

2J6047M

CELLULAR/LTE and 2.4/5.0 GHz ISM Magnetic 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

Magnetic Mount

Ground Plane Independent

Customizable Cable and Connector

Dimensions: 80 x 76 x 13 mm



2. 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)	~-11.3	~-6.6	~-15.2
VSWR	~1.8:1	~2.8:1	~1.5:1
Efficiency (%)	~37.8	~27.3	~51.3
Peak Gain (dBi)	~1.5	~3.2	~6.0
Average Gain (dB)	~-4.3	~-5.7	~-2.9
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	D302 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)	~-12.7	~-20.4
VSWR	~1.7:1	~1.3:1
Efficiency (%)	~42.1	~39.2
Peak Gain (dBi)	~3.0	~4.8
Average Gain (dB)	~-3.8	~-4.1
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	D302 Standard (Other Cables Available)	

Antenna Measurement Conditions:

Mounted on 30 x 30 x 0.25 cm Metal Plate

200 cm of Cable D302

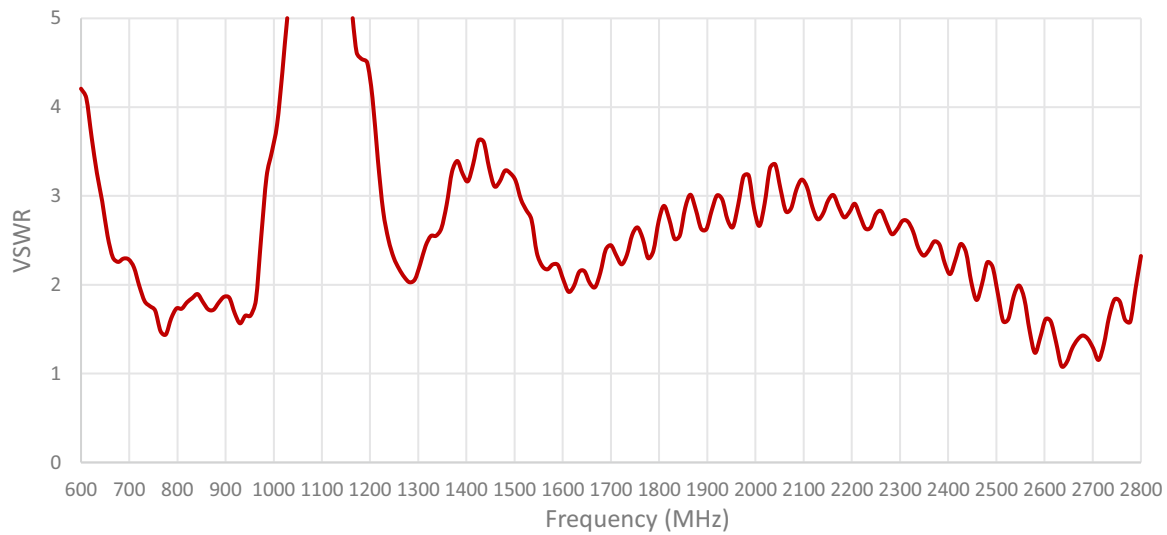
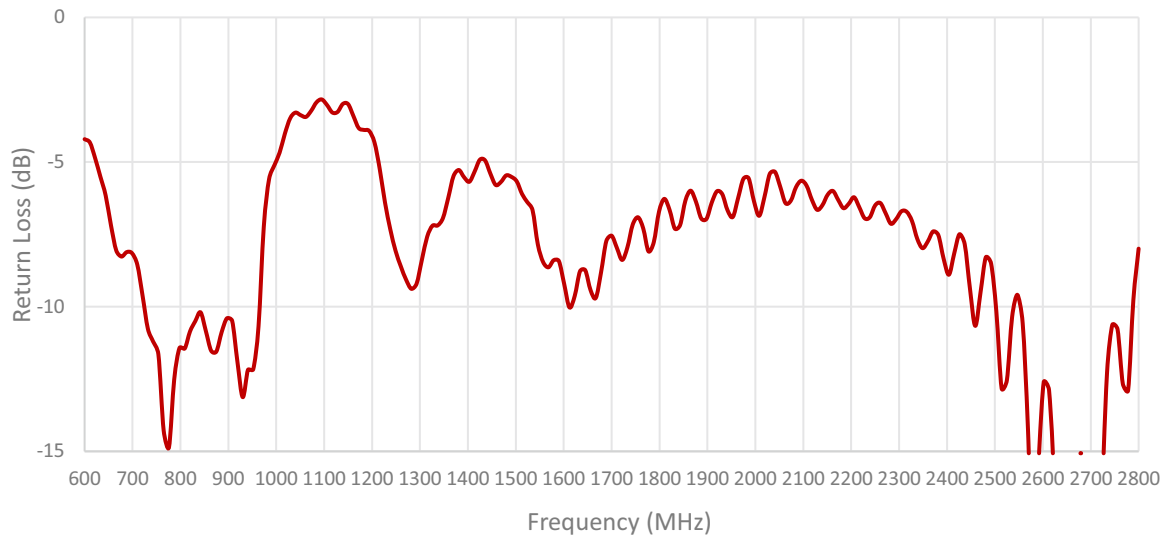
Measured in Certified CTIA 3D Anechoic Chamber

