

## 2J6524Ba

### CELLULAR/LTE MIMO Screw Mount

#### Key Features

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

- 791-960 MHz

- 1710-2170 MHz

- 2500-2700 MHz

Screw Mount

Heavy Duty antenna

High Performance

Ground Plane Dependent

Anti-Rotation Mounting

Customizable Cable and Connector

Dimensions  $\varnothing$  146 x 31.5 mm

Certificates: IP67, IP69K, IK09



**Note:** This antenna is suitable only for European LTE frequency bands



## 1. Antenna and electrical specifications

Cable 1

Parameters	CELLULAR / LTE Antenna		
	4G LTE/FirstNet/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G		
<b>Standards</b>	4G LTE/FirstNet/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G		
<b>Band (MHz)</b>	800/850/900	1700/1800/1900/2100	2600
<b>Frequency (MHz)</b>	791-960	1710-2170	2500-2700
<b>Return Loss (dB)</b>	~-8.9	~-14.1	~-12.5
<b>VSWR</b>	~2.2:1	~1.5:1	~1.6:1
<b>Efficiency (%)</b>	~27.0	~34.2	~24.2
<b>Peak Gain (dBi)</b>	~-1.1	~2.2	~0.8
<b>Average Gain (dB)</b>	~-6.3	~-4.7	~-6.2
<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>	RG174 Standard (Other Cables Available)		

Cable 2

Parameters	CELLULAR / LTE Antenna		
	4G LTE/FirstNet/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G		
<b>Standards</b>	4G LTE/FirstNet/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G		
<b>Band (MHz)</b>	800/850/900	1700/1800/1900/2100	2600
<b>Frequency (MHz)</b>	791-960	1710-2170	2500-2700
<b>Return Loss (dB)</b>	~-7.9	~-12.2	~-13.4
<b>VSWR</b>	~2.5:1	~1.7:1	~1.6:1
<b>Efficiency (%)</b>	~22.9	~26.5	~24.1
<b>Peak Gain (dBi)</b>	~-1.9	~0.2	~0.5
<b>Average Gain (dB)</b>	~-7.4	~-6.0	~-6.2
<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>	RG174 Standard (Other Cables Available)		

**Antenna Measurement Conditions:**

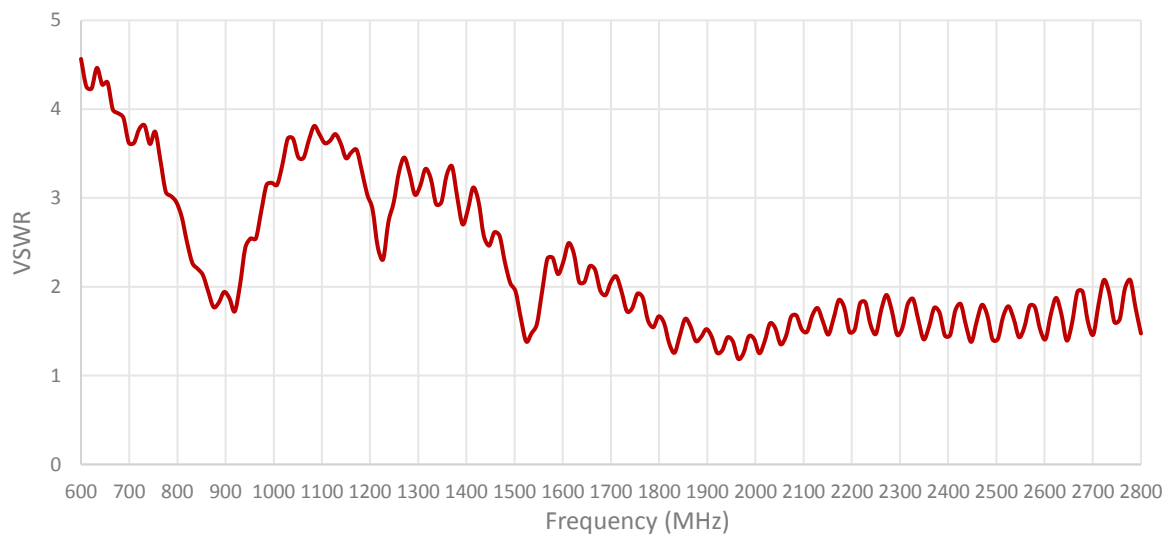
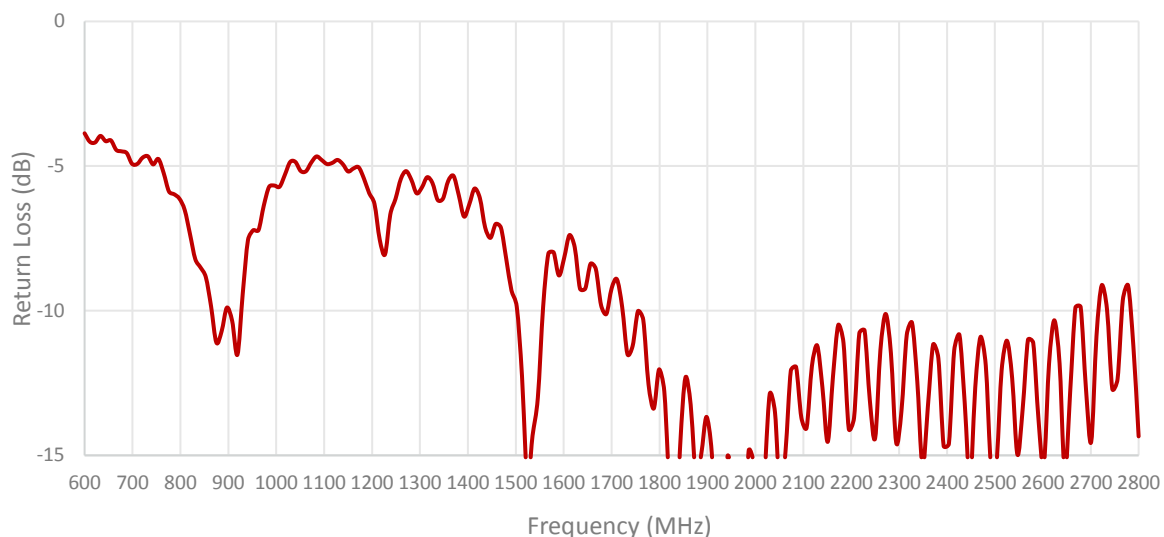
Mounted on Metal Plate of 30 x 30 cm  
 200 cm of RG174 Cable  
 Measured in Certified CTIA 3D Anechoic Chamber

