

2J6A47B

CELLULAR/LTE and 2.4/5.0 GHz ISM Screw Mount

Key Features

Cable 1: CELLULAR / LTE

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

Cable 2: 2.4/5.0 GHz ISM

- 2410-2490 MHz
- 4920-5925 MHz

Screw Mount

Anti-Rotation Mechanism

Ground Plane Dependent

Customizable Cable and Connector

Dimensions: Ø 77.3 x 65.5 mm

Certificates: IP67, IK09, IP69K



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)	~-10.3	~-14.8	~-15.1
VSWR	~2.1:1	~1.5:1	~1.5:1
Efficiency (%)	~52	~62	~50
Peak Gain (dBi)	~-0.7	~3.4	~4.0
Average Gain (dB)	~-2.9	~-2.1	~-3.0
Impedance (Ohm)	50		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power (W)	25		
Connector Type	SMA-Male Standard (Other Connectors Available)		
Cable Length	300 cm Standard (Any Cable Length Available)		
Cable Type	DACAR302 Standard (Other Cables Available)		

Cable 2

Parameters	2.4/5.0 GHz ISM Antenna	
Standards	WiFi, BT, ZigBee, ISM	
Band (MHz)	2.4 GHz	5.0 GHz
Frequency (MHz)	2410-2490	4920-5925
Return Loss (dB)	~-20.2	~-11.1
VSWR	~1.2:1	~1.8:1
Efficiency (%)	~60.5	~38.4
Peak Gain (dBi)	~-5.0	~-3.9
Average Gain (dB)	~-2.2	~-4.2
Impedance (Ohm)	50	
Polarisation	Linear	
Radiation Pattern	Omni-Directional	
Max. Input Power (W)	25	
Connector Type	RP-SMA-Male Standard (Other Connectors Available)	
Cable Length	300 cm Standard (Any Cable Length Available)	
Cable Type	DACAR302 Standard (Other Cables Available)	

Antenna Measurement Conditions:

Mounted on 30 x 30 cm Ground Plane

200 cm of Cable DACAR302

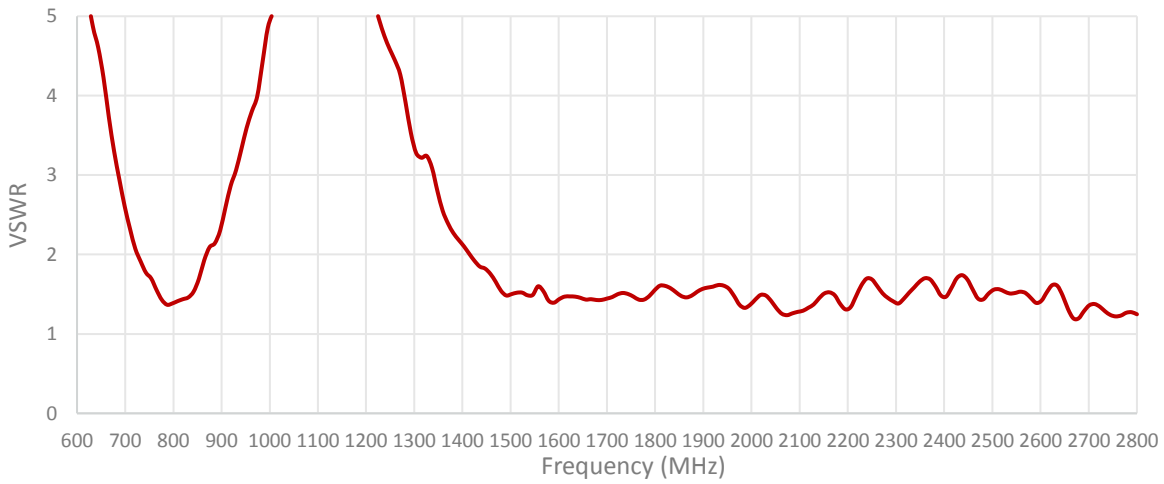
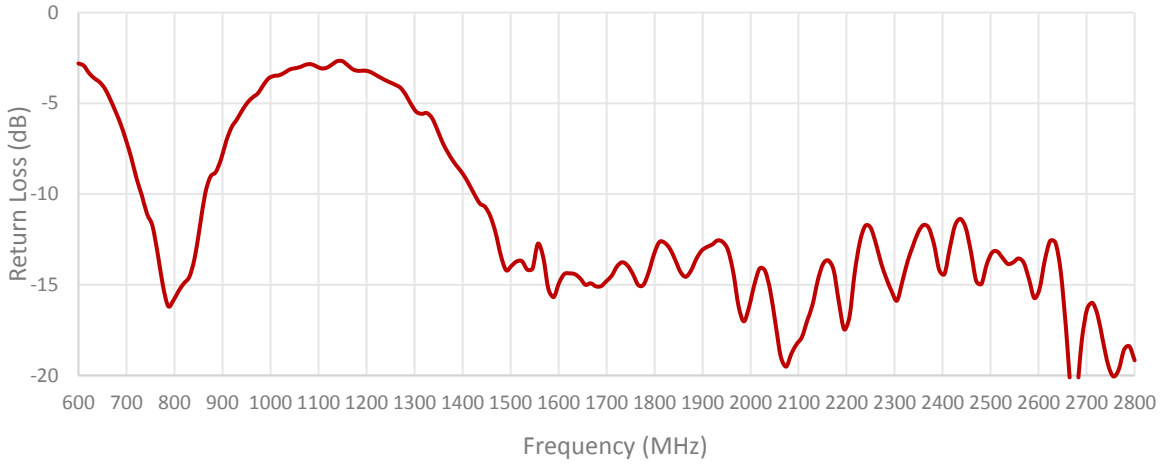
Measured in Certified CTIA 3D Anechoic Chamber

