

## 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  $\varnothing$  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

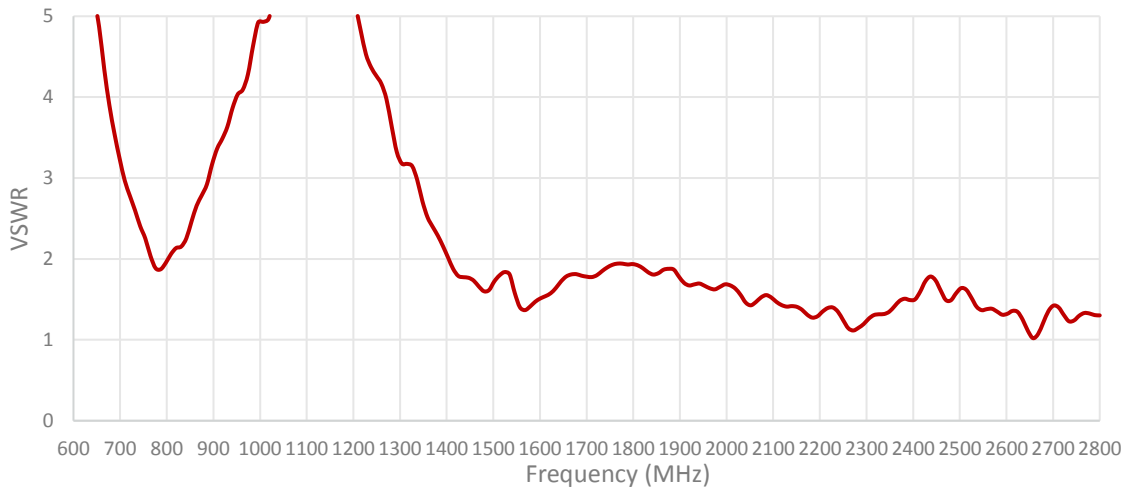
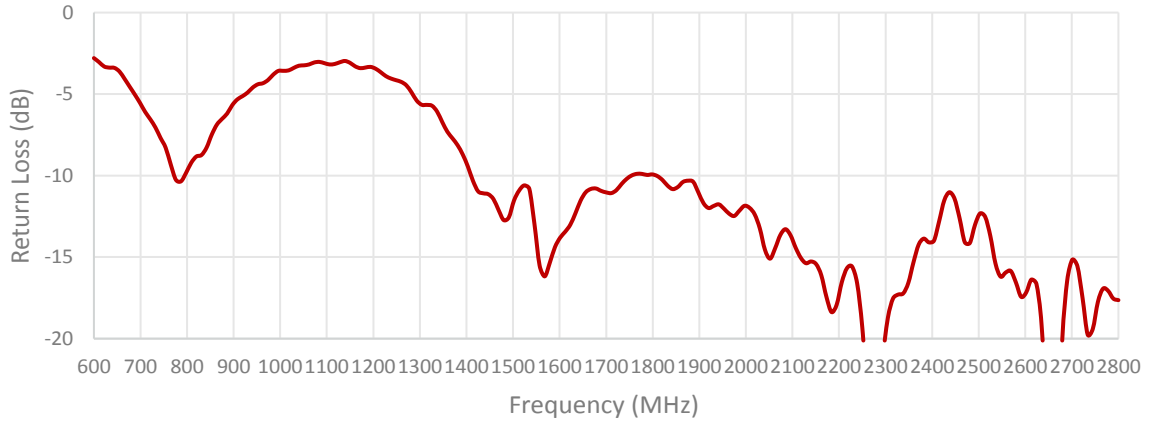
Measured in Certified CTIA 3D Anechoic Chamber

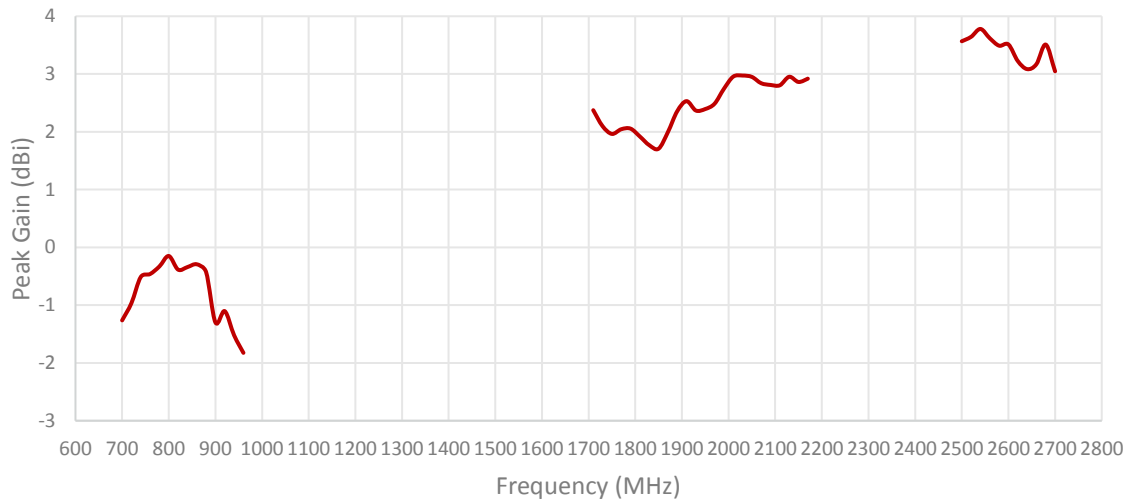
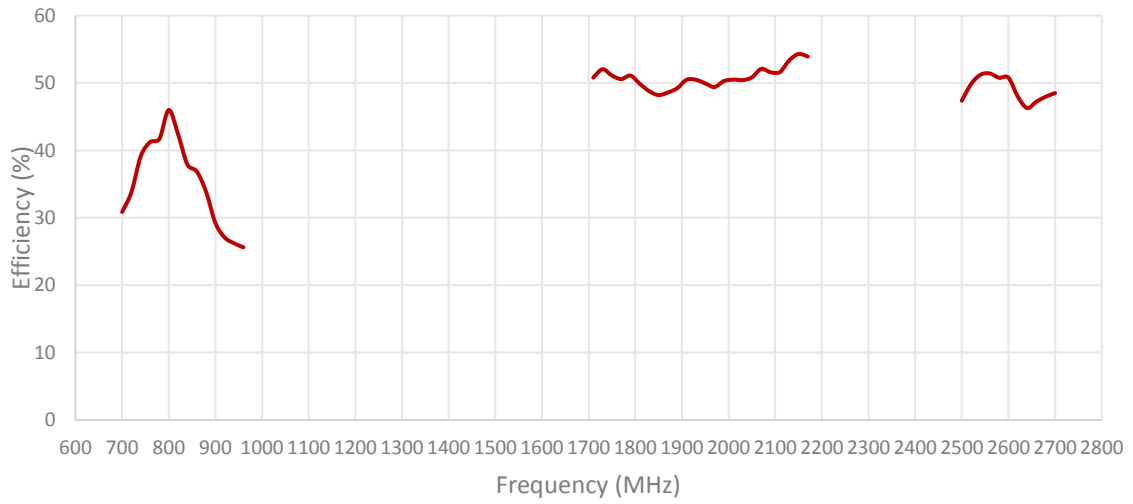
## 2. Mechanical and environmental specifications