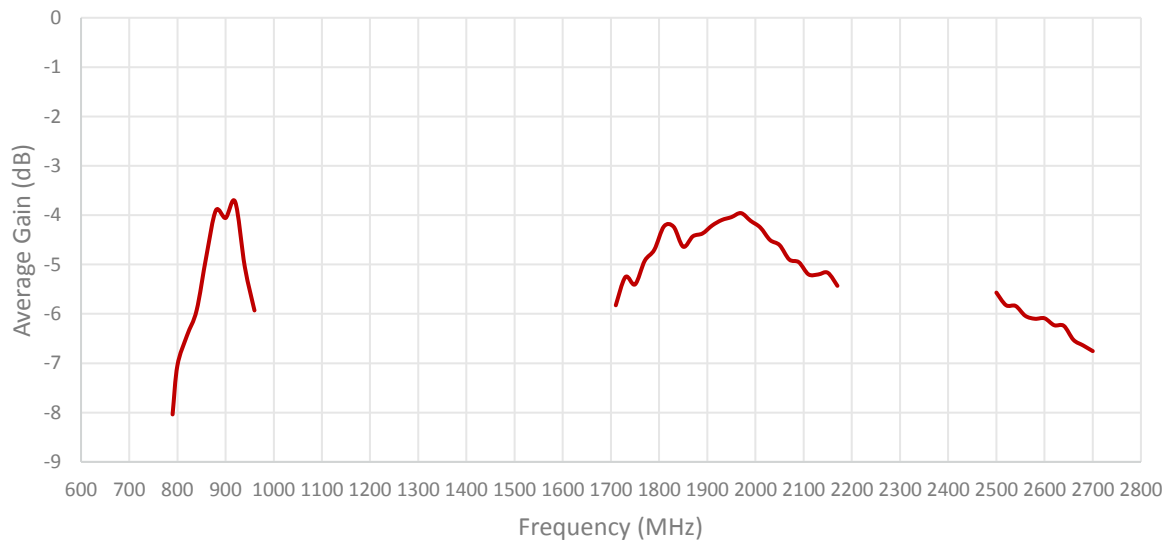
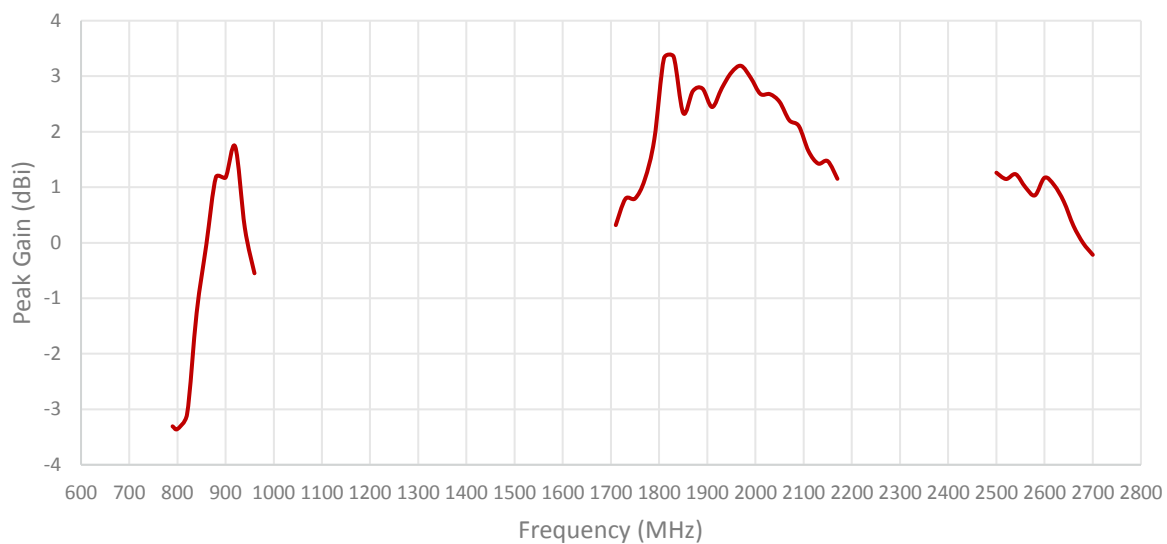
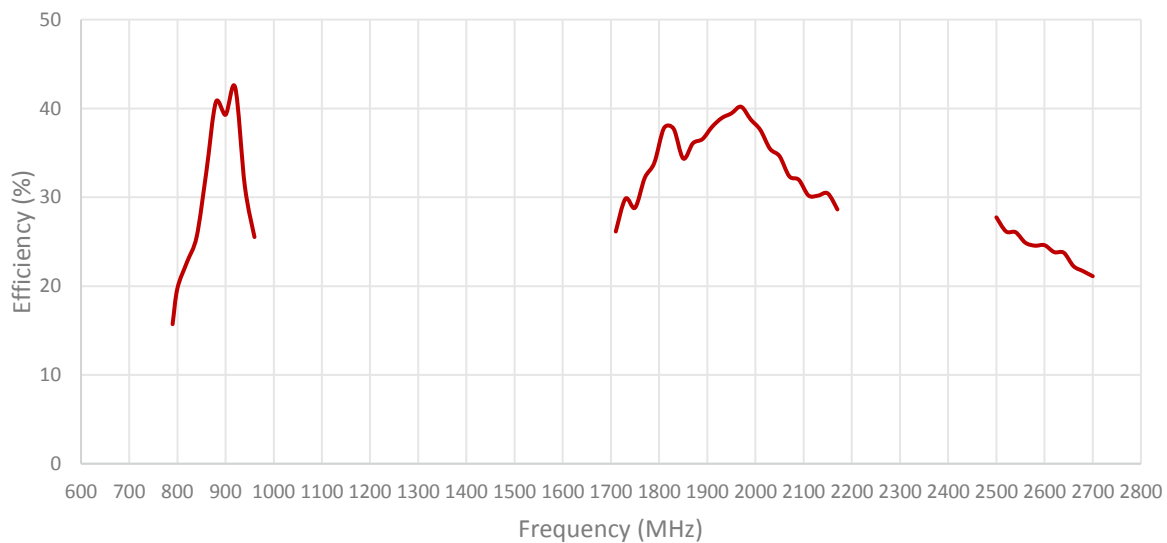
## 2. Mechanical and environmental specifications

Specifications	2J6524Ba
<b>Mounting Type</b>	Screw Mount
<b>Dimensions (mm)</b>	Ø 146 x 31.5
<b>Max. Tighten Torque (Nm)</b>	6 Nm
<b>Radome</b>	ABS
<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>	IK09, IP67, IP69K

