

AMC-ANTE4841PGF

Cellular/LTE and GNSS adhesive mount antenna

Features

- Cable 1: Cellular/LTE
 - 698 – 960MHz
 - 1710 – 2170MHz
 - 2500 – 2700MHz
- Cable 2: GPS/Galileo/GLONASS/QZSS
 - 1575 – 1606MHz
- Adhesive mount
- Ground plane independent
- Customisable cable length and connectors
- Certificates – IP67, IP69
- Dimensions – 83 x 35 x 13.3mm
- **AMC-ANTE4841PGFR** equipped with 10K resistor for antenna detection



Certifications:



Alpha Micro UK Tel: +44 1256 851770 | email: sales@alphamicro.net
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1. Antenna and Electrical Specifications

Cable 1

Parameters	Cellular/LTE Antenna		
Standards	2G/3G/4G		
Band (MHz)	700/850/900	1700/1800/1900/2100	2600
Frequency (MHz)	698 - 960	1710 - 2170	2500 - 2700
Return Loss (dB)	~-13.3	~-18.3	~-9.8
VSWR	~1.8:1	~1.3:1	~2.0:1
Efficiency (%)	~53	~49	~25
Peak Gain (dBi)	~2.4	~1.3	~0.4
Average Gain (dB)	~-2.7	~-3.0	~-5.9
Impedance (Ohms)	50		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power (W)	25		
Connector Type	SMA male standard (other connectors available)		
Cable Length	3 meters standard (other lengths available)		
Cable Type	LMR100 standard (other types available)		

Measurement Conditions:

- Mounted on 300mm x 300mm x 2.5mm metal plate
- 2 meters LMR100 cable
- Measured in certified CTIA 3D anechoic chamber

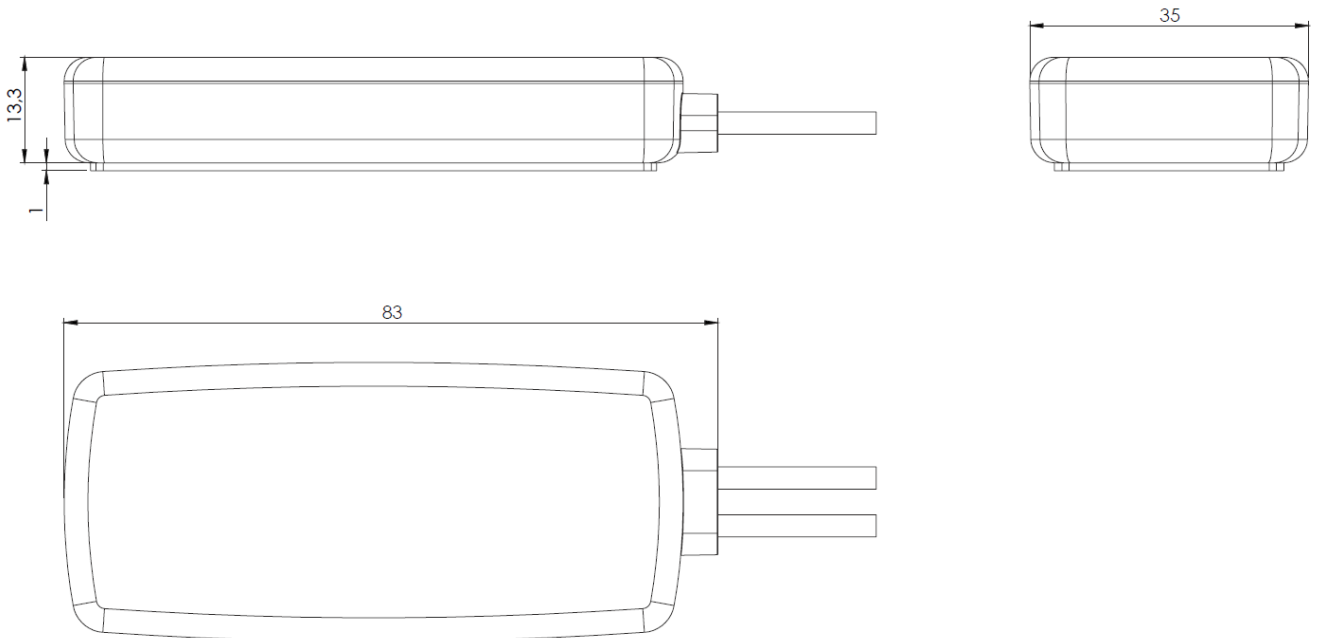
1. Antenna and Electrical Specifications

