

## 2J7A24Ba

### CELLULAR/LTE MIMO Screw Mount

#### Key Features

##### Cable 1 - 2: CELLULAR / LTE

- 698-960 Mhz
- 1710-2170 Mhz
- 2500-2700 Mhz

Screw Mount

Heavy Duty antenna

Lightweight Plastic Base

High Performance

Ground Plane Independent

Customizable Cable and Connector

Dimensions: Ø 96 x H 90 mm

Certificates: IP67, IP69, Ik09



## 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>	~-10.6	~-16.3	~-13.9
<b>VSWR</b>	~2.0:1	~1.4:1	~1.5:1
<b>Efficiency (%)</b>	~45.1	~47.1	~46.8
<b>Peak Gain (dBi)</b>	~-0.9	~3.3	~4.4
<b>Average Gain (dB)</b>	~-3.5	~-3.3	~-3.3
<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>	LL195 Standard (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>	~-10.9	~-16.1	~-14.4
<b>VSWR</b>	~1.9:1	~1.4:1	~1.5:1
<b>Efficiency (%)</b>	~45.1	~46.6	~48.2
<b>Peak Gain (dBi)</b>	~-1.4	~3.0	~4.7
<b>Average Gain (dB)</b>	~-3.5	~-3.3	~-3.2
<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>	LL195 Standard (Other Cables Available)		

**Antenna Measurement Conditions:**

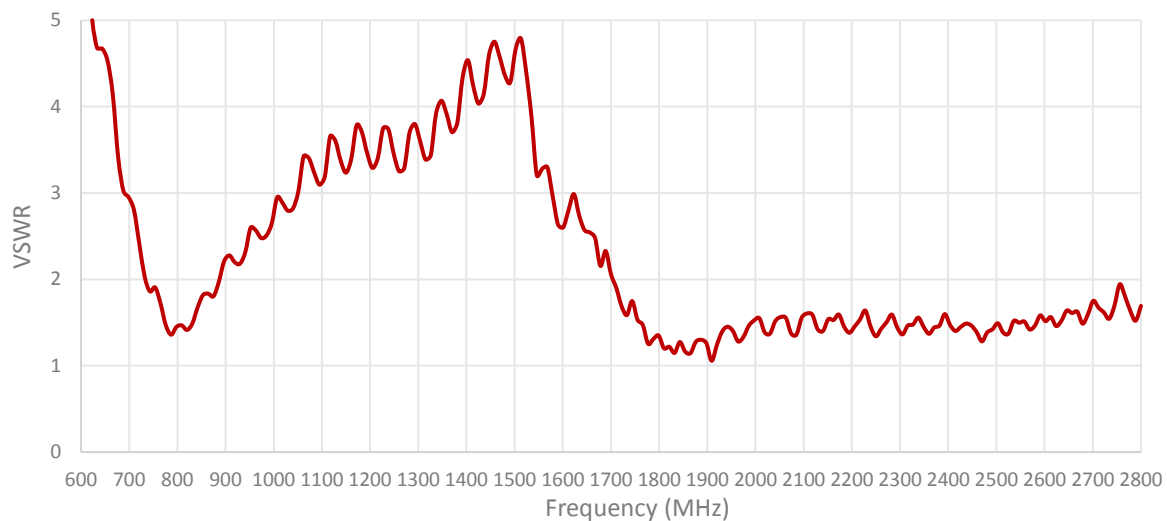
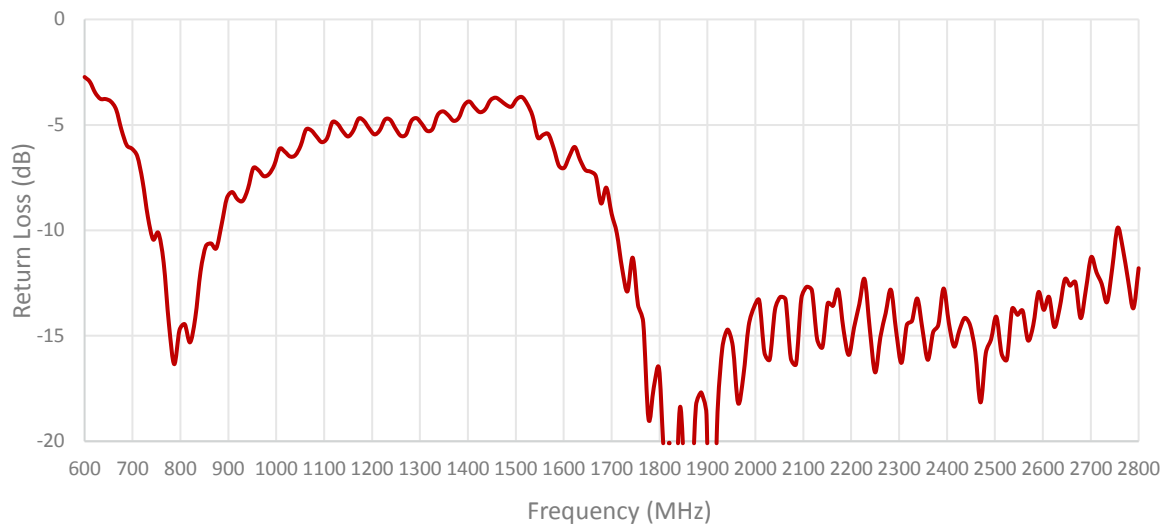
Mounted on Metal Plate of 30 x 30 cm  
 200 cm of LL195 Cable  
 Measured in Certified CTIA 3D Anechoic Chamber