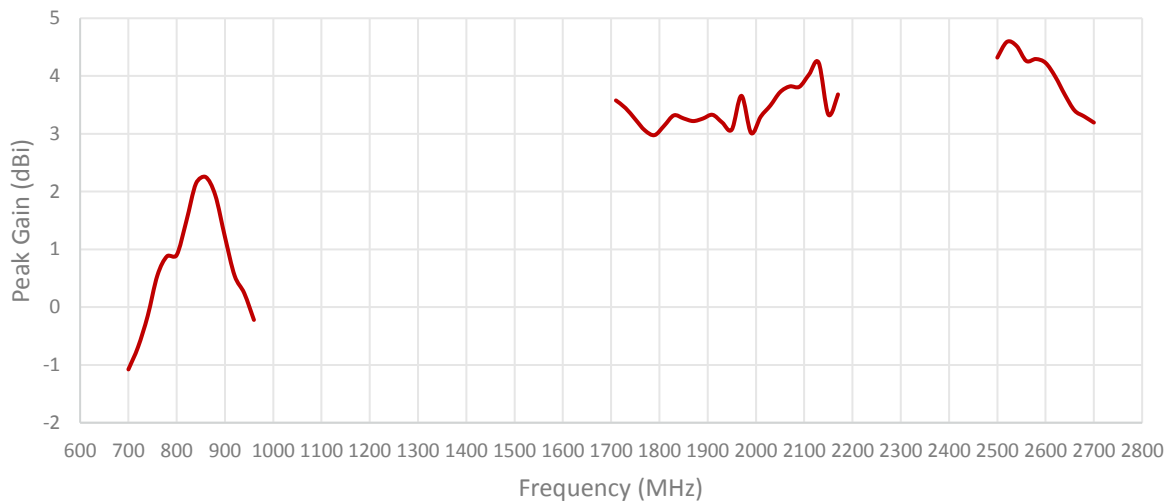
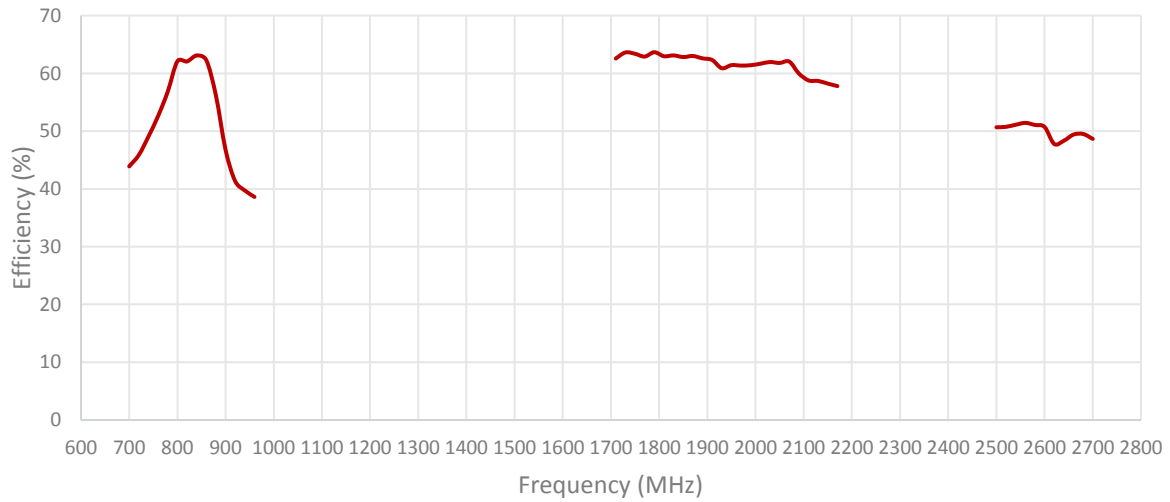
2. Mechanical and environmental specifications