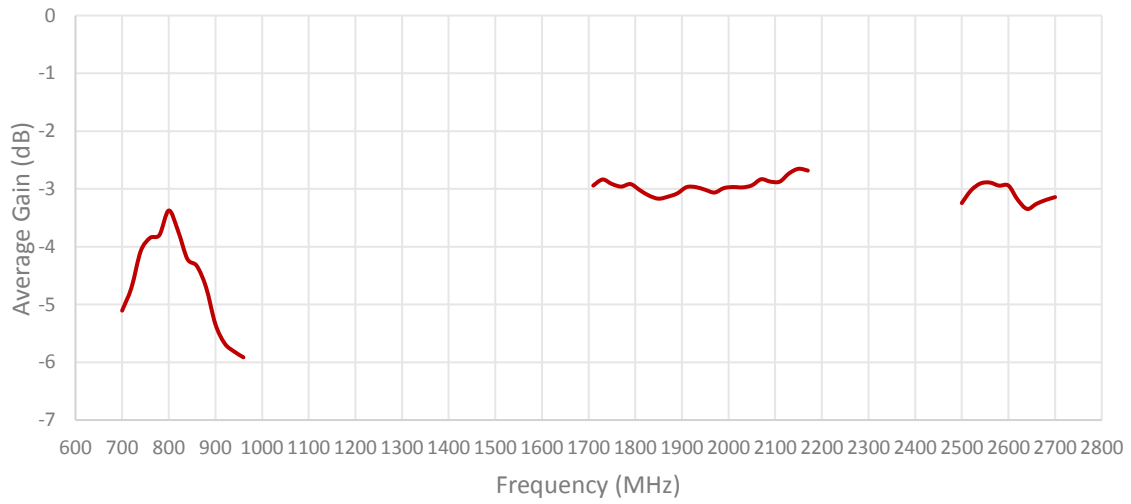
Specifications	2J6A24Ba
<b>Mounting Type</b>	Screw Mount
<b>Dimensions (mm)</b>	Ø 77.3 x 65.5
<b>Max. Tighten Torque (Nm)</b>	6 Nm
<b>Radome</b>	ASA
<b>Radome color</b>	Black
<b>Antenna Base</b>	Zamak
<b>Gasket</b>	TPE
<b>Operating Temperature (C)</b>	-40 to +85
<b>Storage Temperature (C)</b>	-40 to +85
<b>Substance Compliance</b>	RoHS
<b>Certificates</b>	IP67, IK09, IP69K