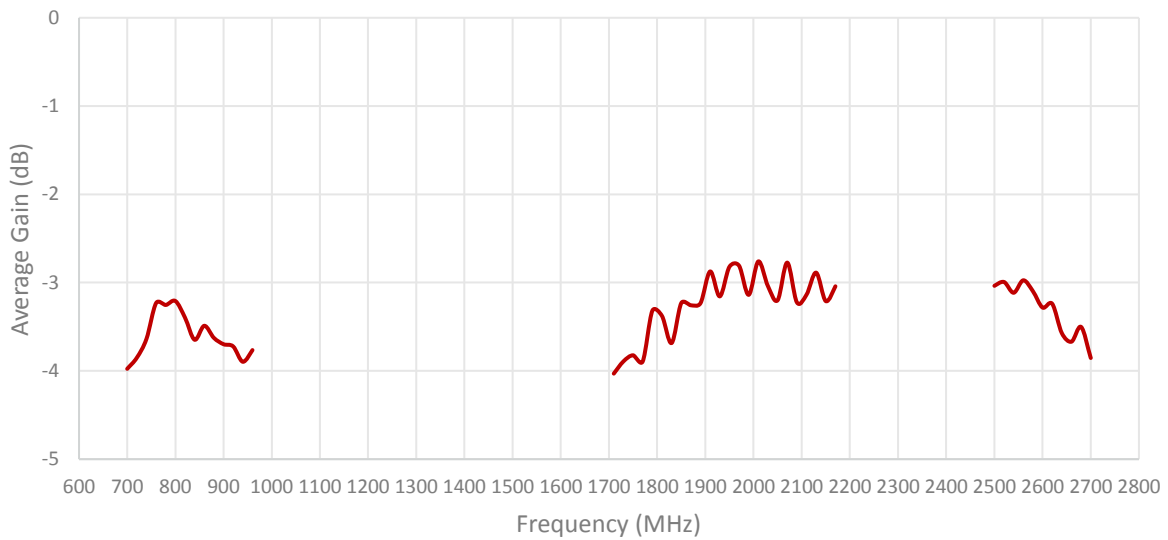
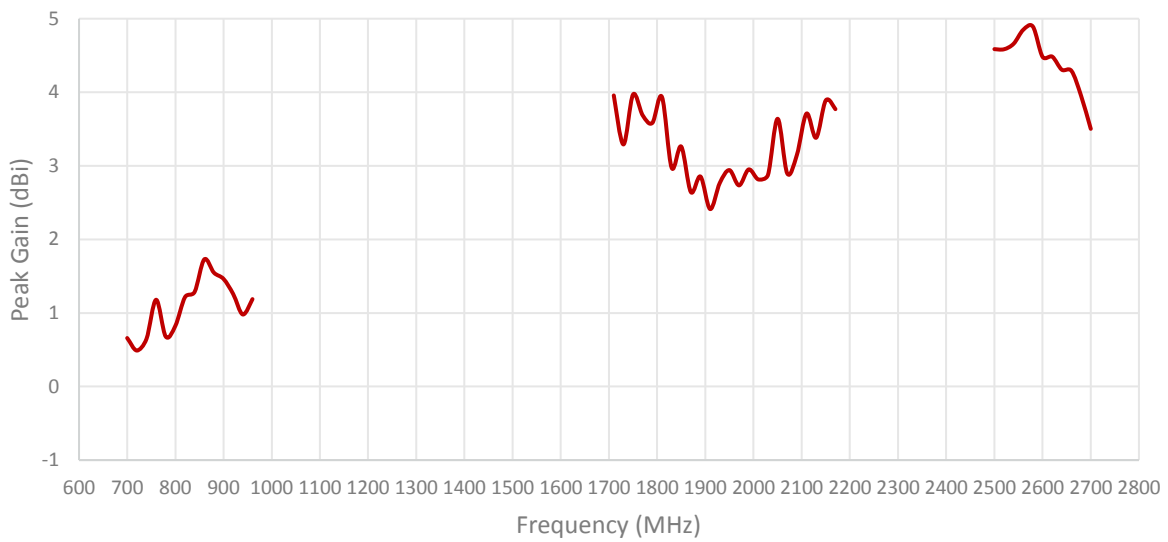
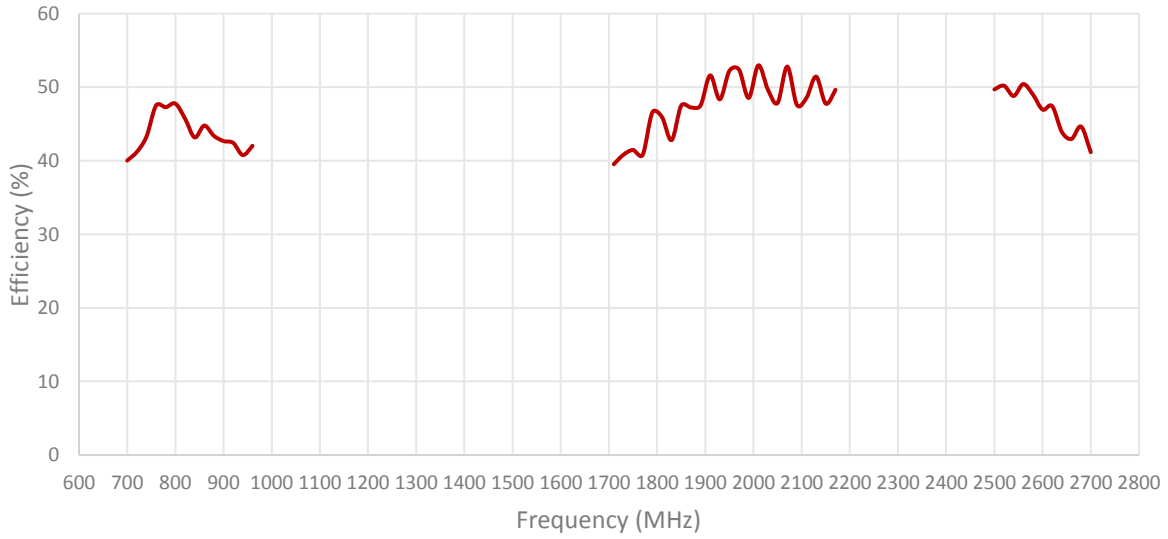
## 2. Mechanical and environmental specifications

Specifications	2J7A24Ba
<b>Mounting Type</b>	Screw Mount
<b>Dimensions (mm)</b>	Ø 96 x H 90
<b>Max. Tighten Torque (Nm)</b>	6 Nm
<b>Radome</b>	ASA
<b>Radome color</b>	White, Black
<b>Antenna Base</b>	ASA
<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, IP69, IK09

