

## 2J6A24Ba

### CELLULAR / LTE MIMO Screw Mount

#### Key Features

##### Cable 1: CELLULAR / LTE

- 698-960 MHz
- 1710-2170 MHz
- 2500-2700 MHz

##### Cable 2: CELLULAR / LTE

- 698-960 MHz 
- 1710-2170 MHz
- 2500-2700 MHz

Screw Mount

Anti-Rotation Mechanism

Ground Plane Dependent

Customizable Cable and Connector

IP67, IK09, IP69K

Dimensions Ø 77.3 x 65.5 mm



## 1. Antenna and electrical specifications

**Cable 1**

| Parameters                  | CELLULAR / LTE Antenna                         |                     |           |
|-----------------------------|------------------------------------------------|---------------------|-----------|
| <b>Standards</b>            | 2G,3G and 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>     | ~-7.1                                          | ~-12.2              | ~-18.5    |
| <b>VSWR</b>                 | ~2.8:1                                         | ~1.7:1              | ~1.3:1    |
| <b>Efficiency (%)</b>       | ~35                                            | ~51                 | ~49       |
| <b>Peak Gain (dBi)</b>      | ~-0.8                                          | ~2.5                | ~3.4      |
| <b>Average Gain (dB)</b>    | ~-4.6                                          | ~-2.9               | ~-3.1     |
| <b>Impedance (Ohm)</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 Standard (Other Connectors Available) |                     |           |
| <b>Cable Length</b>         | 300 cm Standard (Any Cable Length Available)   |                     |           |
| <b>Cable Type</b>           | Dacar302 (Other Cables Available)              |                     |           |

**Cable 2**

| Parameters                  | CELLULAR / LTE Antenna                         |                     |           |
|-----------------------------|------------------------------------------------|---------------------|-----------|
| <b>Standards</b>            | 2G,3G and 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>     | ~-6.8                                          | ~-15.8              | ~-10.8    |
| <b>VSWR</b>                 | ~2.9:1                                         | ~1.4:1              | ~1.8:1    |
| <b>Efficiency (%)</b>       | ~34.2                                          | ~41.1               | ~36.7     |
| <b>Peak Gain (dBi)</b>      | ~-1.0                                          | ~1.7                | ~3.2      |
| <b>Average Gain (dB)</b>    | ~-4.7                                          | ~-3.9               | ~-4.4     |
| <b>Impedance (Ohm)</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 Standard (Other Connectors Available) |                     |           |
| <b>Cable Length</b>         | 300 cm Standard (Any Cable Length Available)   |                     |           |
| <b>Cable Type</b>           | Dacar302 (Other Cables Available)              |                     |           |

### Antenna Measurement Conditions:

Mounted on 30 x 30 cm Ground Plane

200 cm of Cable DACAR302

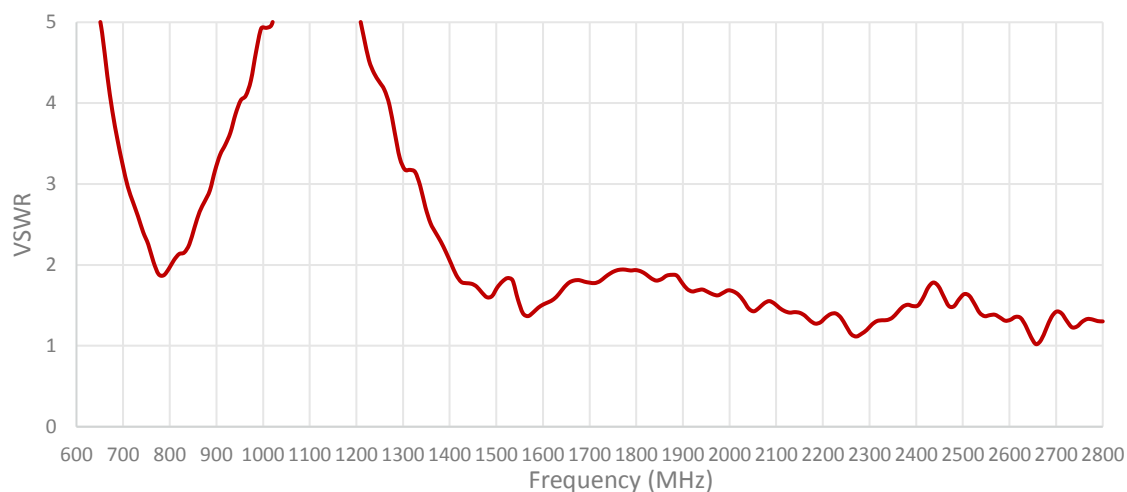
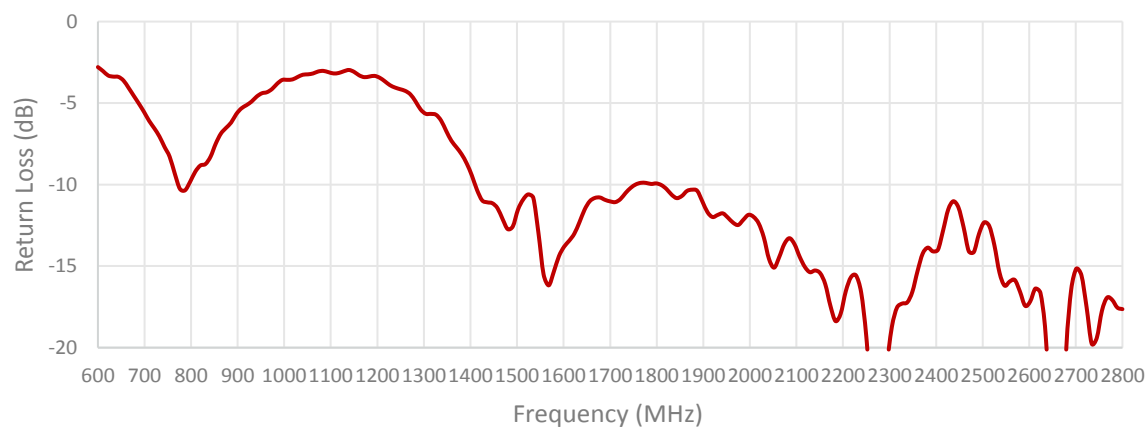
Measured in Certified CTIA 3D Anechoic Chamber