### 3. Antenna parameters

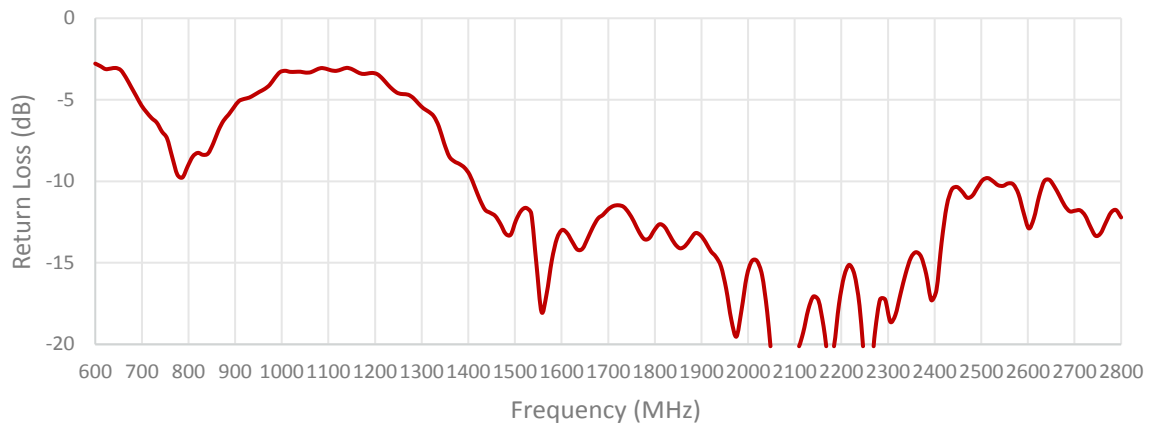
**Cable 1: CELLULAR / LTE**

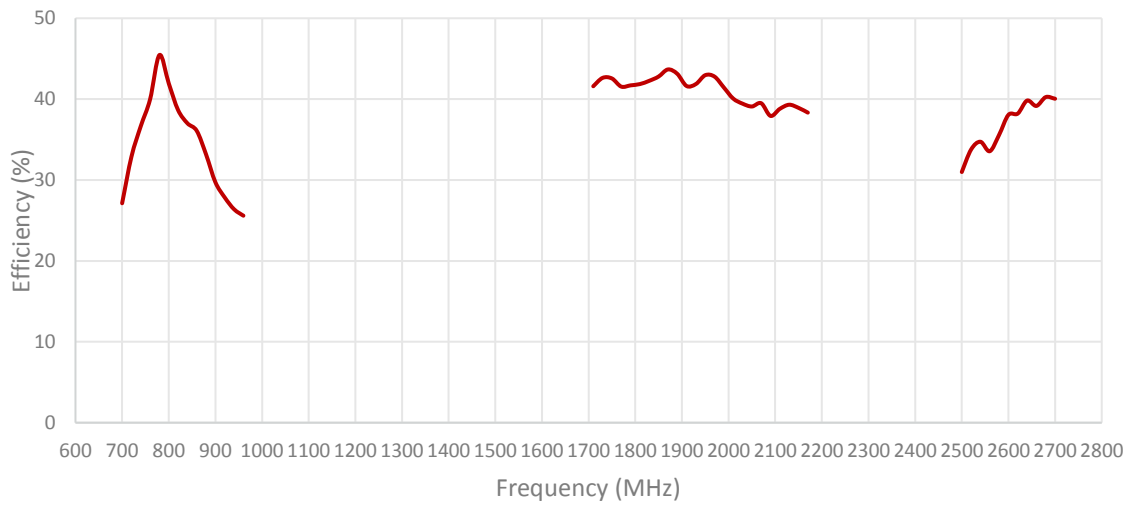
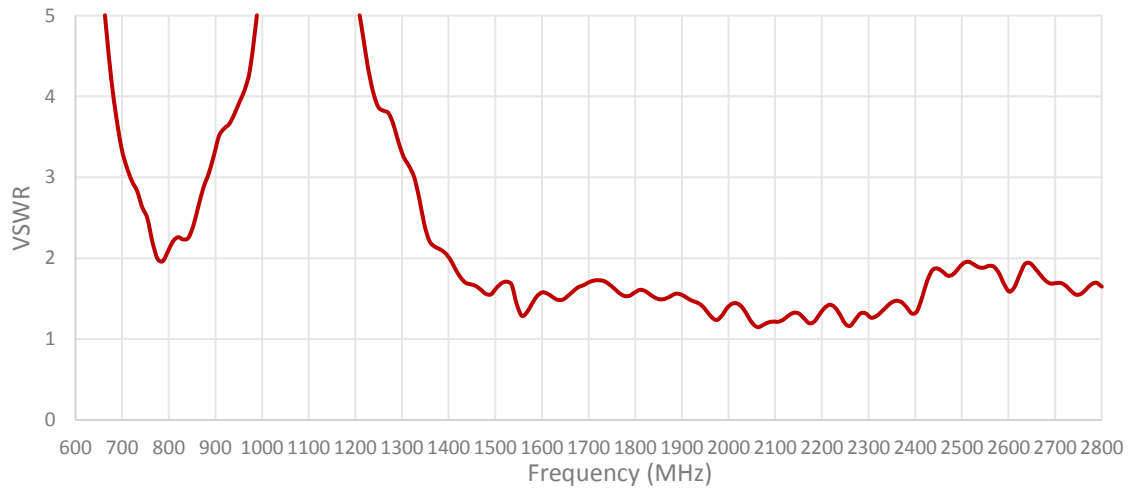


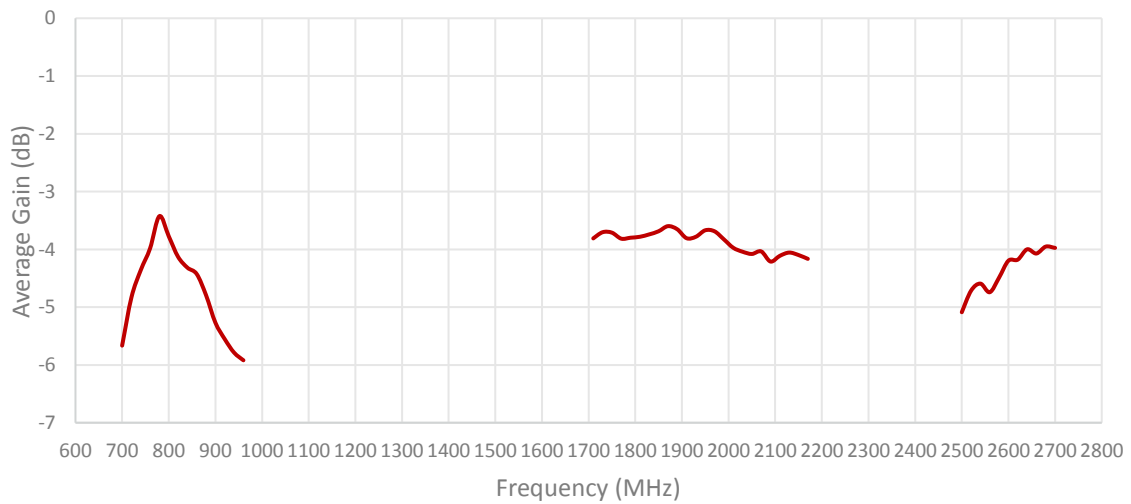
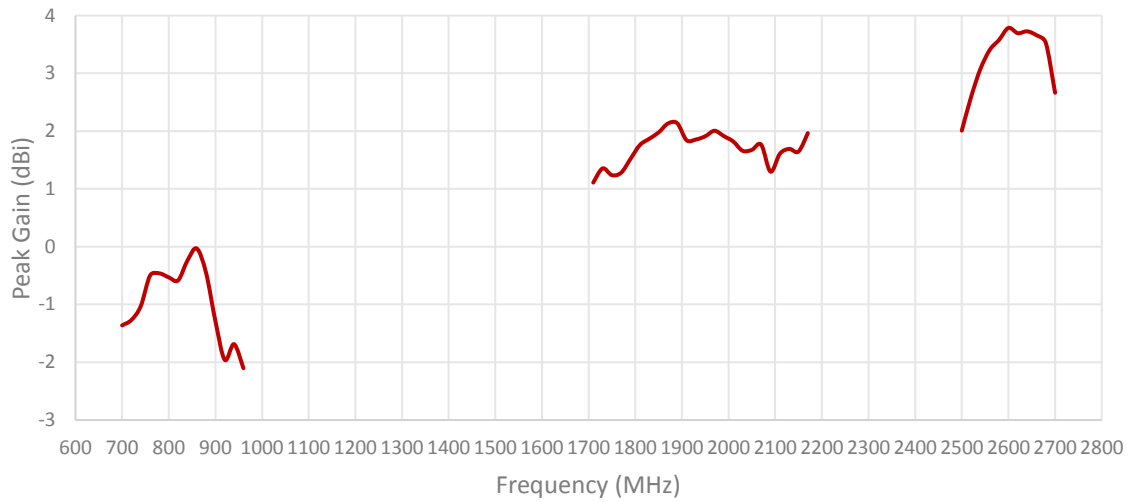




