

## 2J9524JWa

### CELLULAR/LTE MIMO Mast Mount

#### Key Features

Cable 1 and 2: CELLULAR / LTE

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

Mast Mount

High Performance

Ground Plane Independent

Customizable Cable and Connector

Dimensions 280 x 280 x 118 mm

Certificates: IP69 for antenna



## 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>	~-13.3	~-18.5	~-19.5
<b>VSWR</b>	~1.7:1	~1.3:1	~1.3:1
<b>Efficiency (%)</b>	~72	~71	~72
<b>Peak Gain (dBi)</b>	~3.5	~4.6	~3.9
<b>Average Gain (dB)</b>	~-1.4	~-1.5	~-1.5
<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>	Most RF Connectors (SMA-Male Standard)		
<b>Cable Length</b>	Any Cable Length (300 cm Standard)		
<b>Cable Type</b>	Other Cables Available (LMR195 Standard)		

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>	~-13.0	~-19.2	~-20.9
<b>VSWR</b>	~1.7:1	~1.3:1	~1.2:1
<b>Efficiency (%)</b>	~74	~72	~70
<b>Peak Gain (dBi)</b>	~3.8	~5.8	~4.0
<b>Average Gain (dB)</b>	~-1.3	~-1.4	~-1.6
<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>	Most RF Connectors (SMA-Male Standard)		
<b>Cable Length</b>	Any Cable Length (300 cm Standard)		
<b>Cable Type</b>	Other Cables Available (LMR195 Standard)		

**Antenna Measurement Conditions:**

Free Space

200 cm of LMR195 Cable

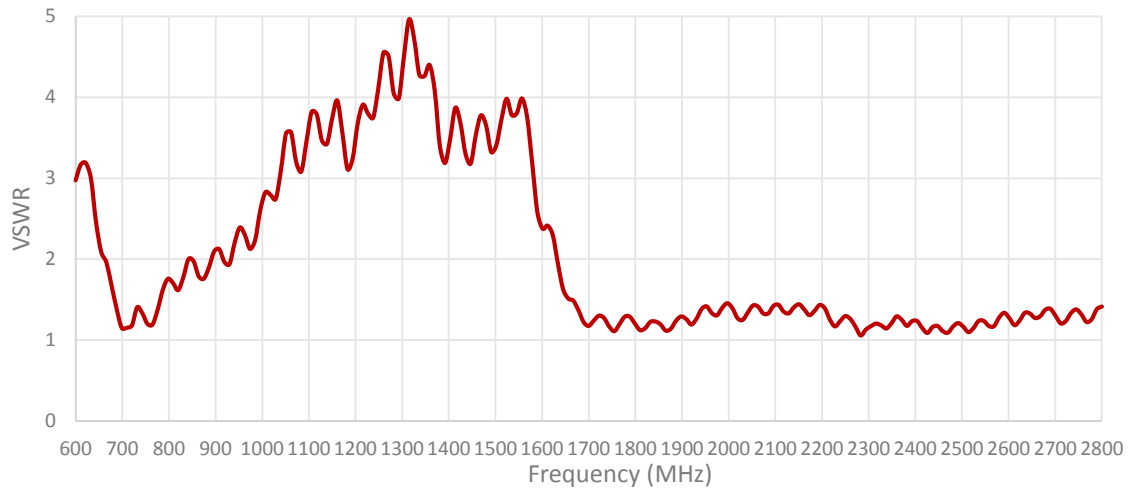
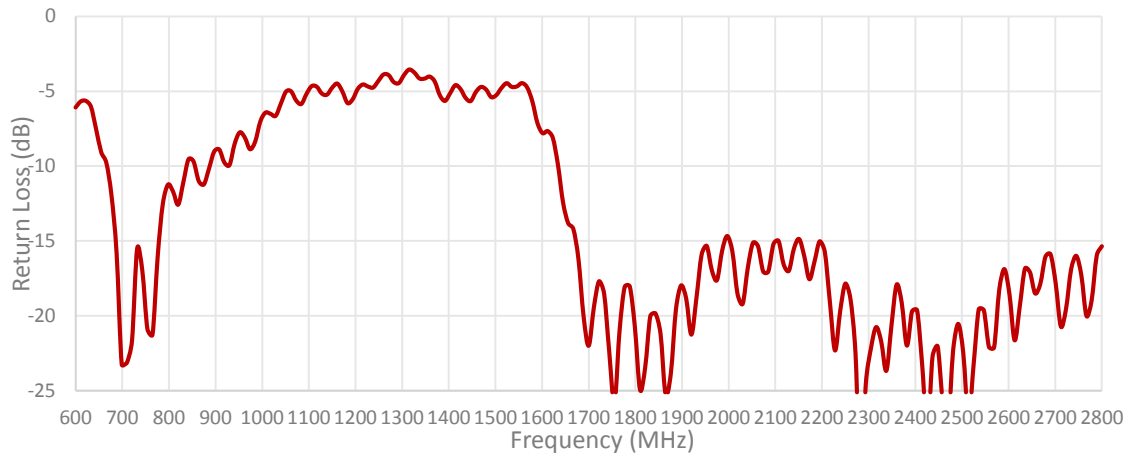
Measured in Certified CTIA 3D Anechoic Chamber

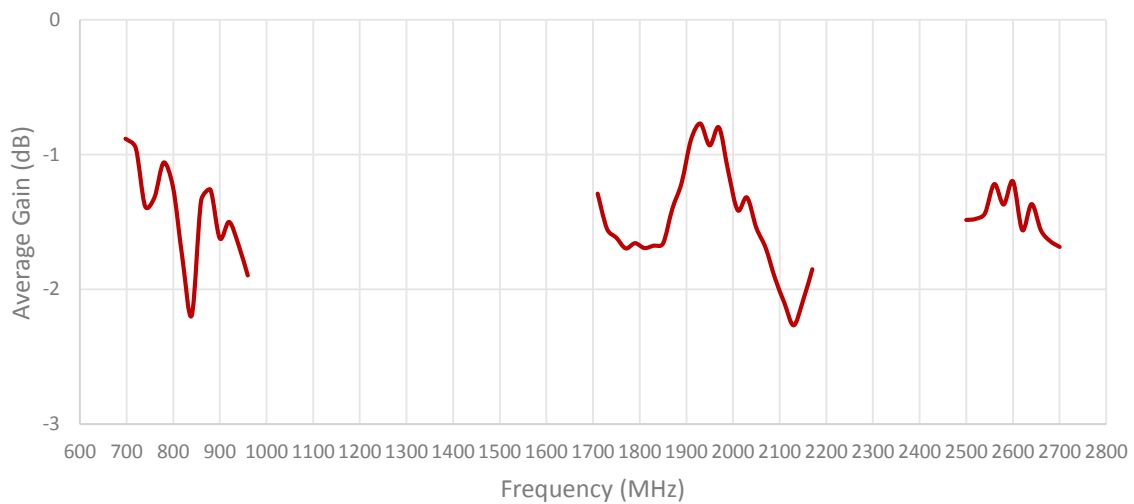
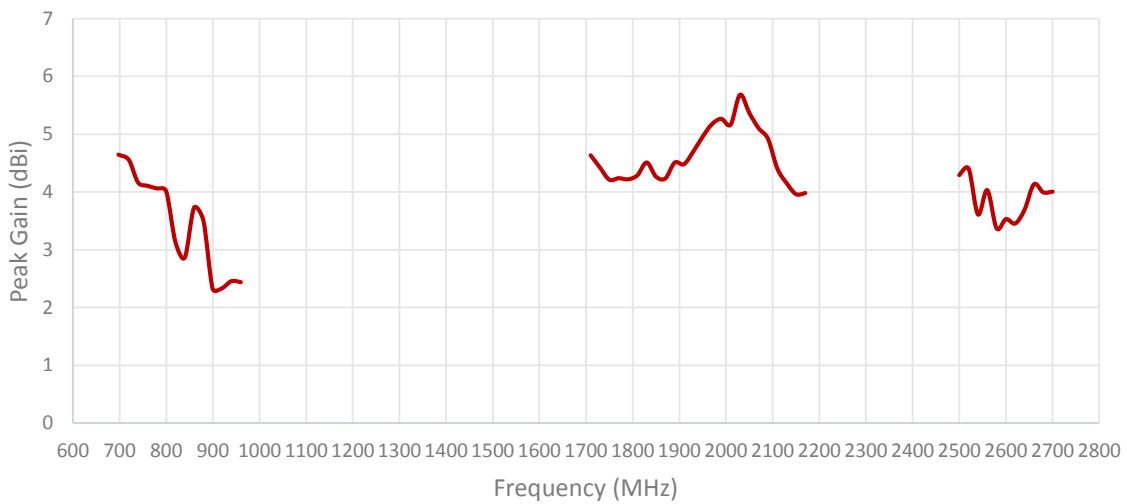
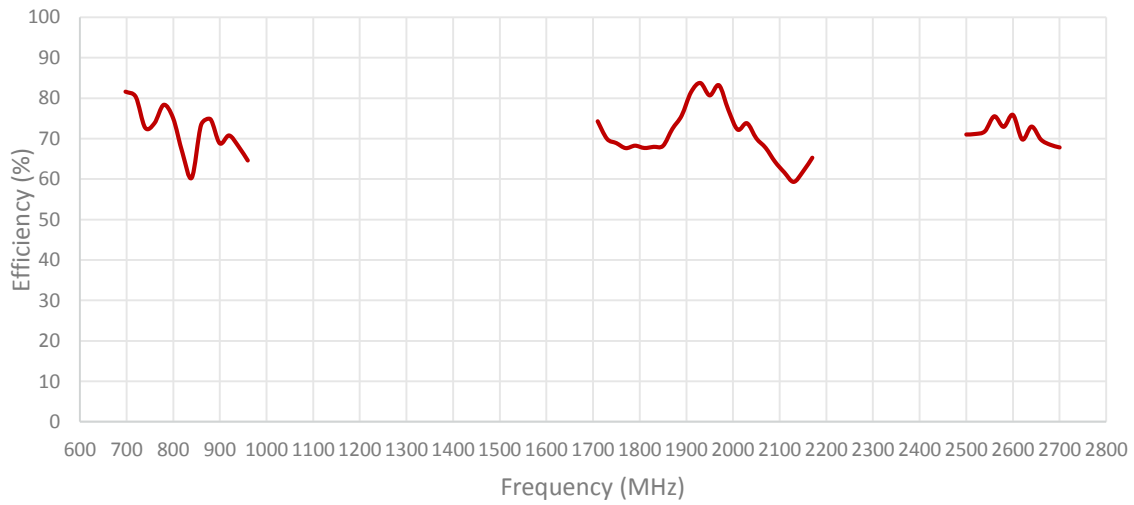
## 2. Mechanical and environmental specifications

Specifications	2J9524JWa
<b>Mounting Type</b>	Mast Mount Ø36, Ø25 / 1-14 UNF with included adaptors
<b>Dimensions (mm)</b>	280 x 280 x 118
<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>	IP69 for antenna

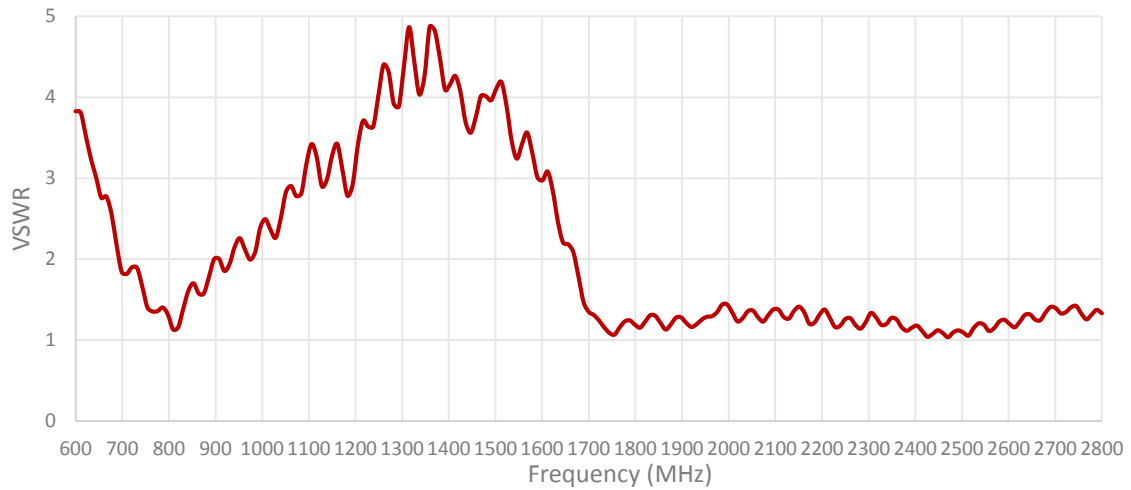
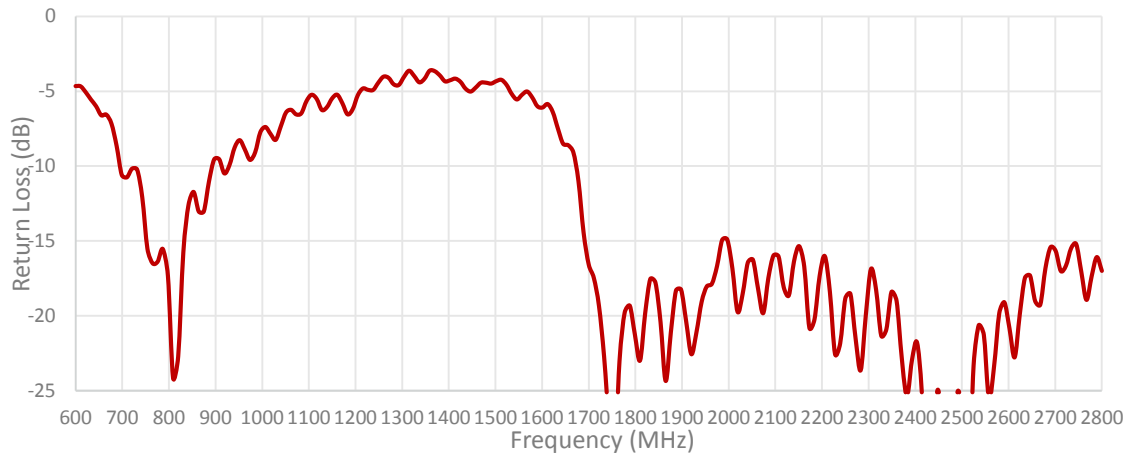
### 3. Antenna parameters

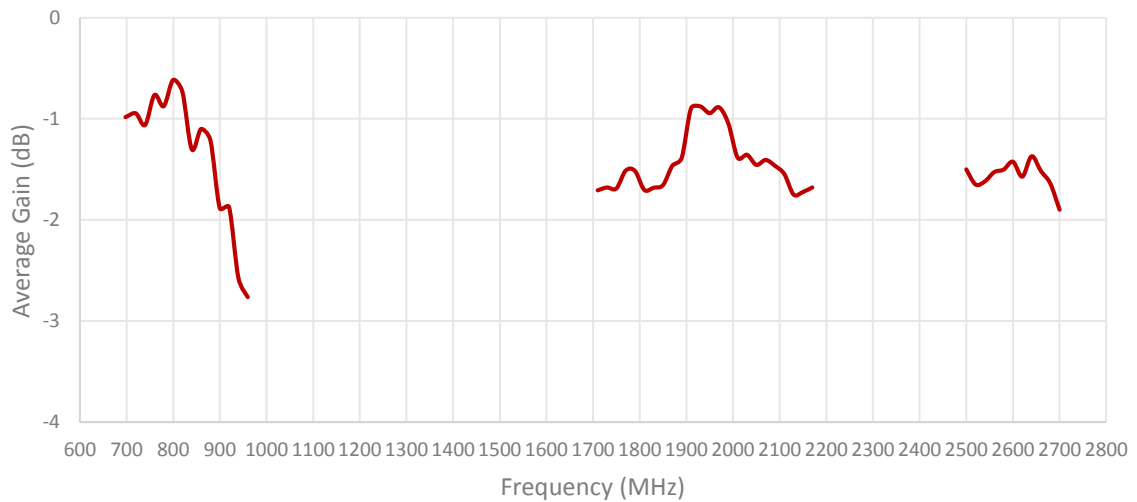
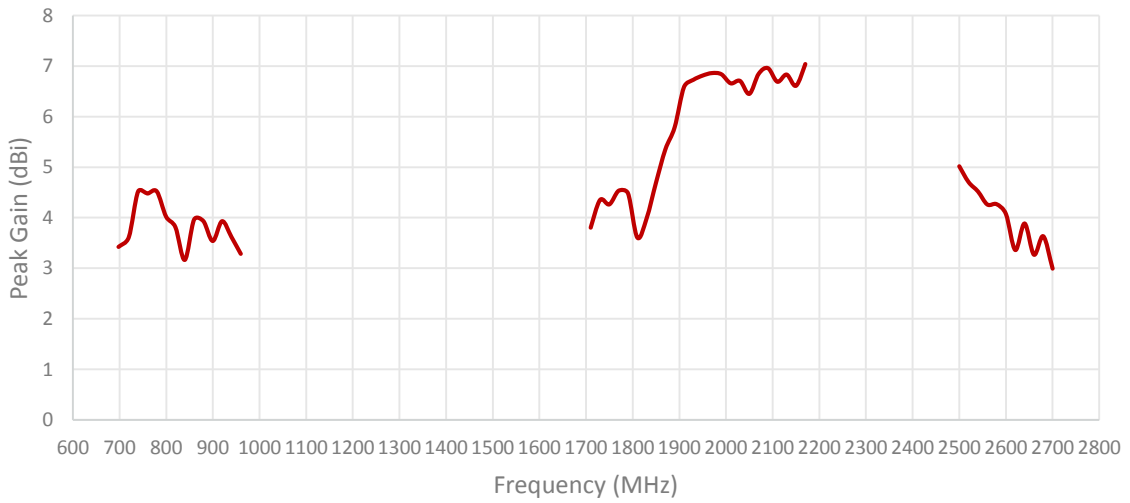
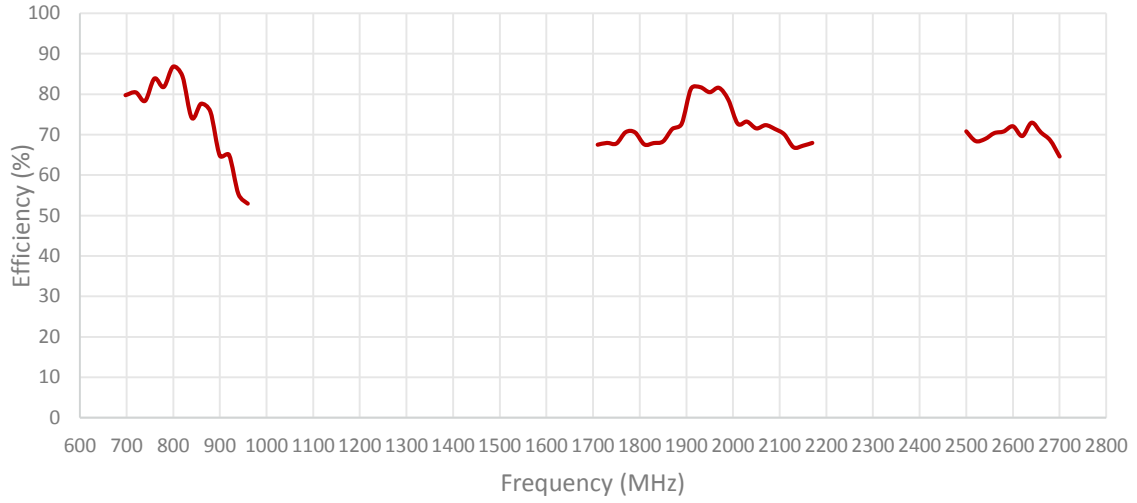
Cable 1: CELLULAR/LTE



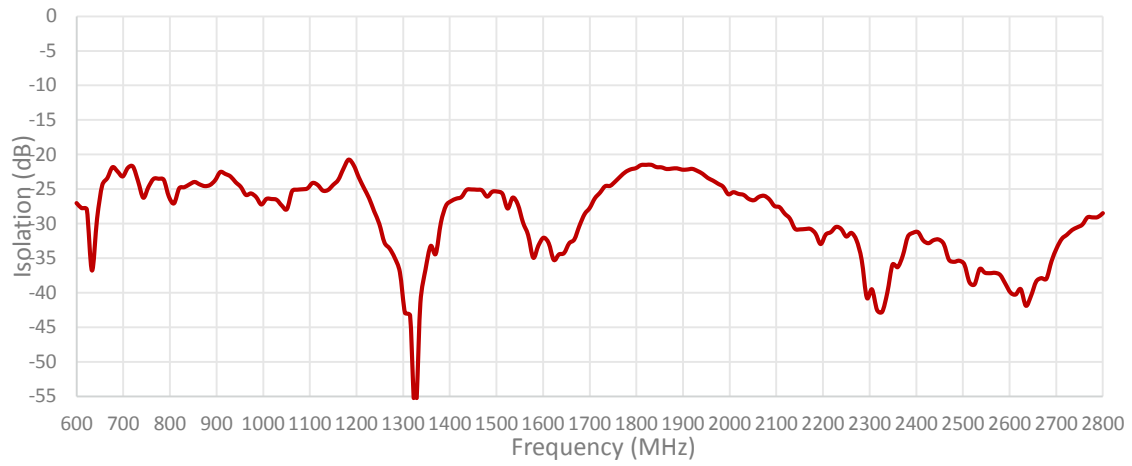


**Table 2: CELLULAR/LTE**

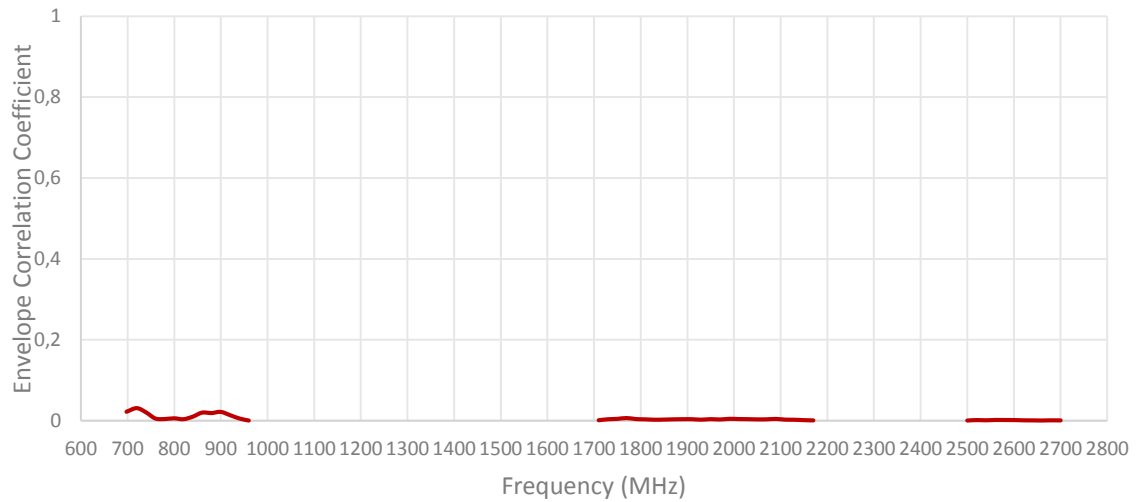




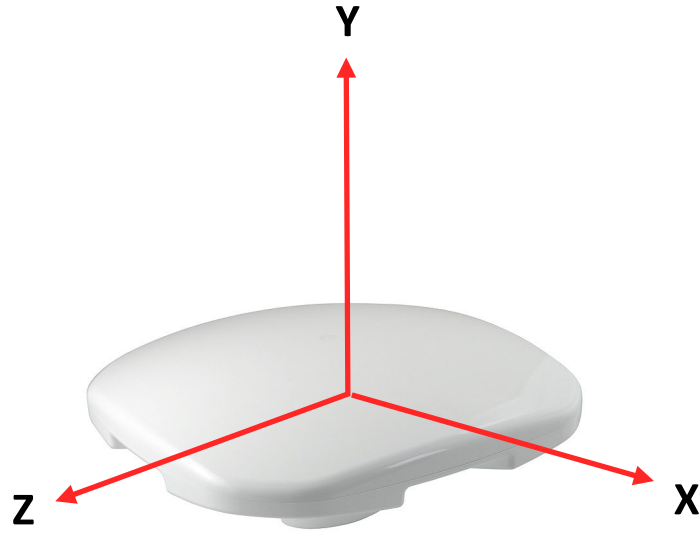
**ISOLATION FOR CABLES 1 AND 2**



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

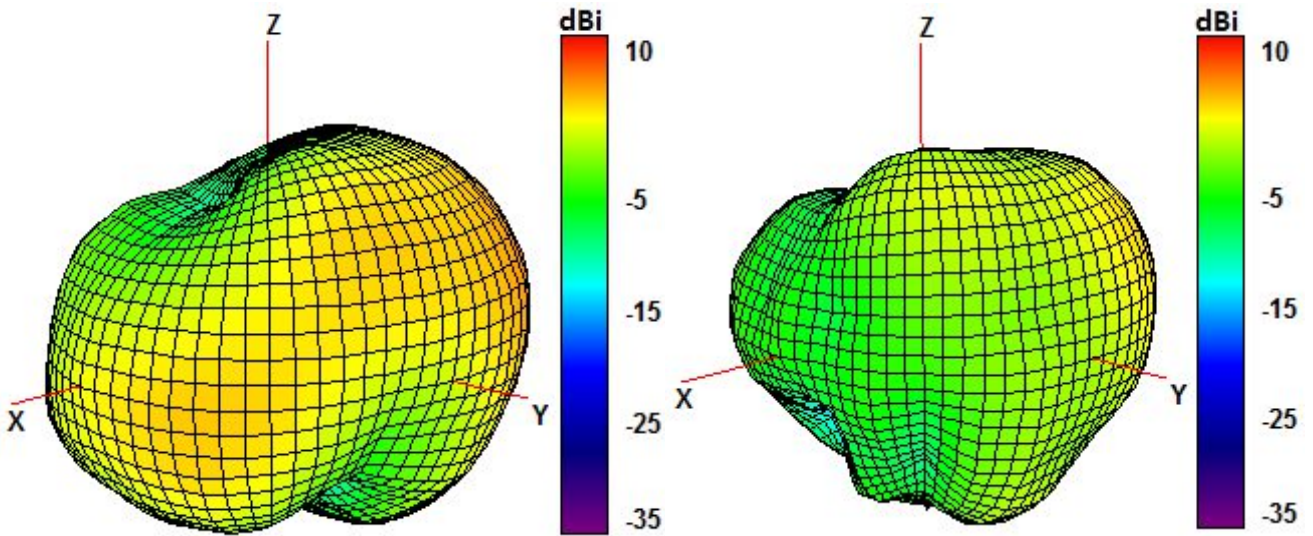




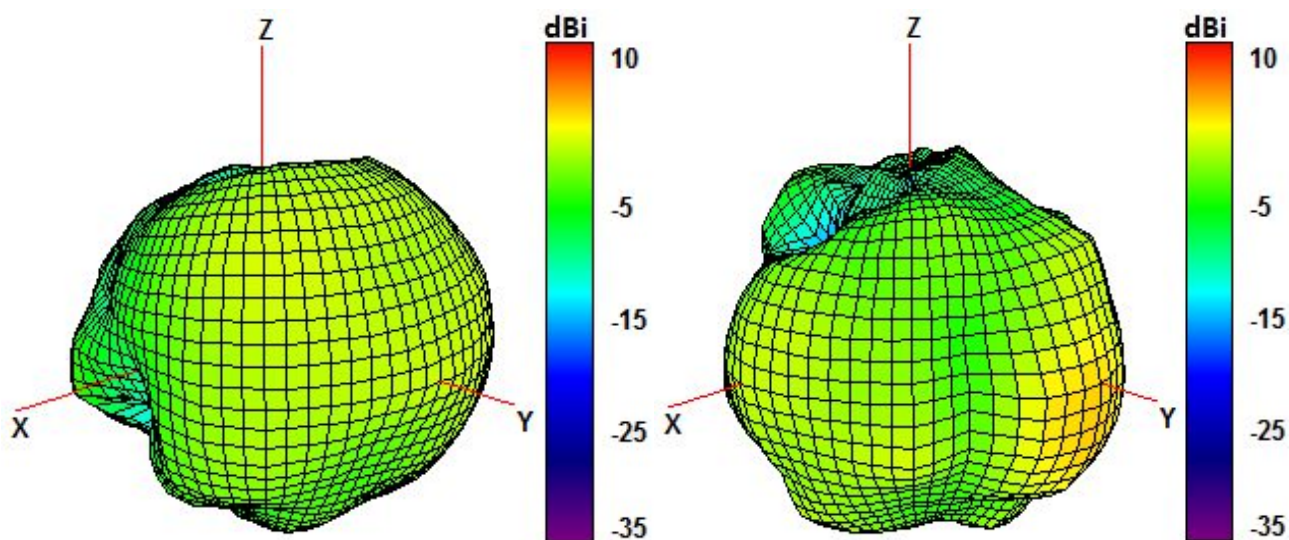


Radiation pattern reference

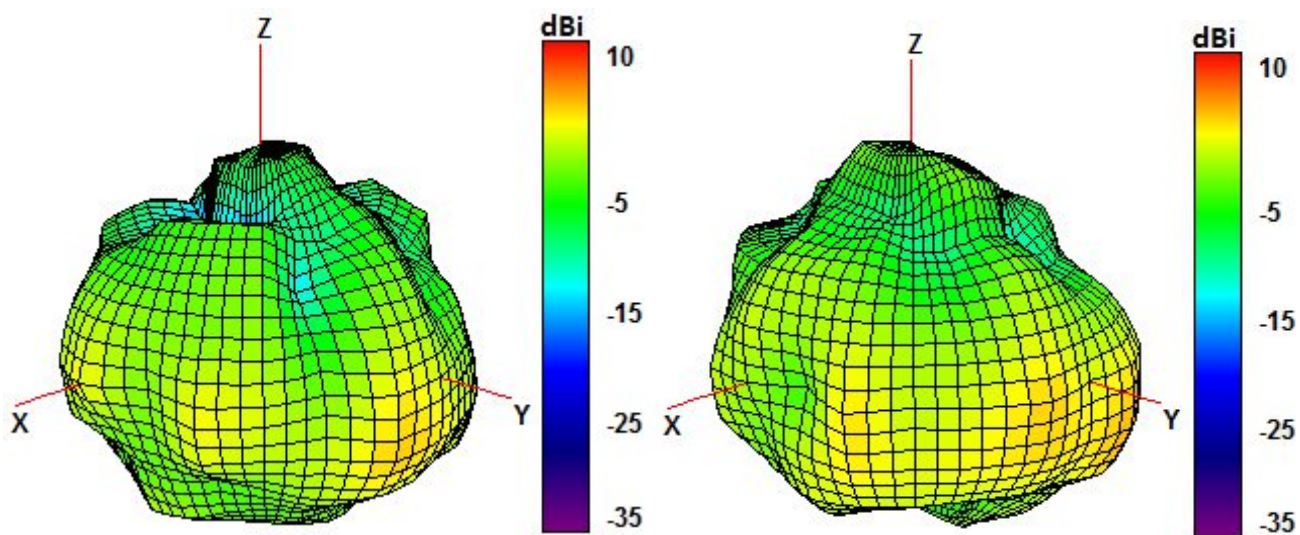
Cable 1: CELLULAR/LTE



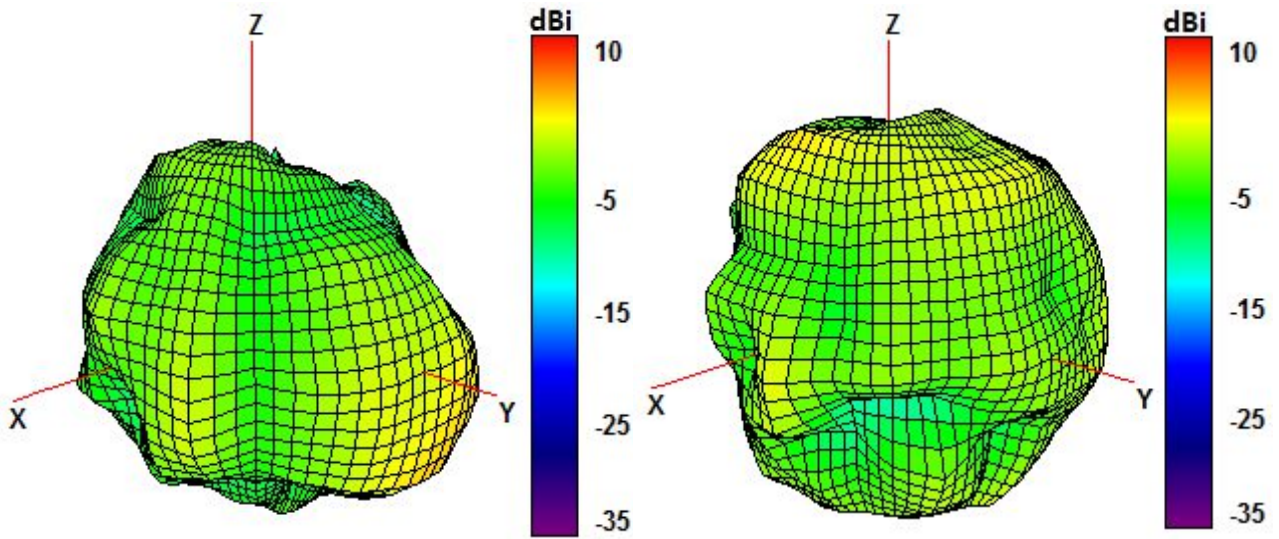
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

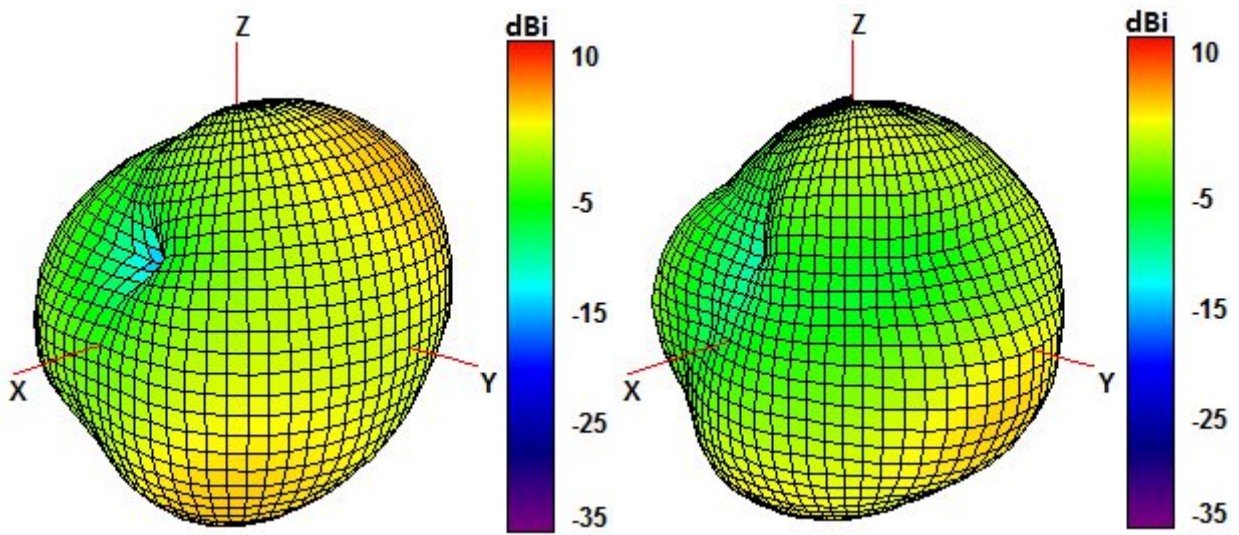


1850 and 1950 MHz Radiation pattern



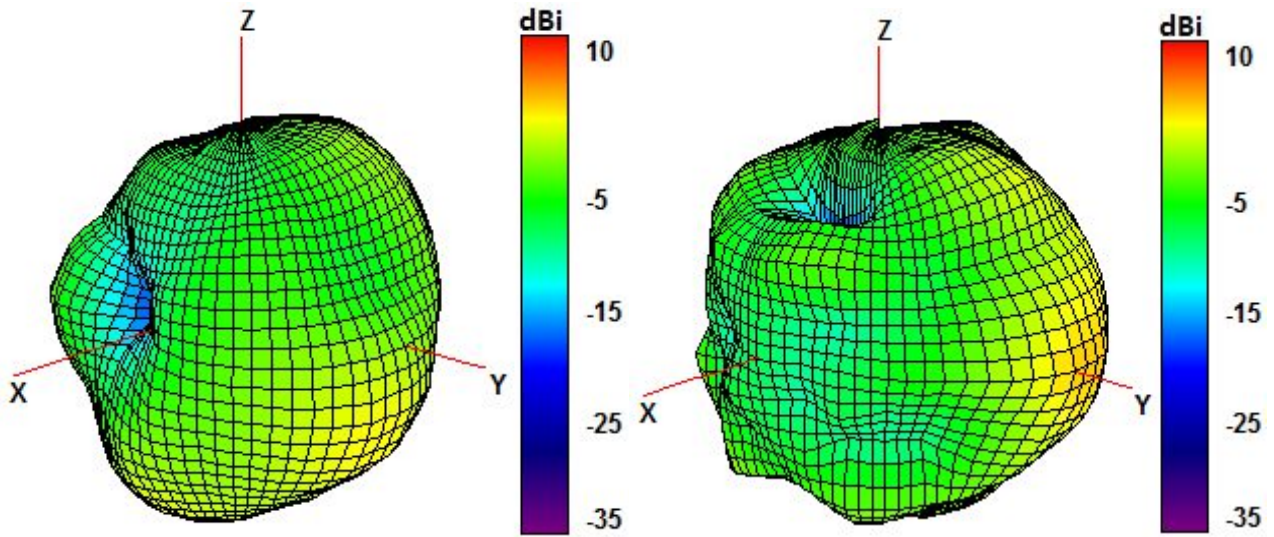
2100 and 2600 MHz Radiation pattern

Cable 2: CELLULAR/LTE

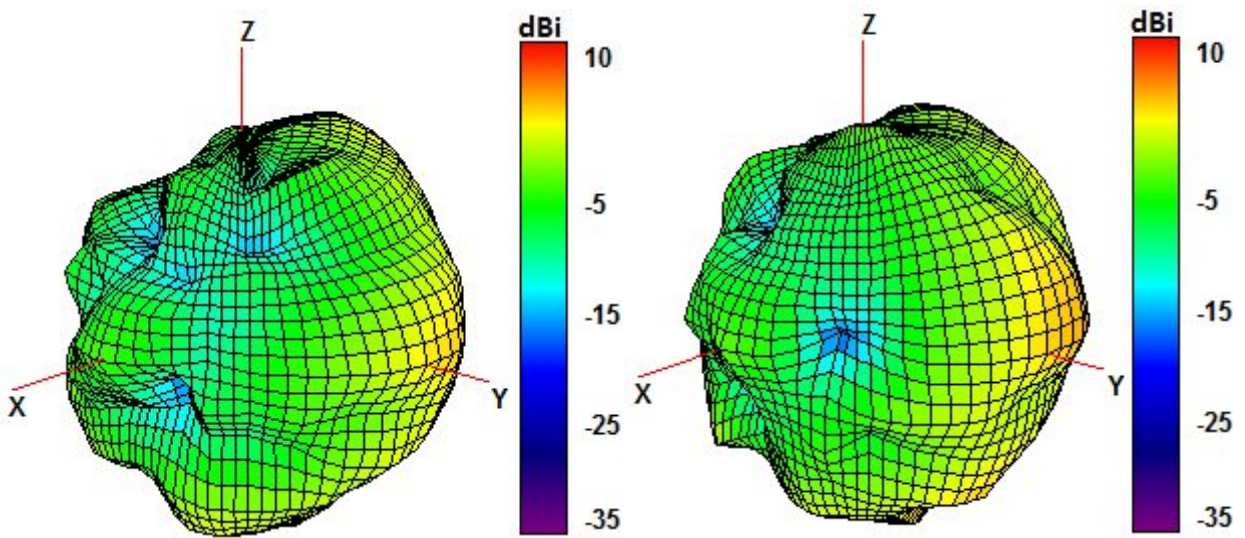


750 and 850 MHz Radiation pattern

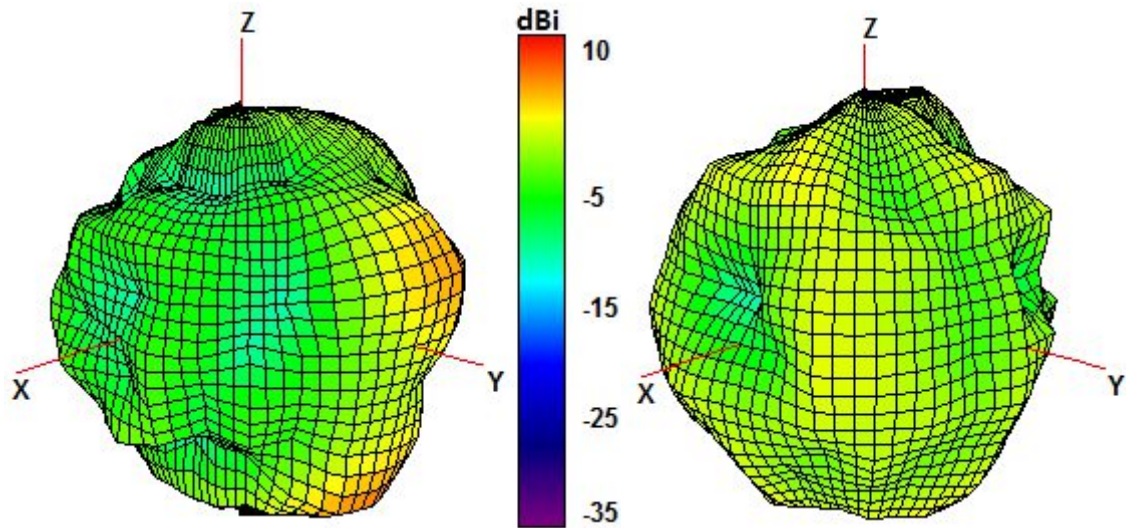




940 and 1750 MHz Radiation pattern

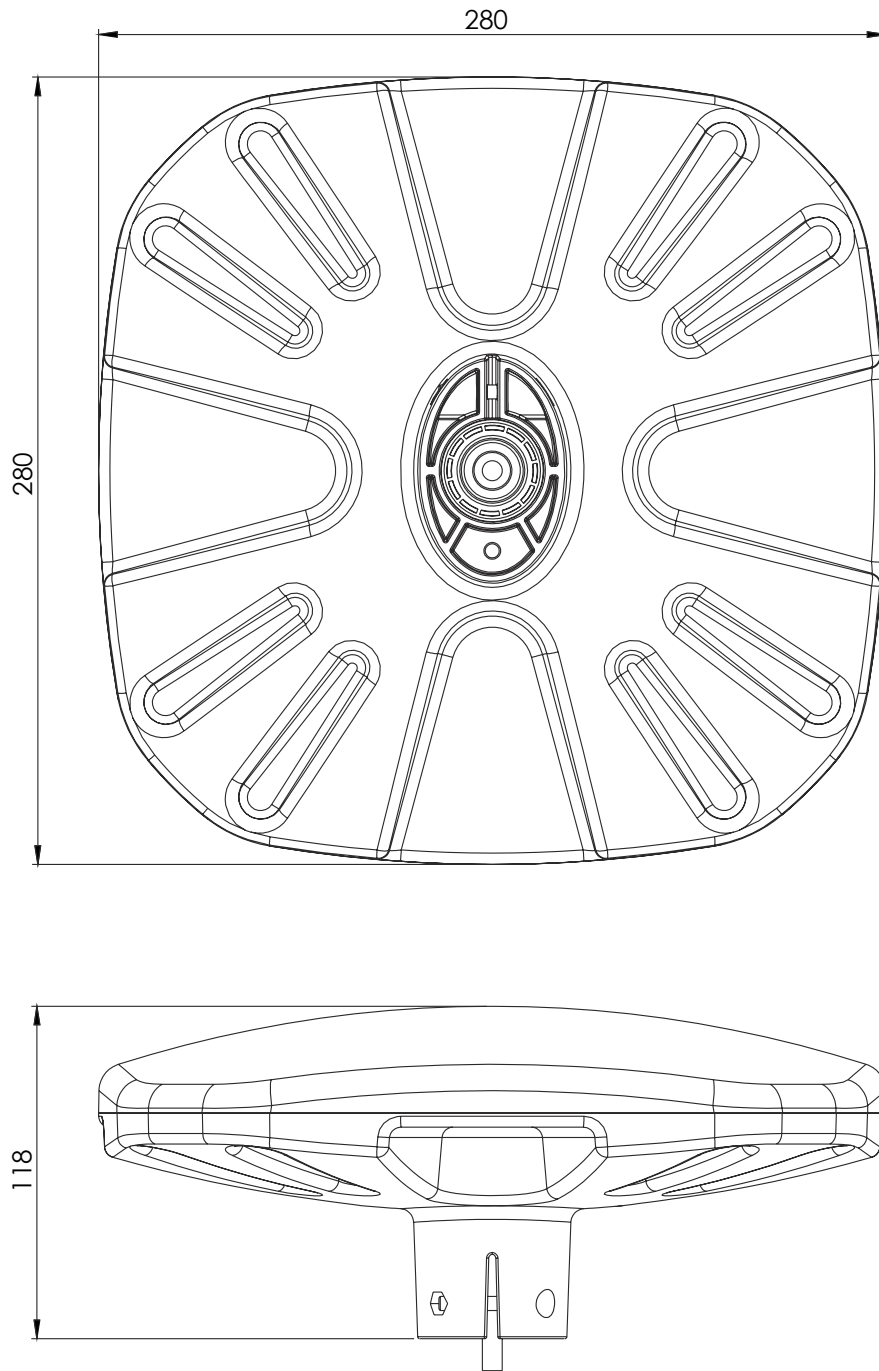


1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern

#### 4. Antenna drawings



## 5. Antenna Images