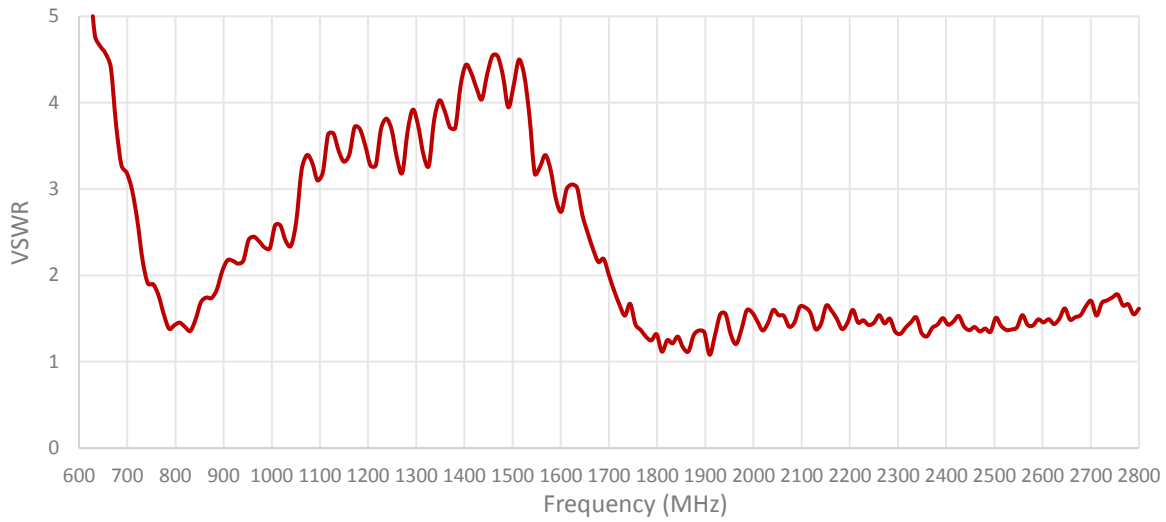
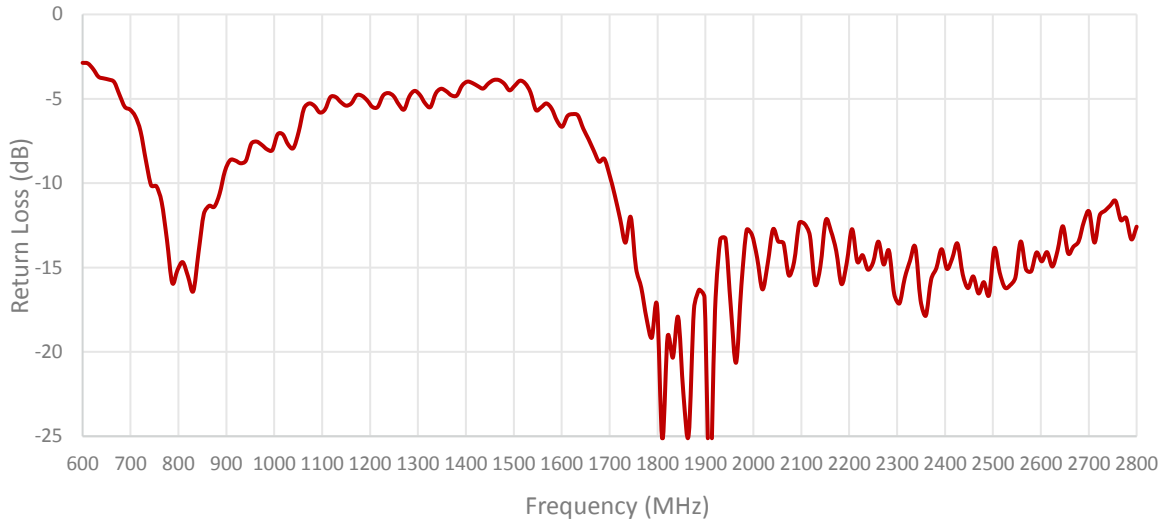
### 3. Antenna parameters

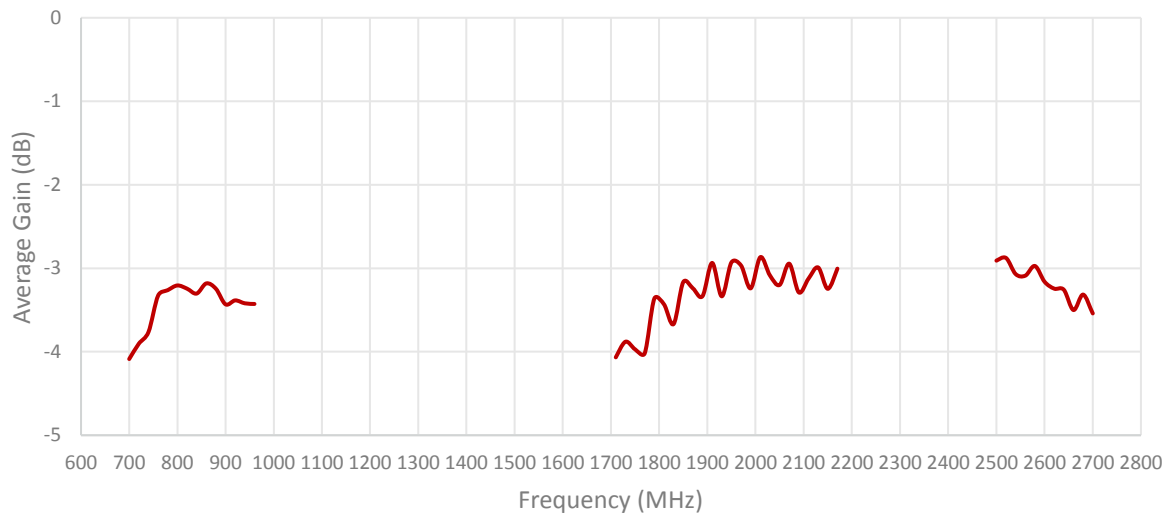
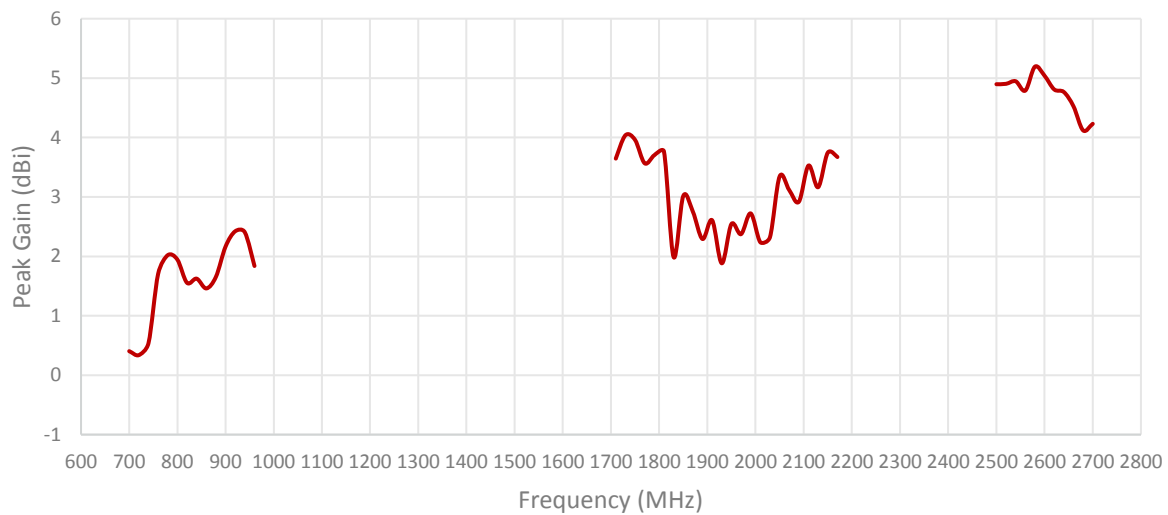
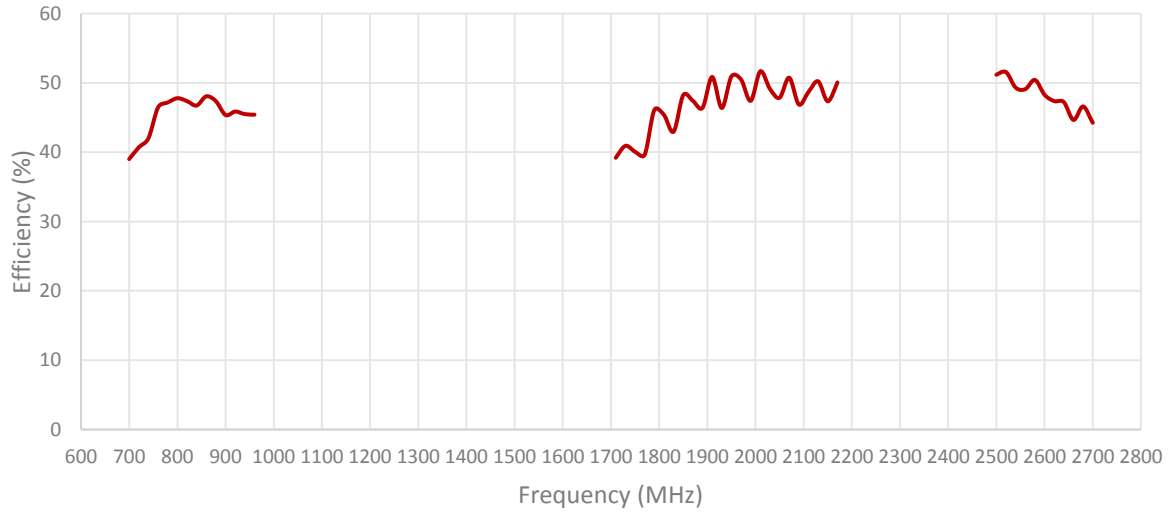
Cable 1: CELLULAR/LTE