**Cable 2: CELLULAR / LTE**

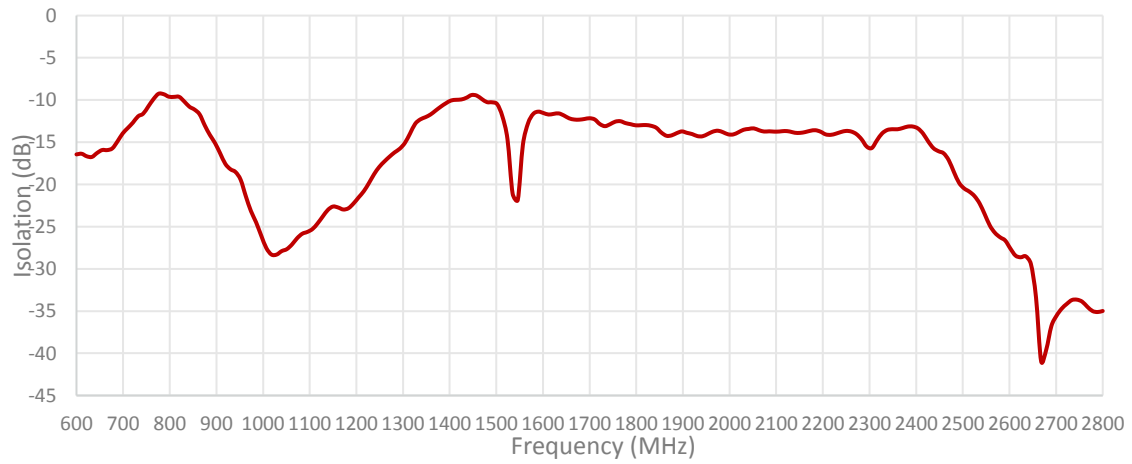




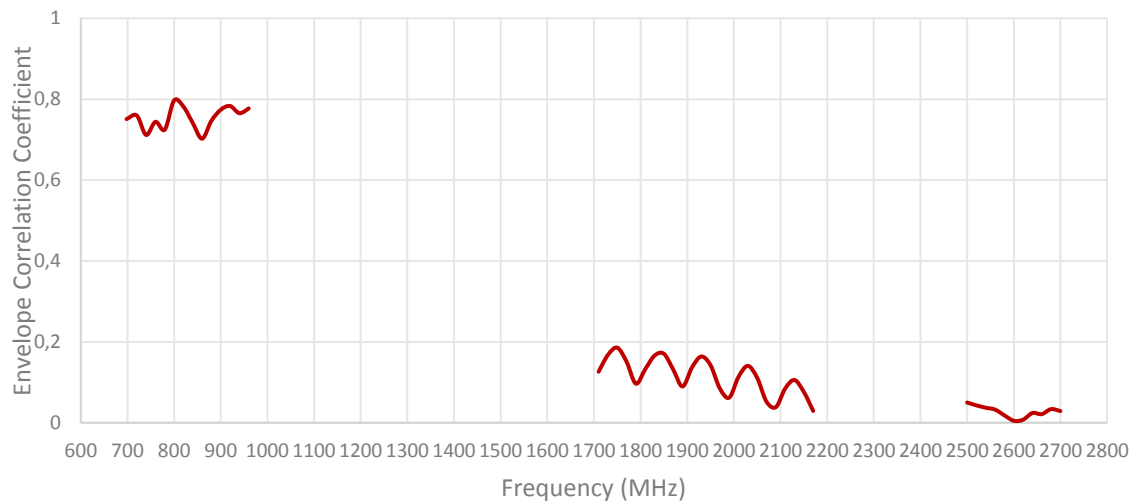


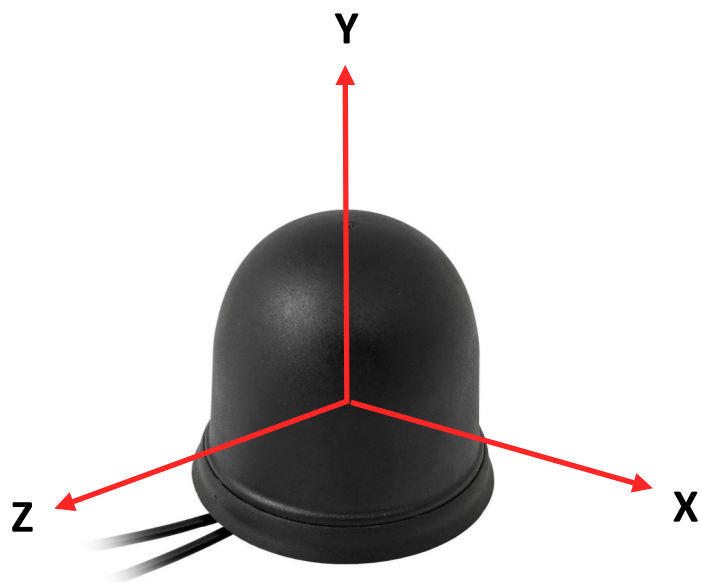


### ISOLATION FOR CABLE 1 AND 2



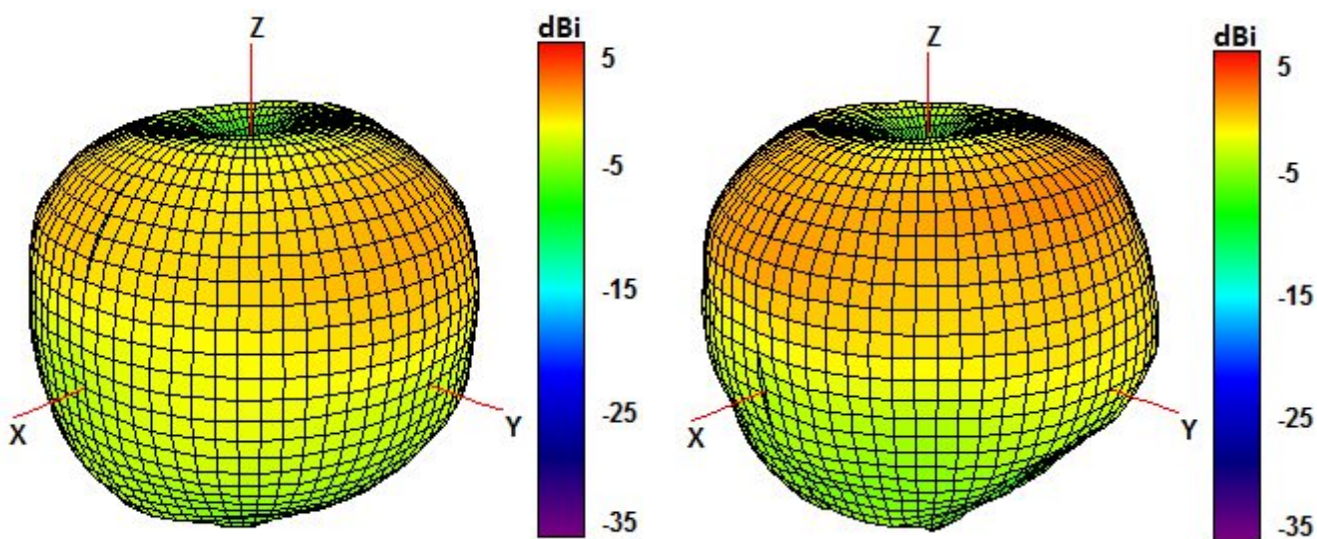