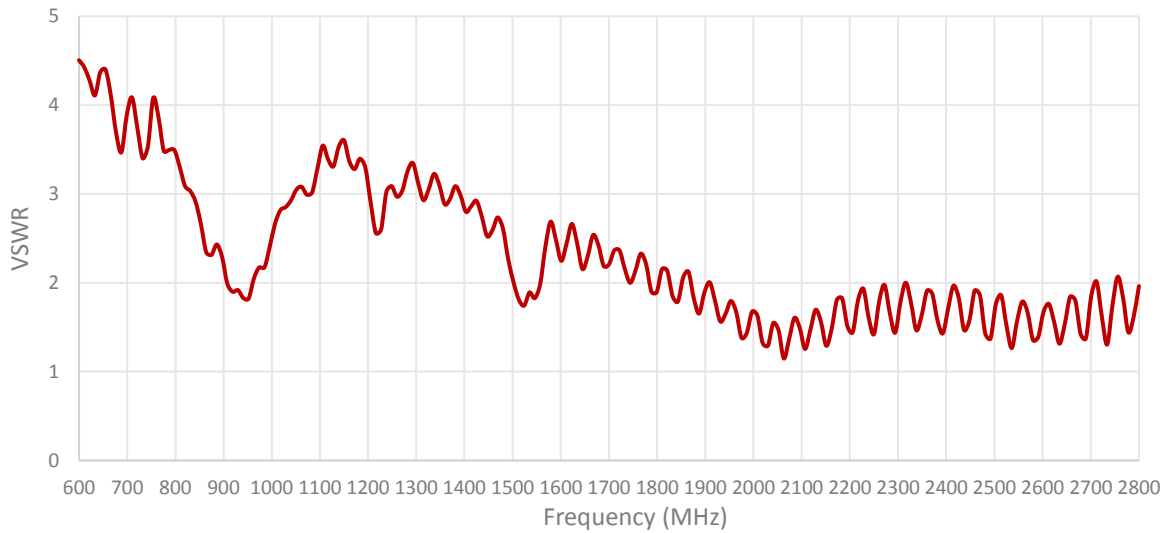
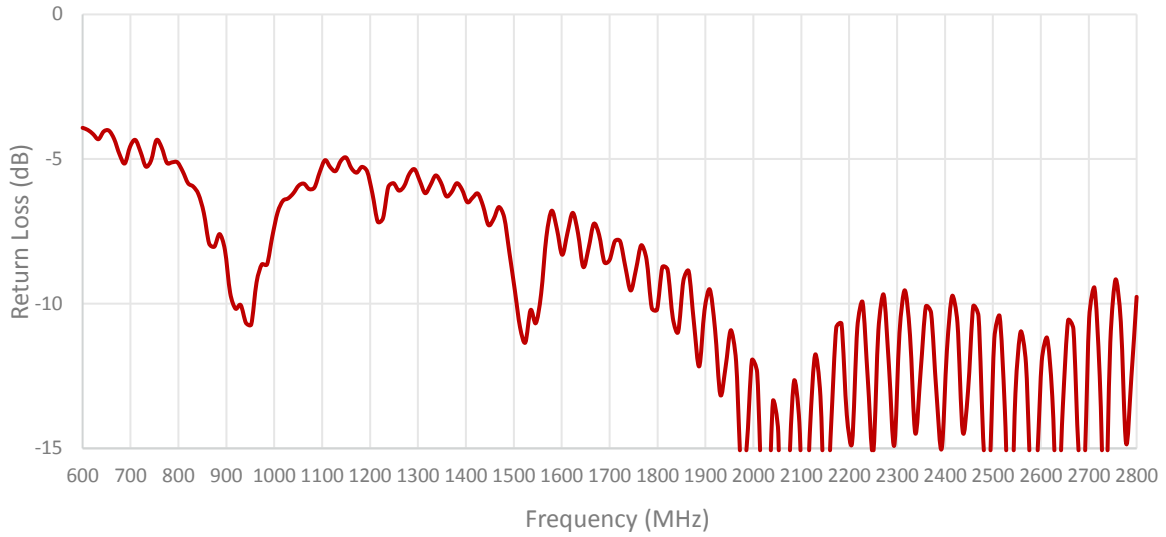
### 3. Antenna parameters