Cable 2

Parameters	GPS/GLONASS Antenna	
Standards	GPS/GLONASS	
Band (MHz)	1575	1602
Frequency (MHz)	1575.42	1598 - 1606
Patch size (mm)	25 x 25 x 4	
Return Loss (dB)	<=-15	
VSWR	<=1.4:1	
Impedance (Ohms)	50	
Polarisation	RHCP	
Radiation Pattern	Hemispherical	
SAW Filter	Pre-Filter	
Active Gain (dB)	28 @ 2.7V	
Noise Figure (dB)	1.5 (typ.)	
Voltage (V)	1.5 – 3.6	
Current Consumption(mA)	9 (typ.)	
Power Consumption (mW)	24.3 (typ)	
ESD Protection (kV)	2	
Connector Type	SMA male standard (other connectors available)	
Cable Length	3 meters standard (other lengths available)	
Cable Type	LMR100 standard (other types available)	

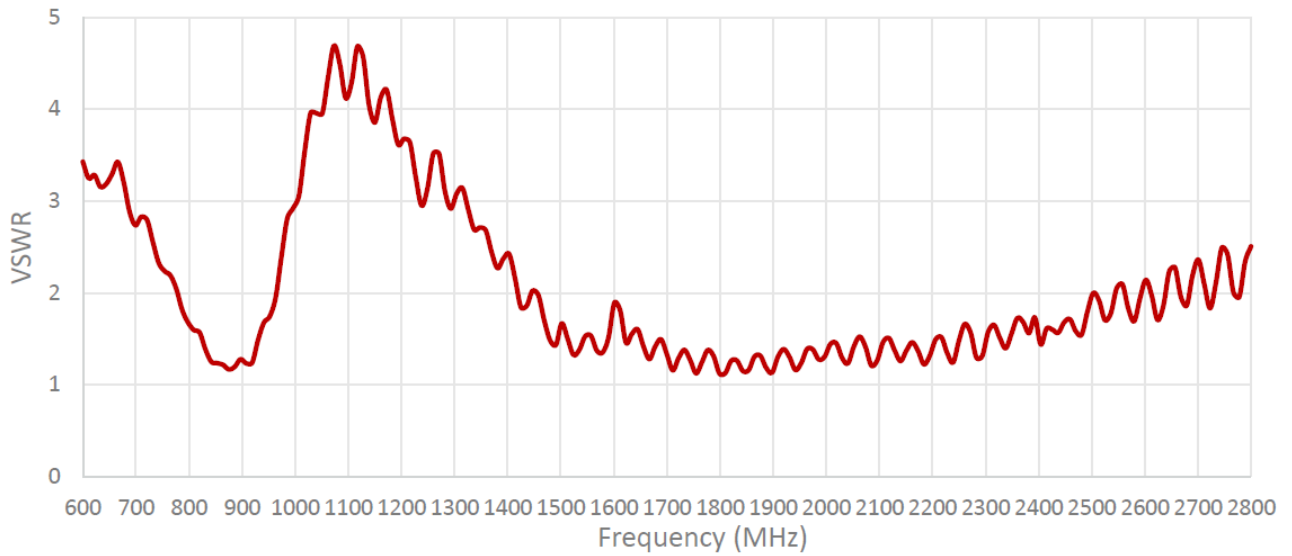
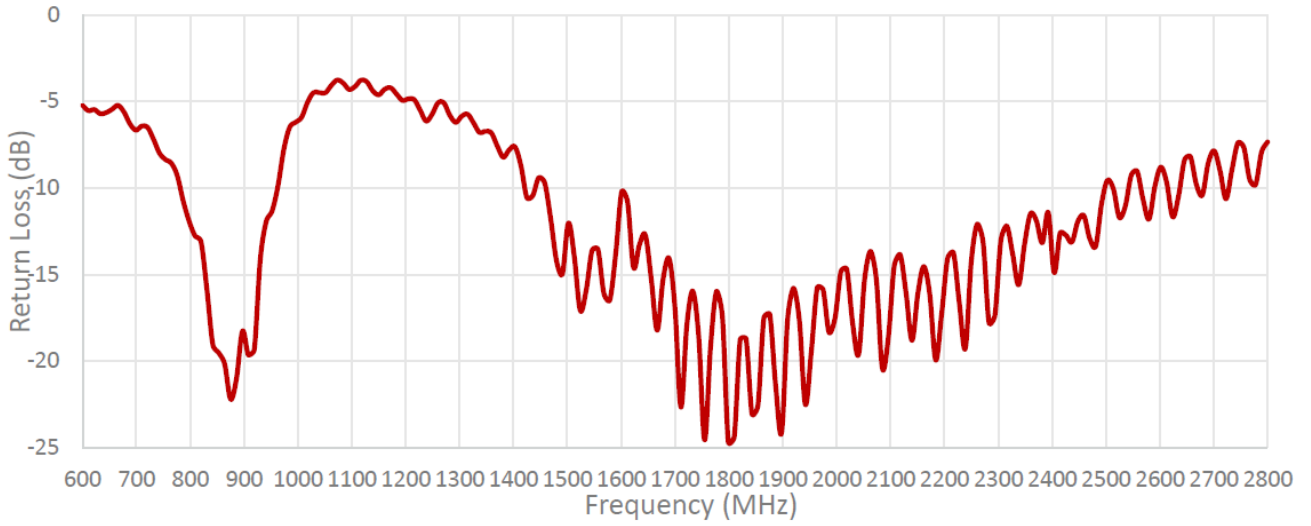
2. Mechanical and Environmental Specifications