### ENVELOPE CORRELATION COEFICIENT FOR CABLE 1 AND 2



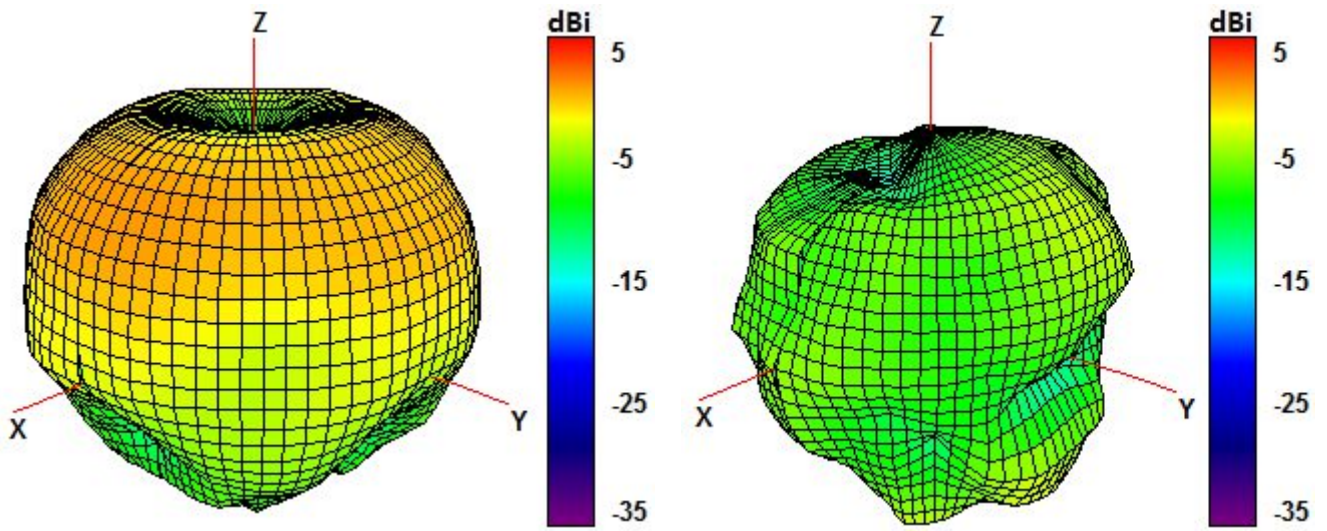


Radiation pattern reference

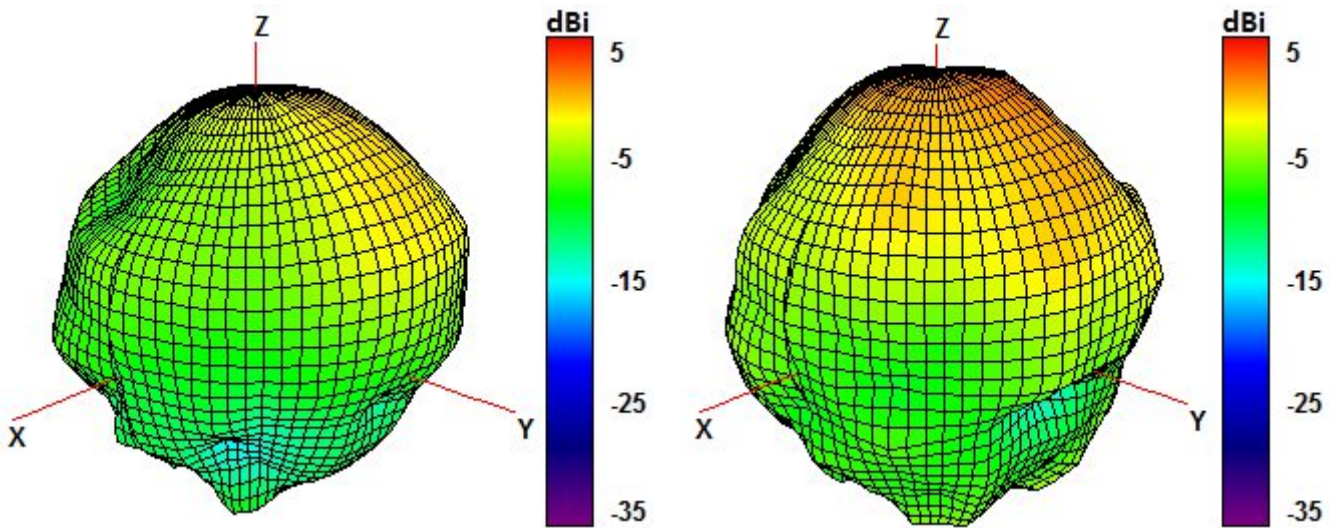
**Cable 1: CELLULAR / LTE**



750 and 850 MHz Radiation pattern

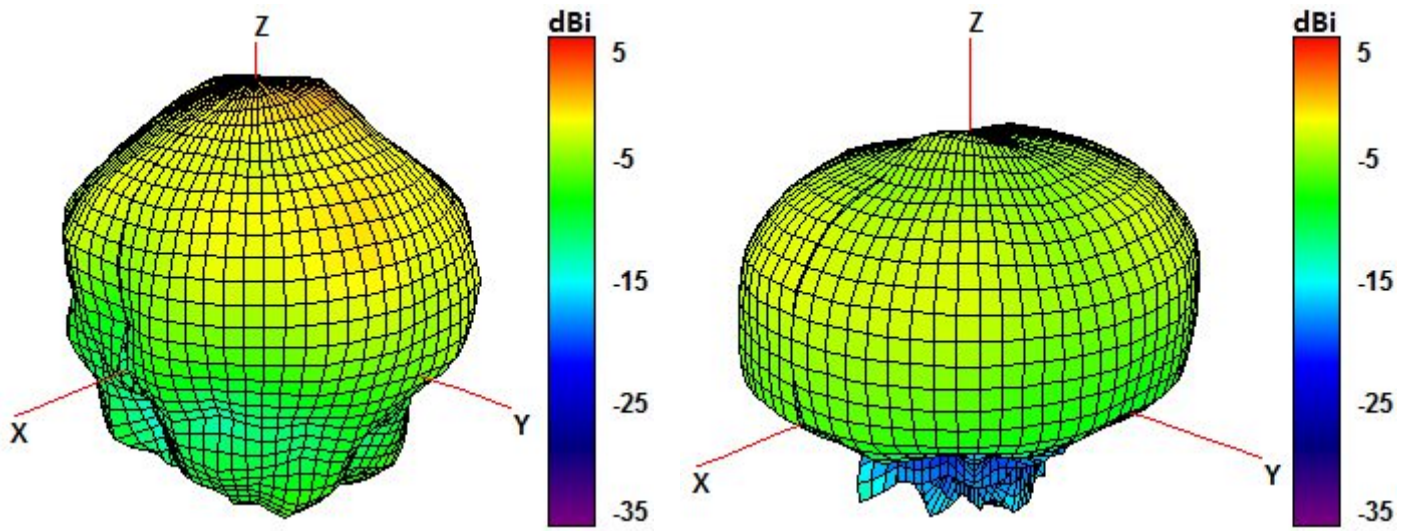