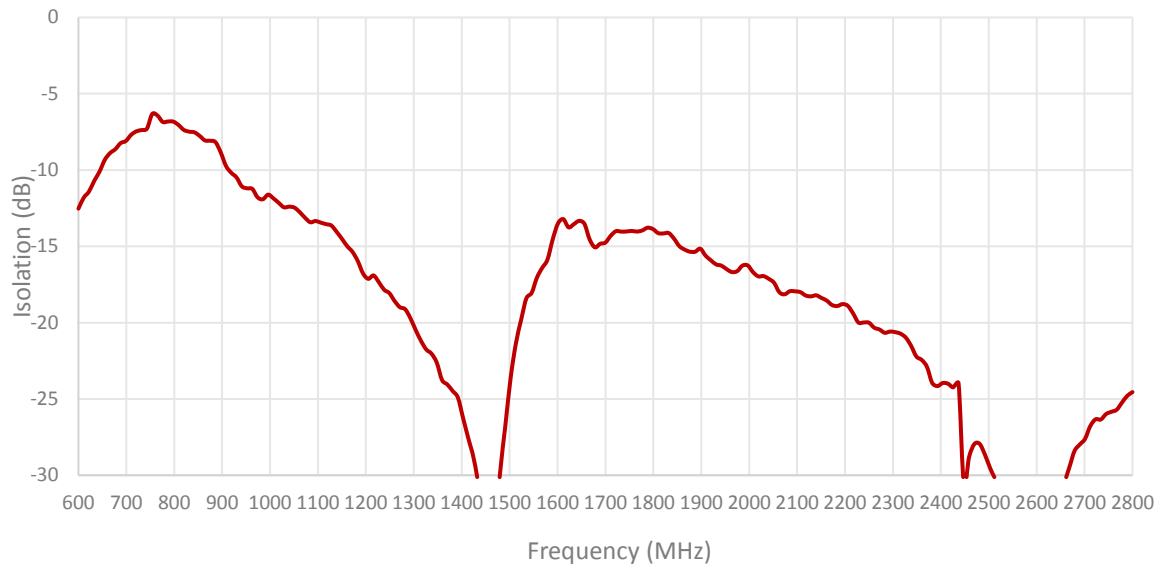


**Table 2: CELLULAR/LTE**

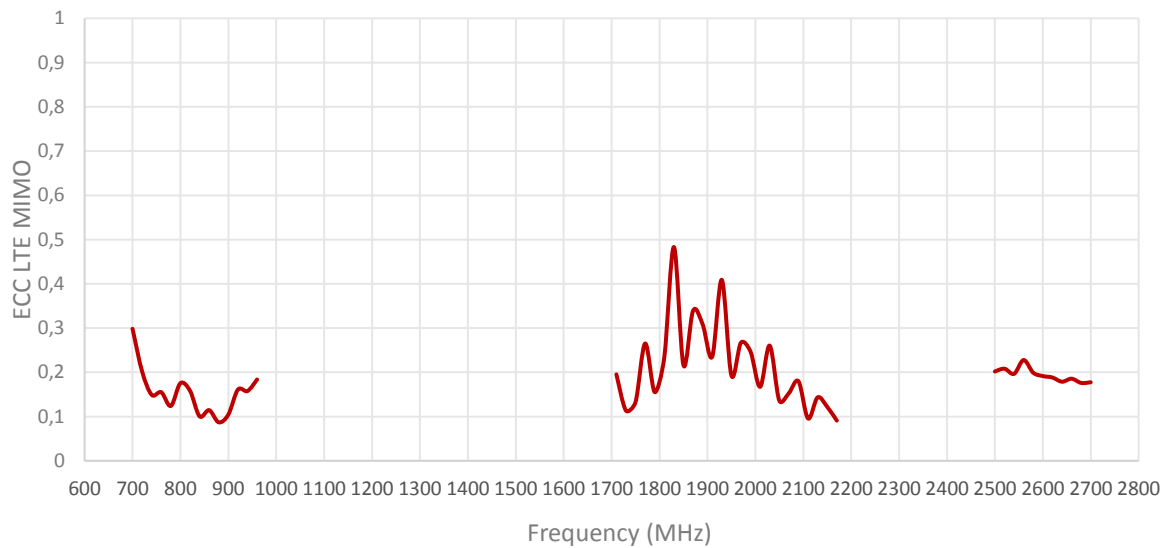




**ISOLATION FOR CABLES 1 AND 2**



**ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2**

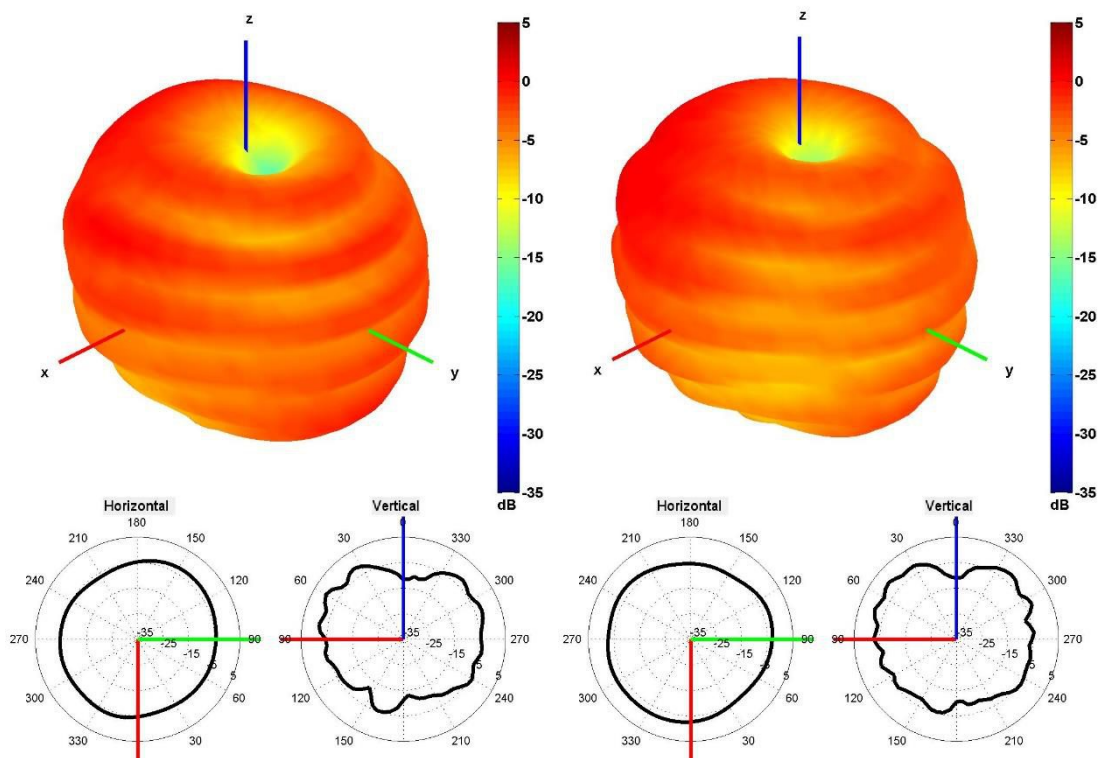