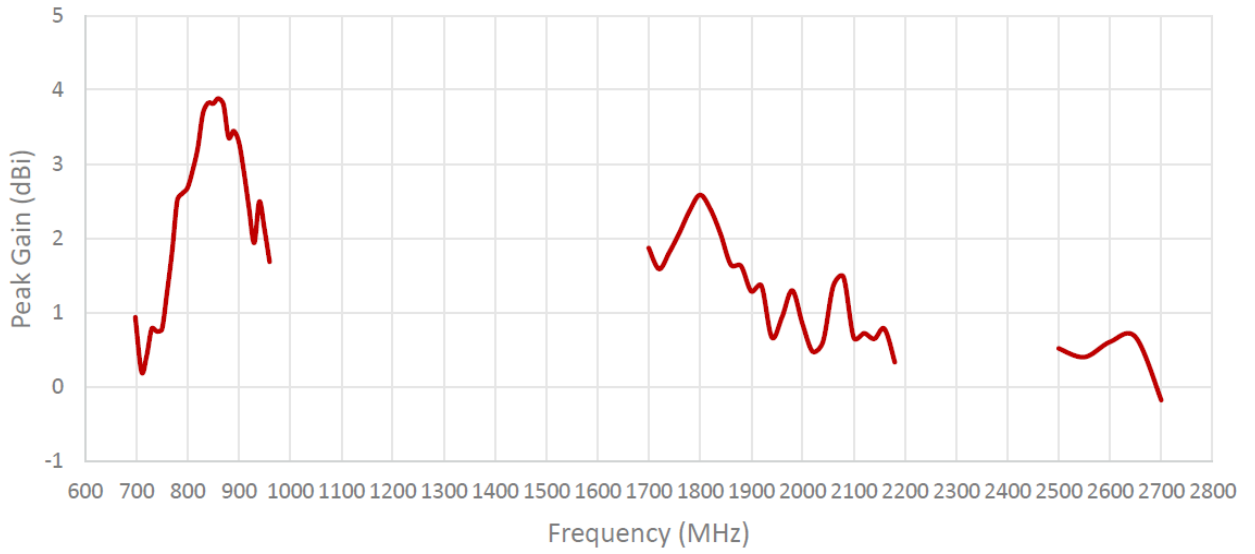
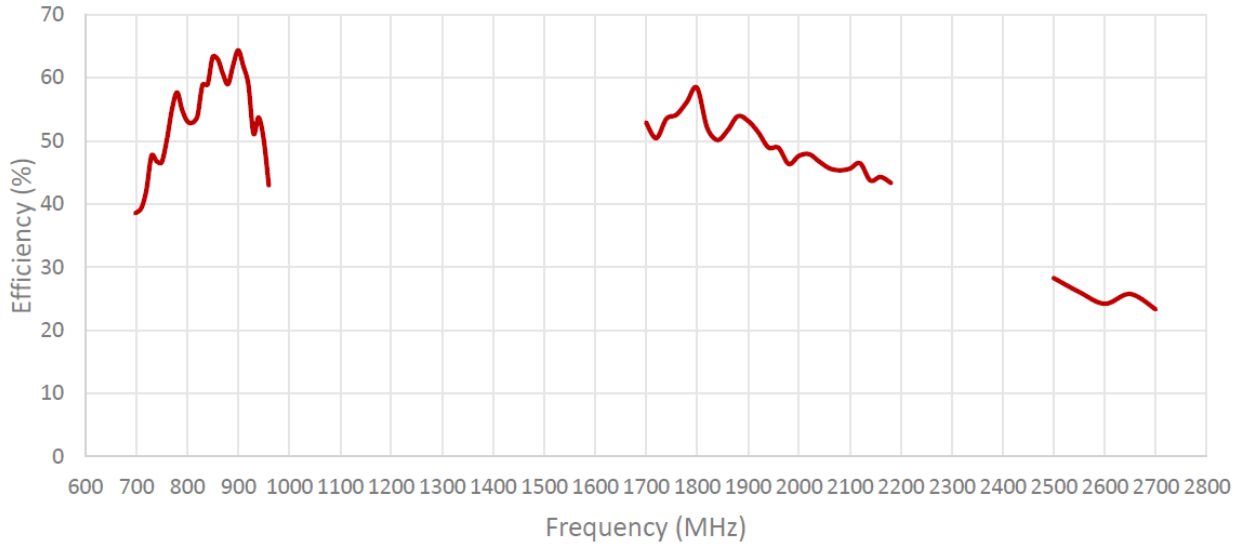
Mounting Type	Adhesive mount
Dimensions (mm)	83 x 35 x 13.3
Radome	ASA UV stable
Radome Color	Black
Operating Temperature (°C)	-40 to +85
Storage Temperature (°C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67, IP69