940 and 1750 MHz Radiation pattern



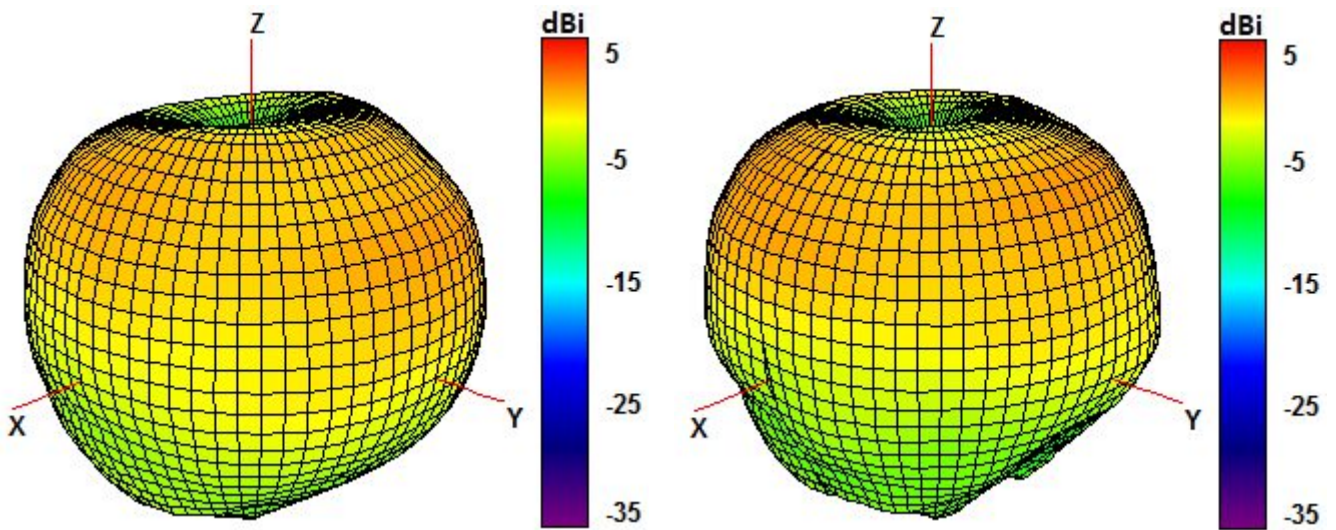
1850 and 1950 MHz Radiation pattern



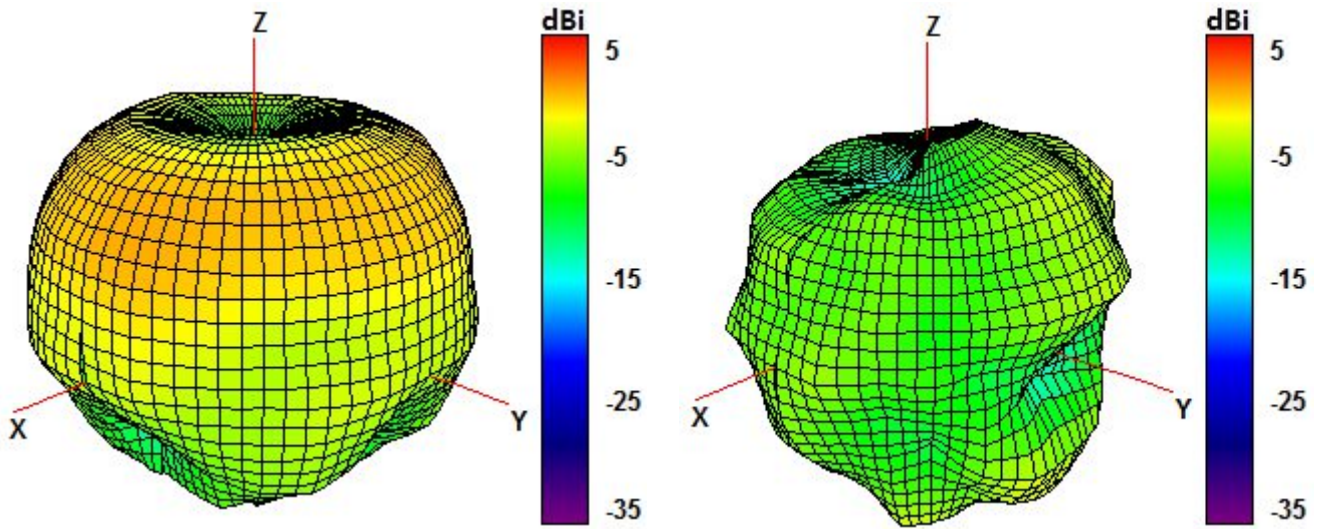


2100 and 2600 MHz Radiation pattern

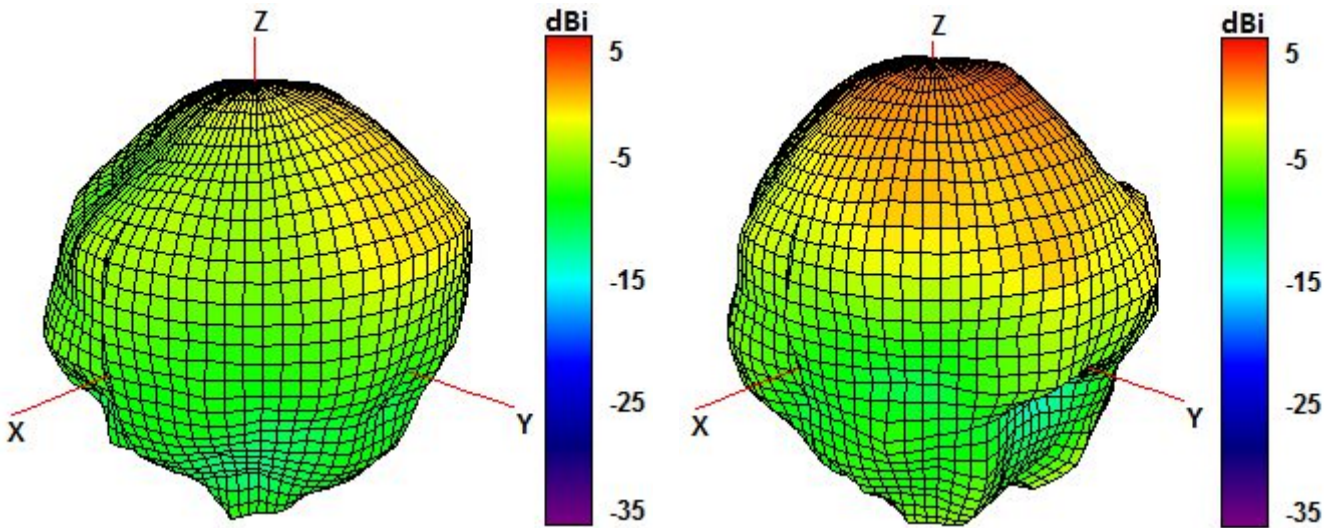
