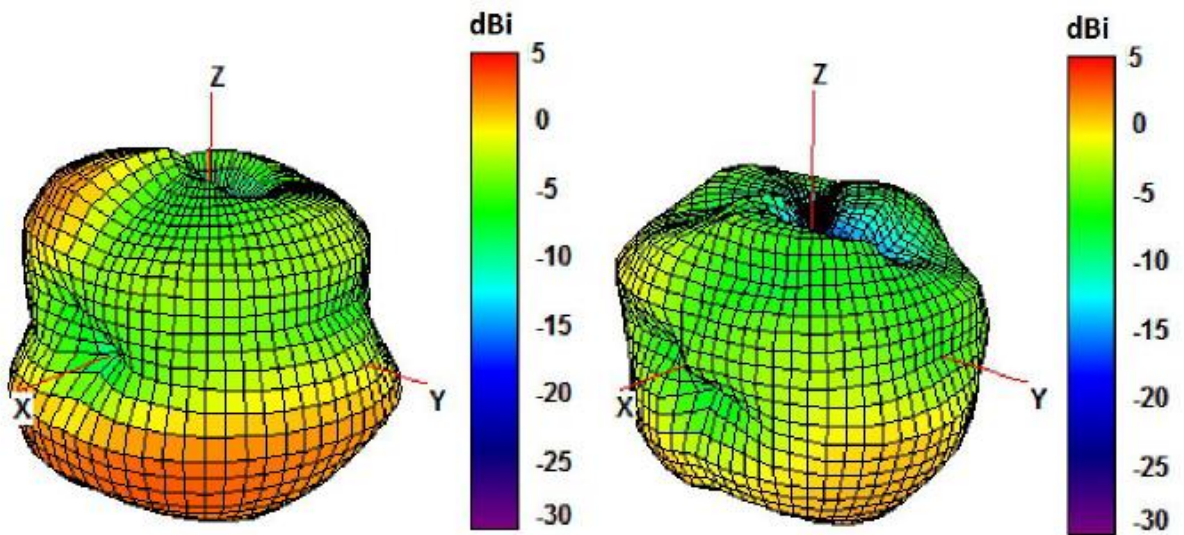
### 3. Antenna Parameters



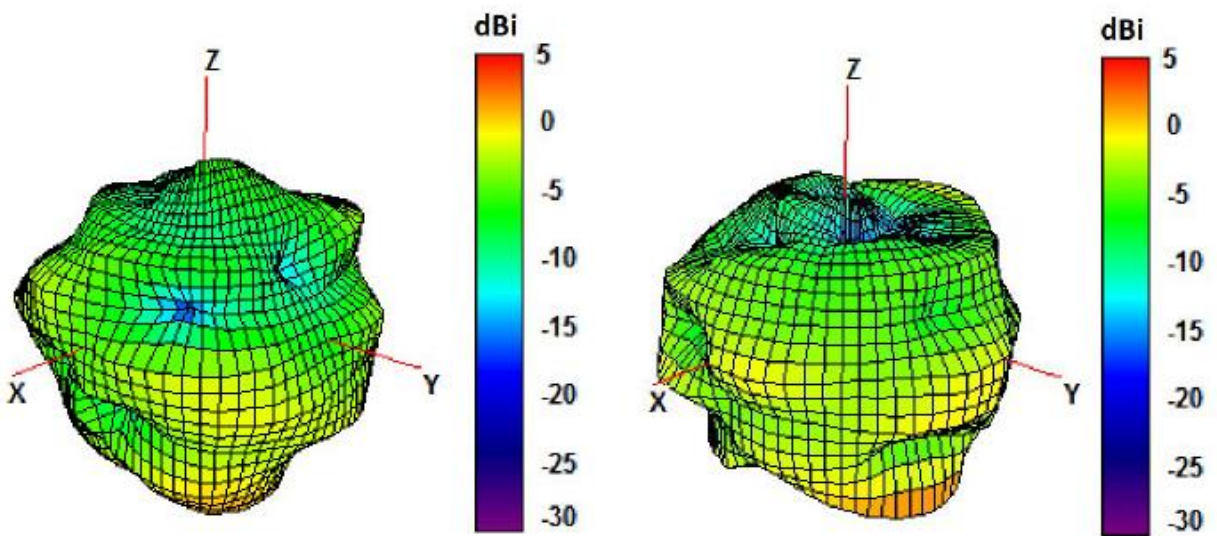




Radiation Pattern Reference

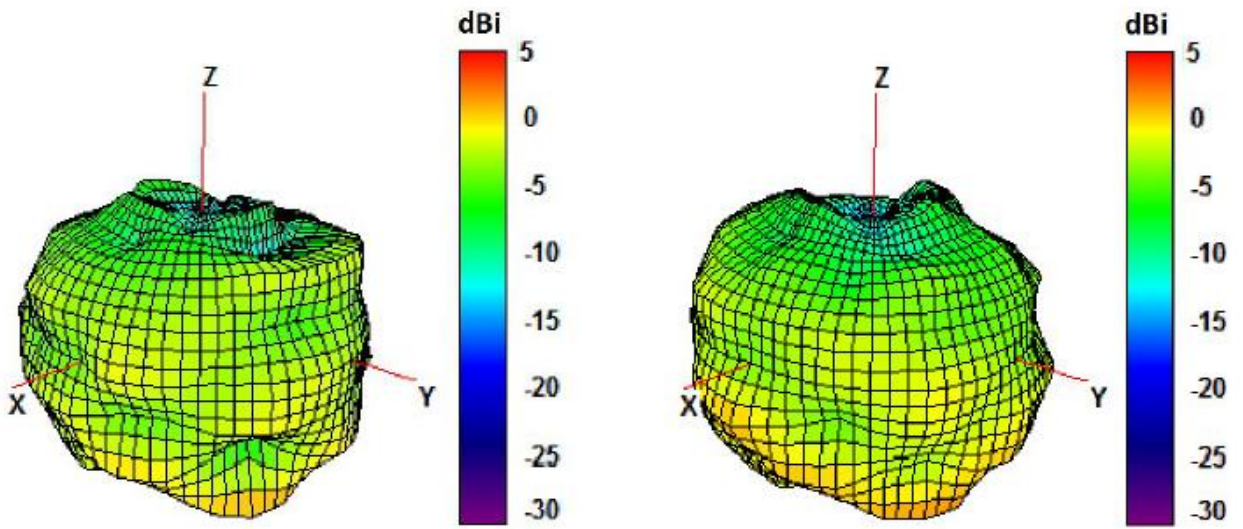