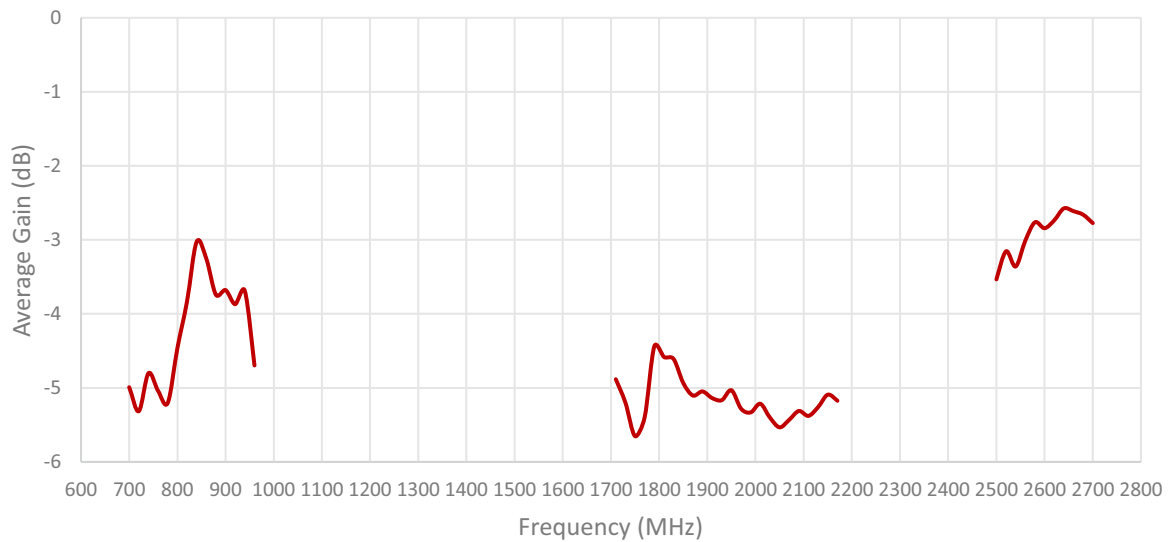
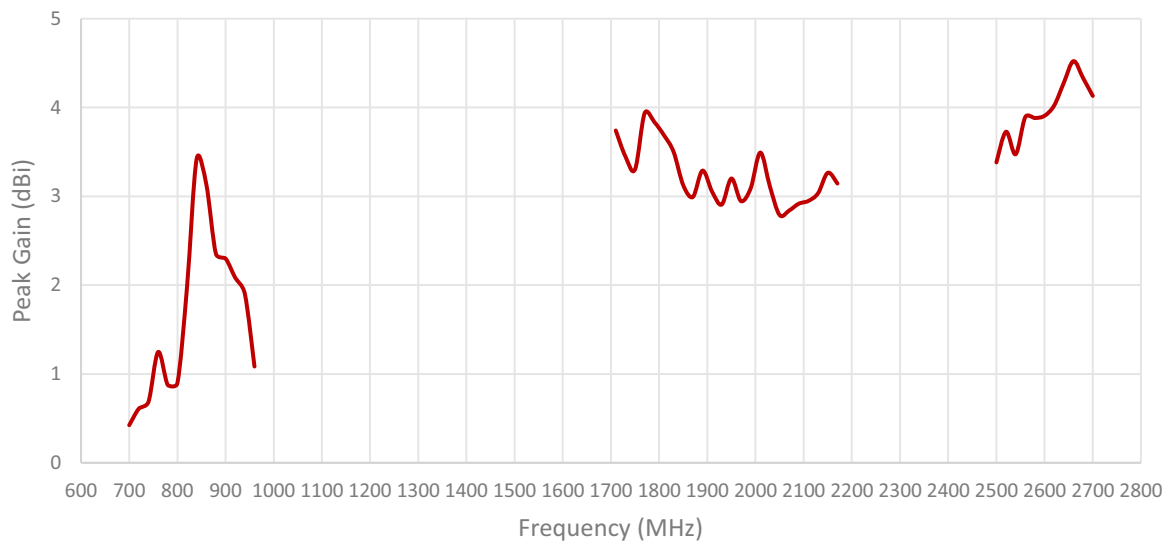
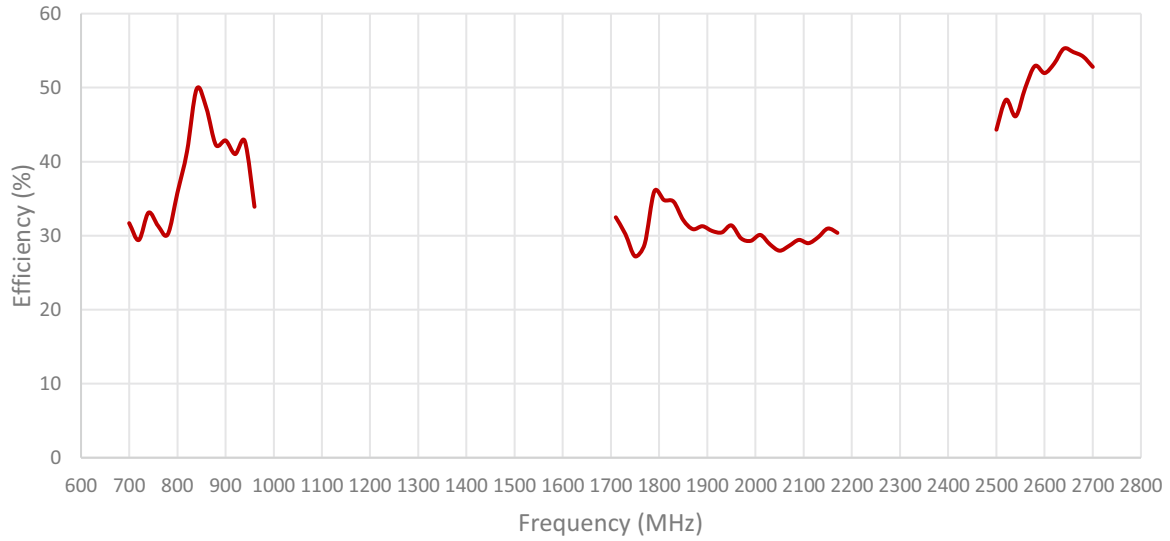
3. Mechanical and environmental specifications