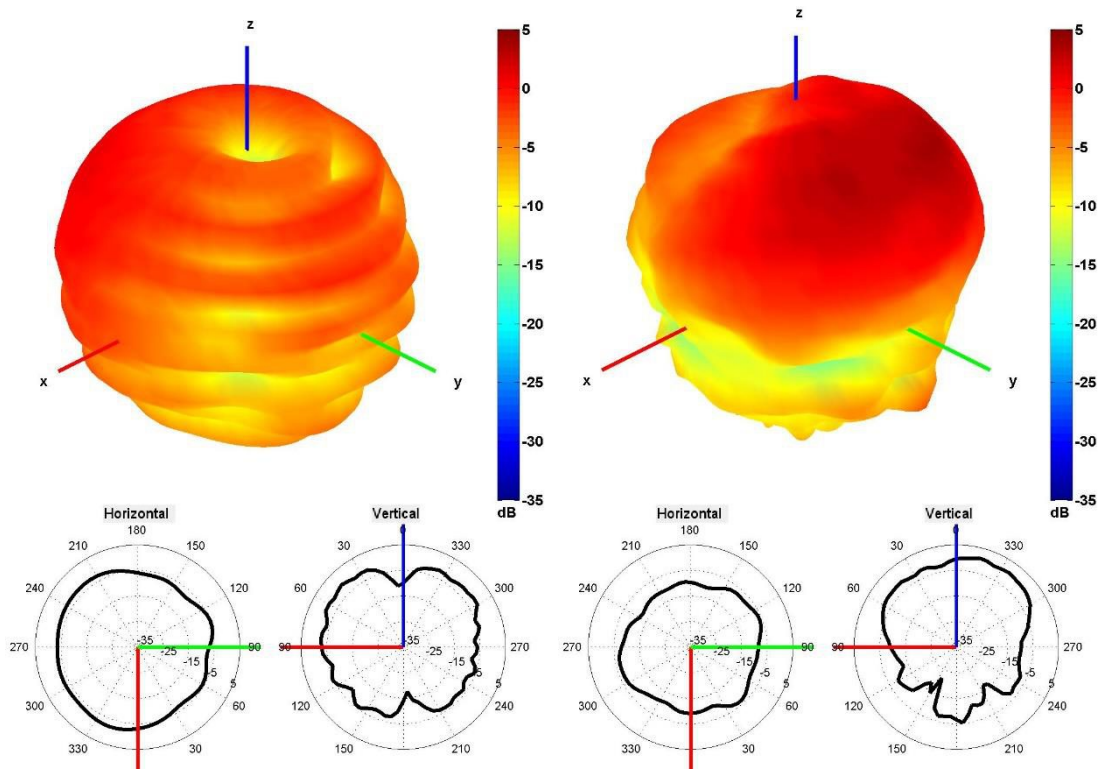


Radiation pattern reference

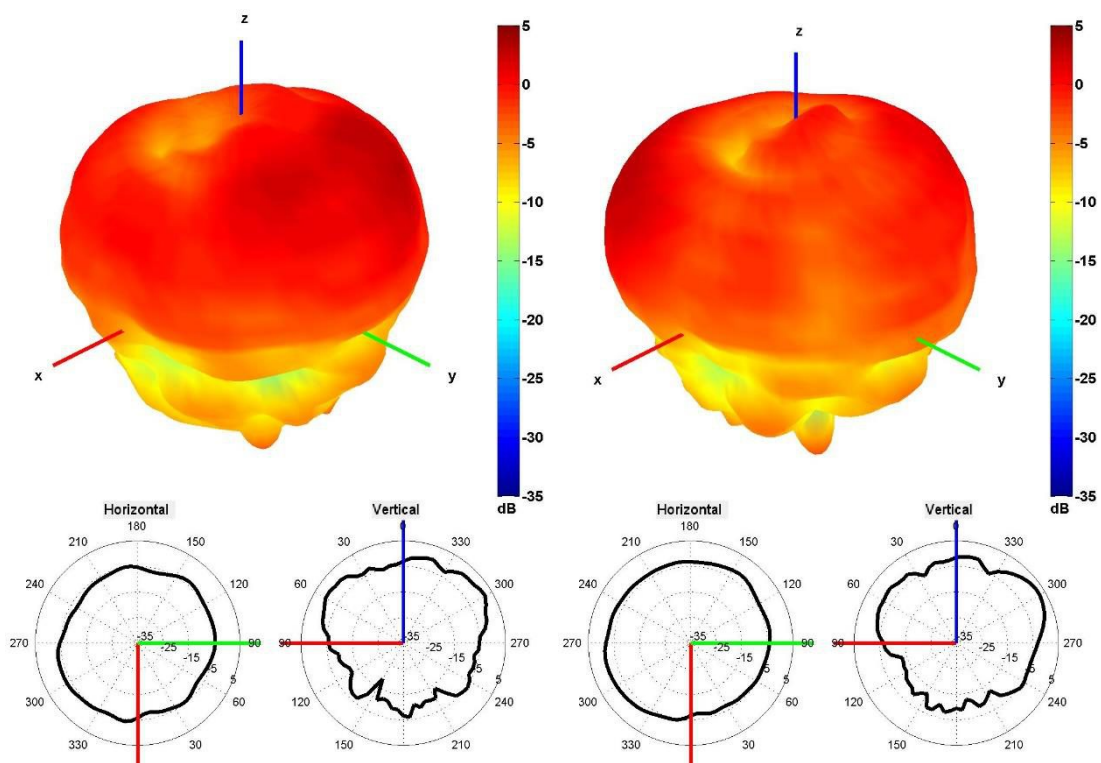
Cable 1: CELLULAR/LTE



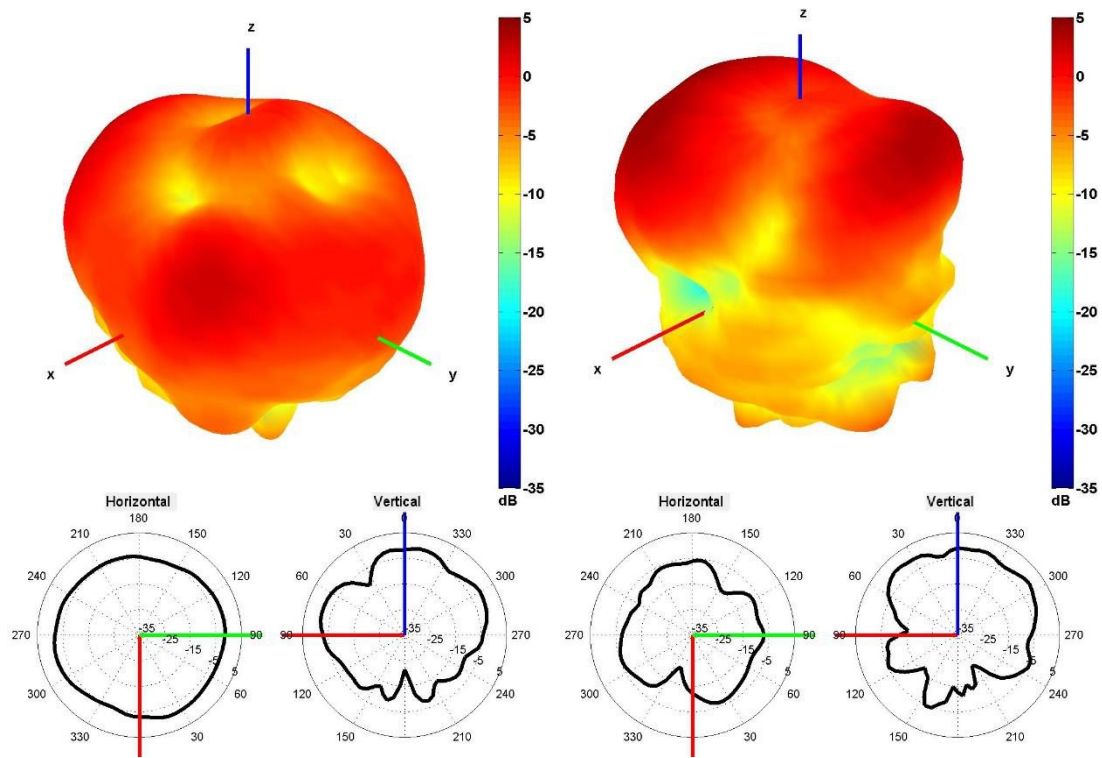
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