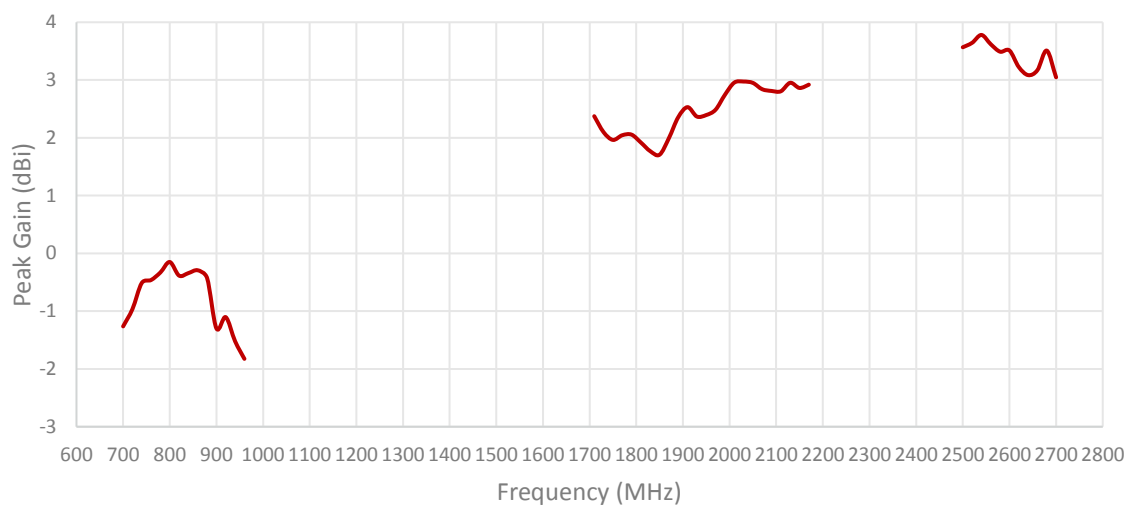
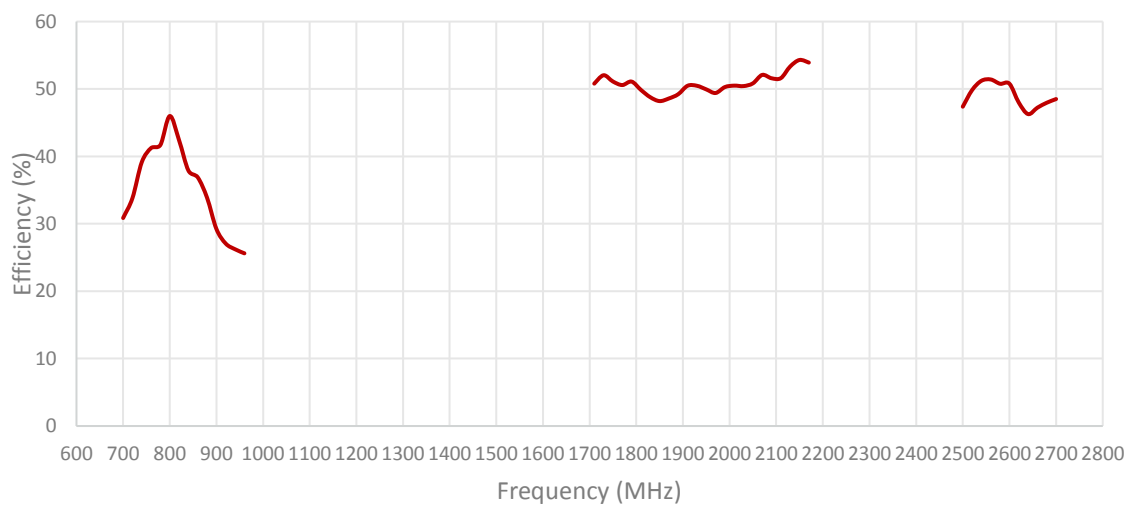
## 2. Mechanical and environmental specifications

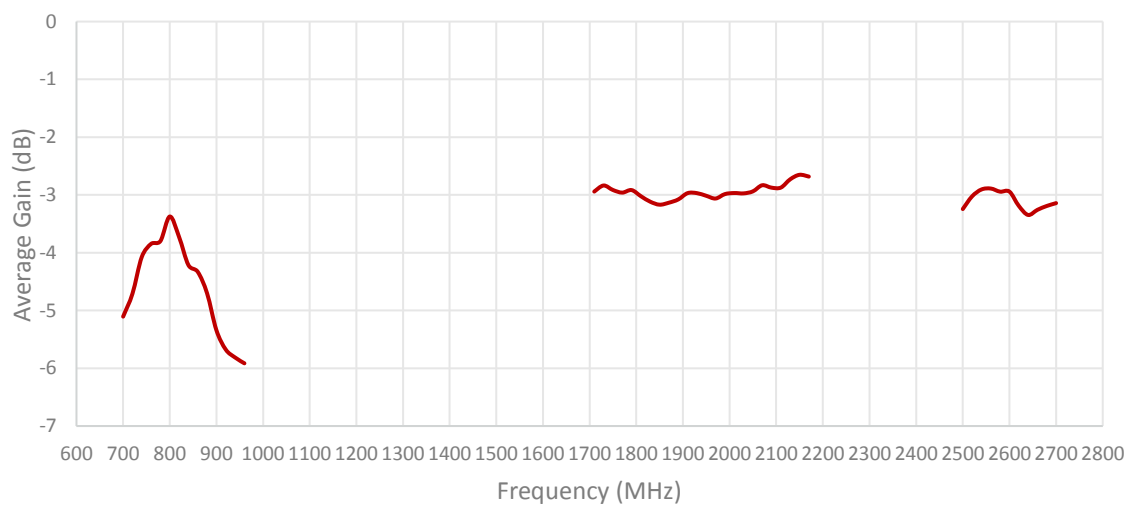
| Specifications            | 2J6A24Ba          |
|---------------------------|-------------------|
| Mounting Type             | Screw Mount       |
| Dimensions (mm)           | Ø 77.3 x 65.5     |
| Radome                    | ASA               |
| Radome color              | Black             |
| Antenna Base              | Zamak             |
| Gasket                    | TPE               |
| Operating Temperature (C) | -40 to +85        |
| Storage Temperature (C)   | -40 to +85        |
| Substance Compliance      | RoHS              |
| Certificates              | IP67, IK09, IP69K |