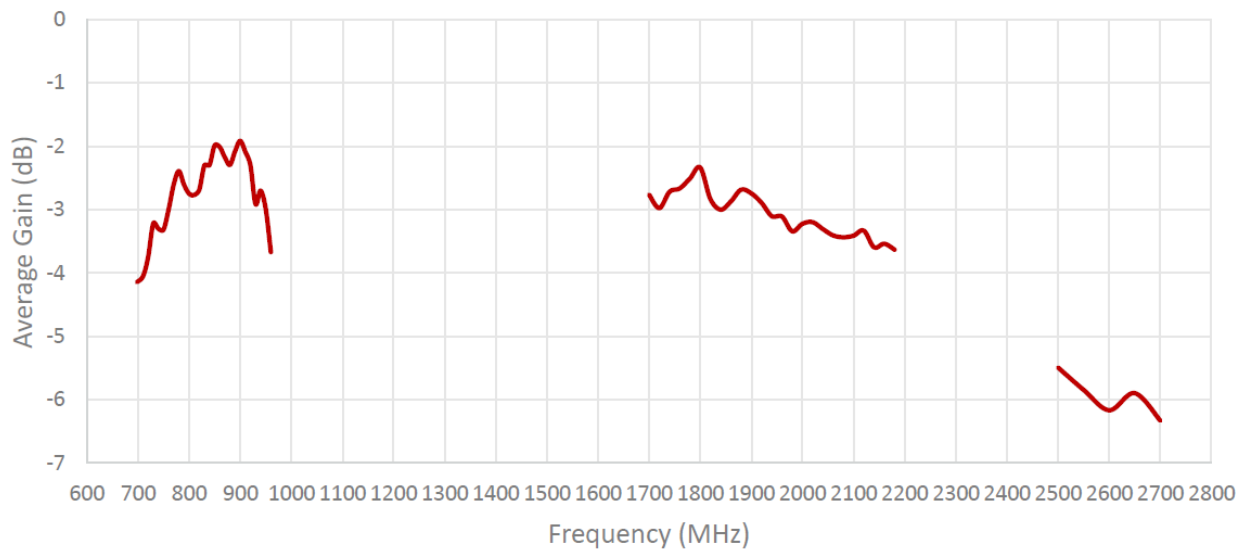




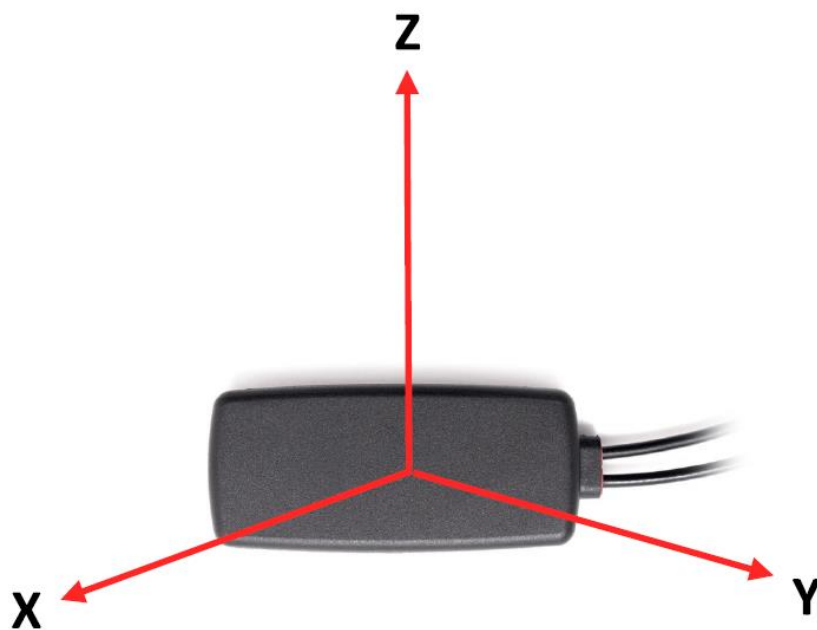
3. Antenna Parameters

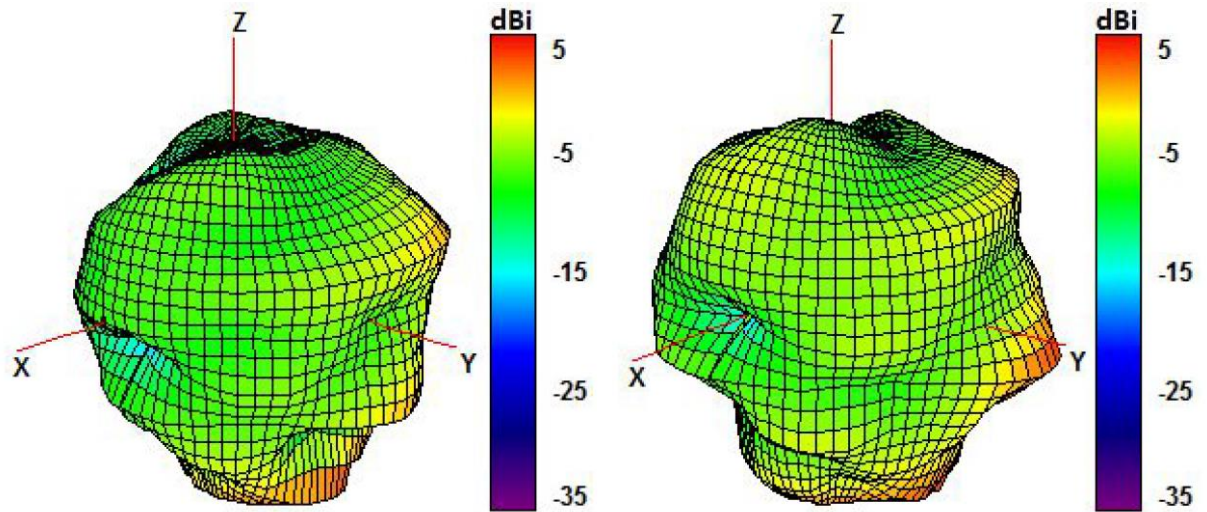