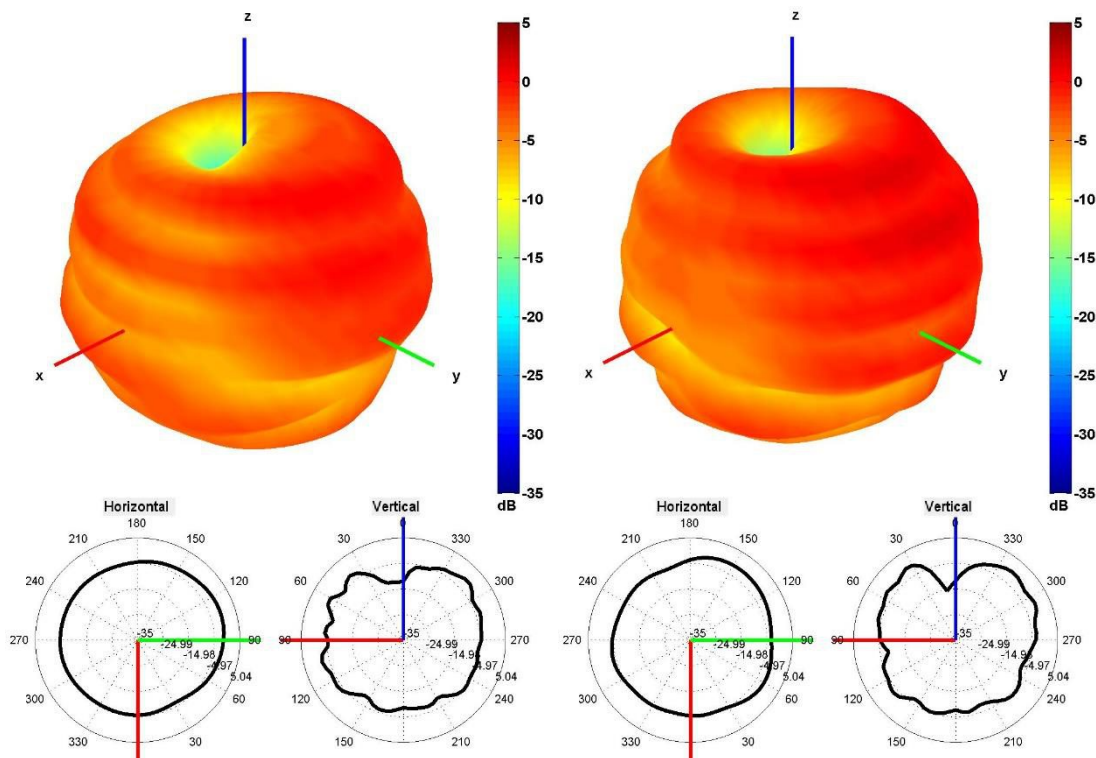


1850 and 1950 MHz Radiation pattern

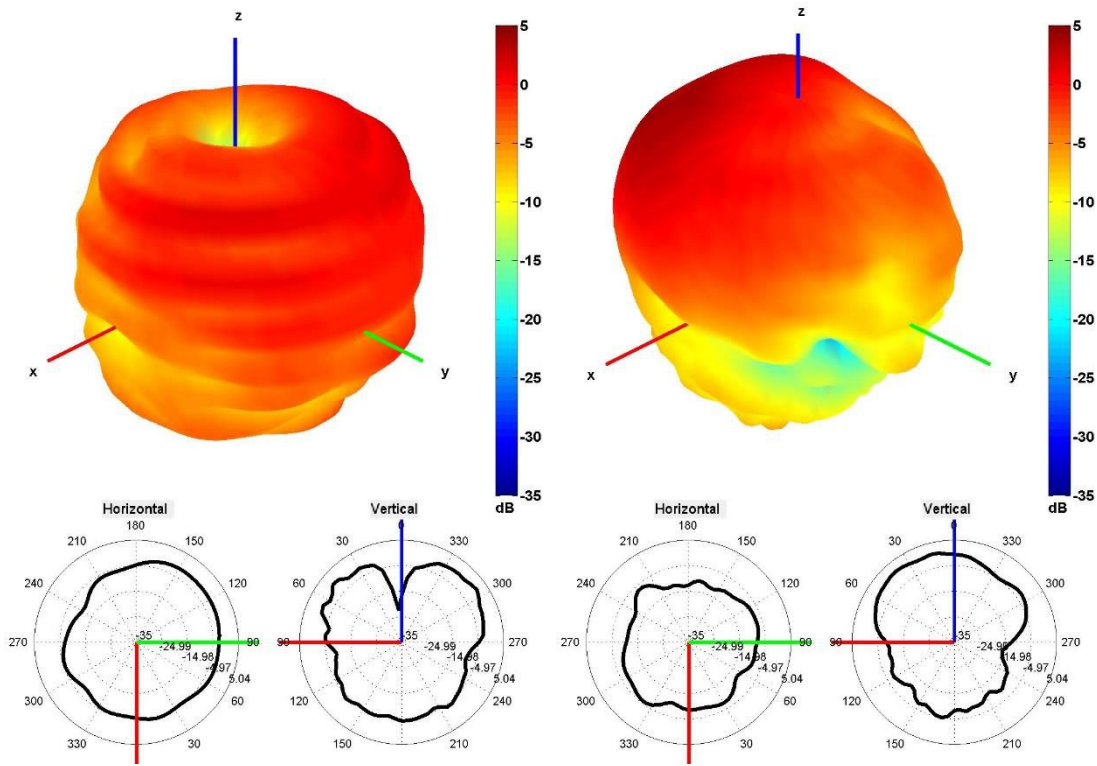


2100 and 2600 MHz Radiation pattern