**Cable 2: CELLULAR / LTE**



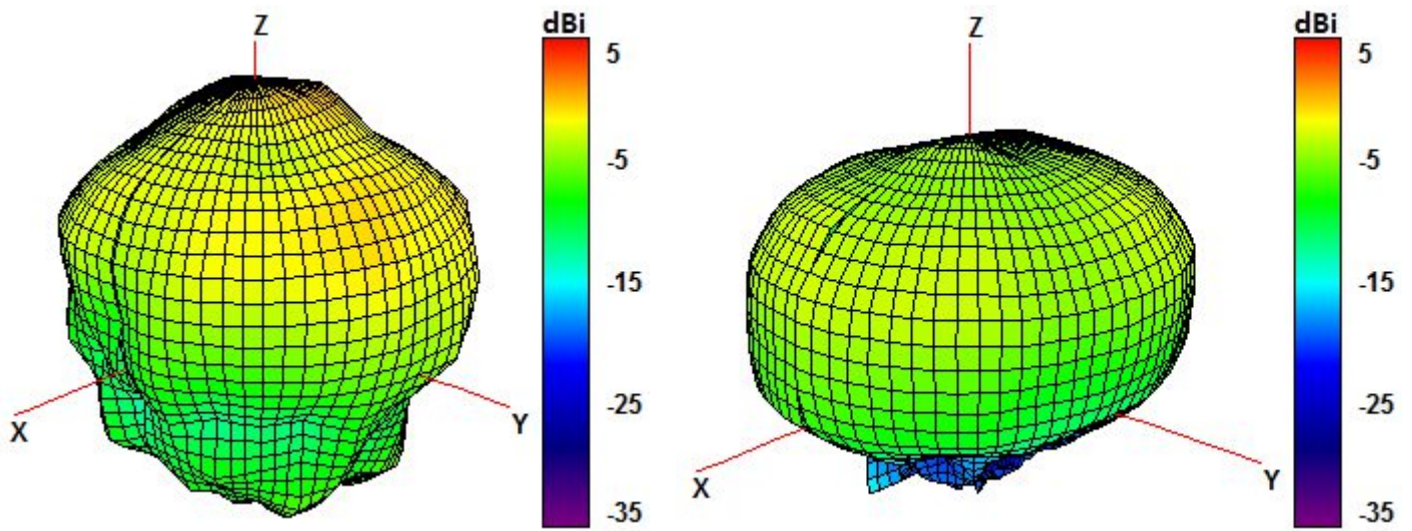
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern



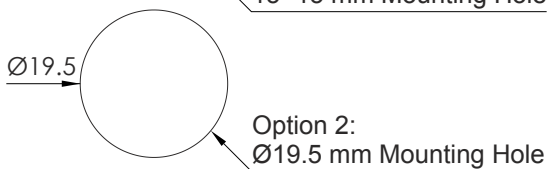
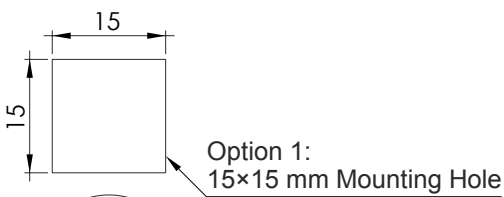
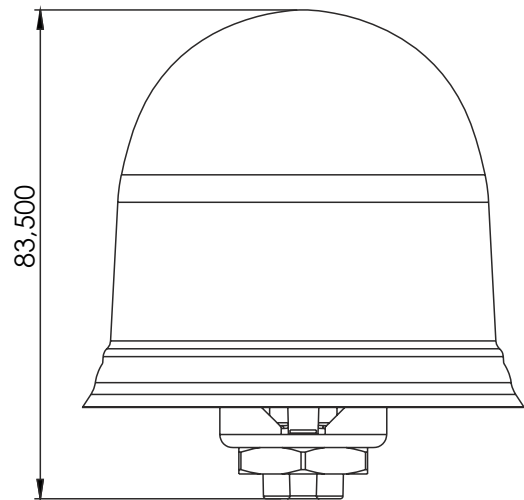
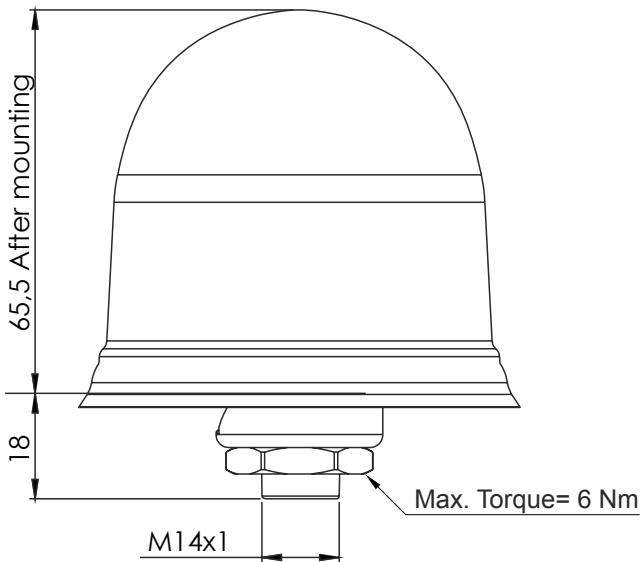