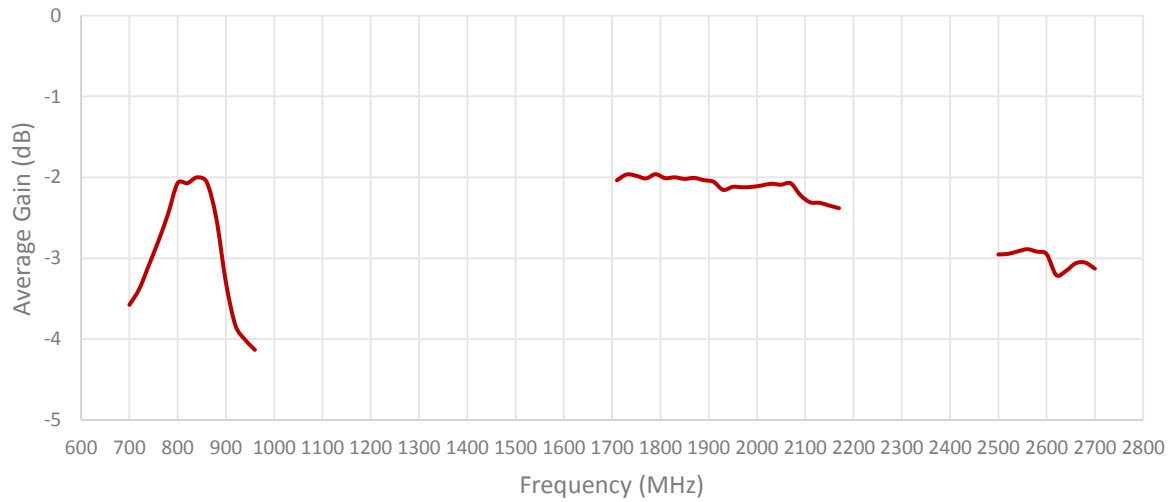
Specifications	2J6A47B
Mounting Type	Screw Mount
Dimensions (mm)	Ø 77.3 x 65.5
Max. Tighten Torque (Nm)	6 Nm
Radome	ASA
Radome color	Black or White
Antenna Base	Zamak
Gasket	TPE
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67, IK09, IP69K