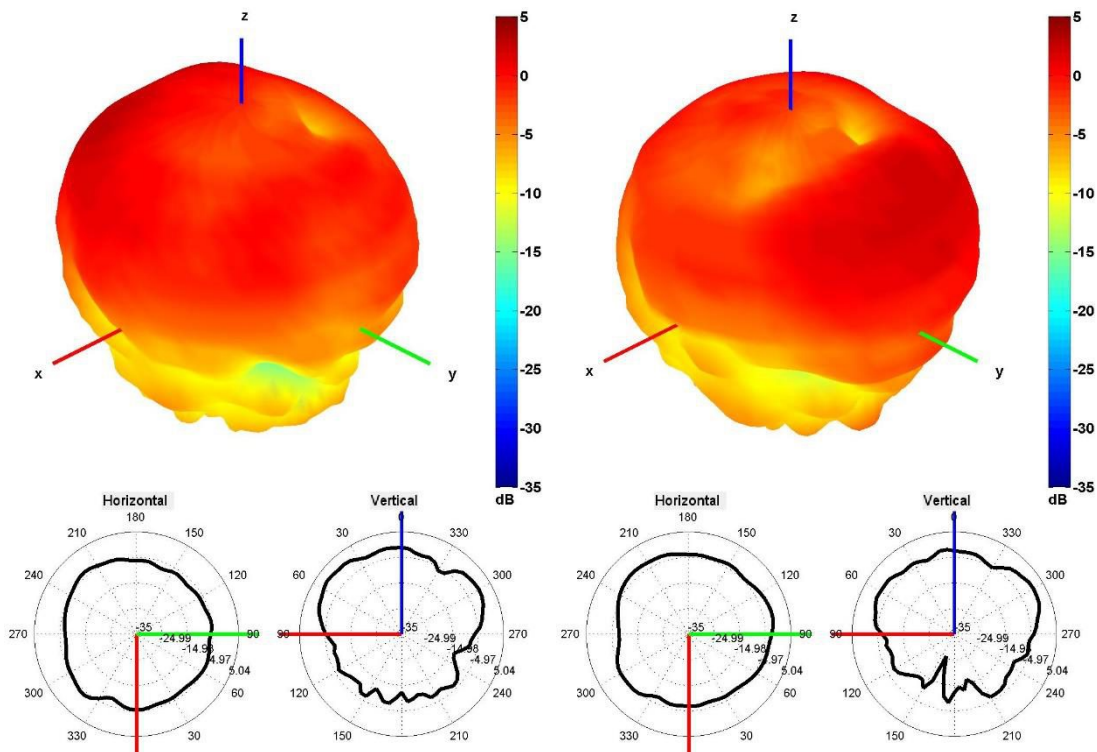
Cable 2: CELLULAR/LTE



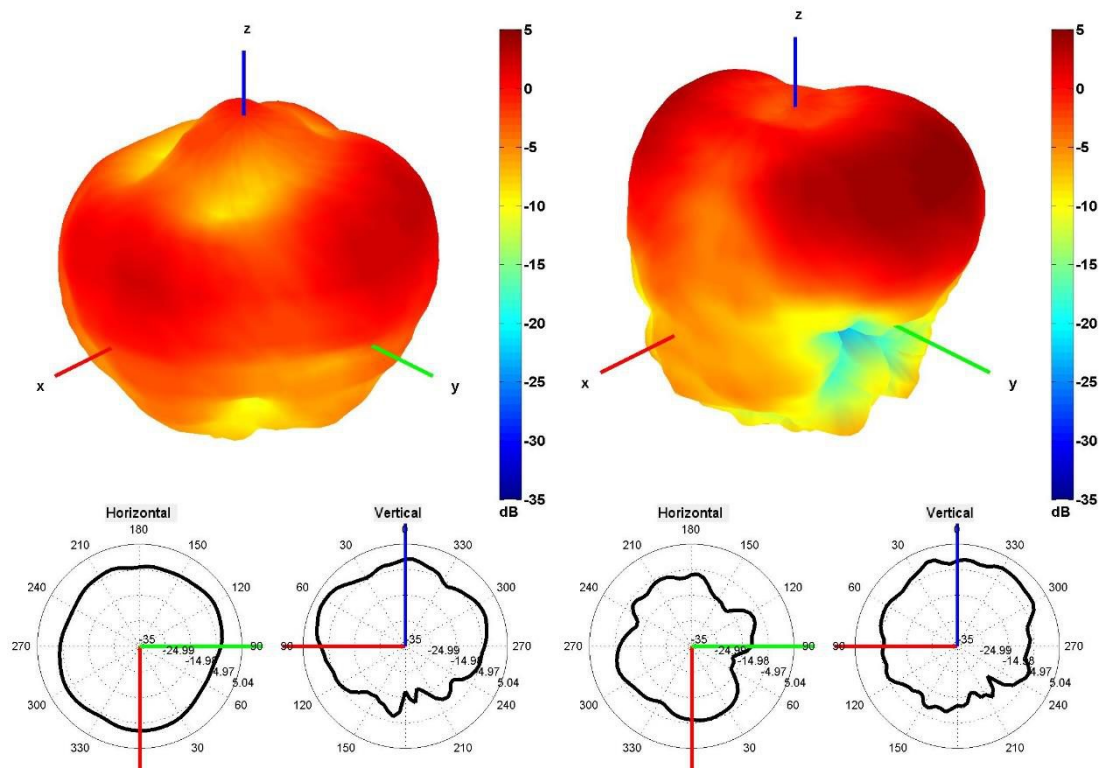
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