### 3. Antenna parameters

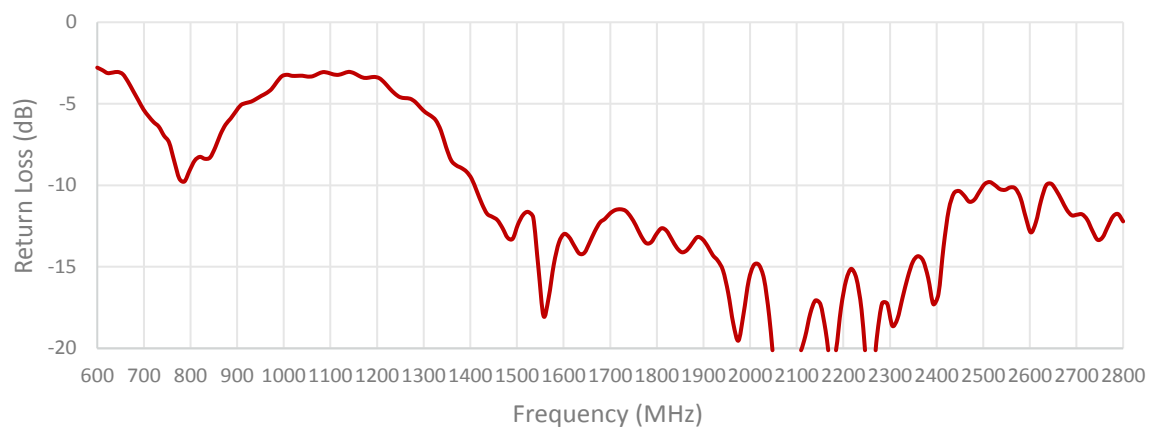
**Cable 1: CELLULAR / LTE**

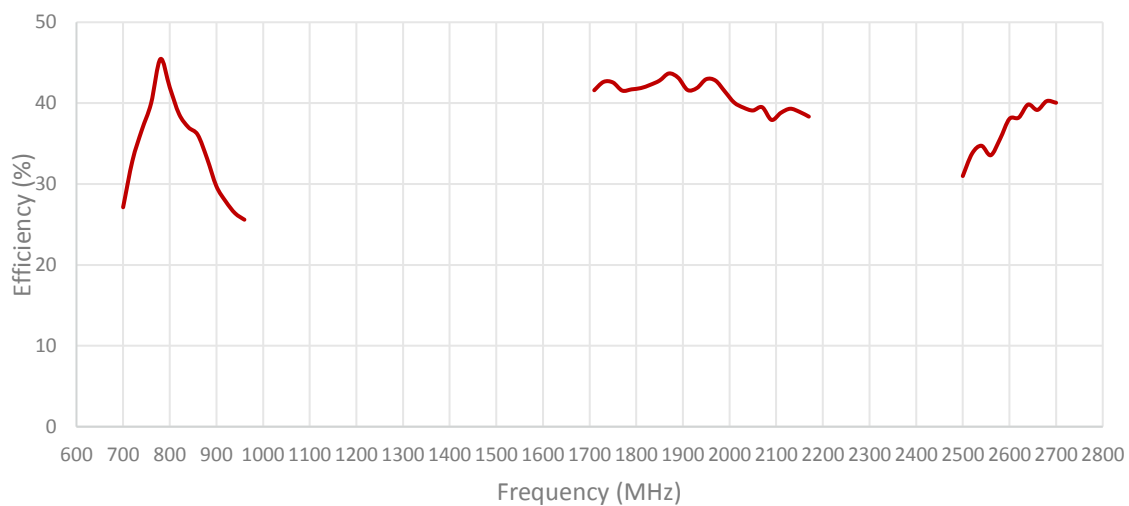
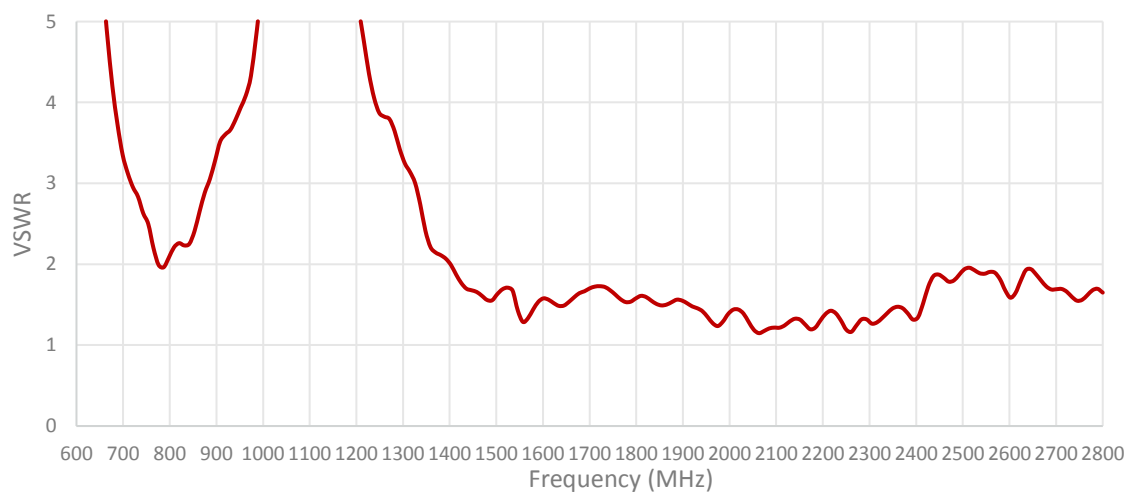