3. Antenna parameters

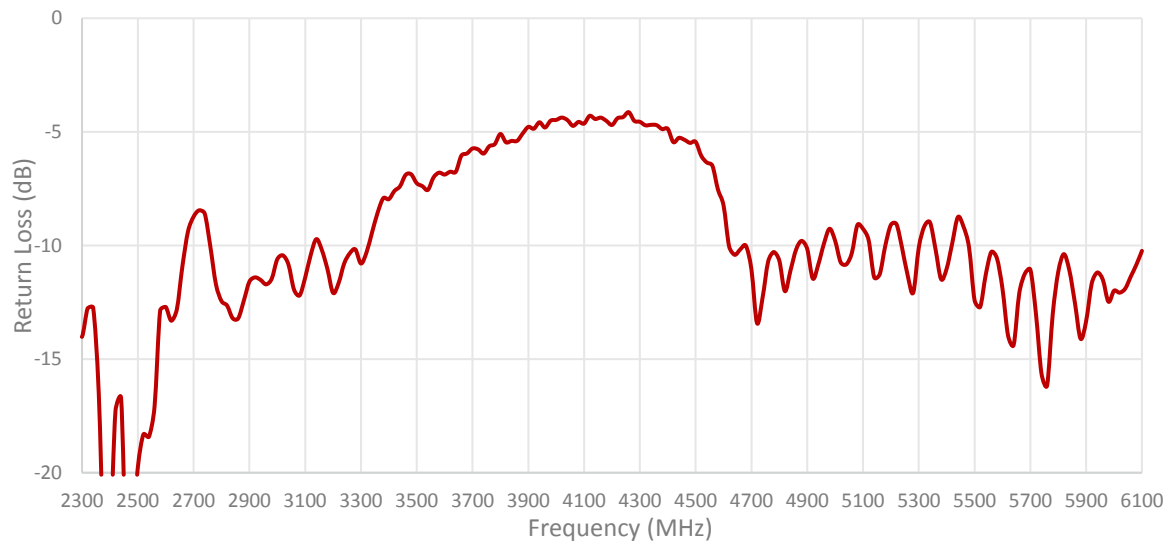
Cable 1: CELLULAR / LTE

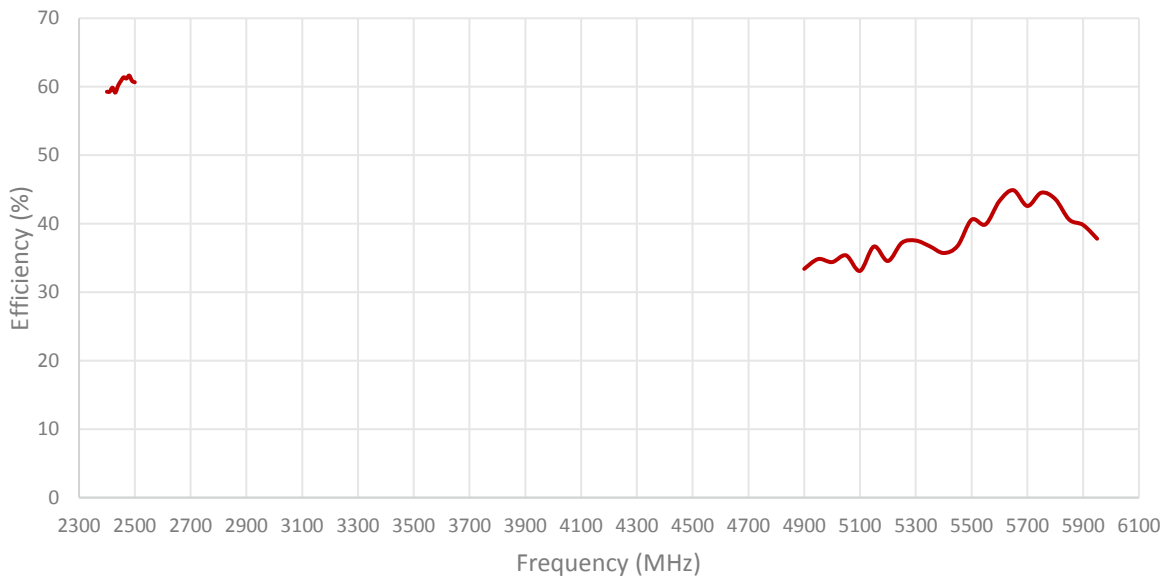