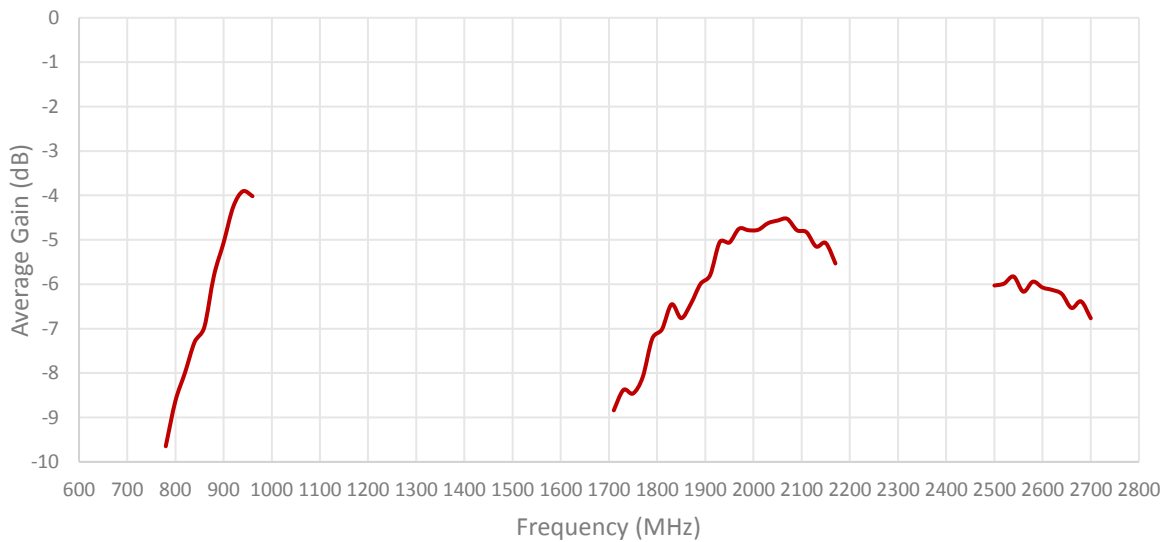
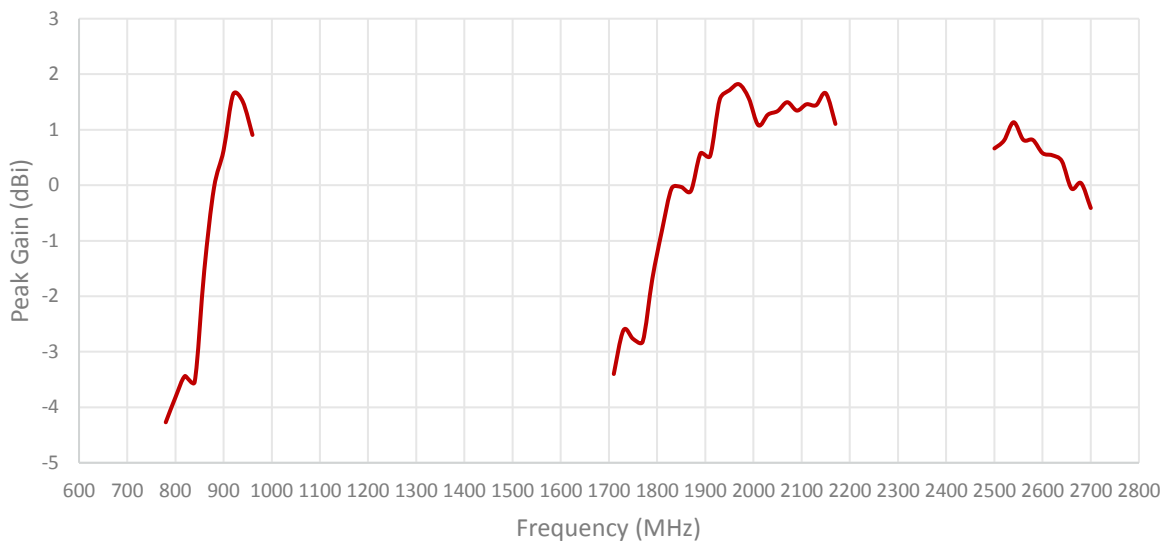
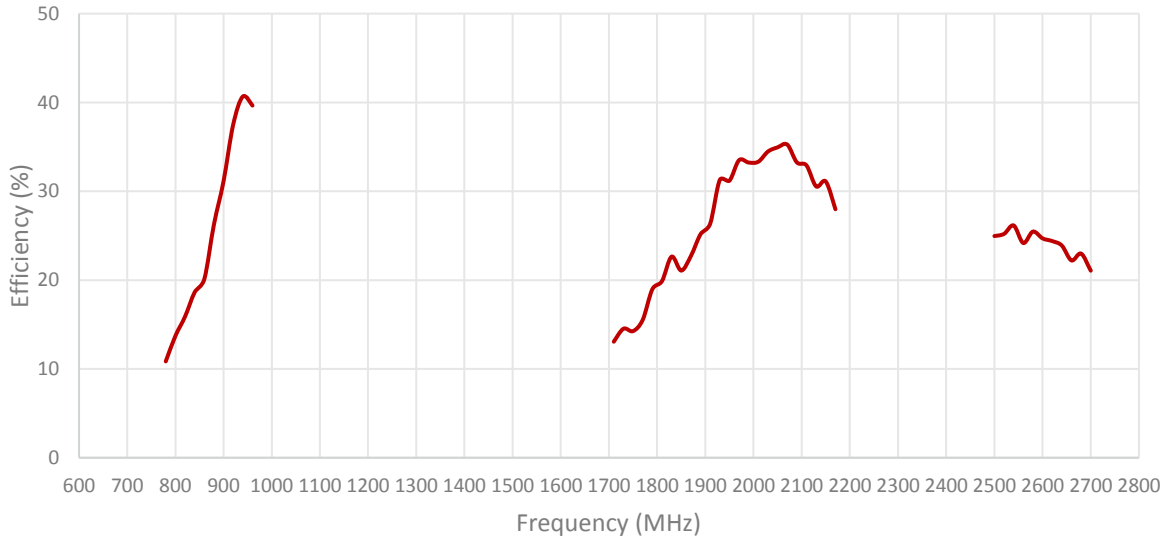
Cable 1: CELLULAR/LTE