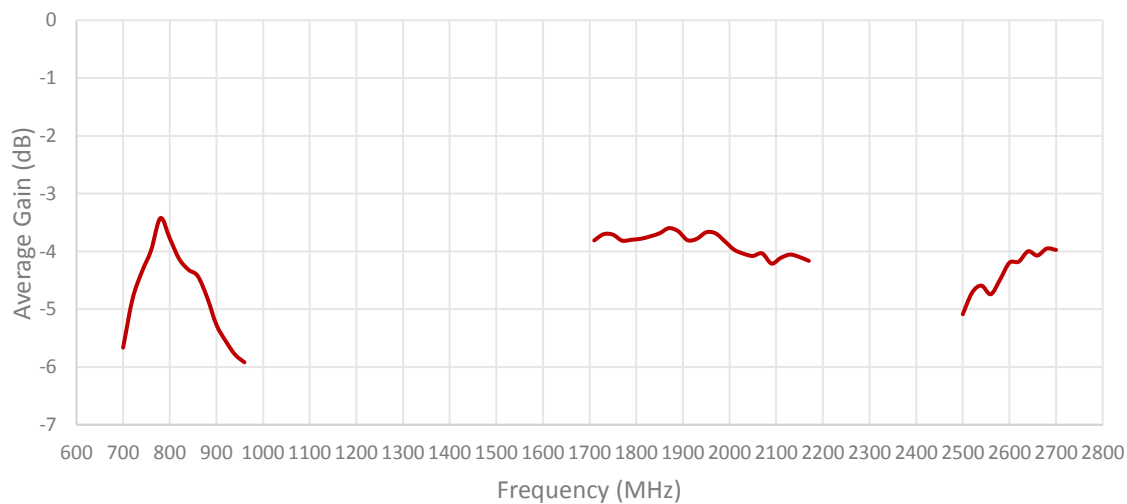
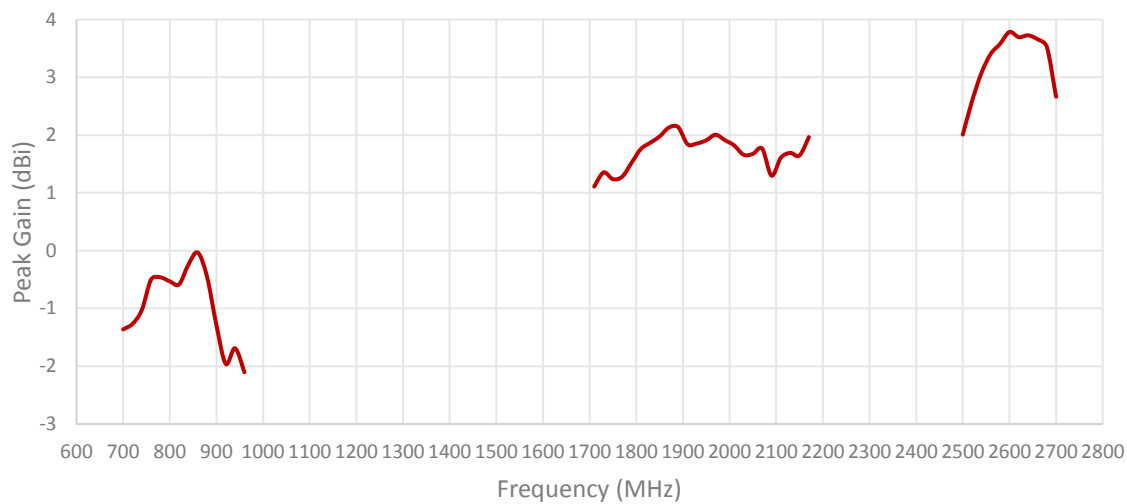