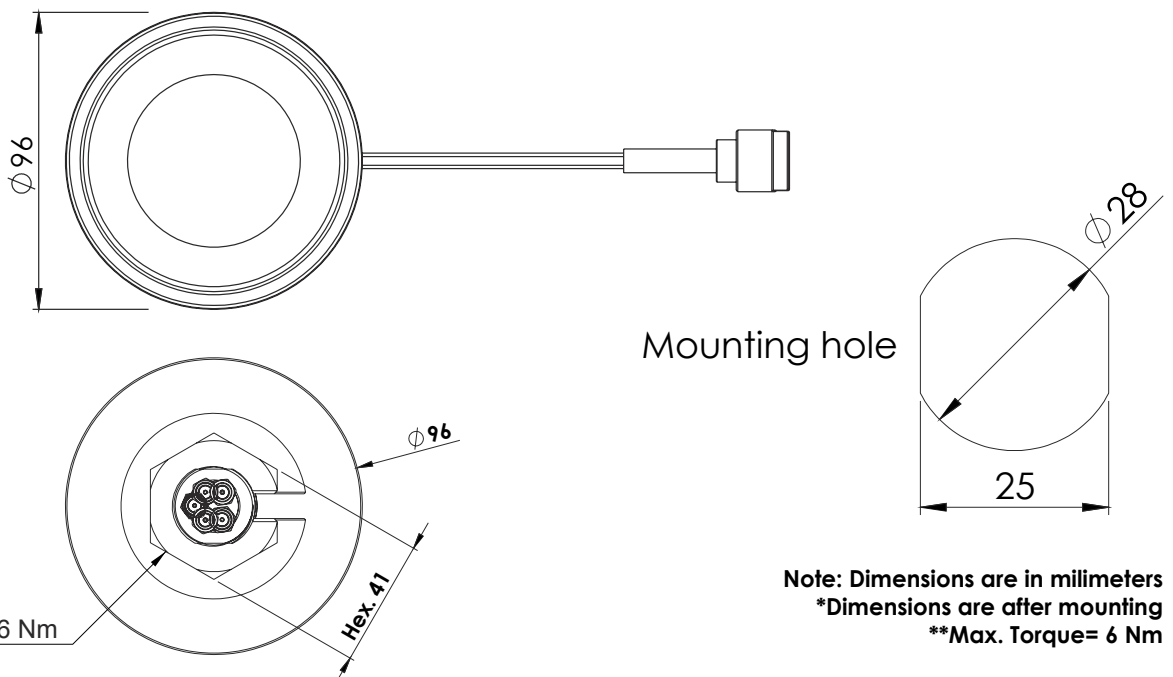
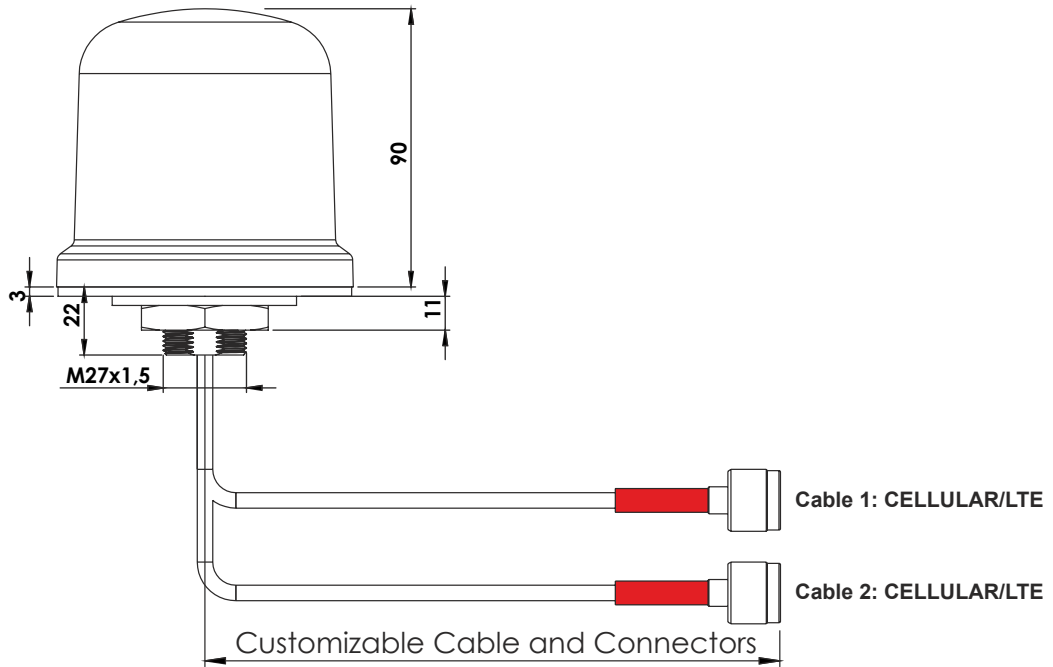


1850 and 1950 MHz Radiation pattern

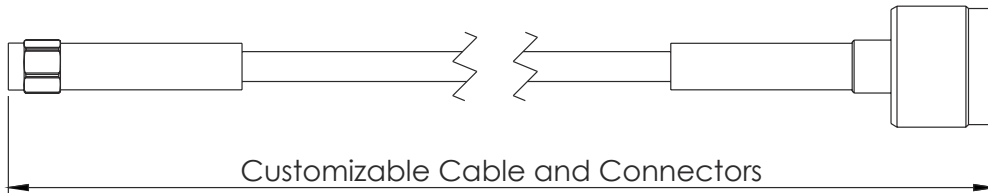


2100 and 2600 MHz Radiation pattern

## 4. Antenna drawings

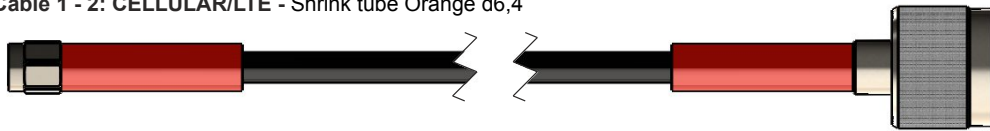


## 5. Jumper cables drawings - Optional



### C318N-LMR195-C91N OST - 2x

Cable 1 - 2: CELLULAR/LTE - Shrink tube Orange d6,4



## 5. Antenna Images