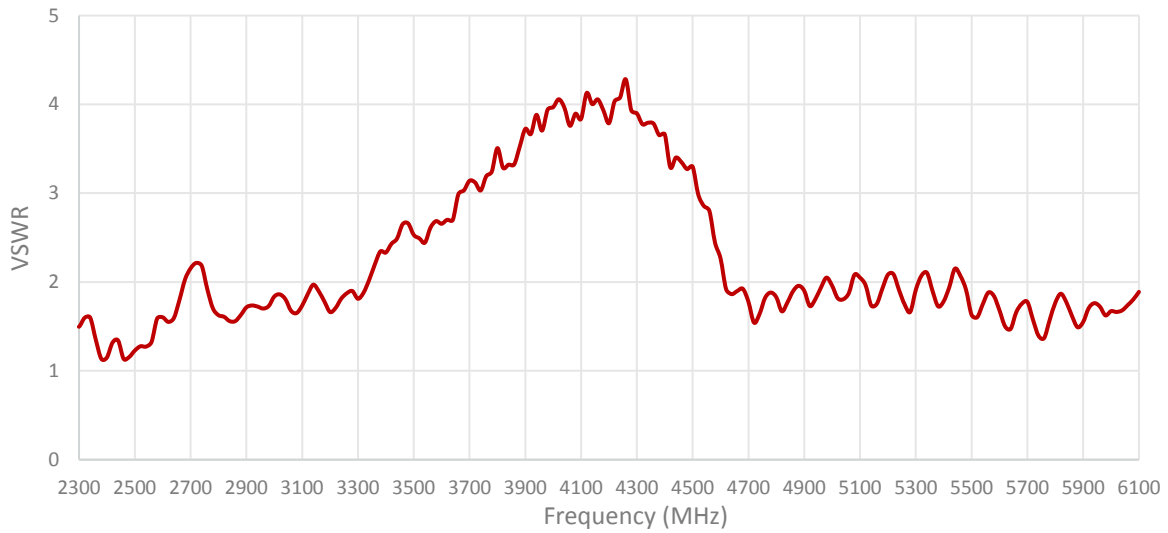


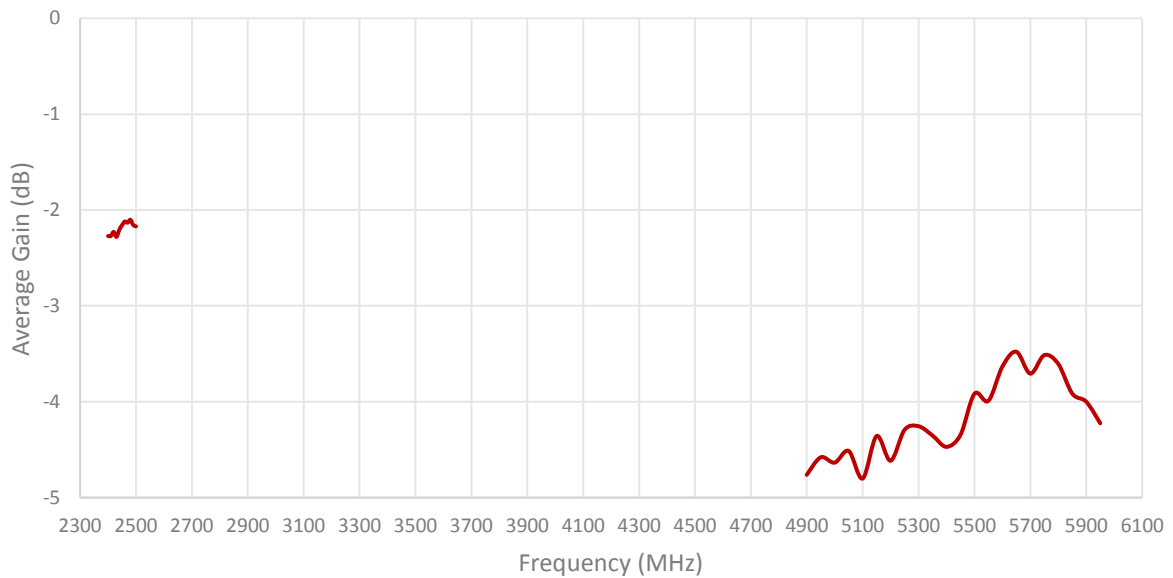
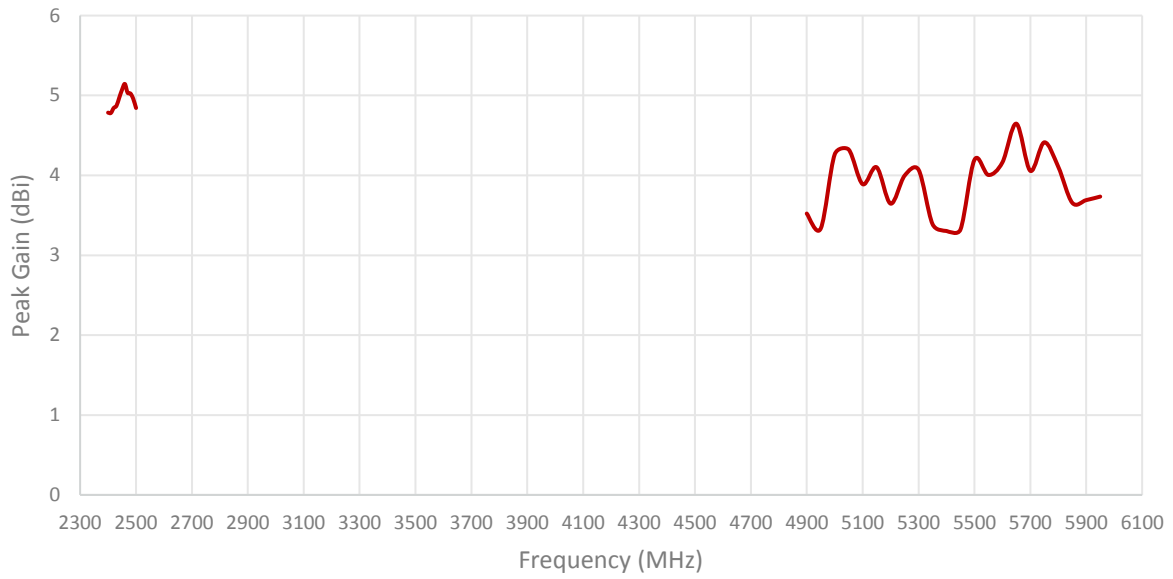


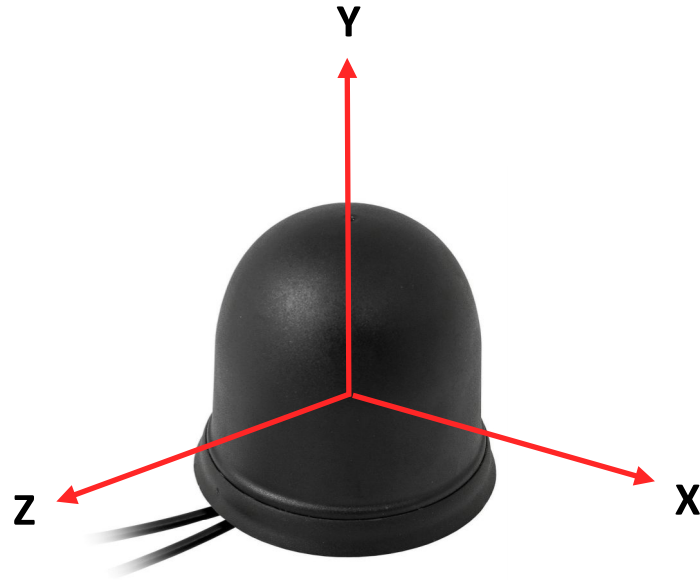


Cable 2: 2.4/5.0 GHz ISM



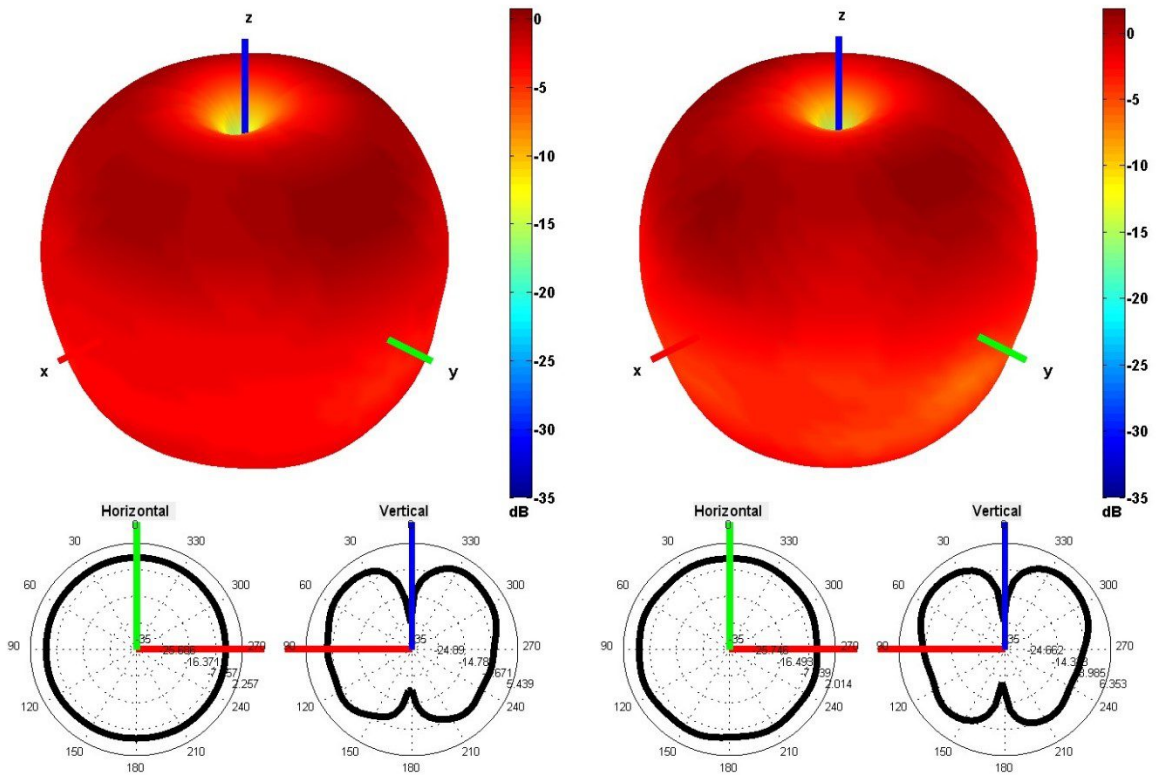




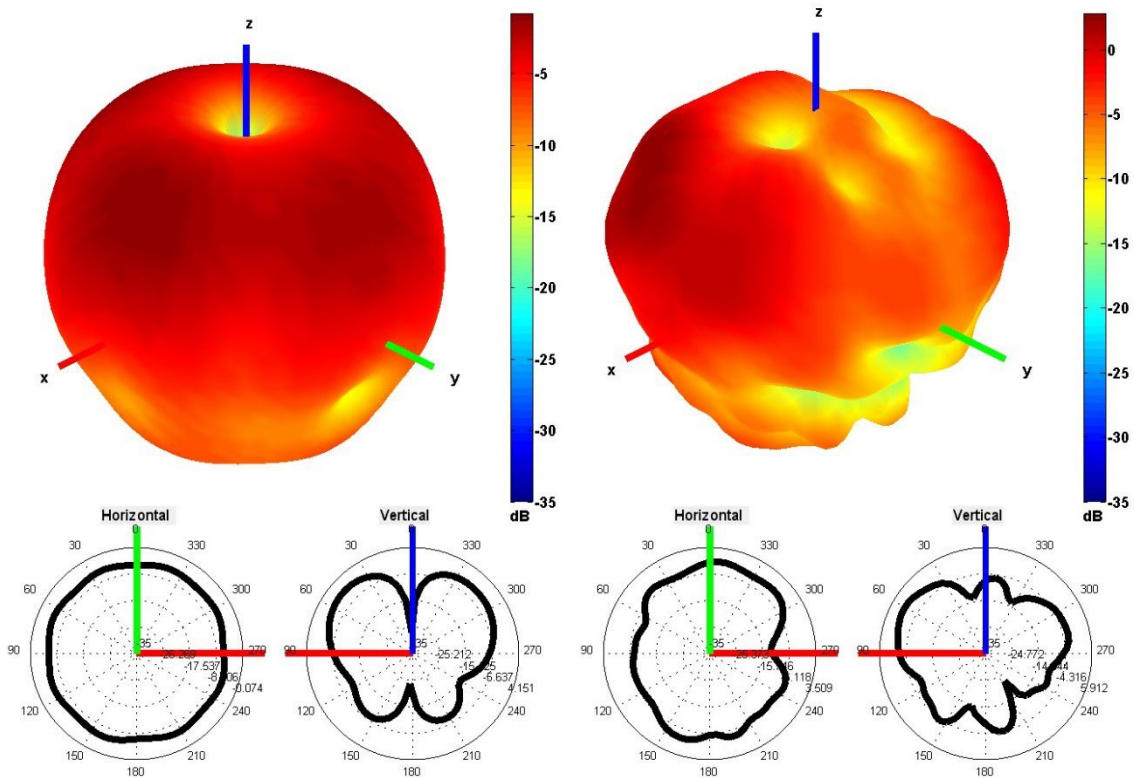


Radiation pattern reference

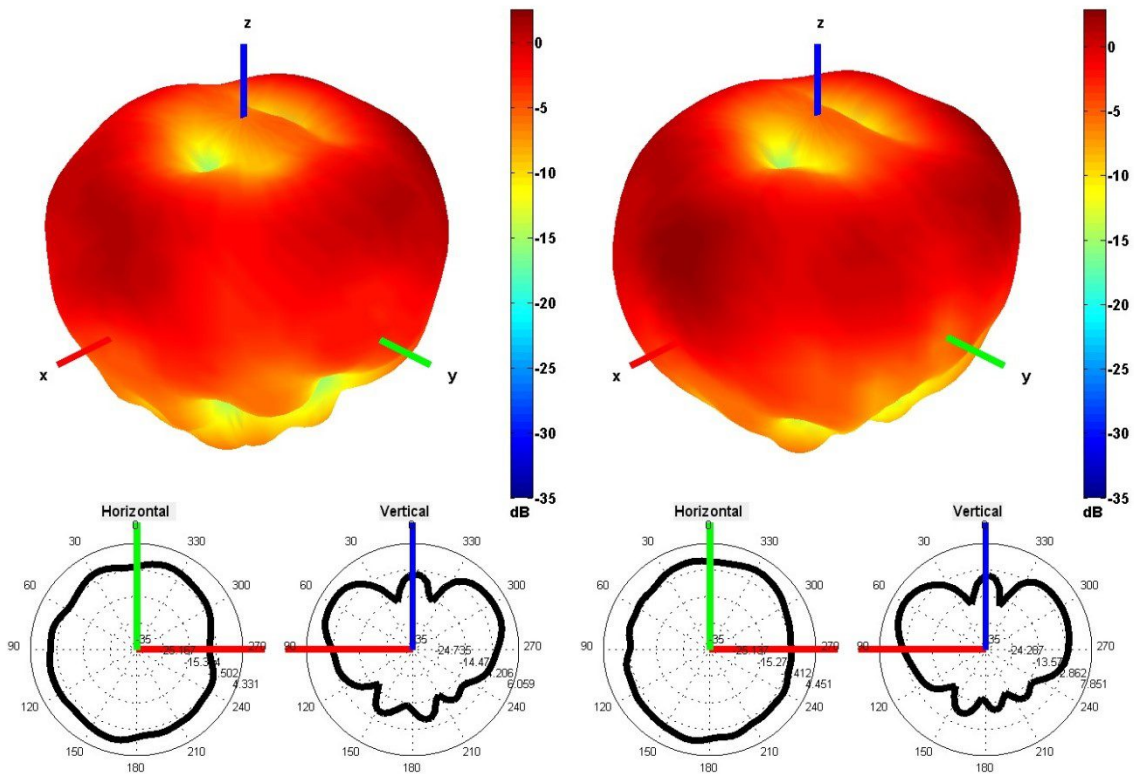
Table 1: CELLULAR/LTE



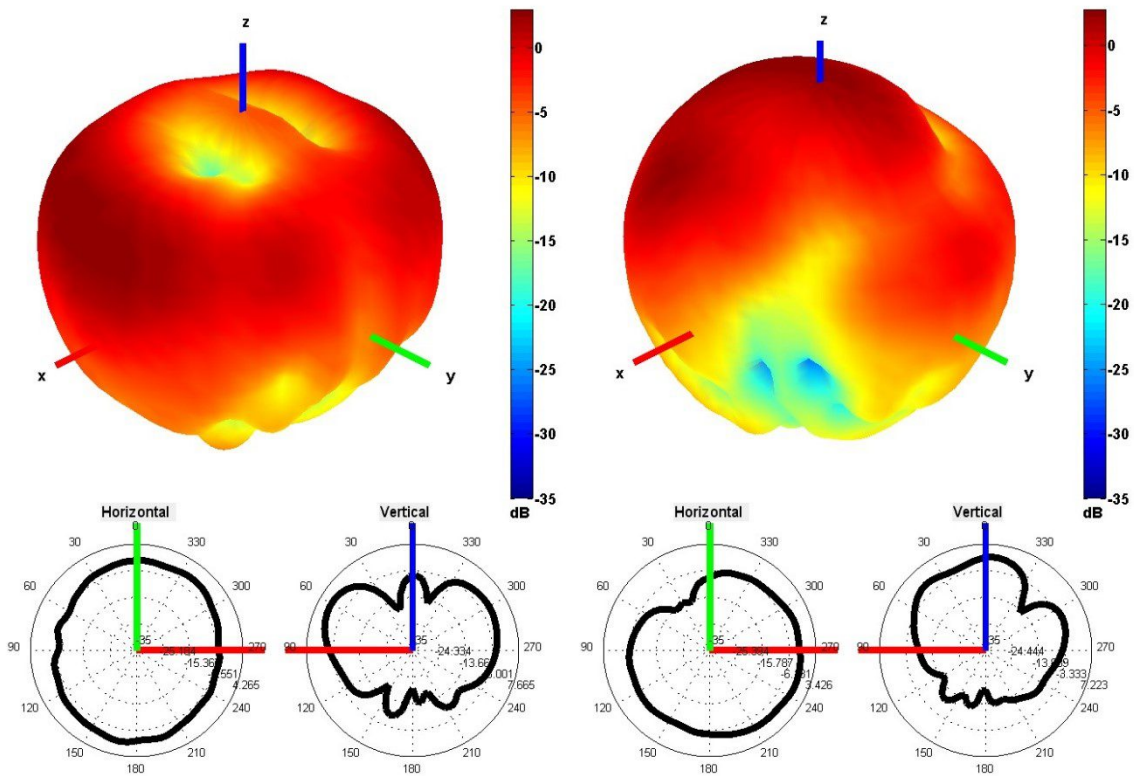
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