Specifications	2J6047M
Mounting Type	Magnetic Mount
Dimensions (mm)	80 x 76 x 13
Radome Type	ASA
Radome Color	Black or White
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

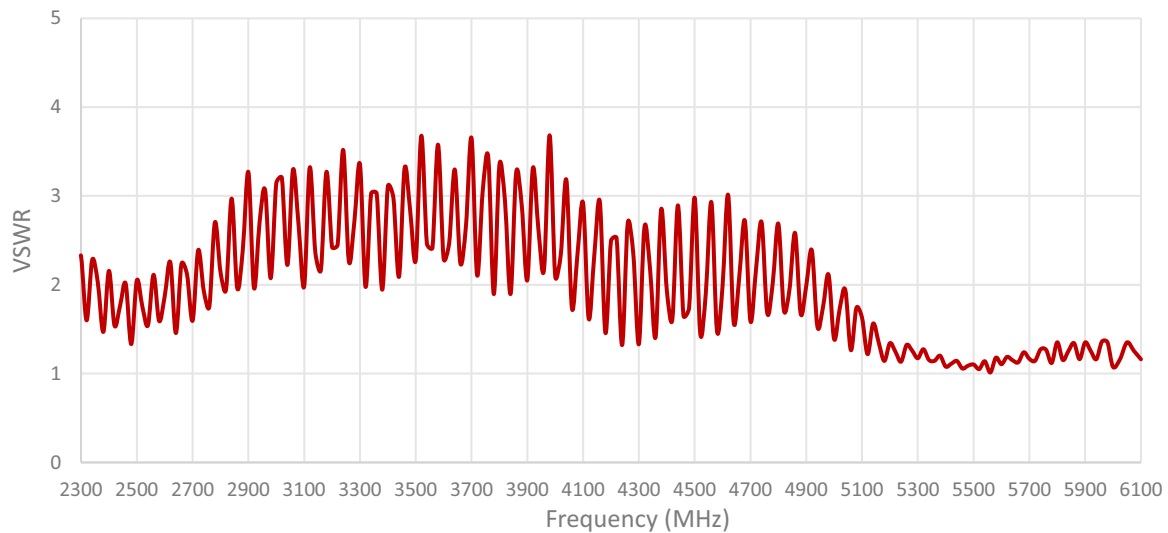
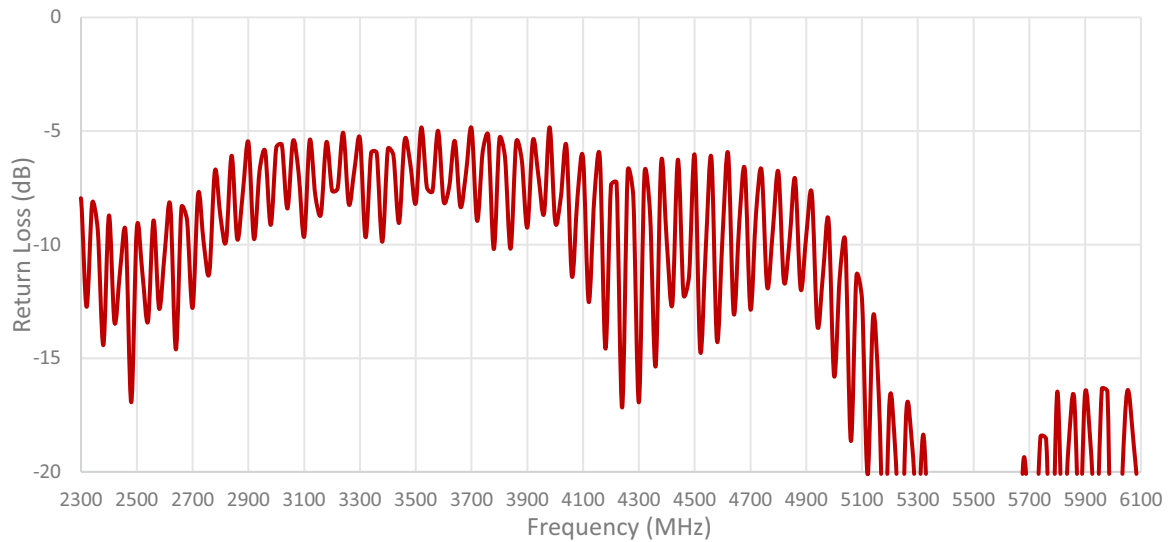
4. Antenna parameters

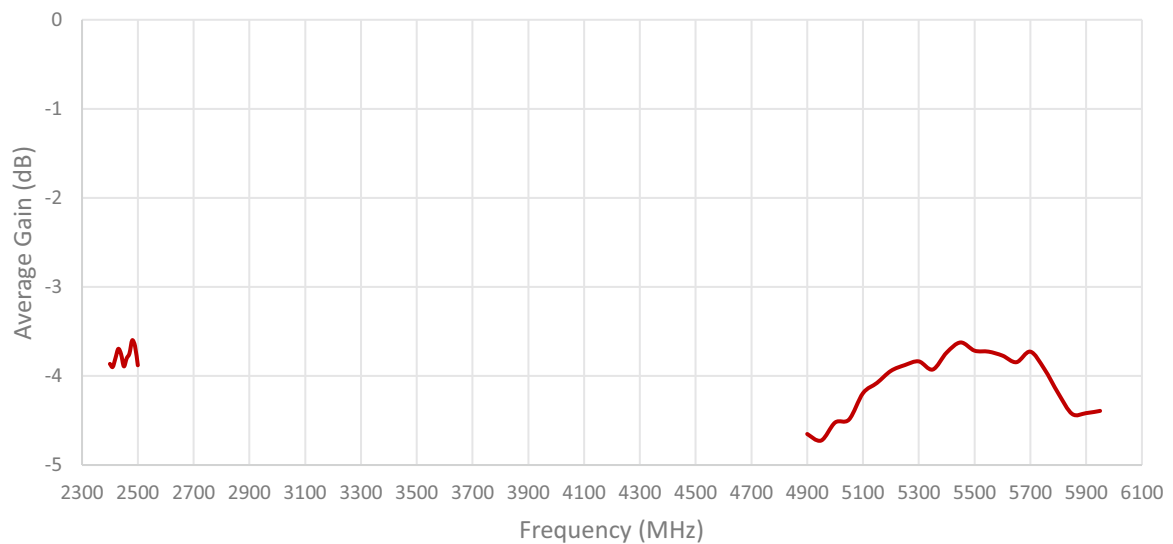
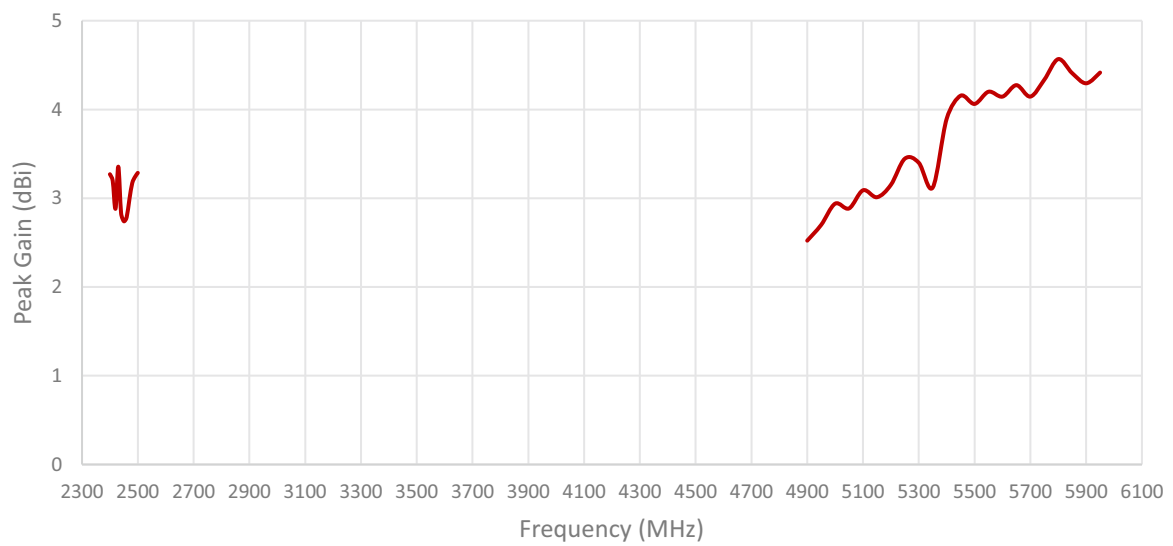
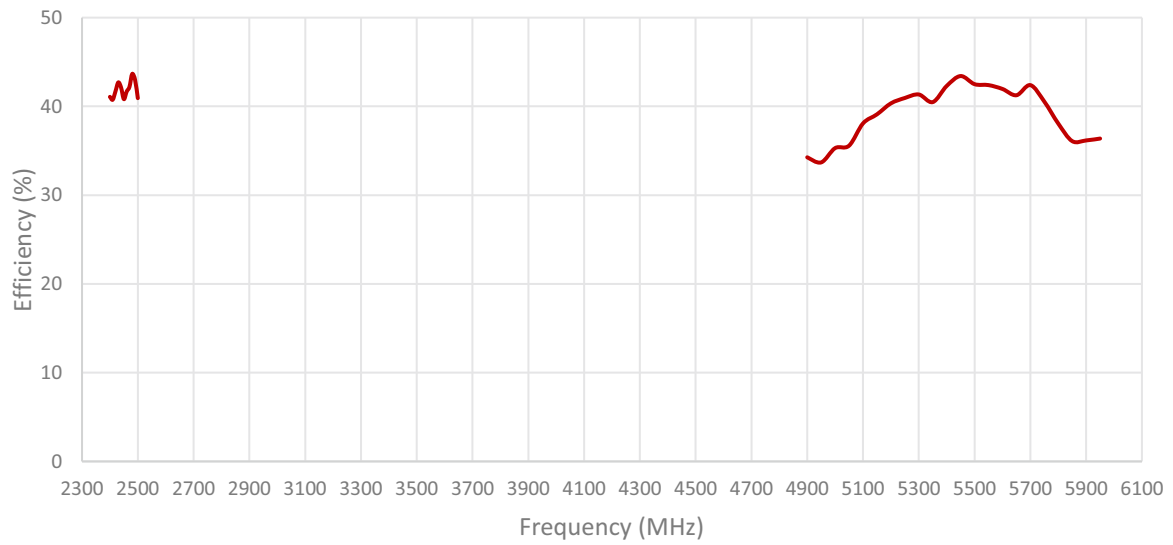
Table 1: CELLULAR/LTE

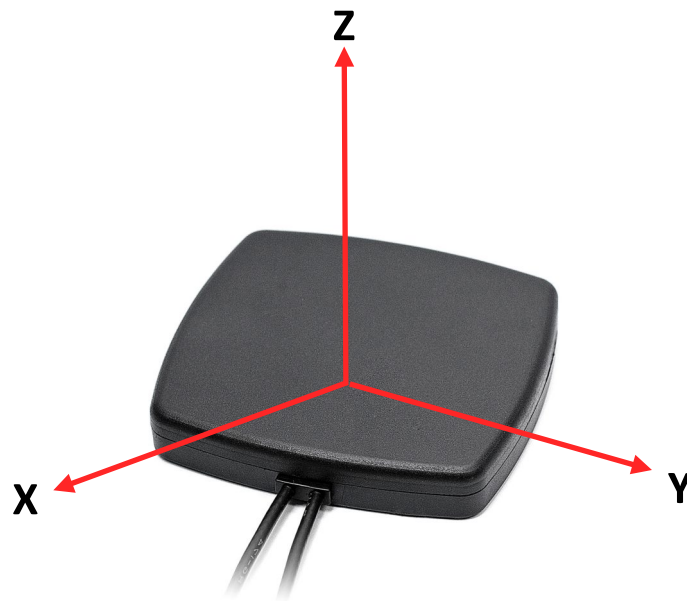




Cable 2: 2.4/5.0 GHz ISM

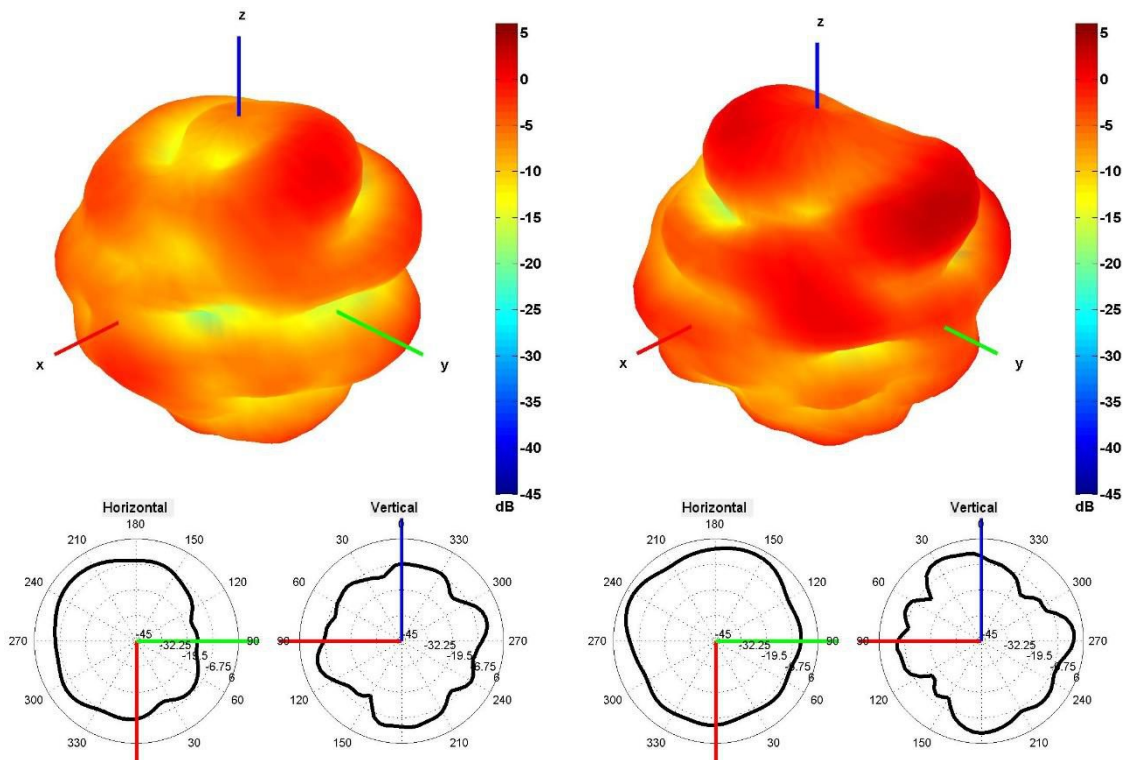