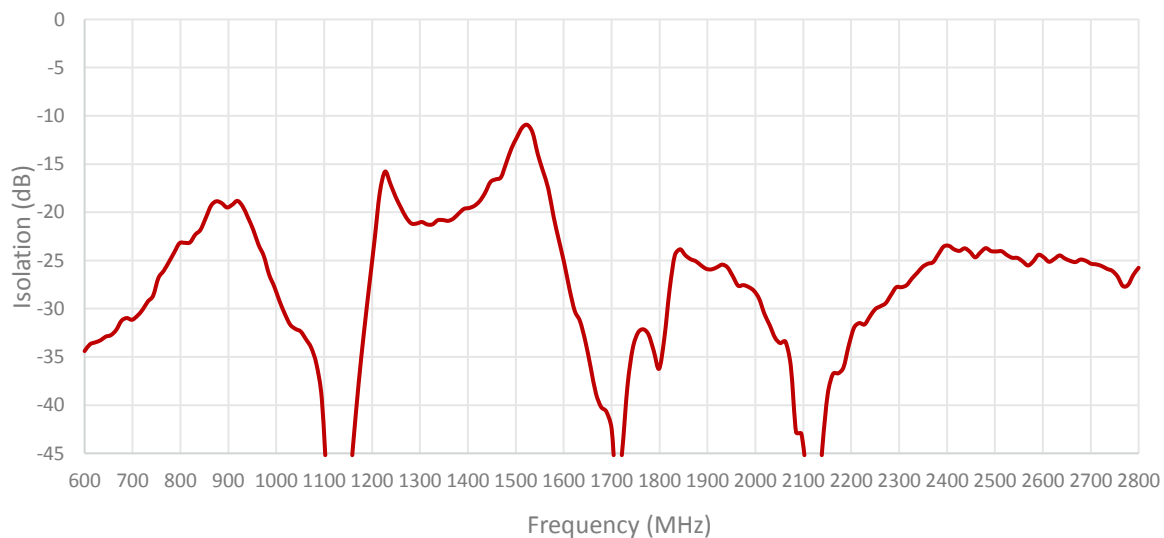


**Table 2: CELLULAR/LTE**

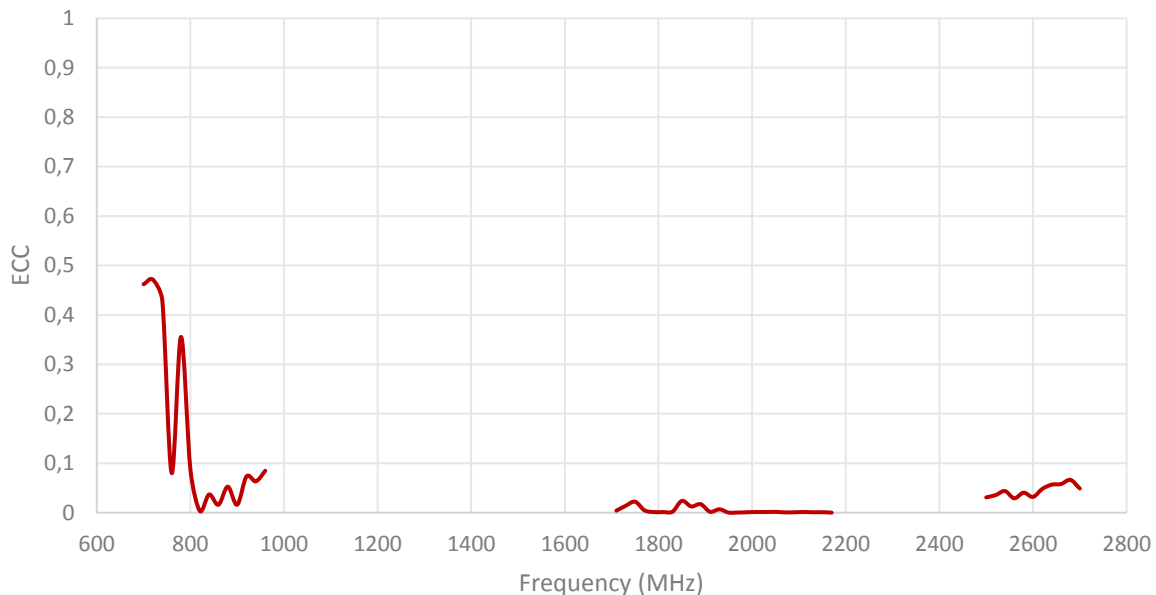




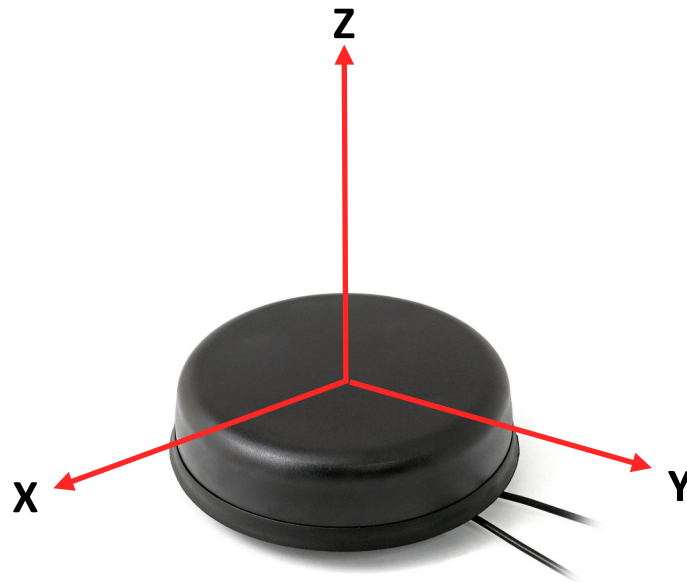
**ISOLATION FOR CABLES 1 AND 2**



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

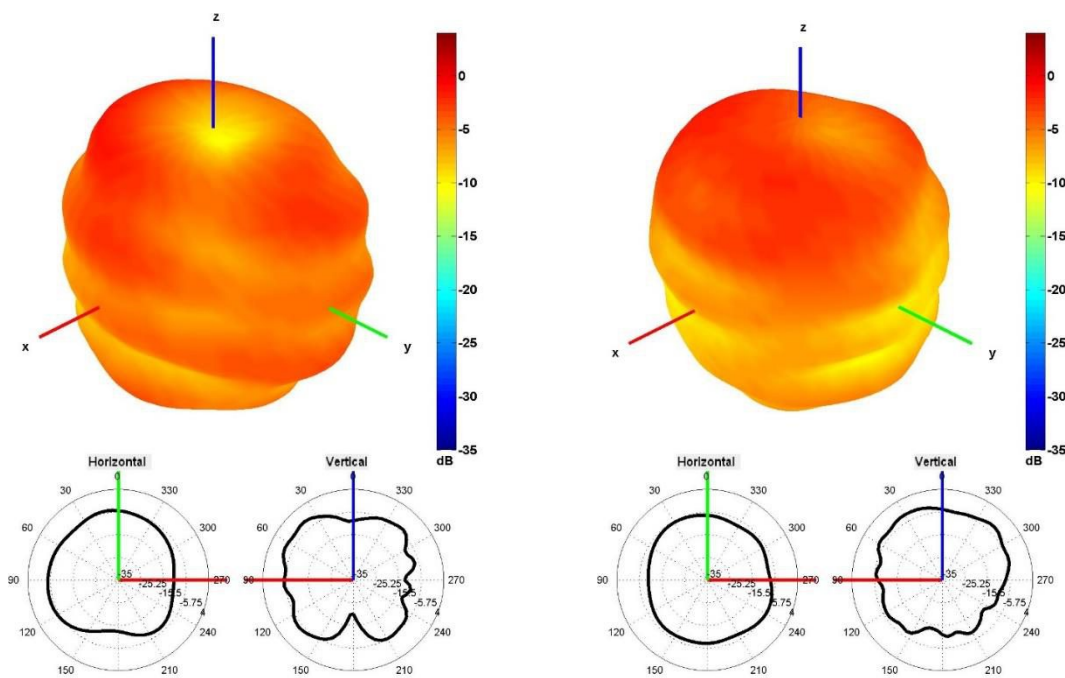




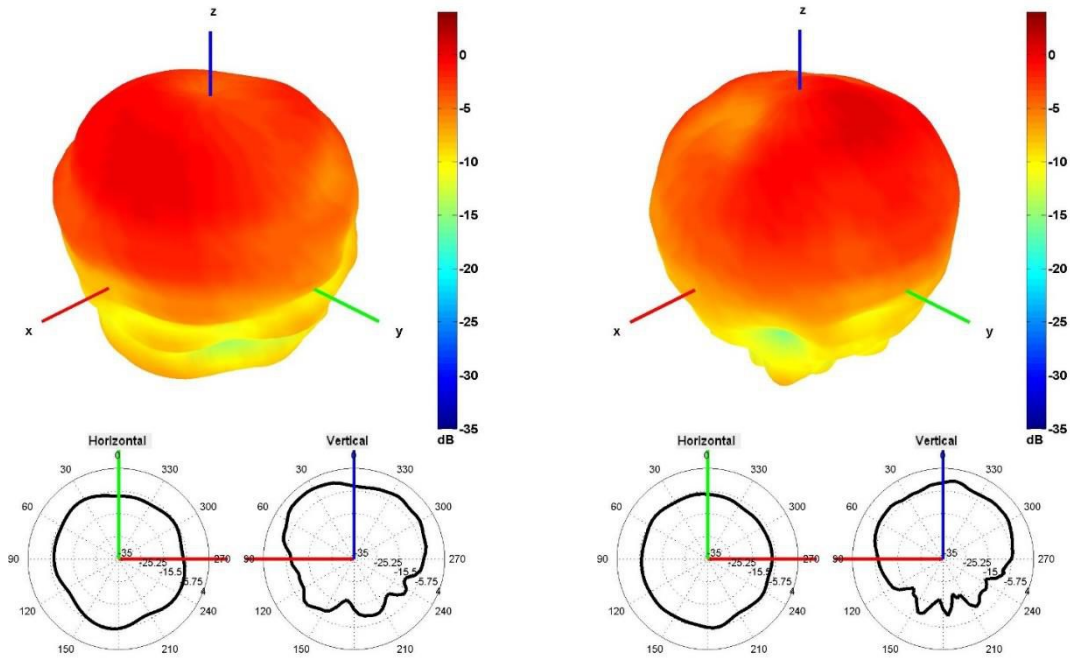


Radiation pattern reference

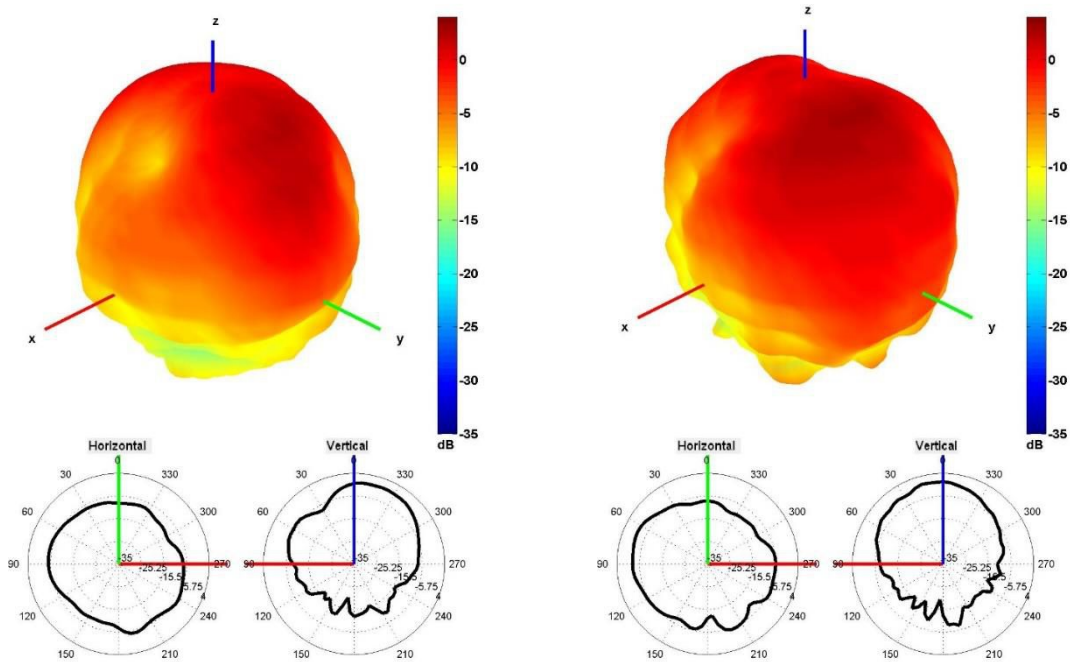
Cable 1: CELLULAR/LTE



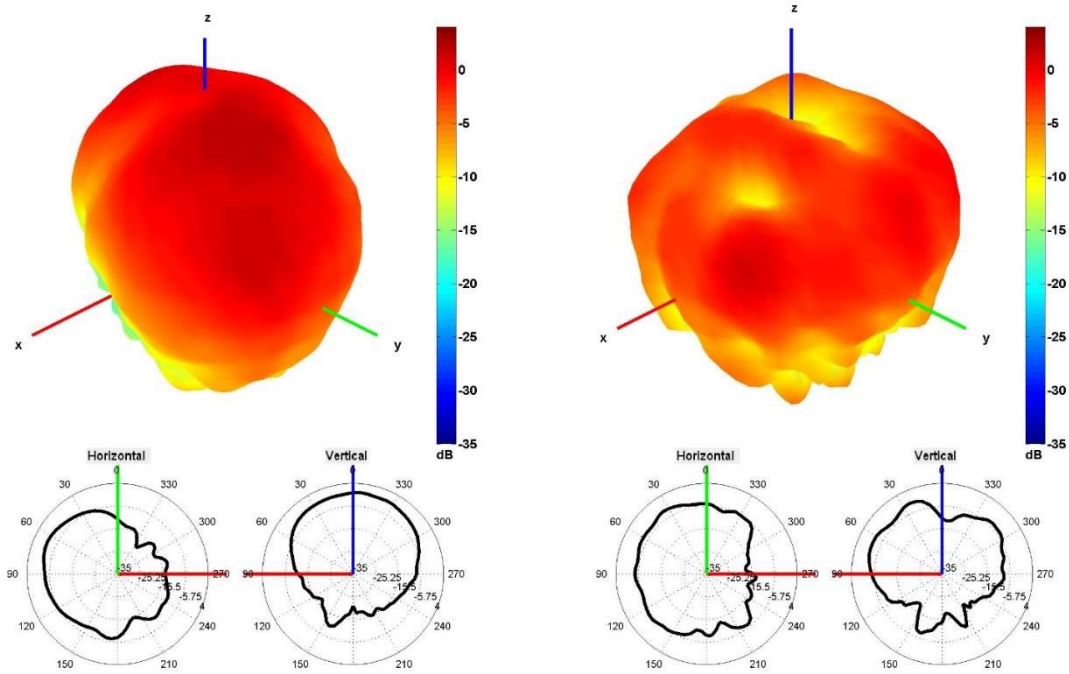
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

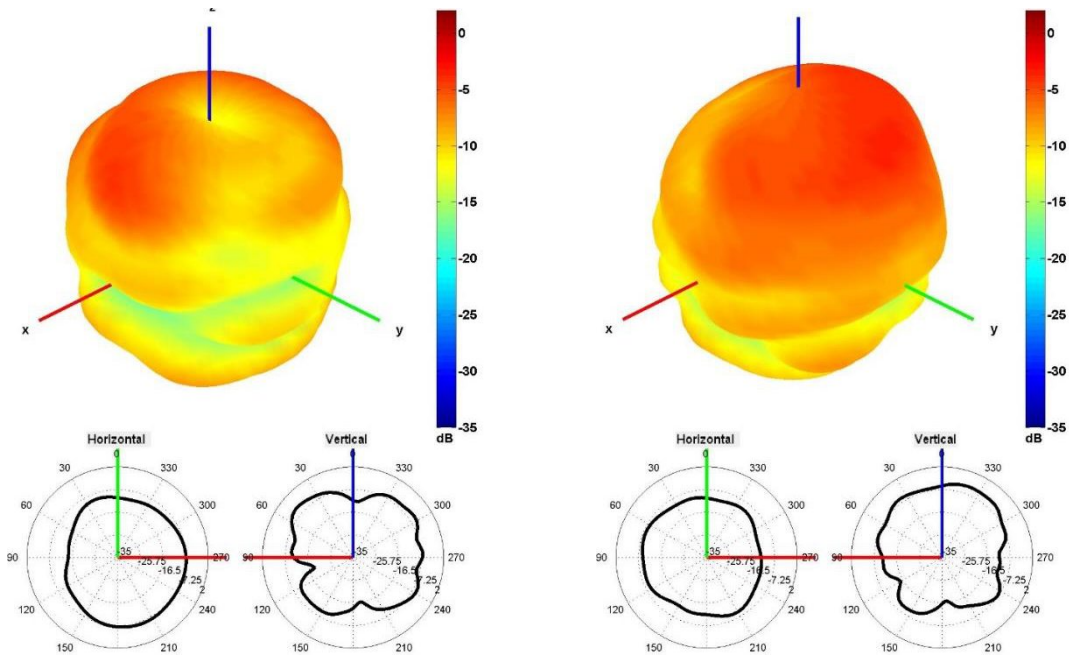


1850 and 1950 MHz Radiation pattern

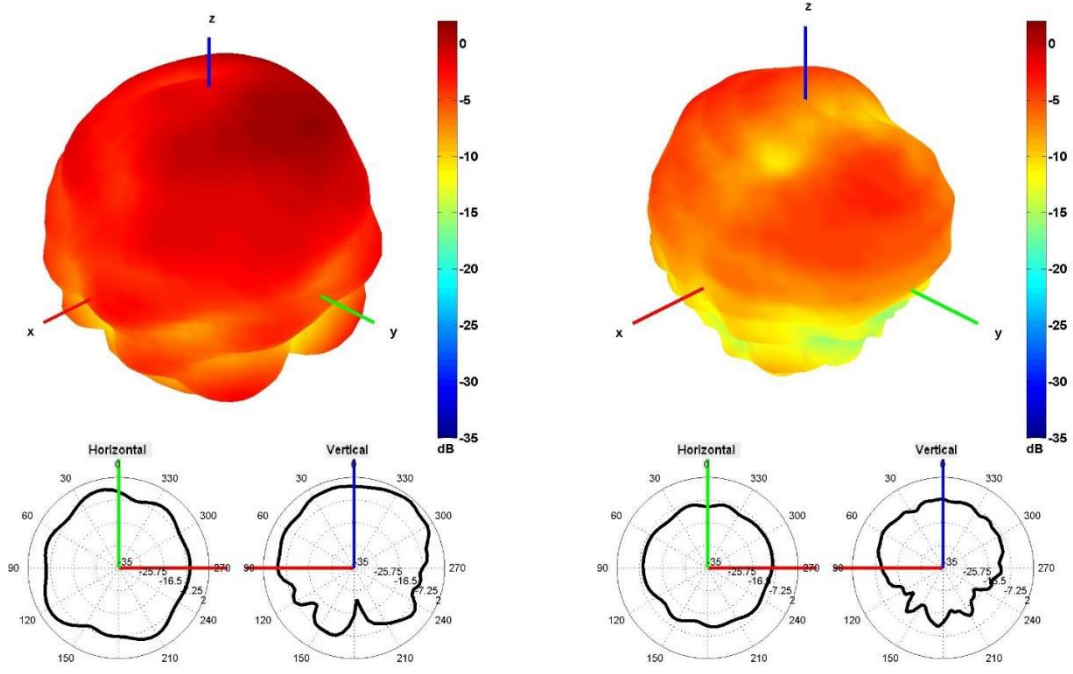


2100 and 2600 MHz Radiation pattern

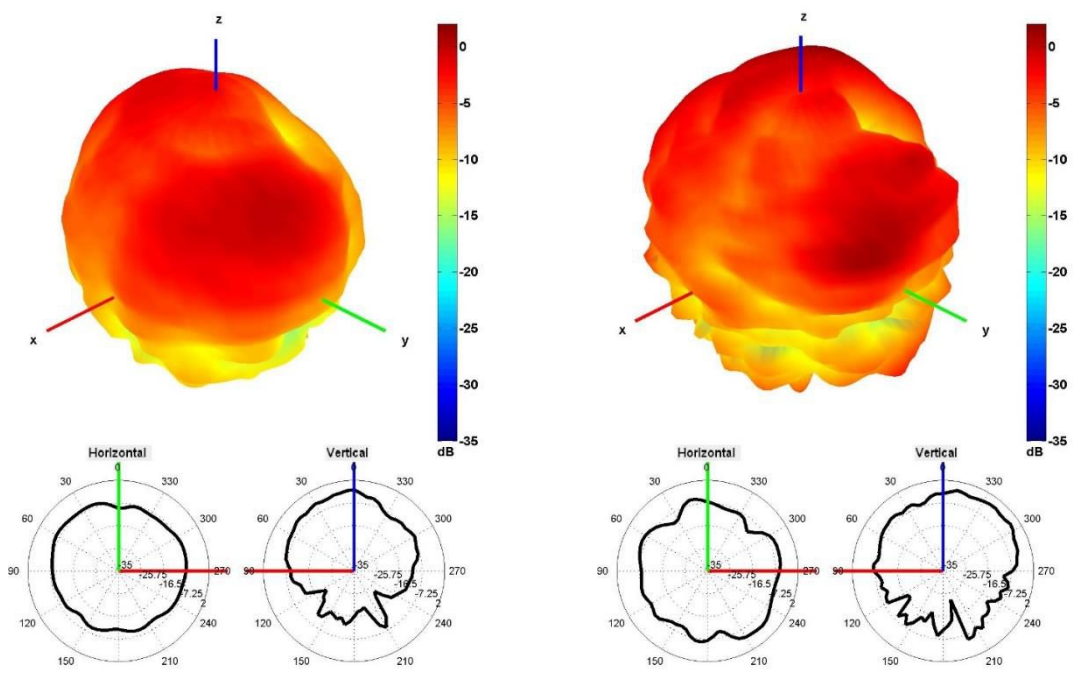
Cable 2: CELLULAR/LTE



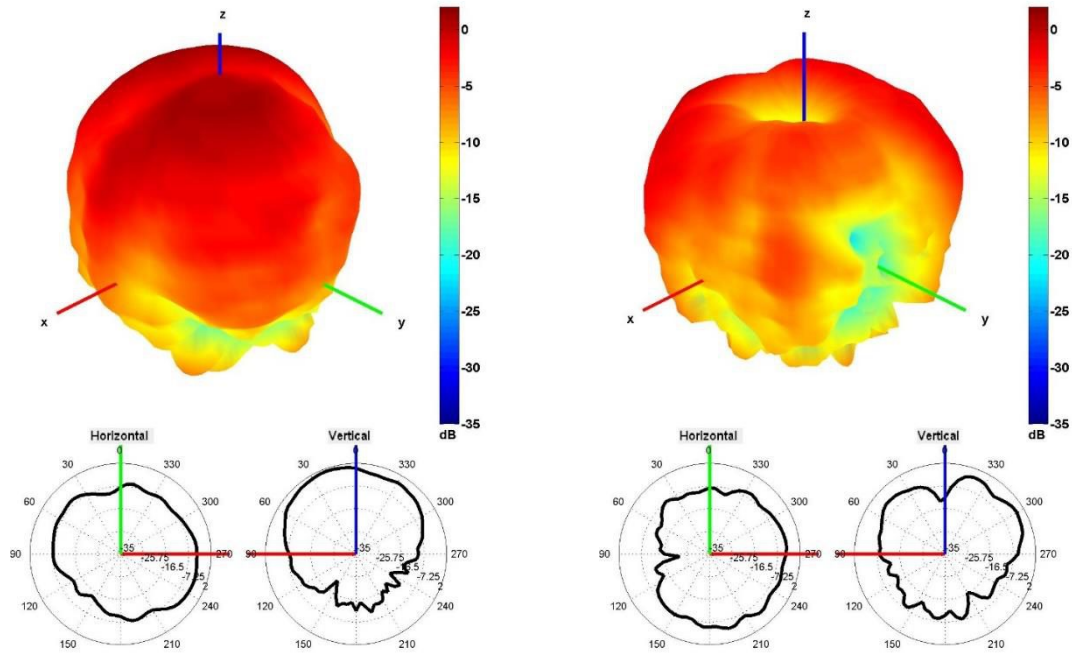
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

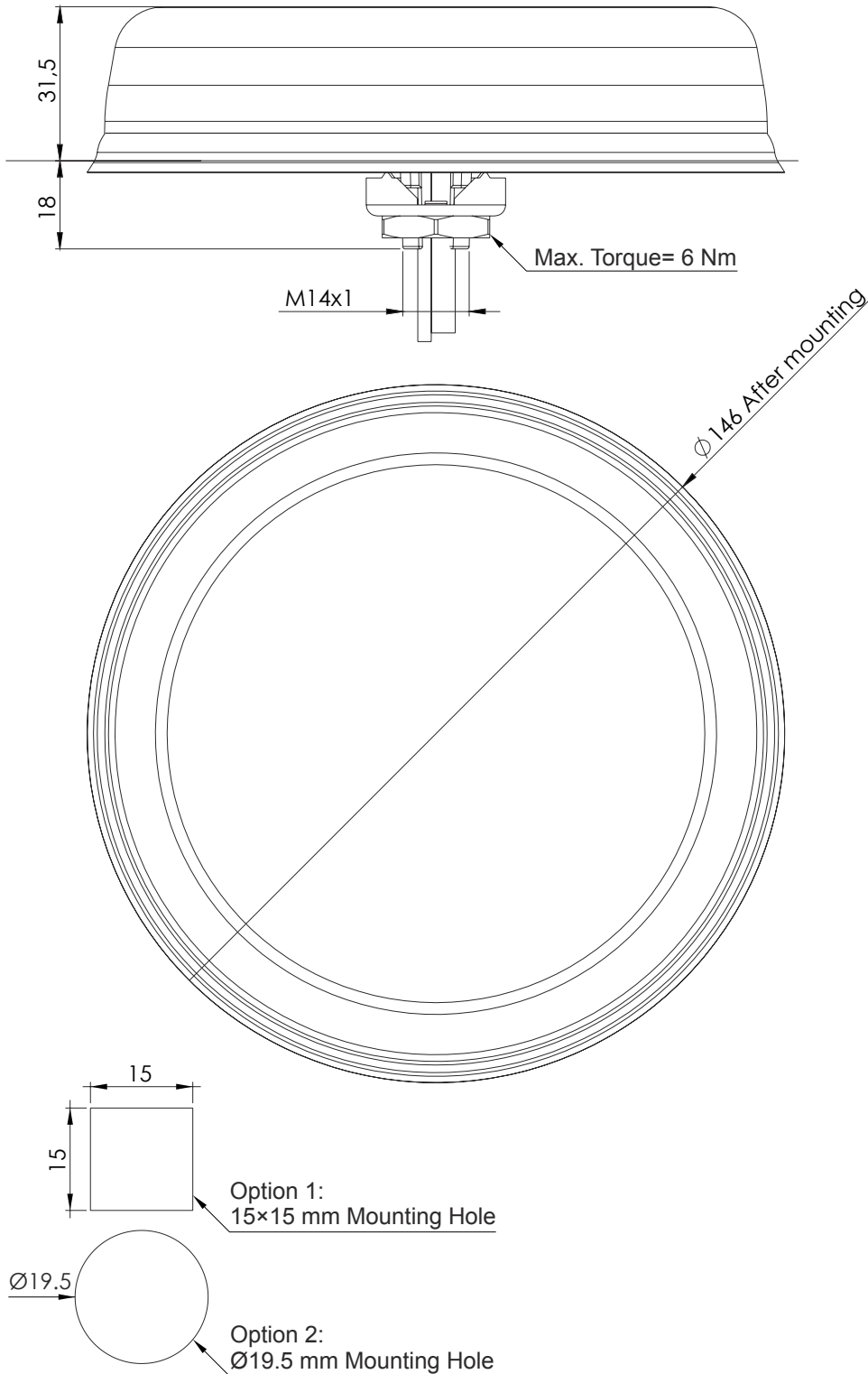


1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern

## 4. Antenna drawings



## 5. Antenna Images