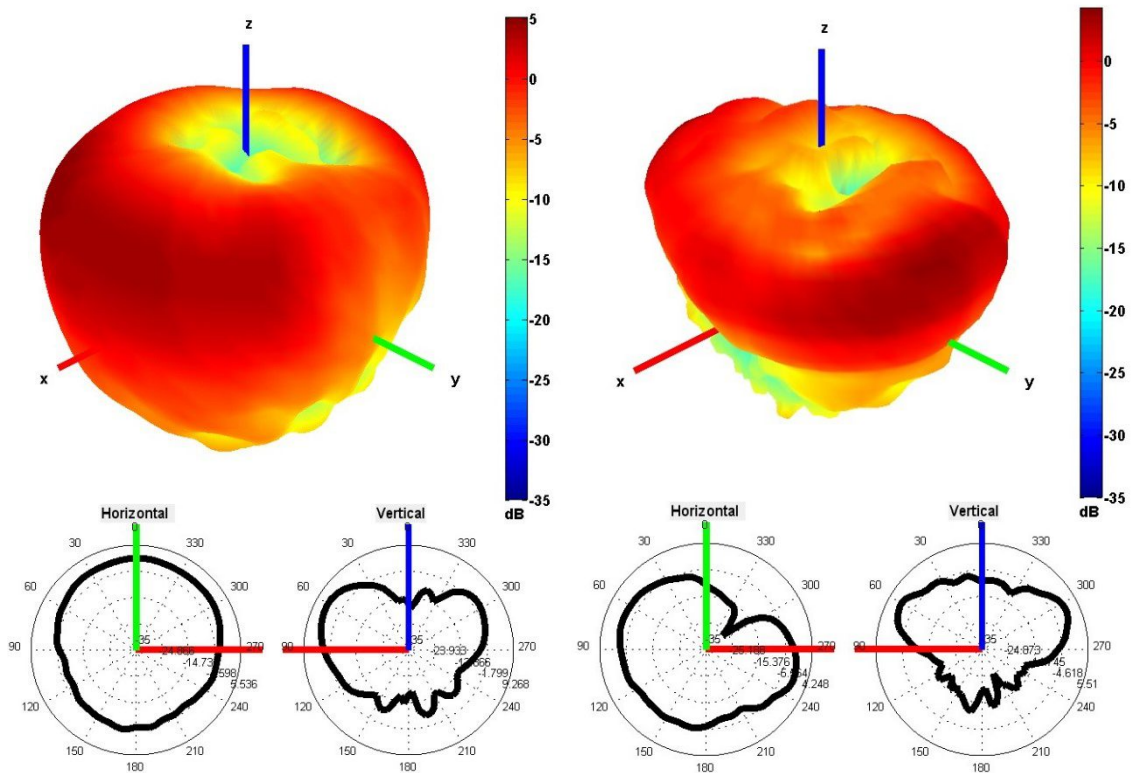


1850 and 1950 MHz Radiation pattern



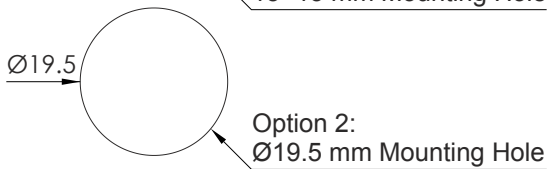
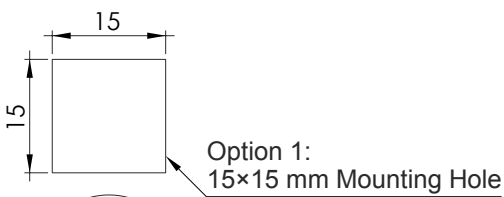
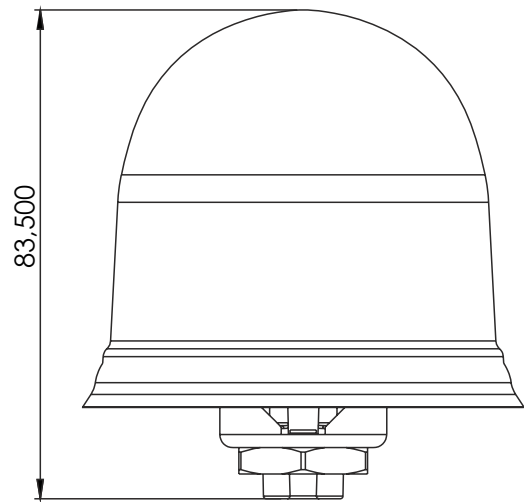
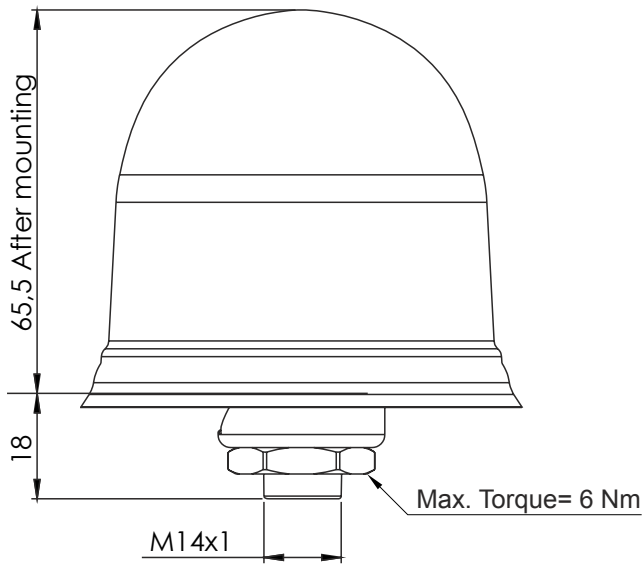
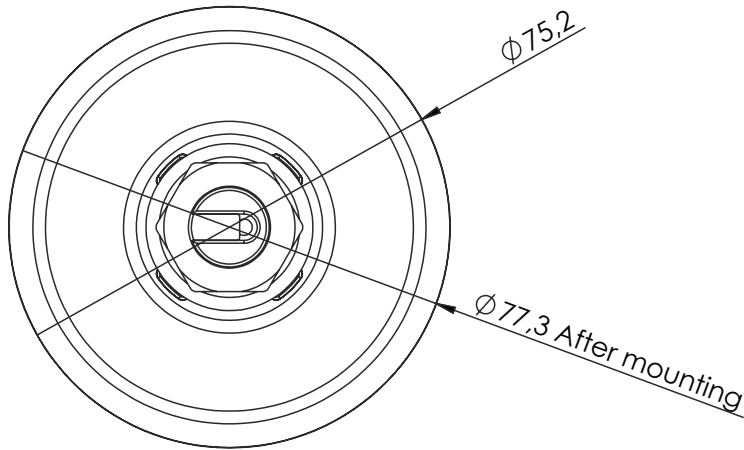
2100 and 2600 MHz Radiation pattern

Table 2: 2.4/5.0 GHz ISM



2450 and 5500 MHz Radiation pattern

4. Antenna drawings



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

5. Antenna Images