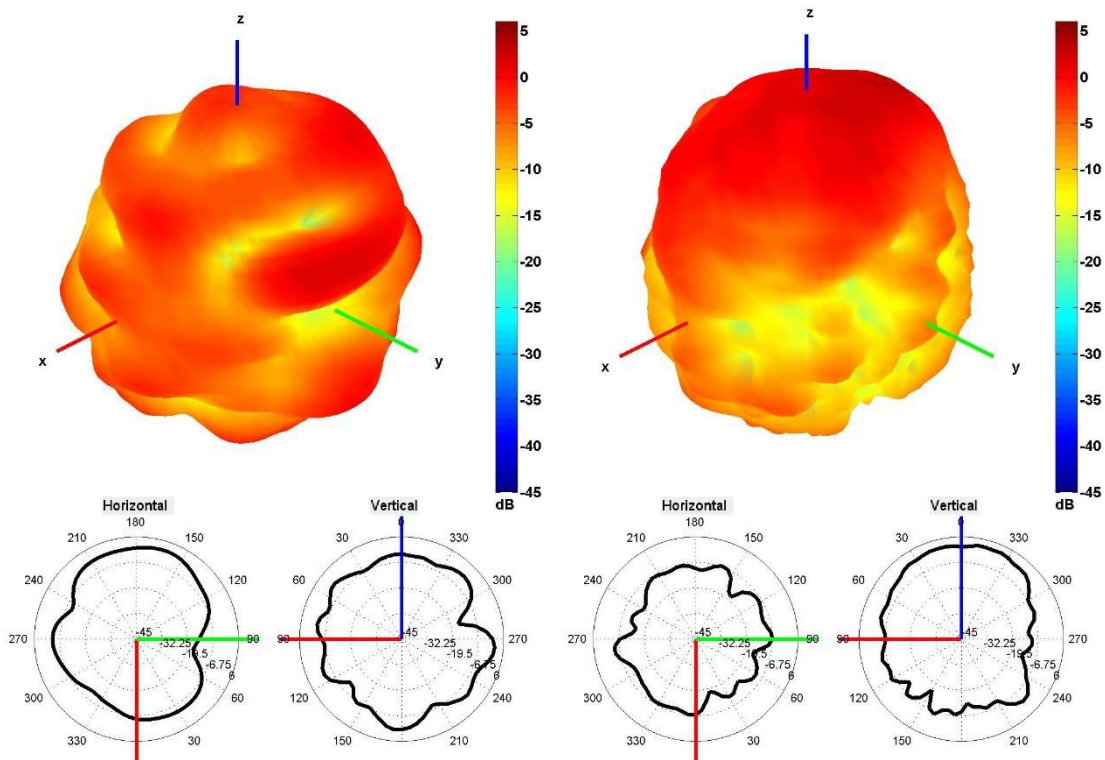


Radiation pattern reference

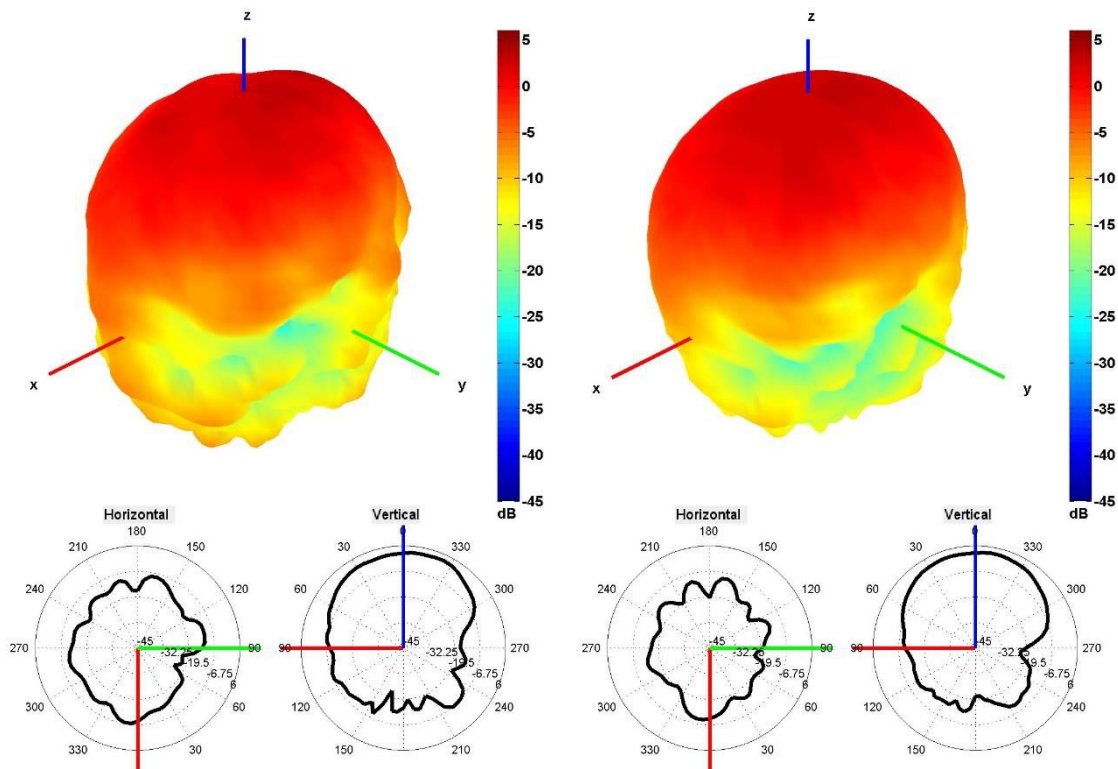
Cable 1: CELLULAR/LTE



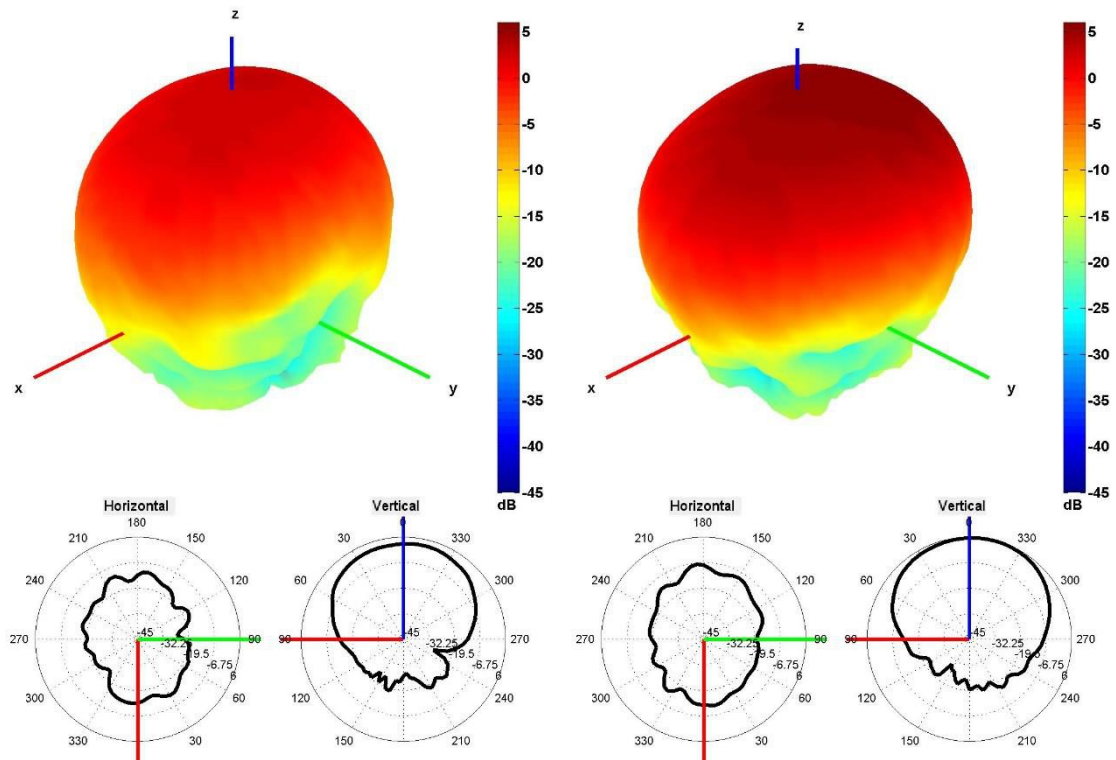
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