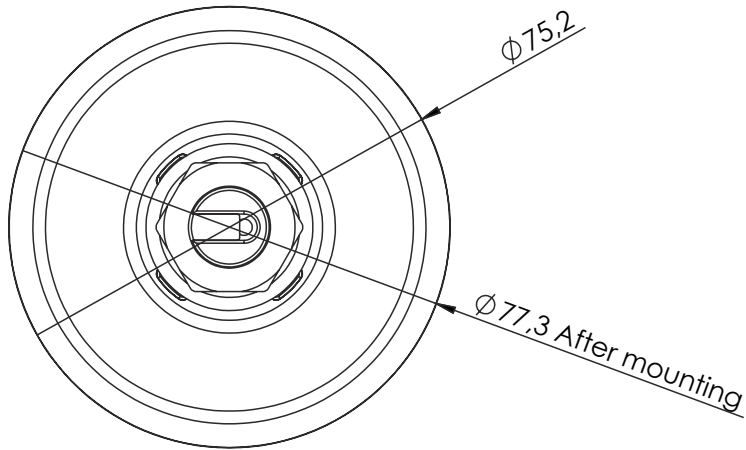
1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern



## 4. Antenna drawings



**Note: Dimensions are in millimeters**  
**\*Dimensions are after mounting**  
**\*\*Max. Torque= 6 Nm**

## 5. Antenna Images