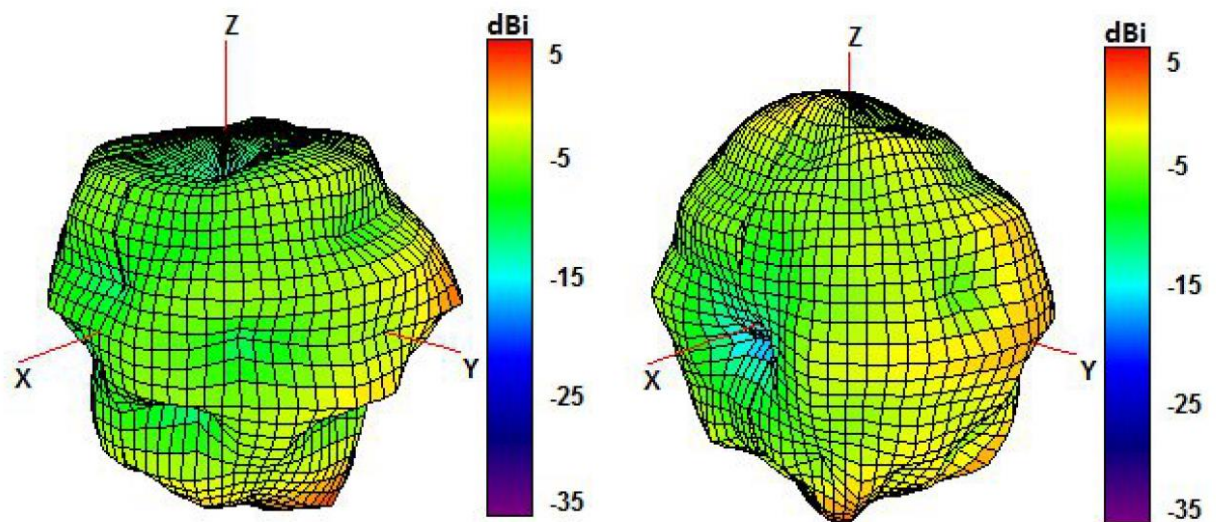


Radiation Pattern Reference

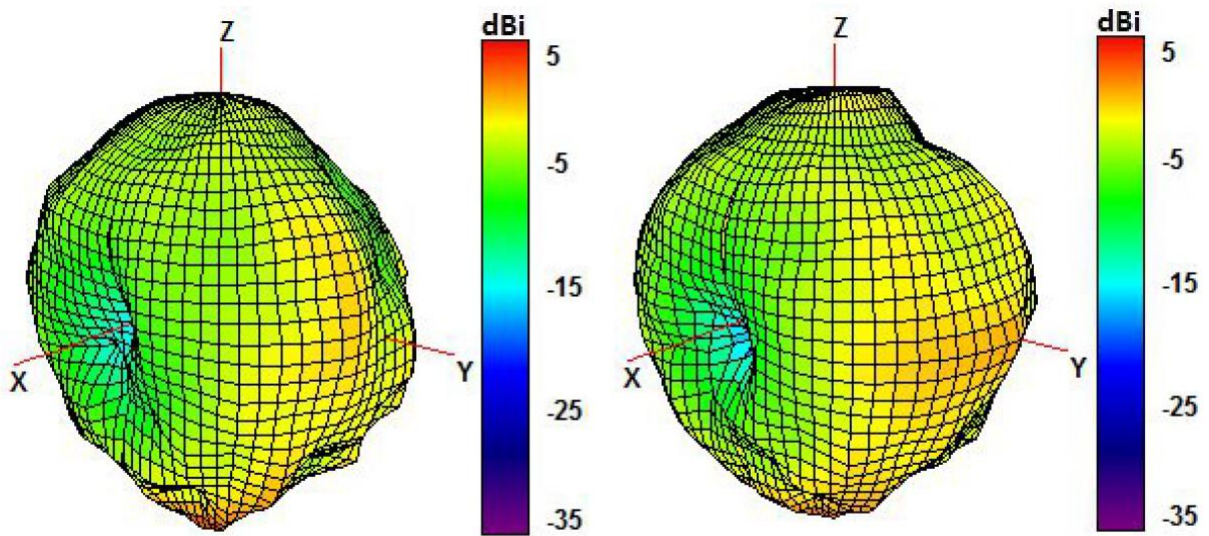