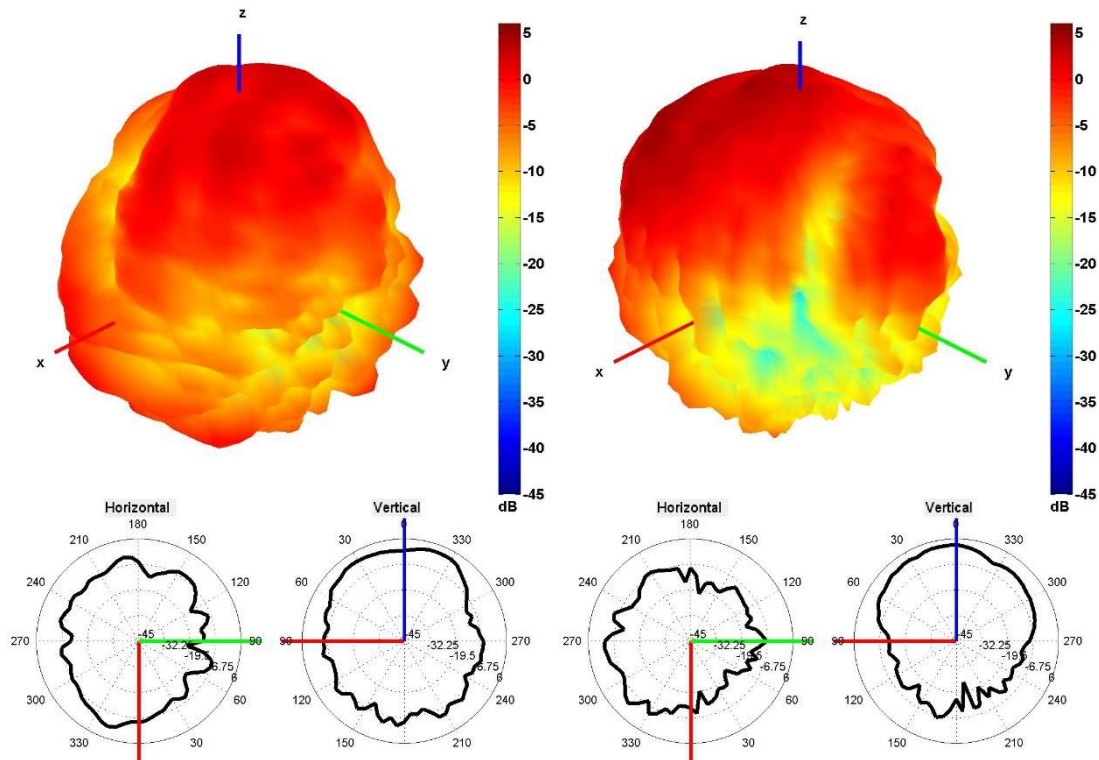


1850 and 1950 MHz Radiation pattern



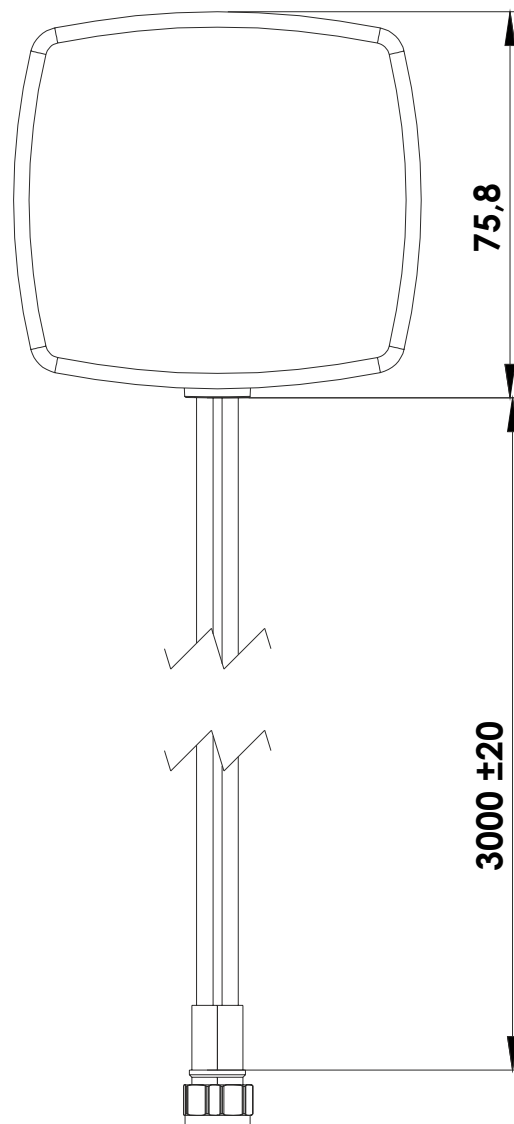
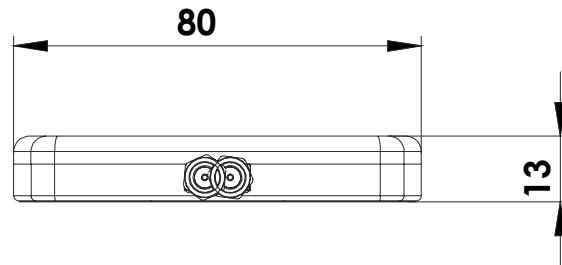
2100 and 2600 MHz Radiation pattern

Cable 2: 2.4/5.0 GHz ISM



2450 and 5500 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images