**Cable 2: CELLULAR / LTE**

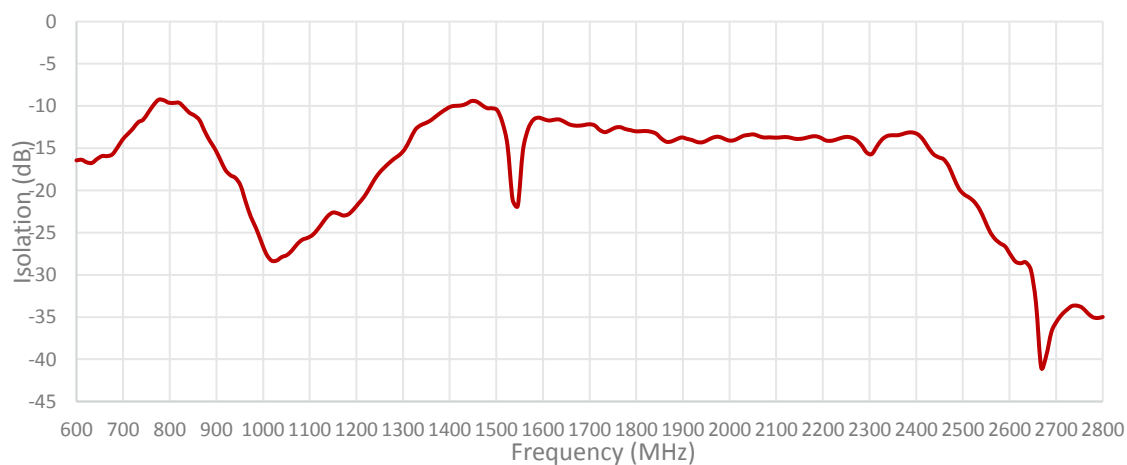




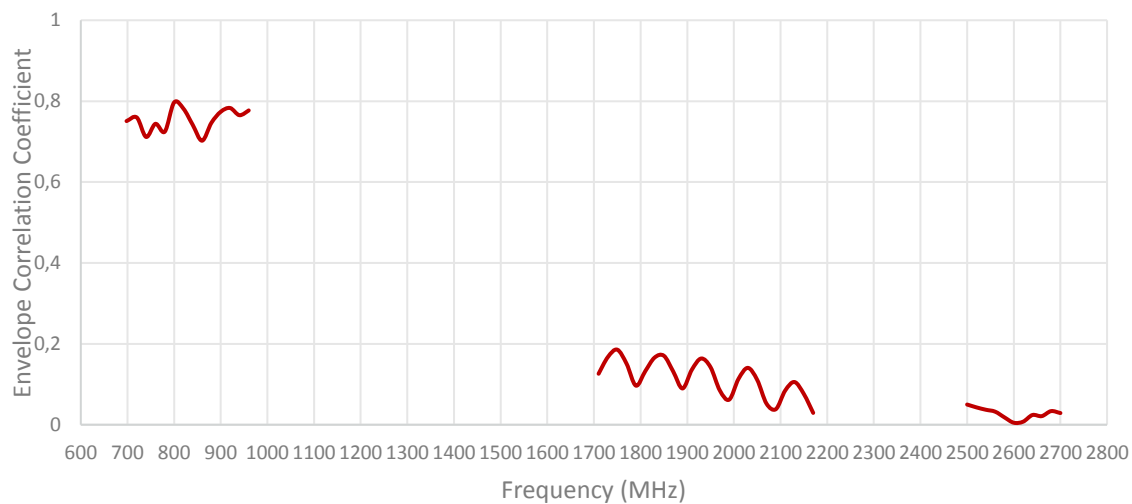


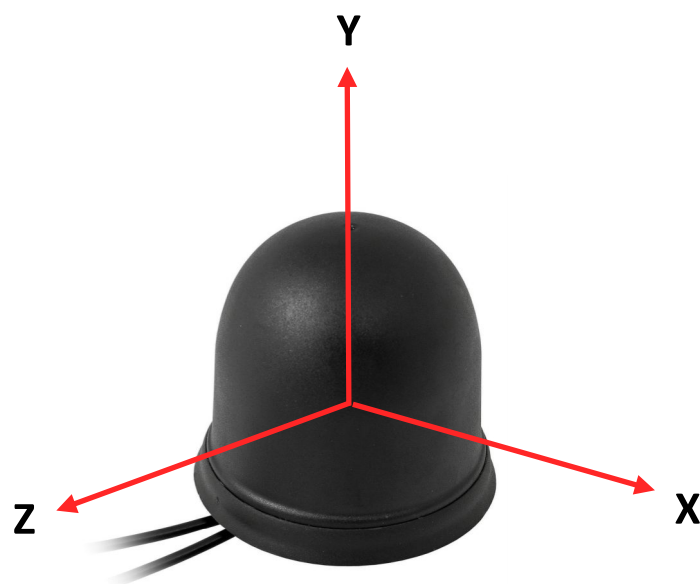


## ISOLATION FOR CABLE 1 AND 2



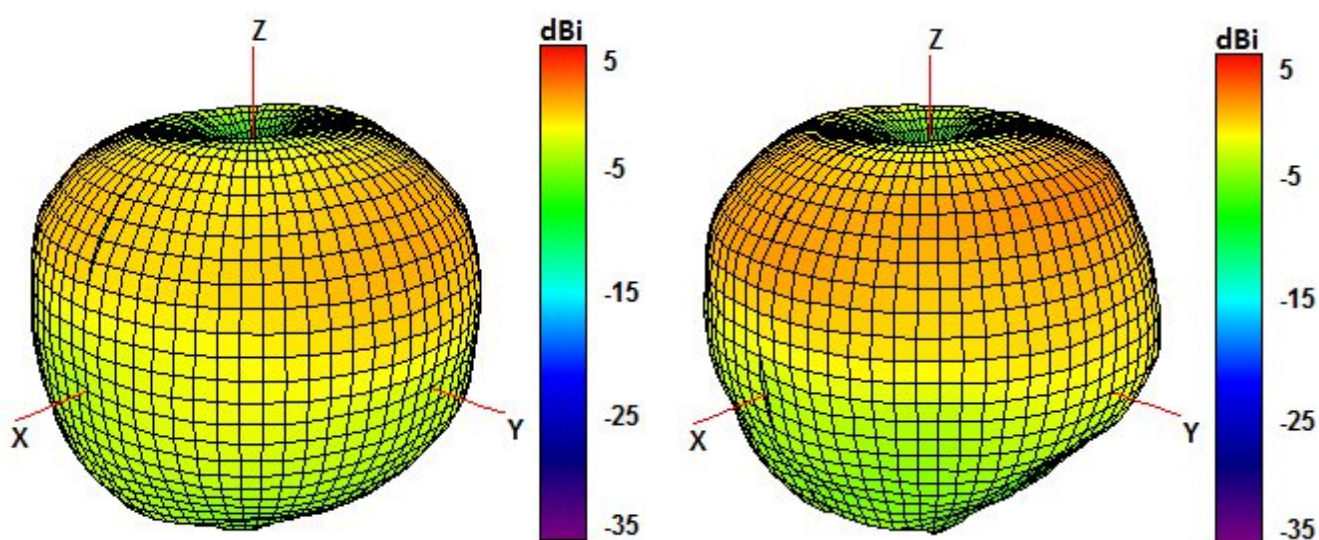
## ENVELOPE CORRELATION COEFFICIENT FOR CABLE 1 AND 2



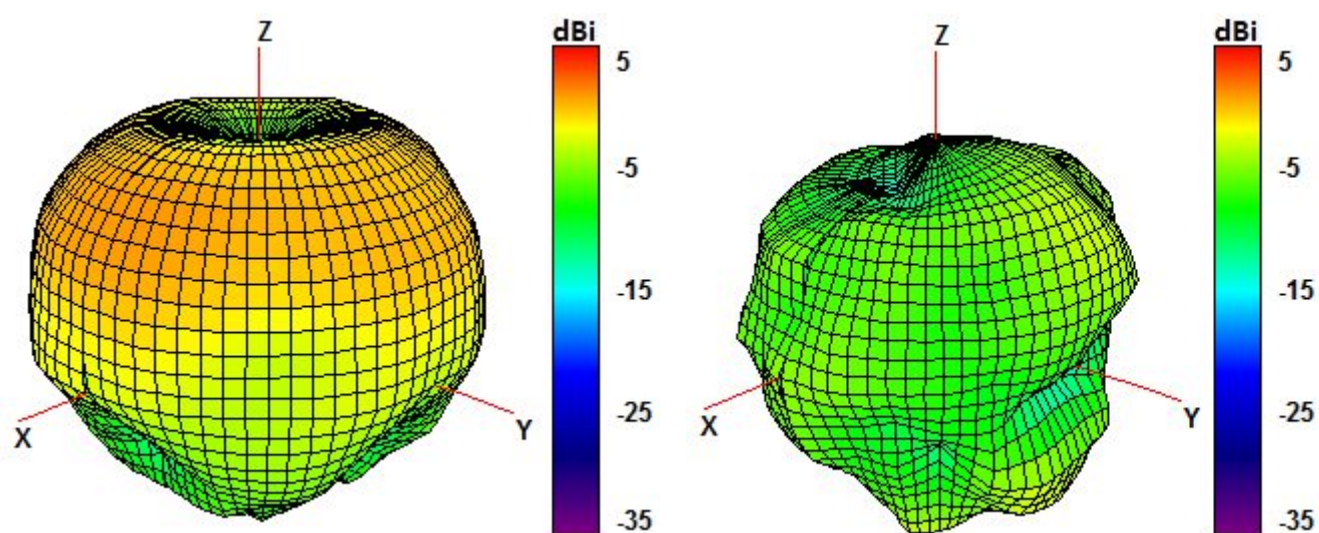


Radiation pattern reference

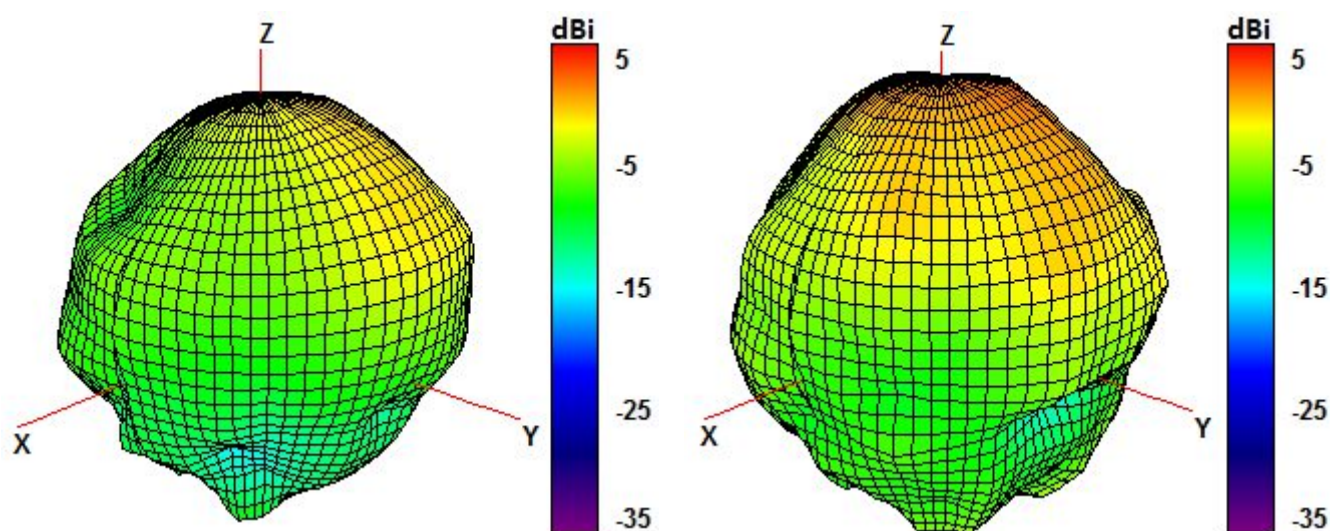
Cable 1: CELLULAR / LTE



750 and 850 MHz Radiation pattern

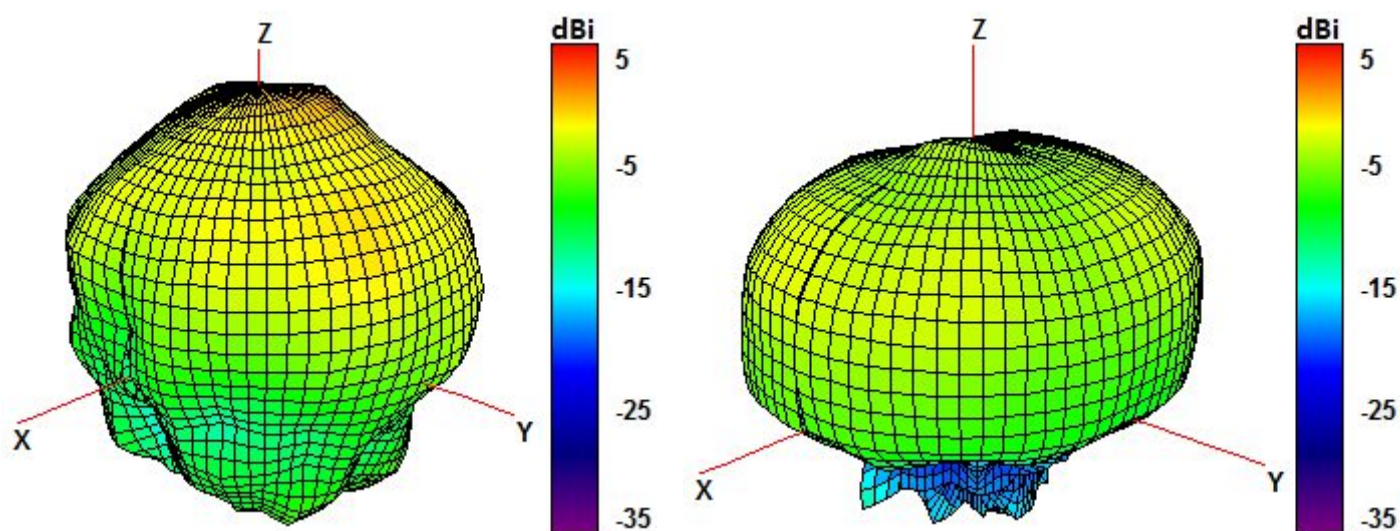


940 and 1750 MHz Radiation pattern



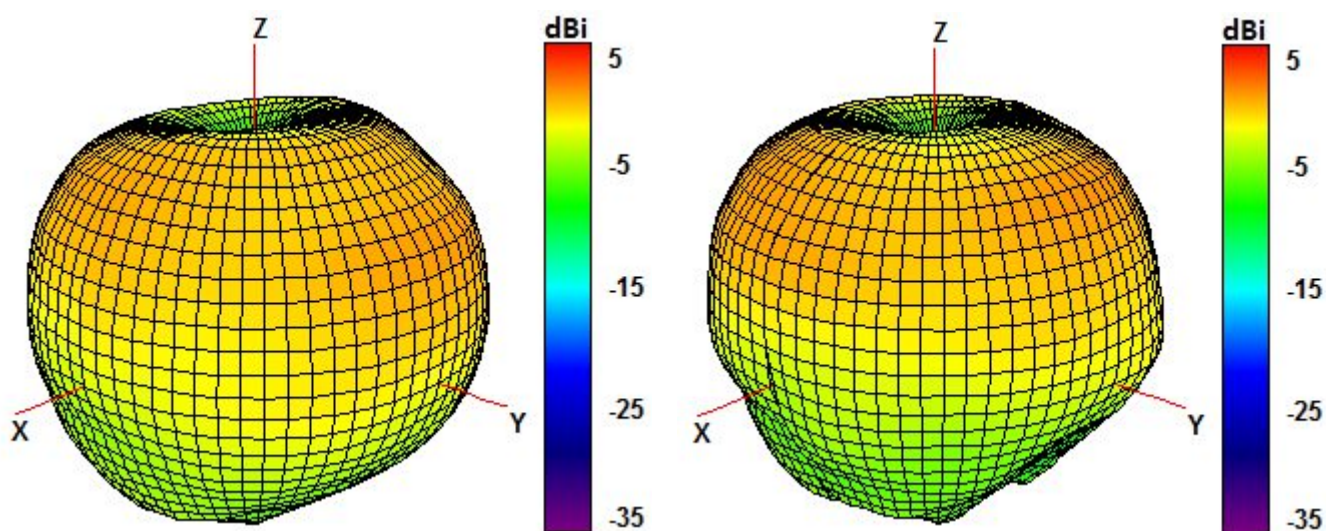
1850 and 1950 MHz Radiation pattern



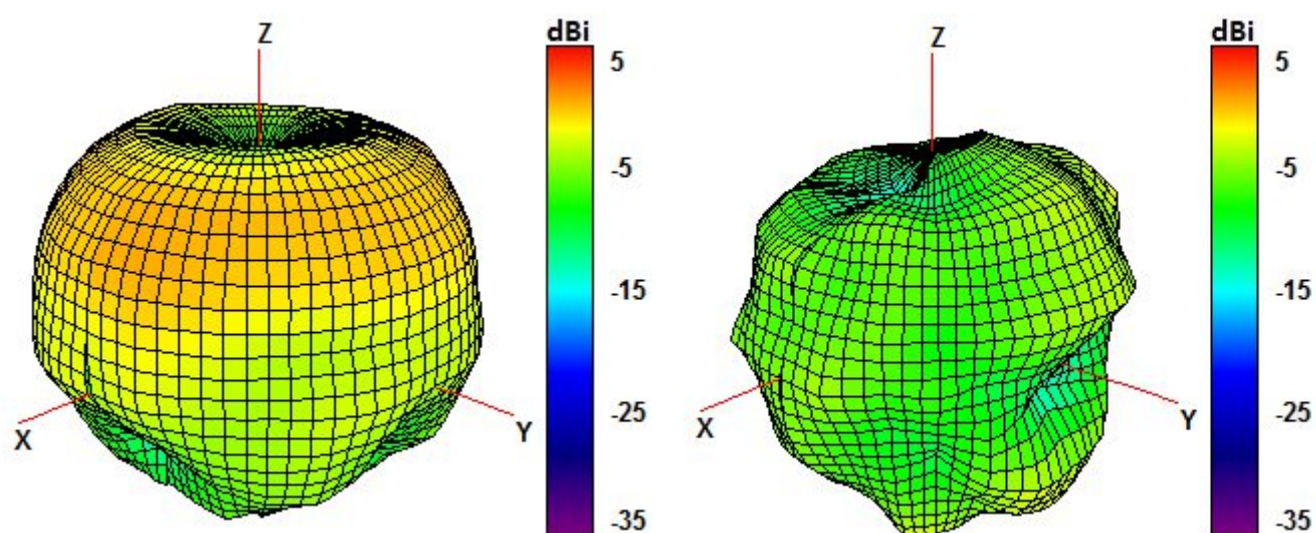


2100 and 2600 MHz Radiation pattern

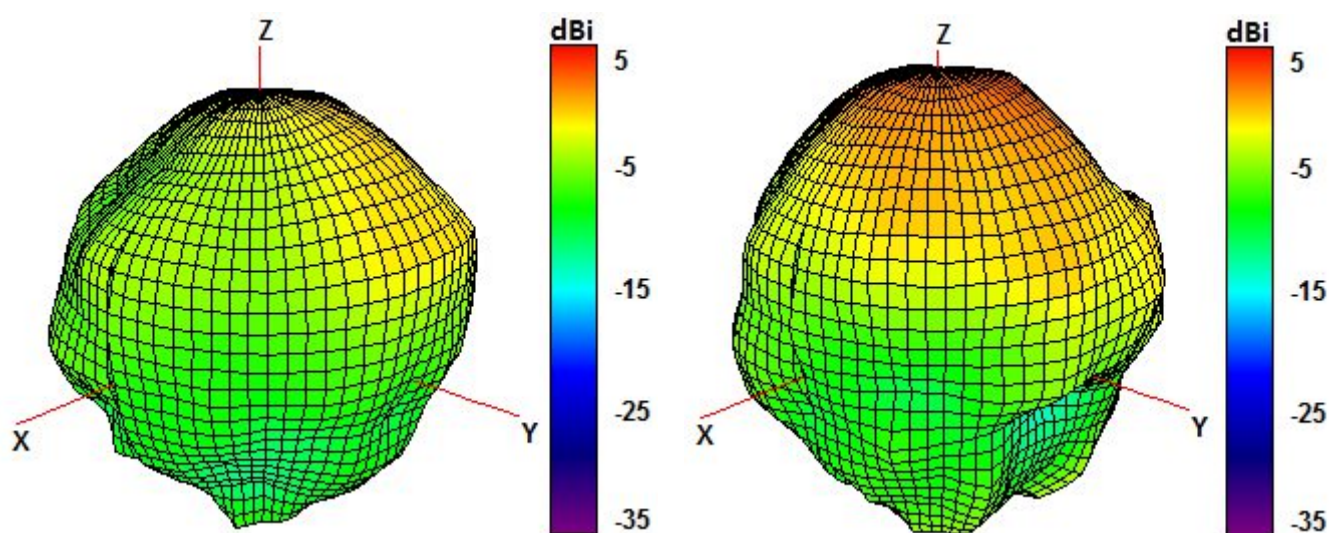
Cable 2: CELLULAR / LTE



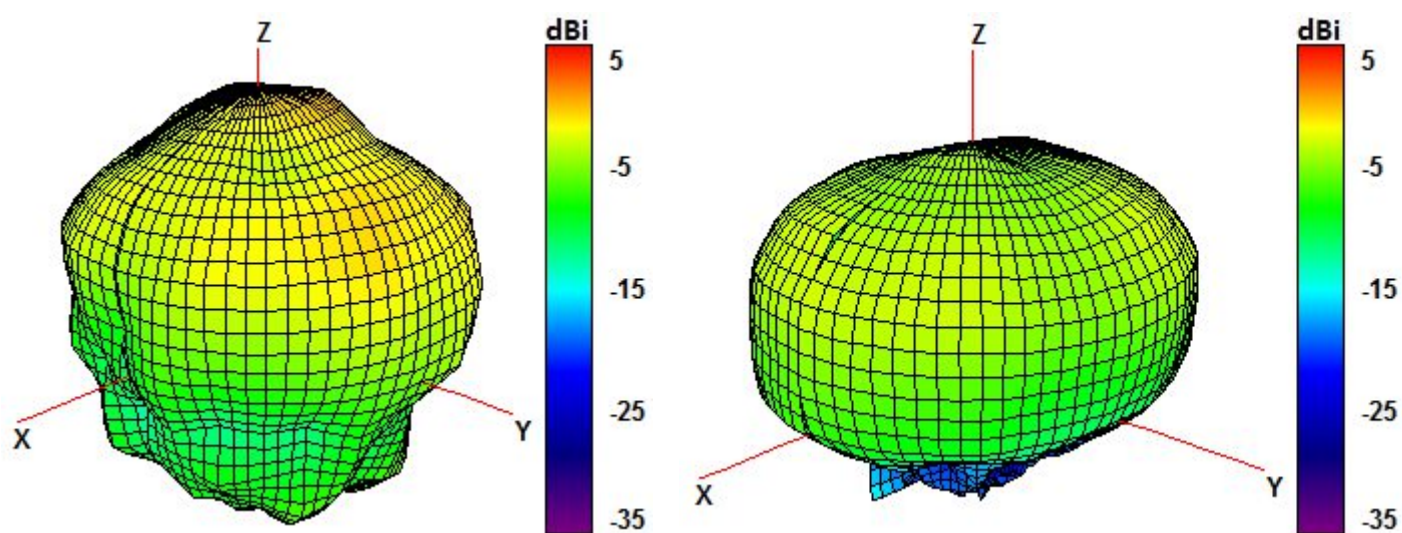
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

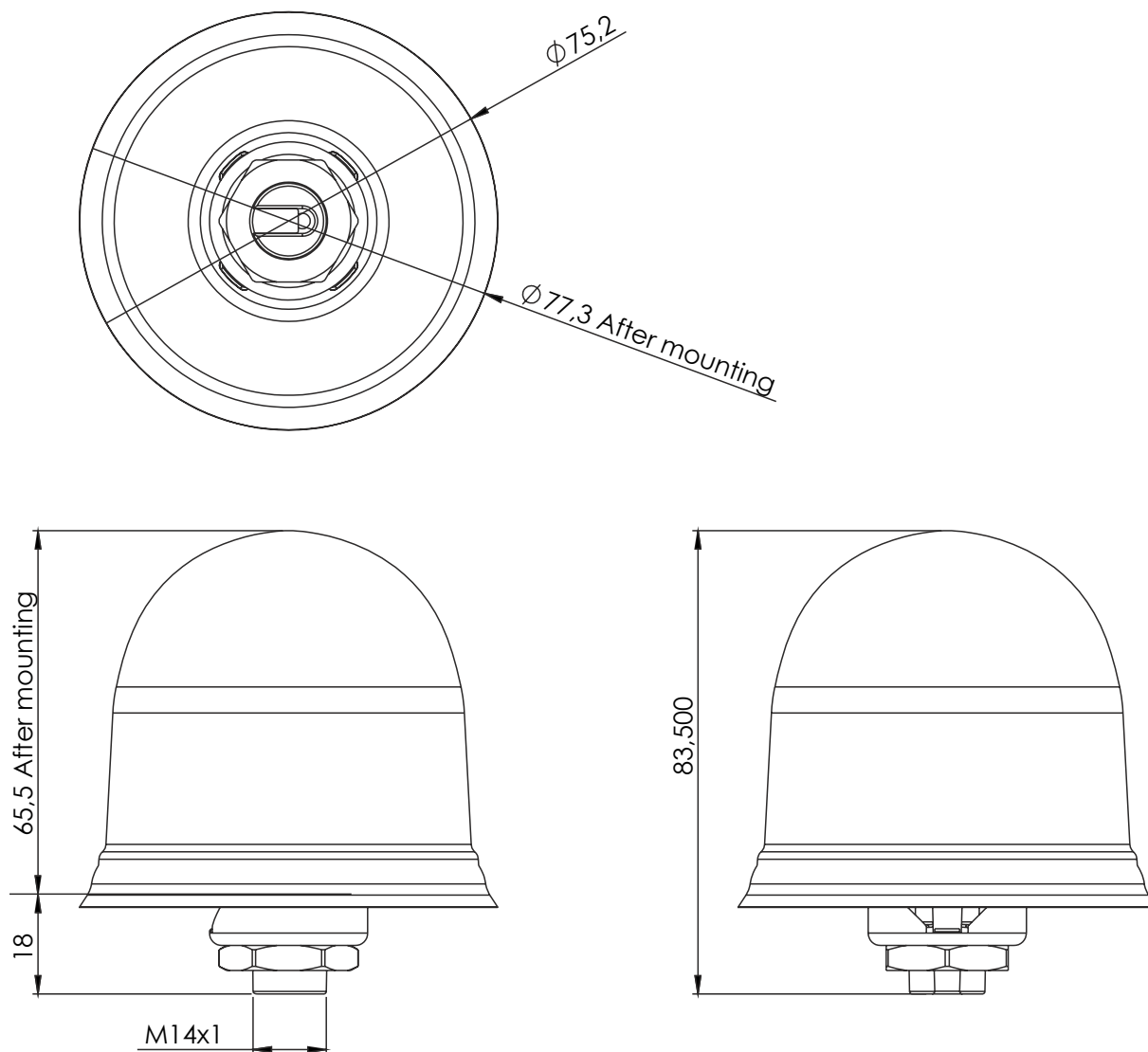


1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern

## 4. Antenna drawings





## 5. Antenna Images