750 and 850 MHz Radiation pattern

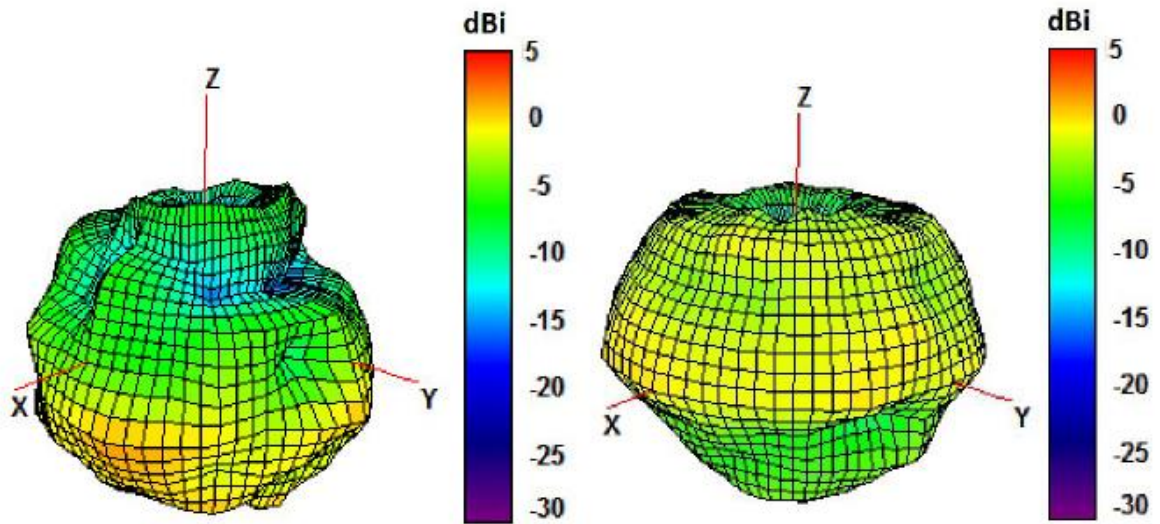


940 and 1750 MHz Radiation pattern





1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern