

BB-2J6A24BA-150

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

IP67, IK09, IP69K

Dimensions Ø 77.3 x 65.5 mm



1. Antenna and electrical specifications

Cable 1

Parameters	CELLULAR / LTE Antenna		
Standards	2G,3G and 4G		
Band (MHz)	700/850/900	1700/1800/1900/2100	2600
Frequency (MHz)	698-960	1710-2170	2500-2700
Return Loss (dB)	~-7.1	~-12.2	~-18.5
VSWR	~2.8:1	~1.7:1	~1.3:1
Efficiency (%)	~35	~51	~49
Peak Gain (dBi)	~-0.8	~2.5	~3.4
Average Gain (dB)	~-4.6	~-2.9	~-3.1
Impedance (Ohm)	50		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power (W)	25		
Connector Type	SMA-Male Standard		
Cable Length	150 cm Standard		
Cable Type	Dacar302		

Cable 2

Parameters	CELLULAR / LTE Antenna		
Standards	2G,3G and 4G		
Band (MHz)	700/850/900	1700/1800/1900/2100	2600
Frequency (MHz)	698-960	1710-2170	2500-2700
Return Loss (dB)	~-6.8	~-15.8	~-10.8
VSWR	~2.9:1	~1.4:1	~1.8:1
Efficiency (%)	~34.2	~41.1	~36.7
Peak Gain (dBi)	~-1.0	~1.7	~3.2
Average Gain (dB)	~-4.7	~-3.9	~-4.4
Impedance (Ohm)	50		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power (W)	25		
Connector Type	SMA-Male Standard		
Cable Length	150 cm Standard		
Cable Type	Dacar302		

Antenna Measurement Conditions:

Mounted on 30 x 30 cm Ground Plane

200 cm of Cable DACAR302

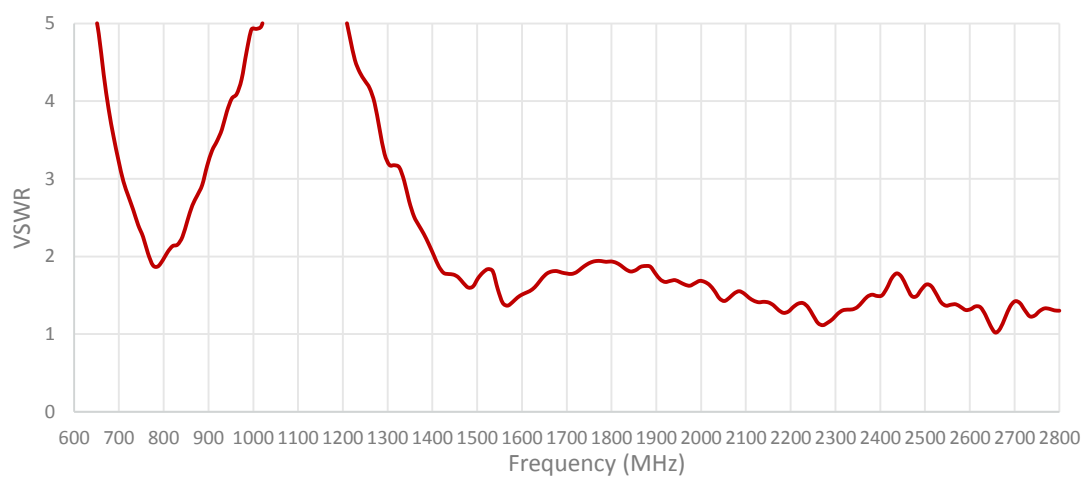
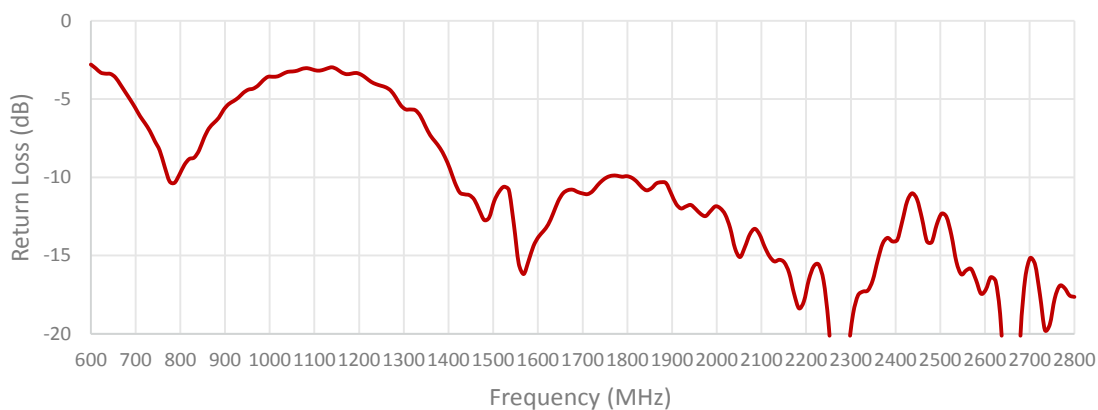
Measured in Certified CTIA 3D Anechoic Chamber

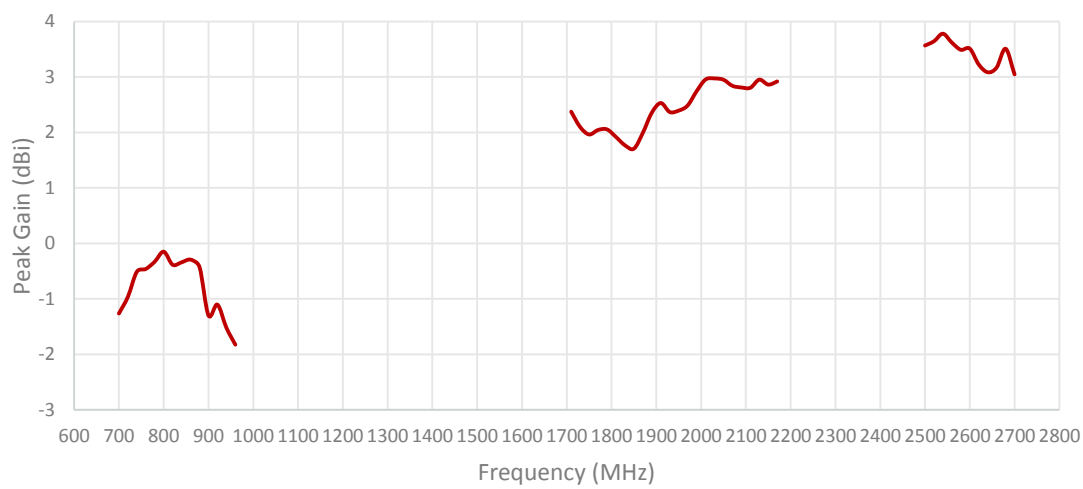
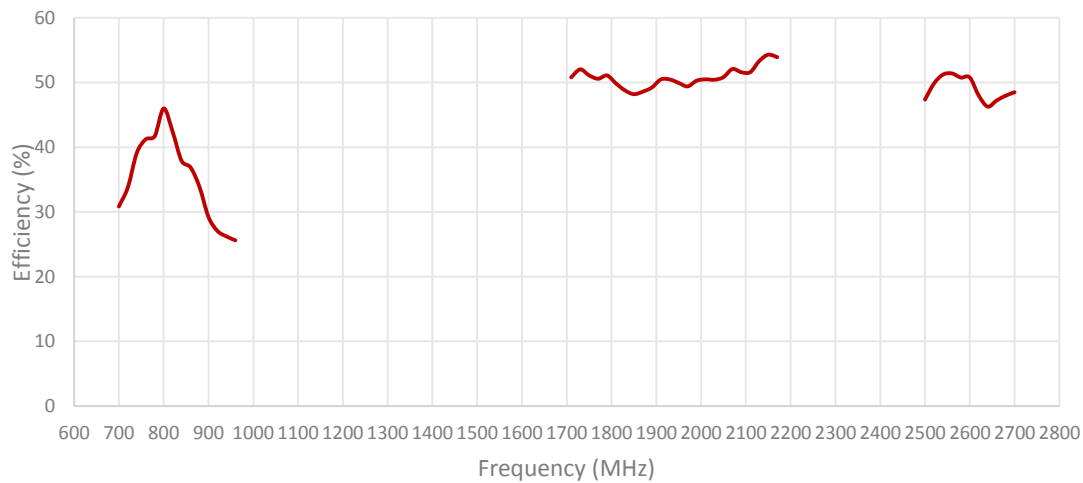
2. Mechanical and environmental specifications

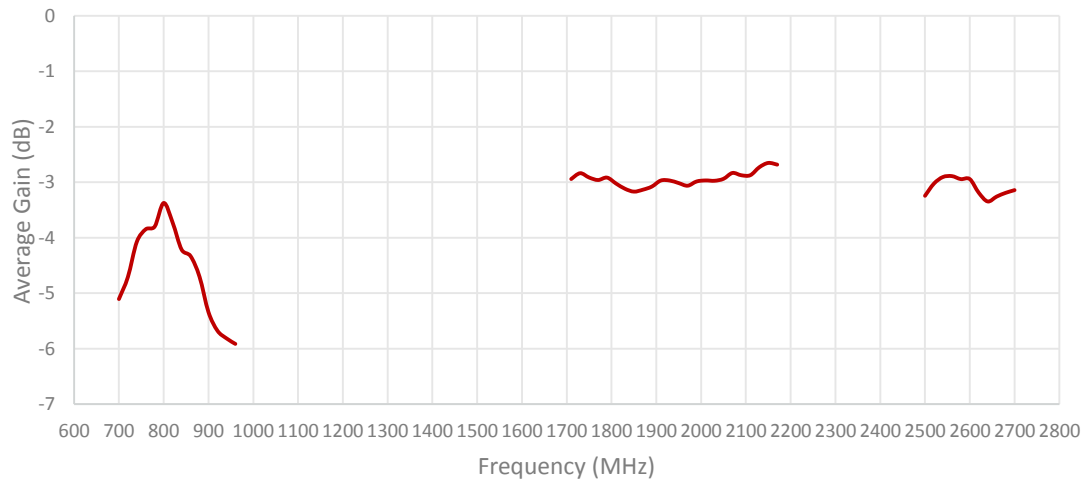
Specifications	BB-2J6A24BA-150
Mounting Type	Screw Mount
Dimensions (mm)	Ø 77.3 x 65.5
Radome	ASA
Radome color	Black
Antenna Base	Zamak
Gasket	TPE
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67, IK09, IP69K

3. Antenna parameters

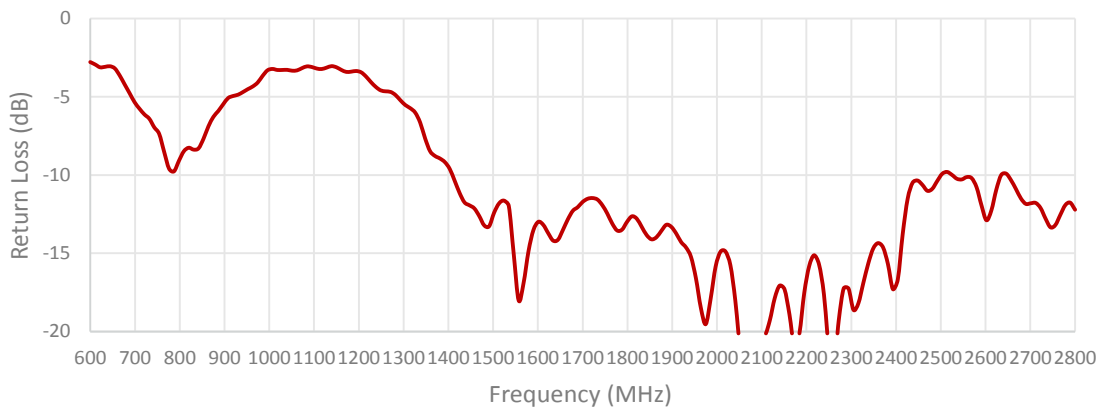
Cable 1: CELLULAR / LTE

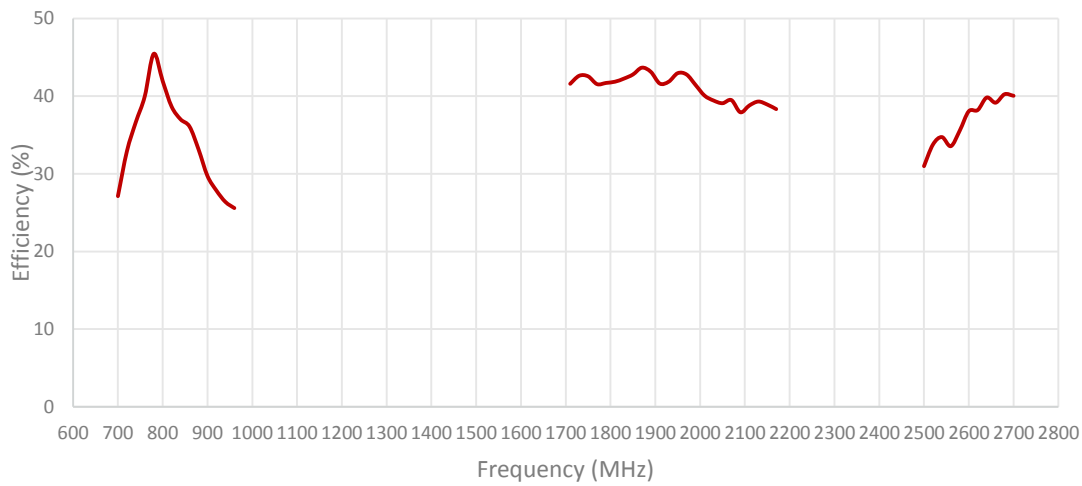
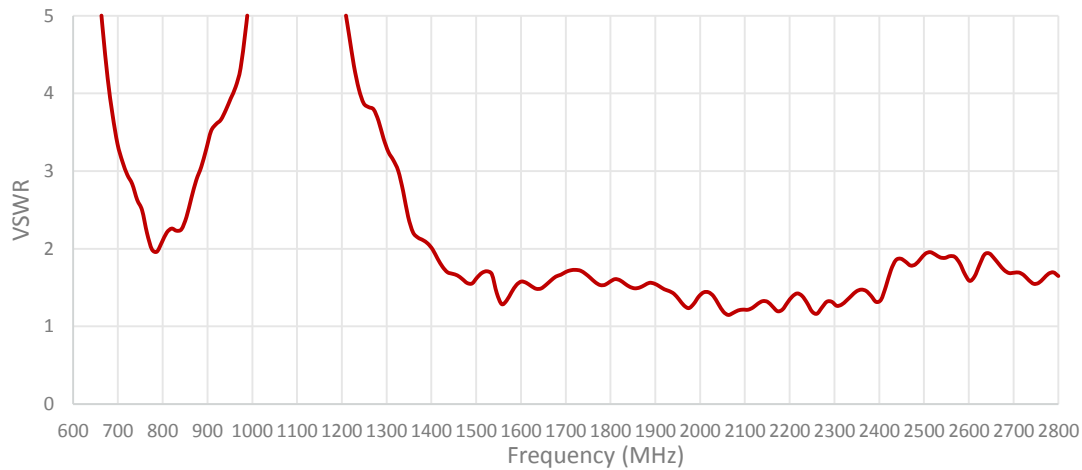


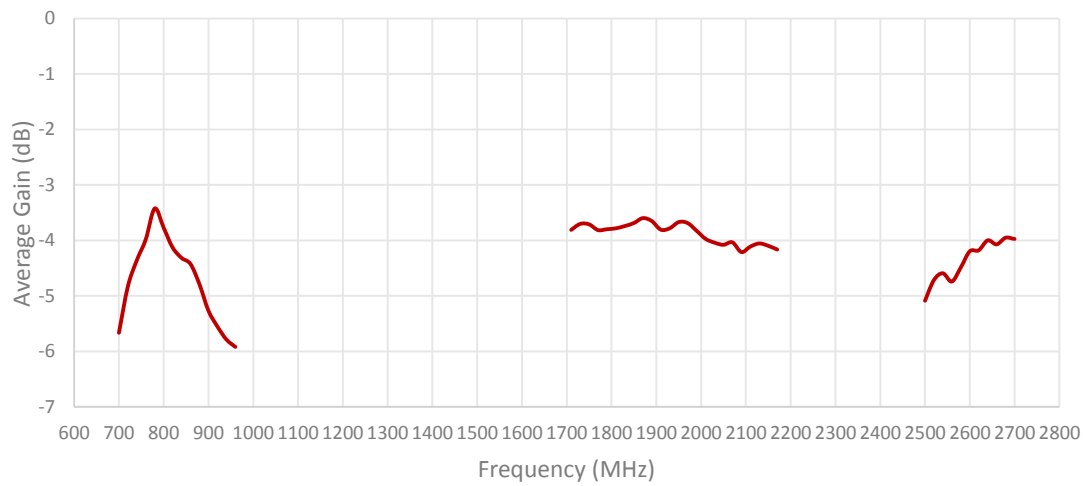
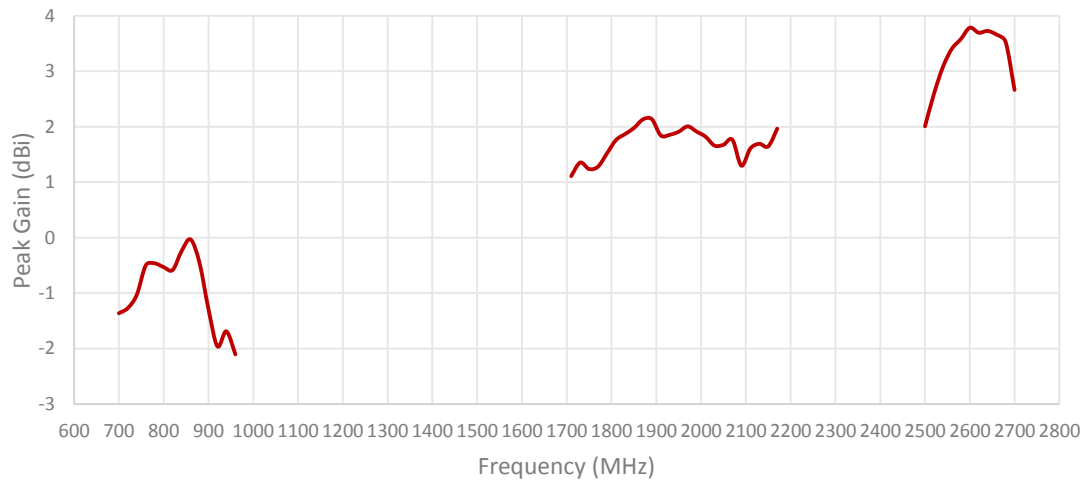




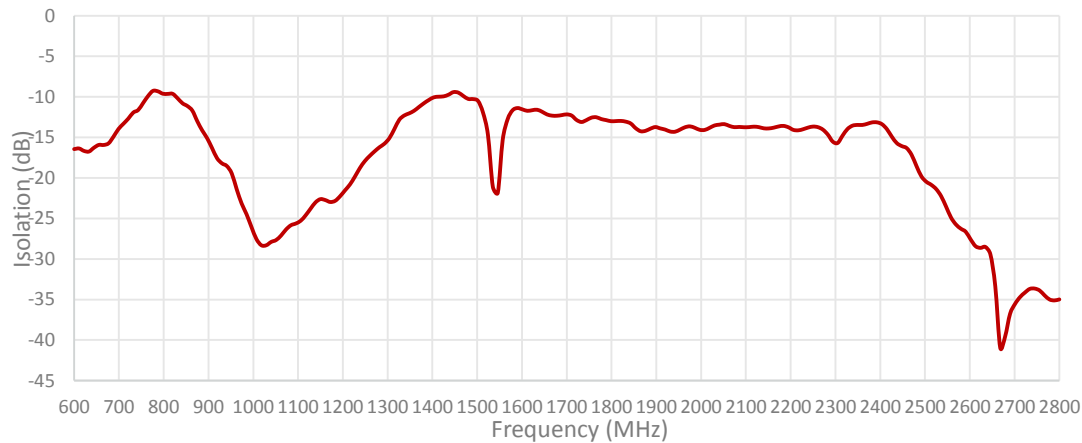
Cable 2: CELLULAR / LTE



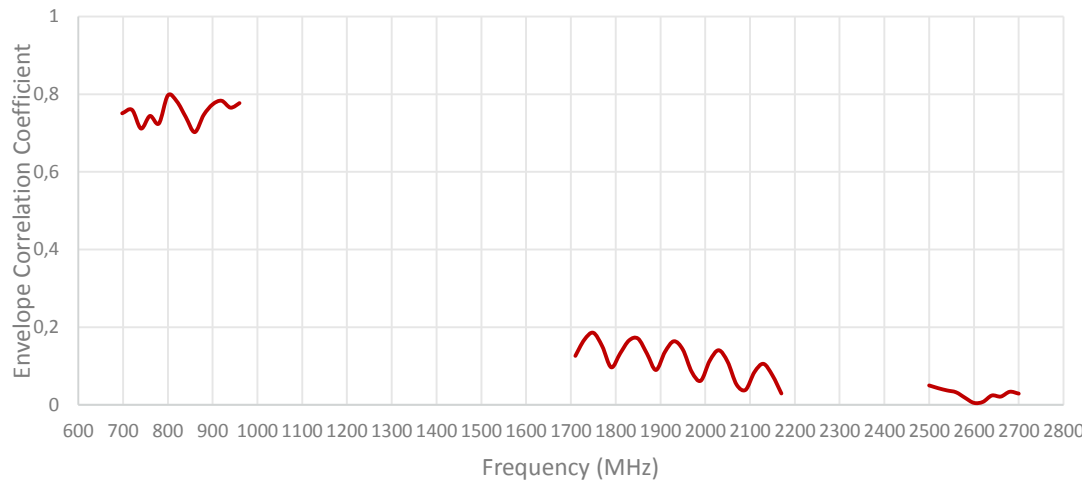


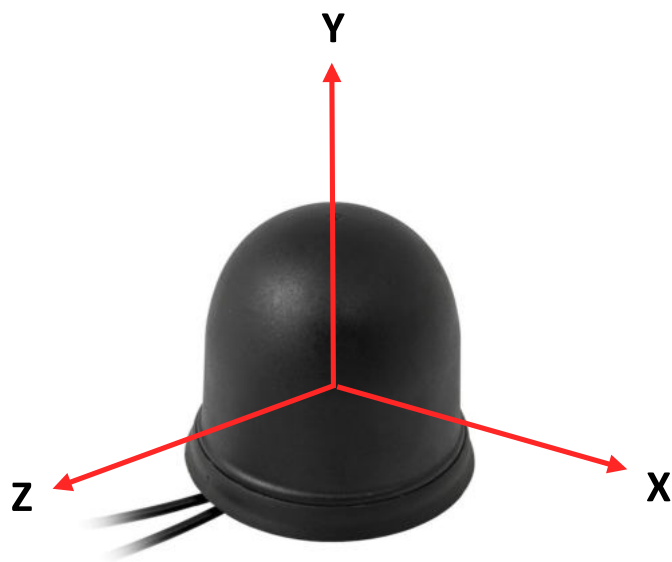


ISOLATION FOR CABLE 1 AND 2



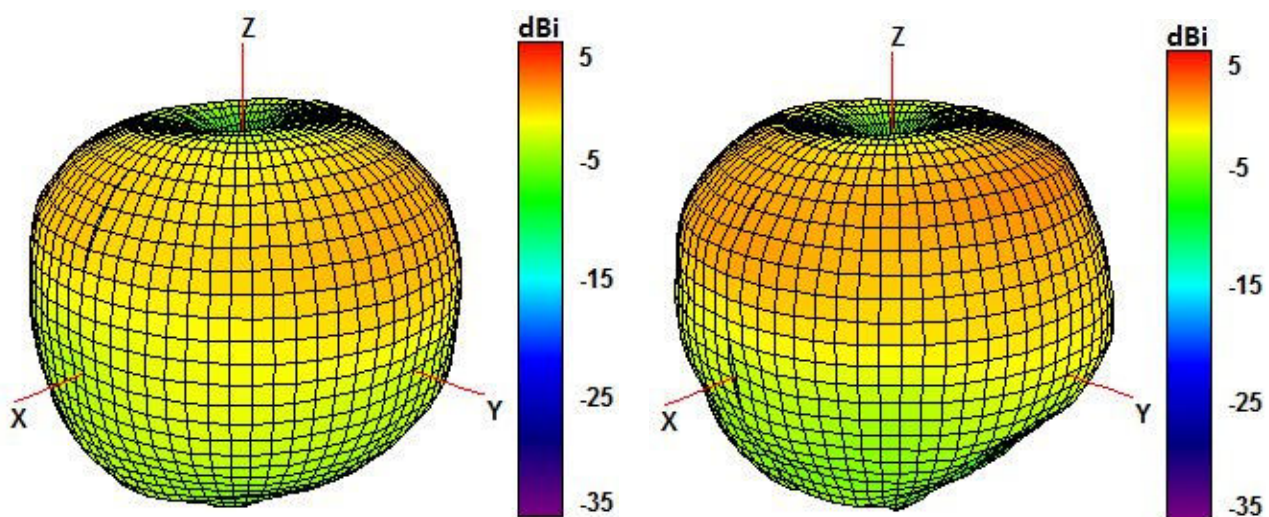
ENVELOPE CORRELATION COEFFICIENT FOR CABLE 1 AND 2



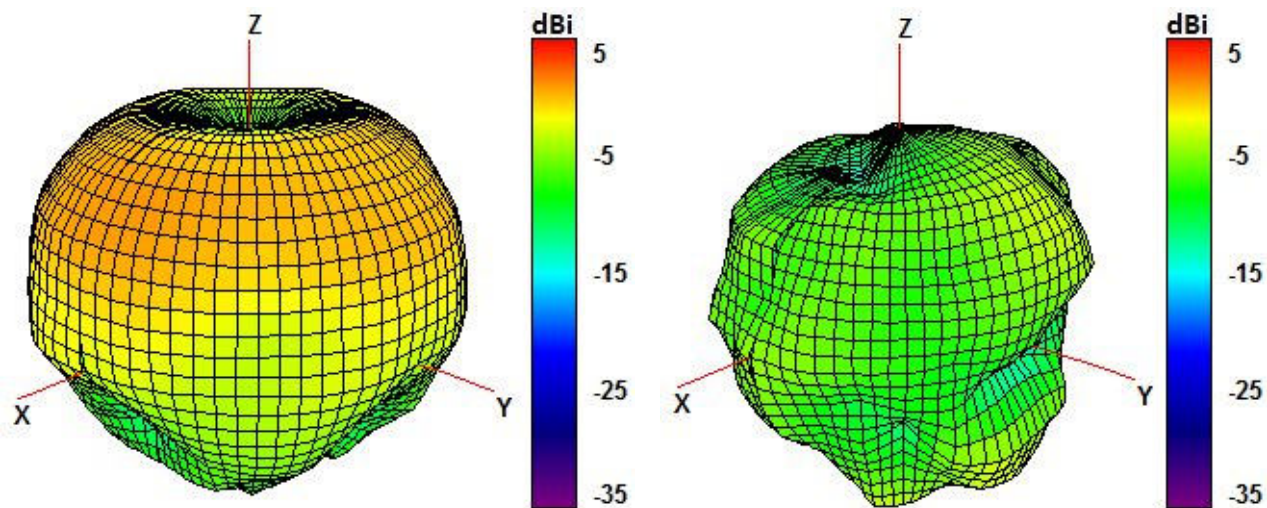


Radiation pattern reference

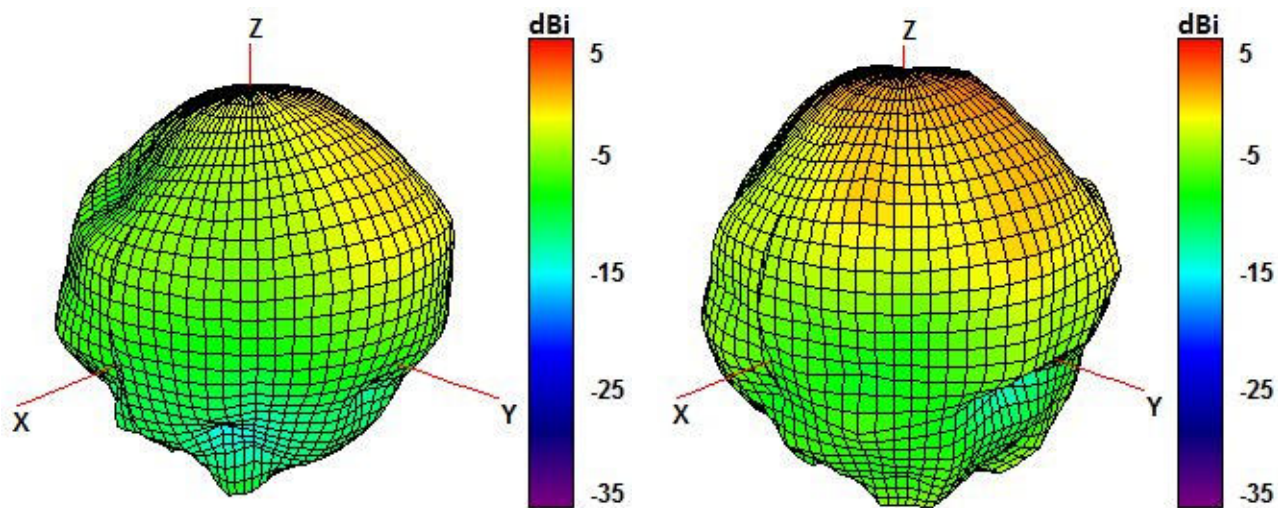
Cable 1: CELLULAR / LTE



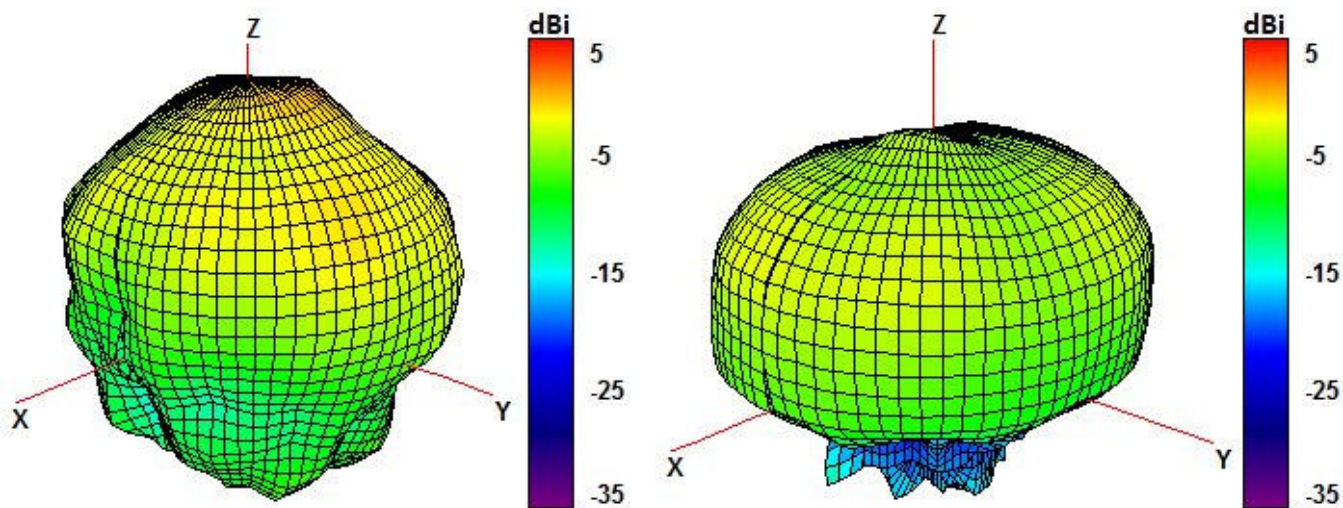
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

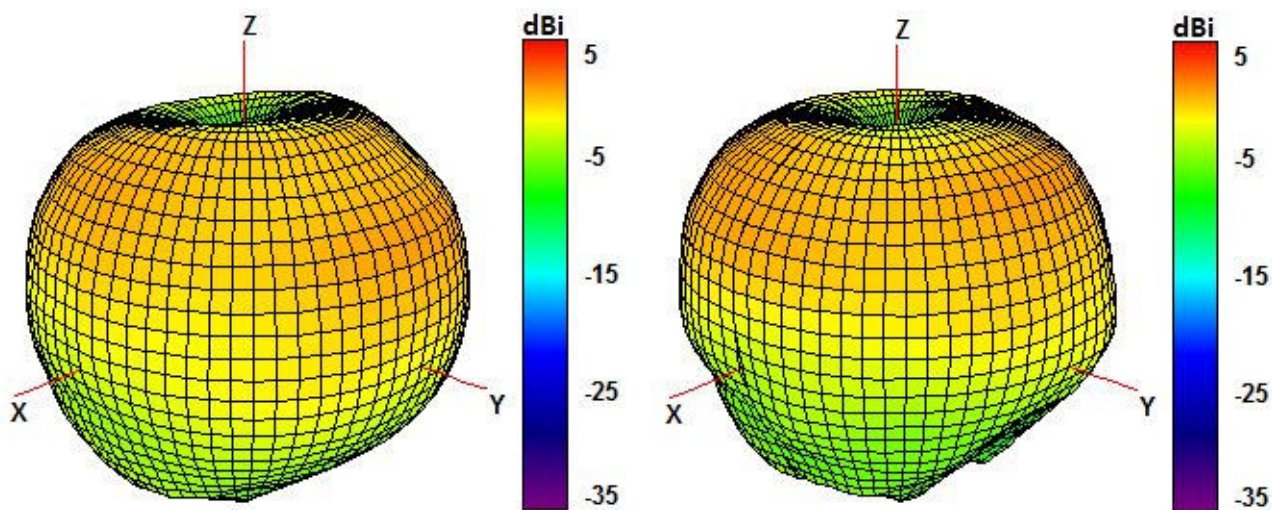


1850 and 1950 MHz Radiation pattern

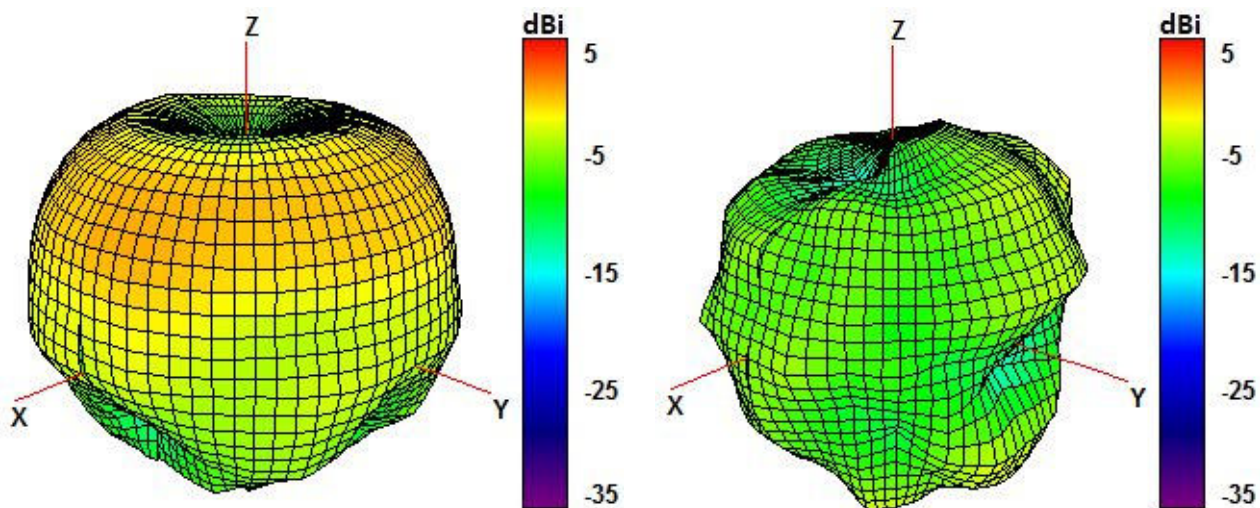


2100 and 2600 MHz Radiation pattern

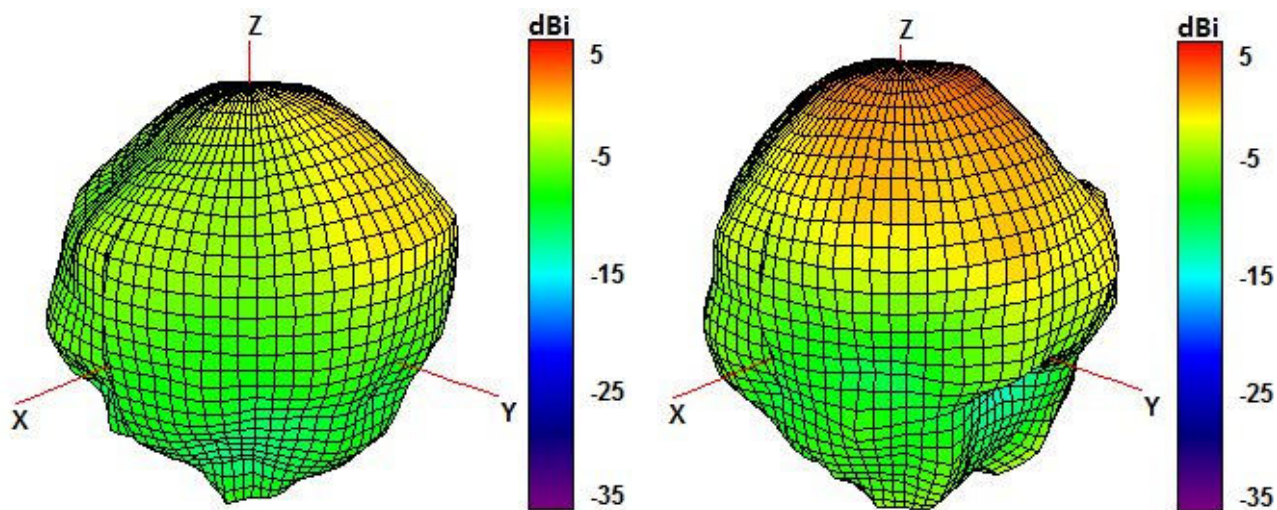
Cable 2: CELLULAR / LTE



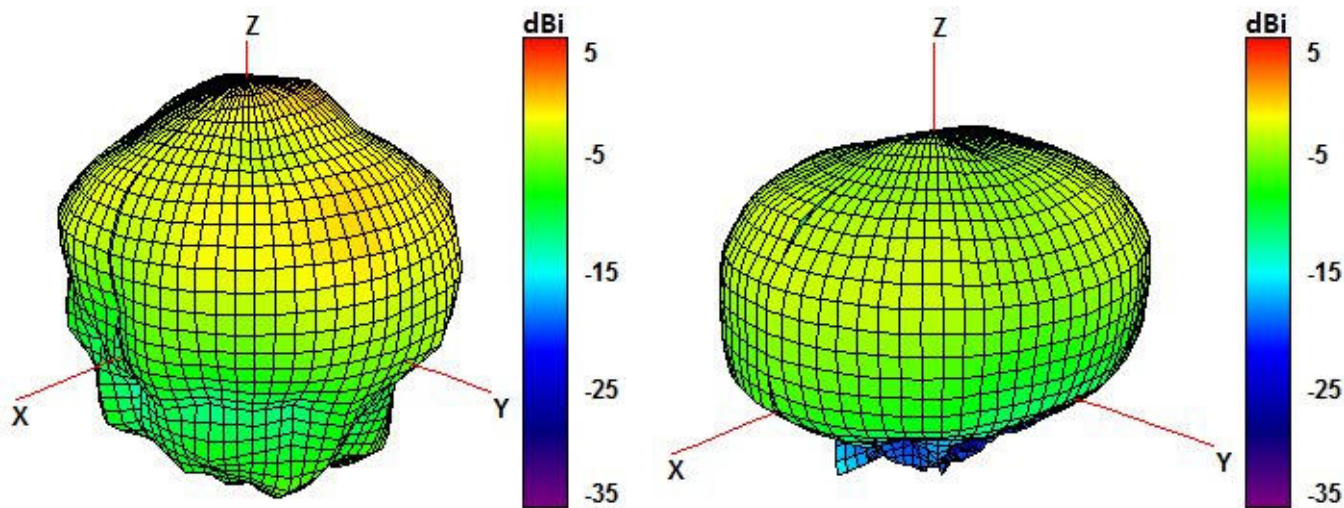
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

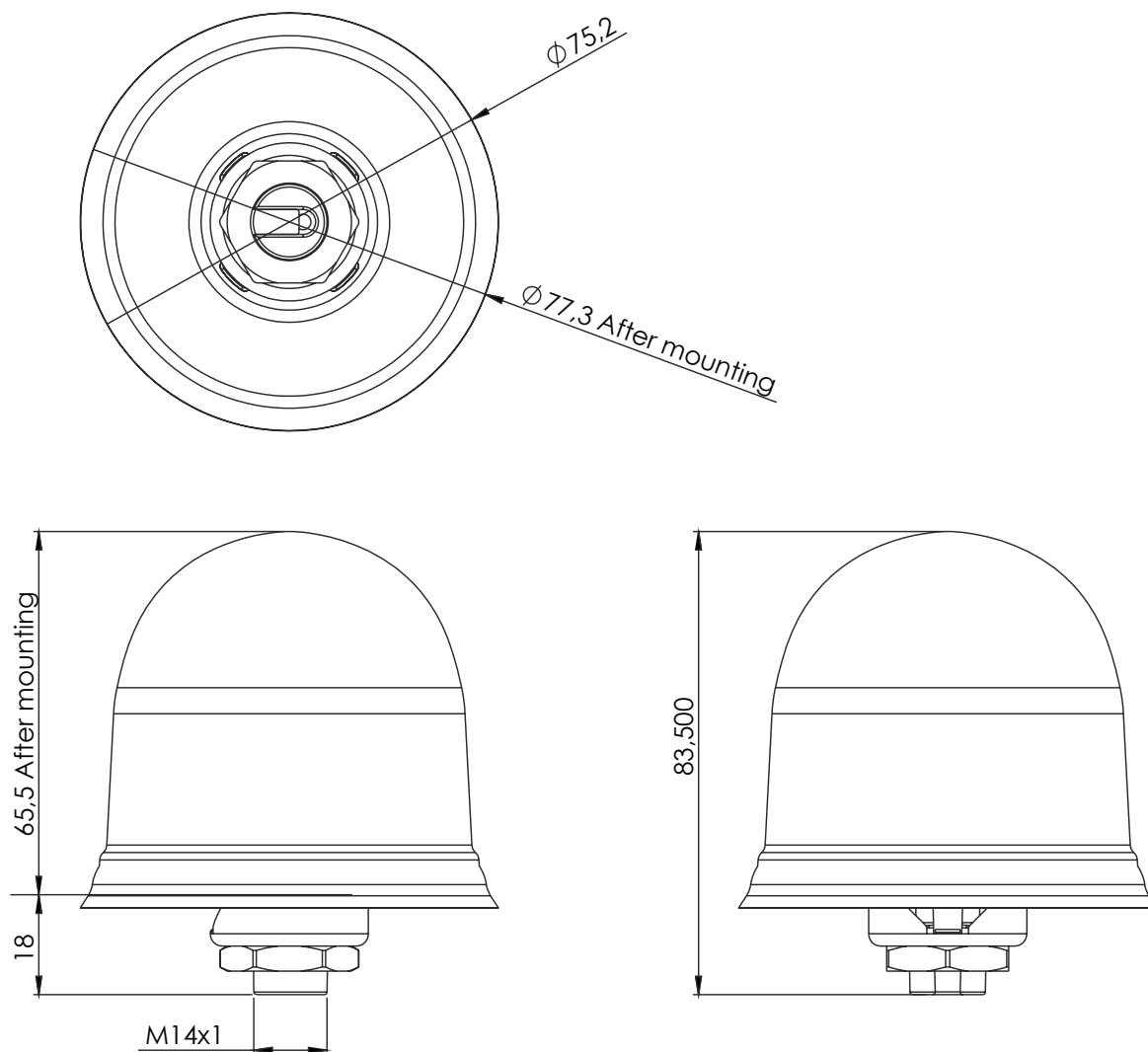


1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images