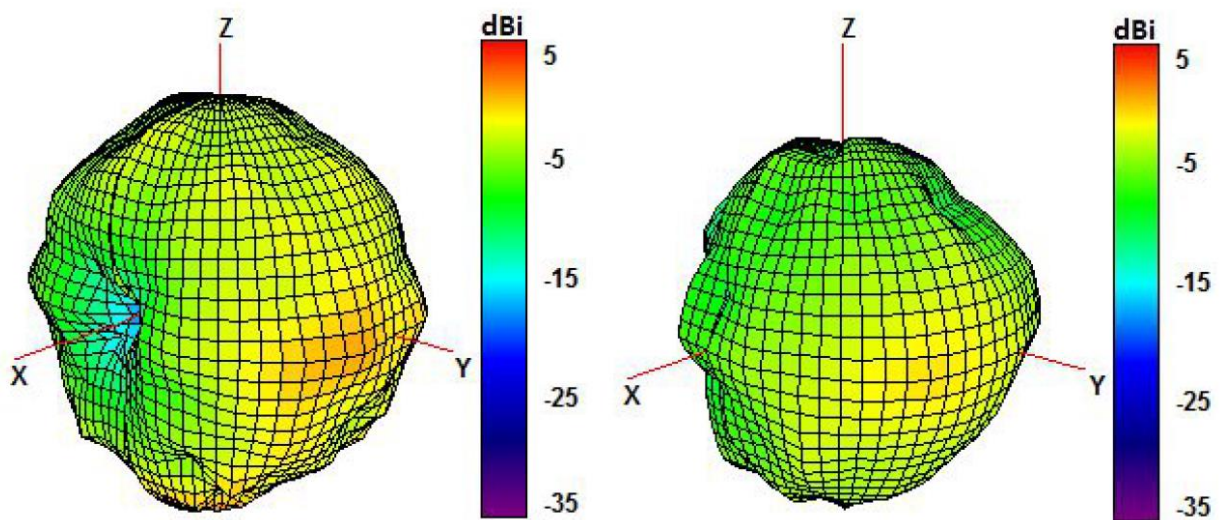
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern



1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern