

AMC-ANTELTDM01

Type Cellular/LTE dome antenna

Features

- Cellular/LTE:
 - 698 – 960MHz
 - 1710 – 2170MHz
 - 2500 – 2700MHz
- Magnetic mount
- Ground plane dependent
- Dimensions – 68.2 x 54 Ø mm
- IP67, IP69, IK09 ratings
- Customisable cable and connector



Certifications:



Alpha Micro UK: Tel: +44 1256 851770 | email: sales@alphamicro.net
www.alphamicro.net



1. Antenna and Electrical Specifications

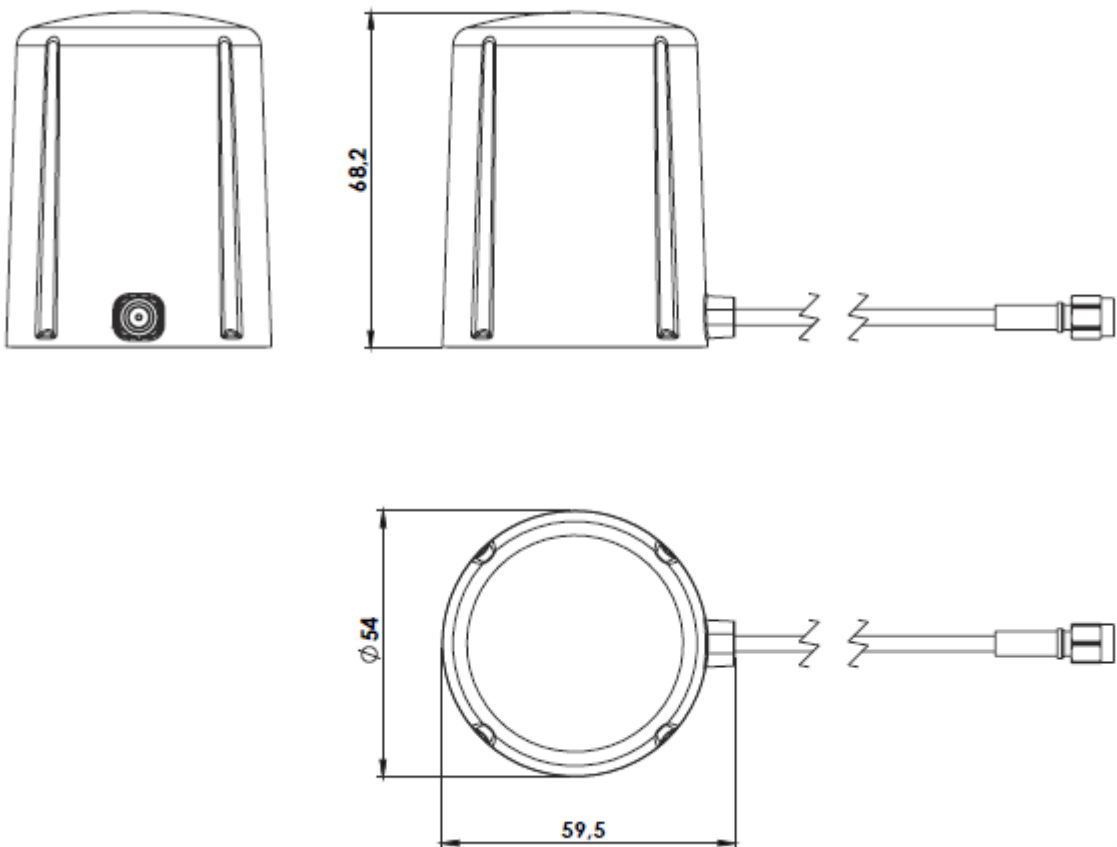
Parameters	Cellular/LTE antenna		
Standards	2G/3G/4G		
Band (MHz)	700/850/900	1700/1800/1900/2100	2600
Frequency (MHz)	698 - 960	1710 - 2170	2500 - 2700
Return loss (dB)	~-11.0	~-21.8	~-17.5
VSWR	~1.9:1	~1.2:1	~1.4:1
Efficiency (%)	~60.1	~68.0	~56.4
Peak gain (dBi)	~1.8	~3.1	~2.9
Average gain (dB)	~-2.2	~-1.7	~-2.5
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 metres standard (other lengths available)		
Cable Type	LMR100 standard (other cables available)		

Measurement Conditions:

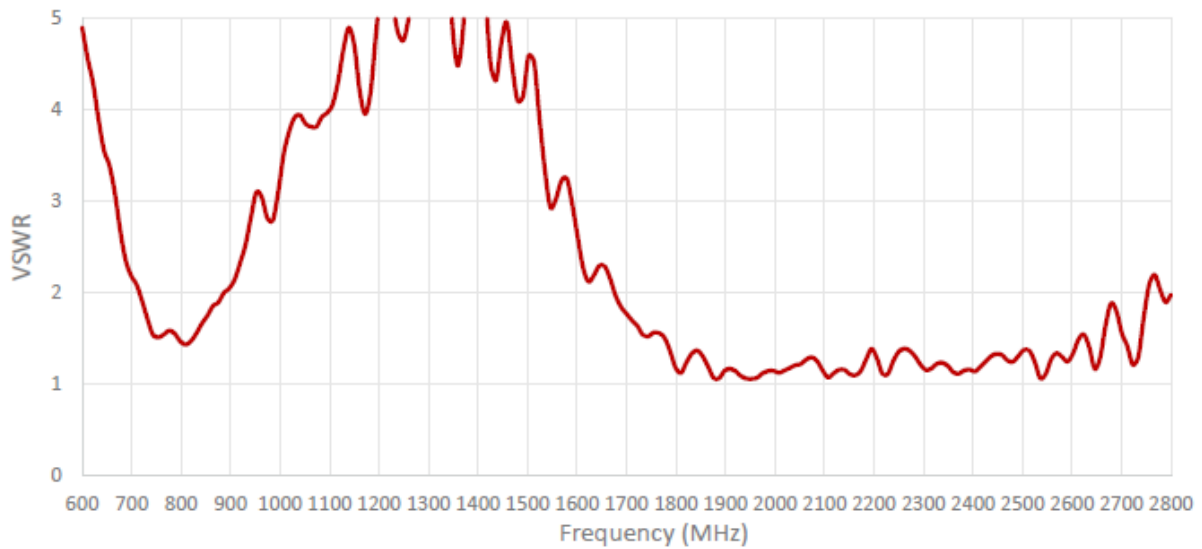
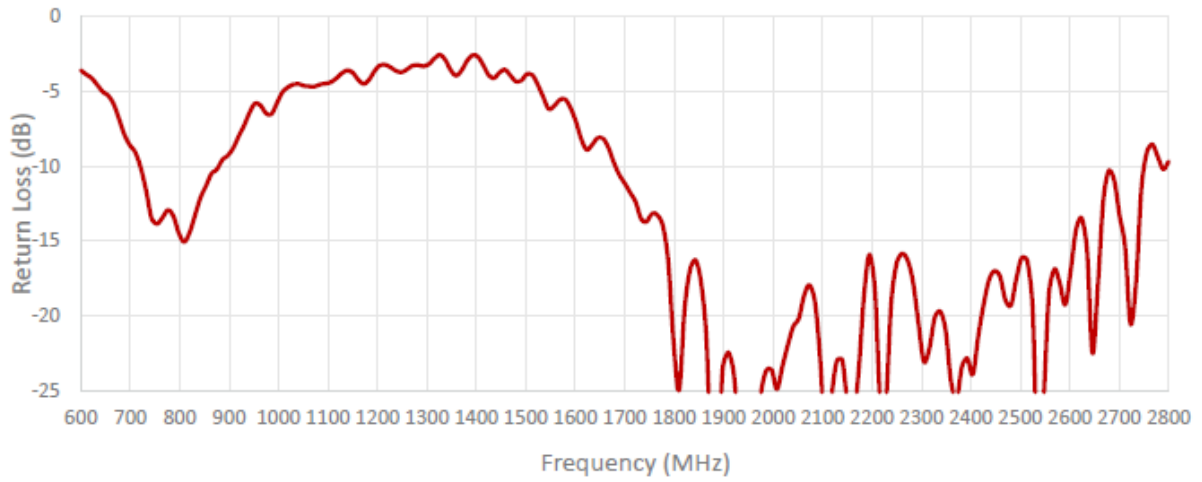
- Mounted on 30 x 30cm ground plane
- 2 metres LMR100 cable
- Measured in certified CTIA 3D Anechoic chamber

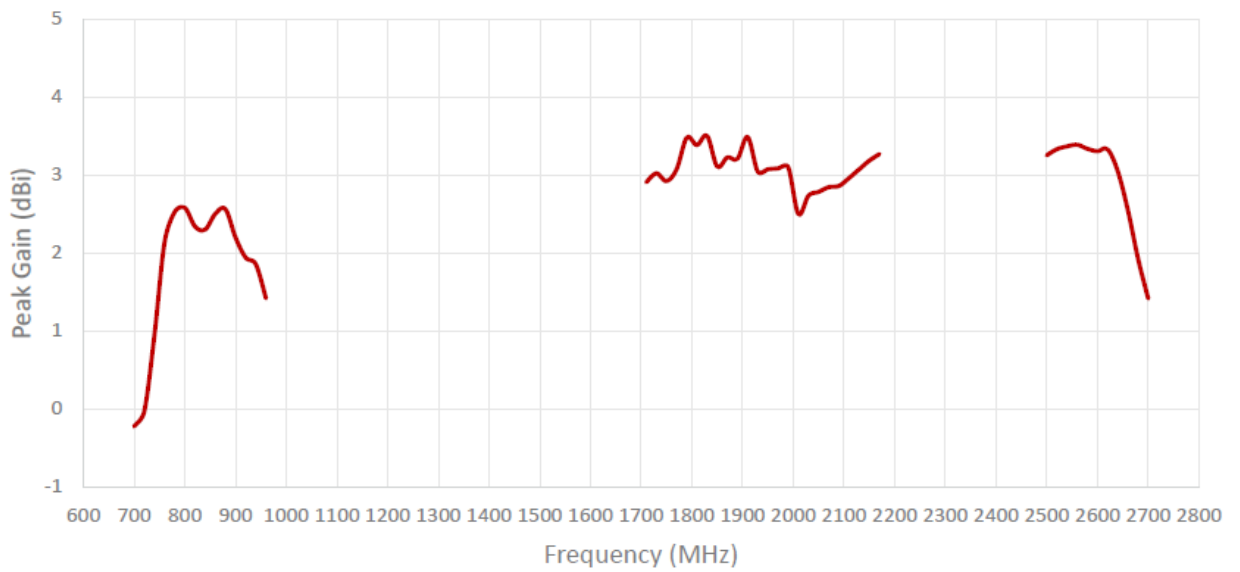
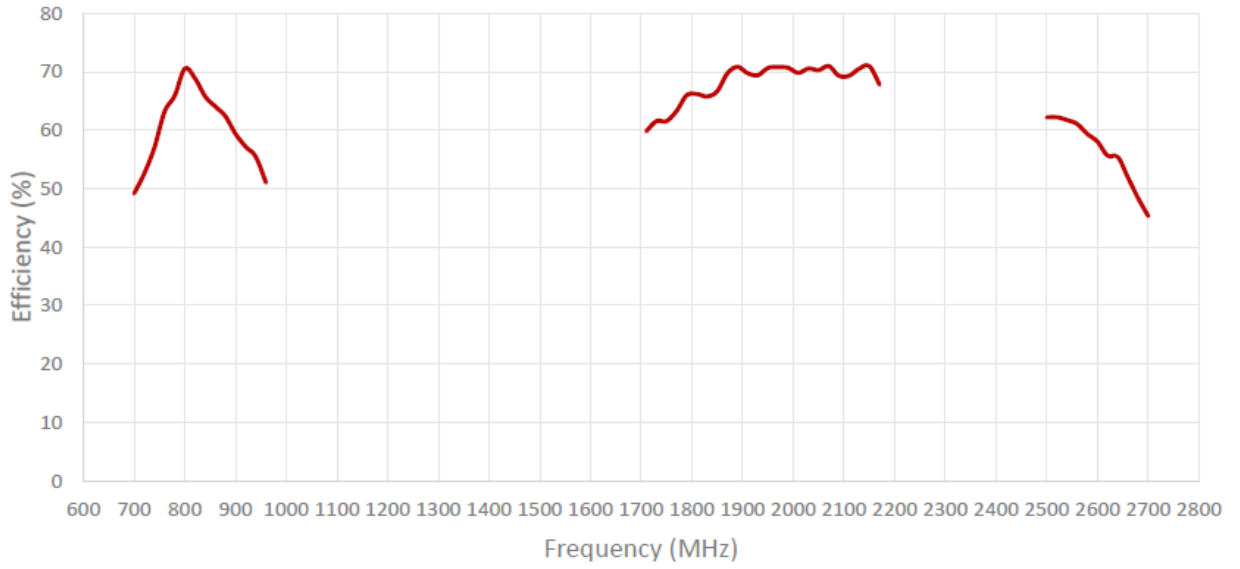
2. Mechanical and Environmental Specifications

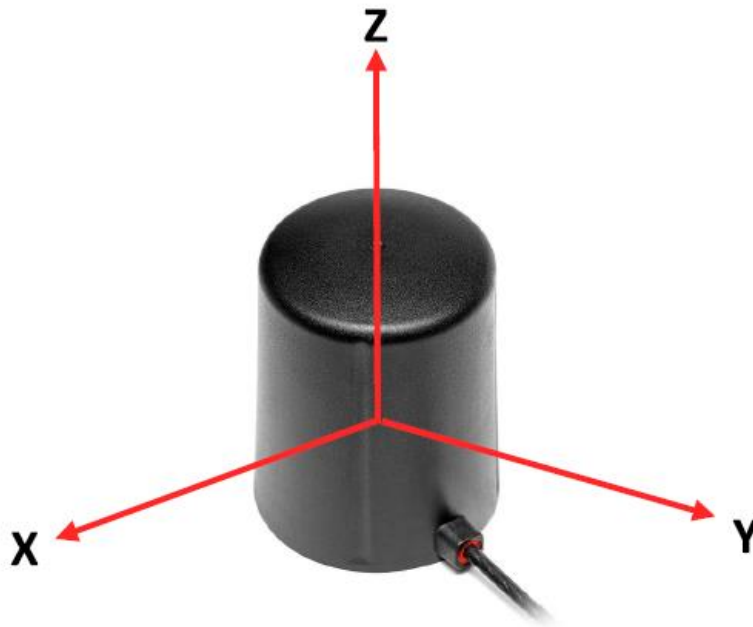
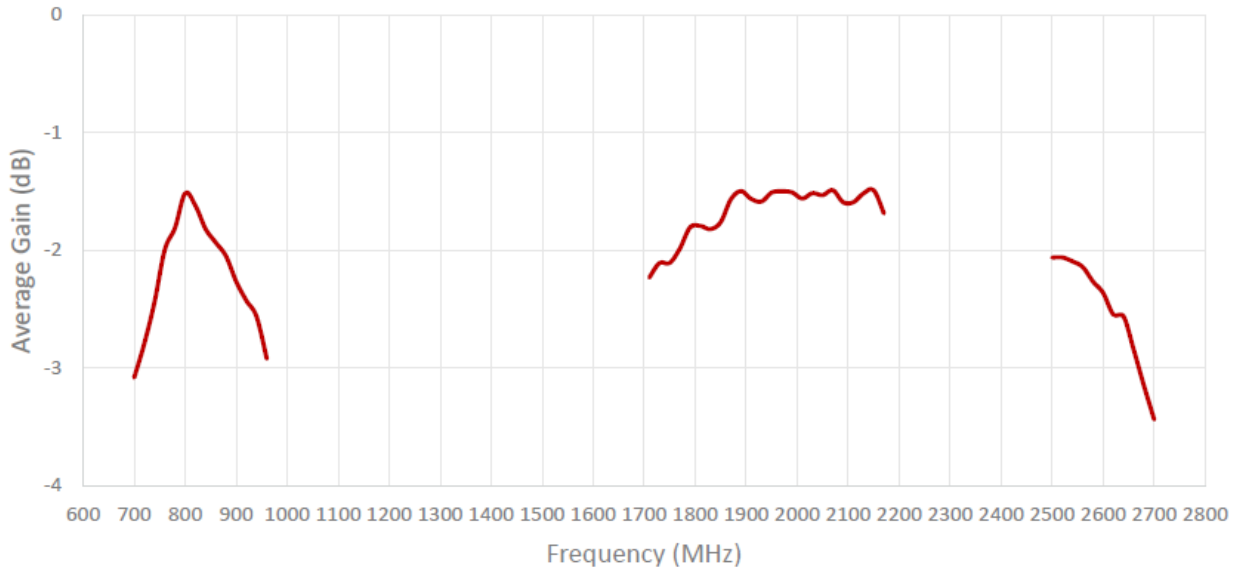
Mounting type	Magnetic mount
Dimensions (mm)	68.2 x 54 \varnothing
Radome Type	ASA
Radome Colour	Black
Antenna Base	Zamak
Operating temperature (°C)	-40 to +85
Storage temperature (°C)	-40 to +85
Substance compliance	RoHS
Certificates	IP67, IP69, IK09



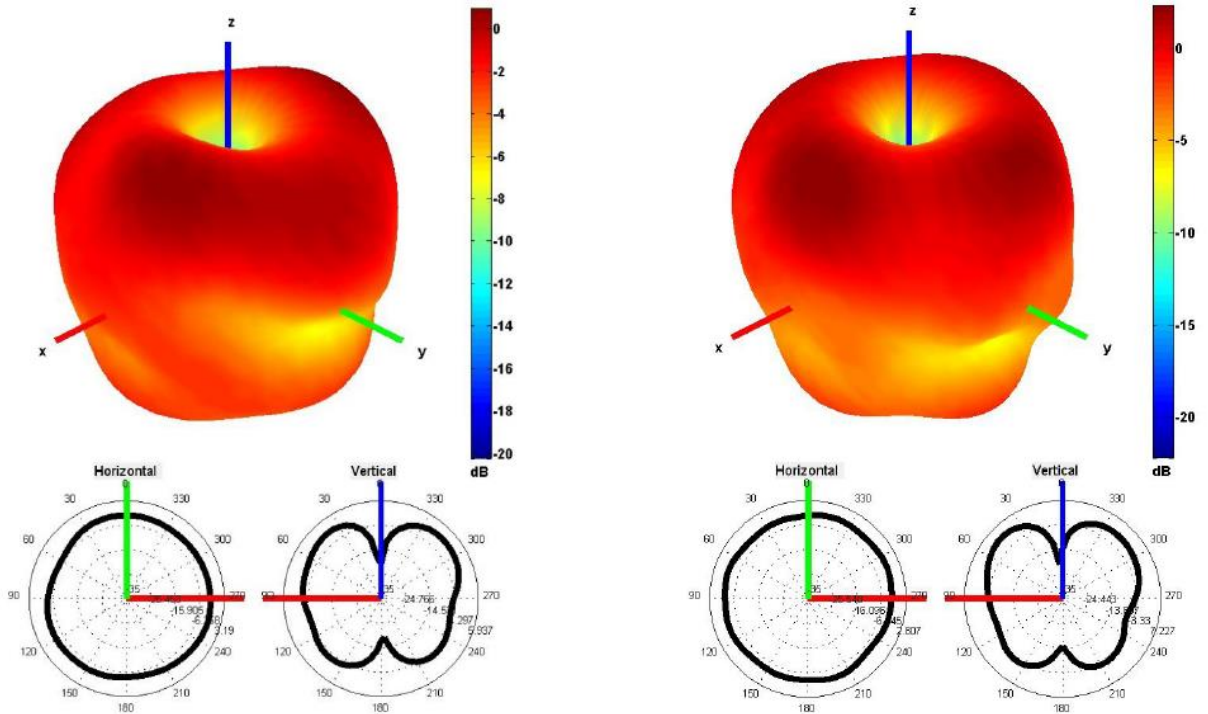
3. Antenna Parameters



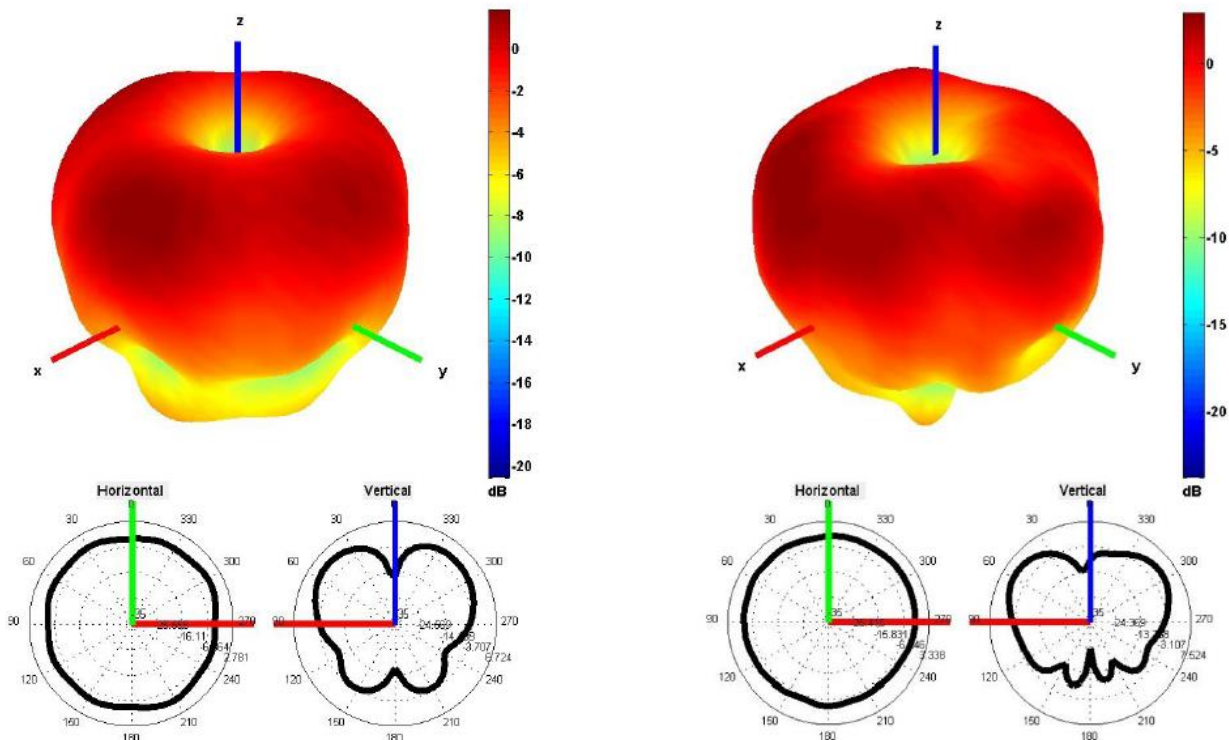




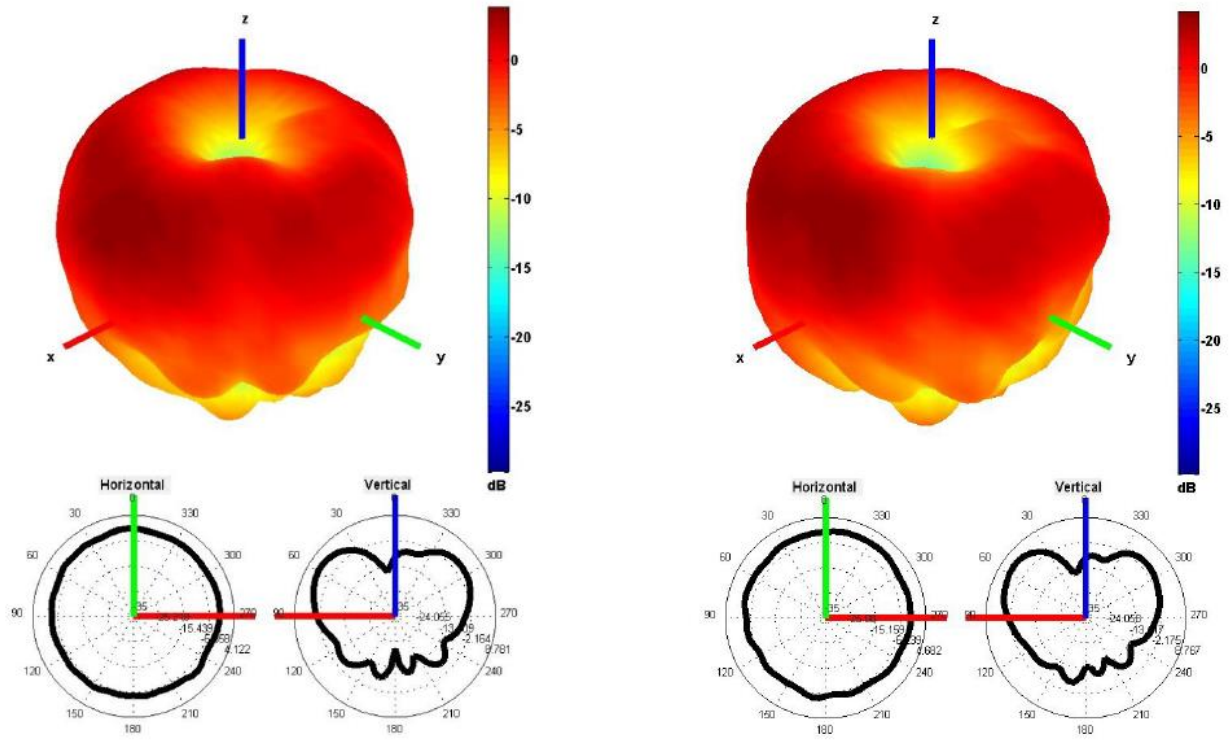
Radiation pattern reference



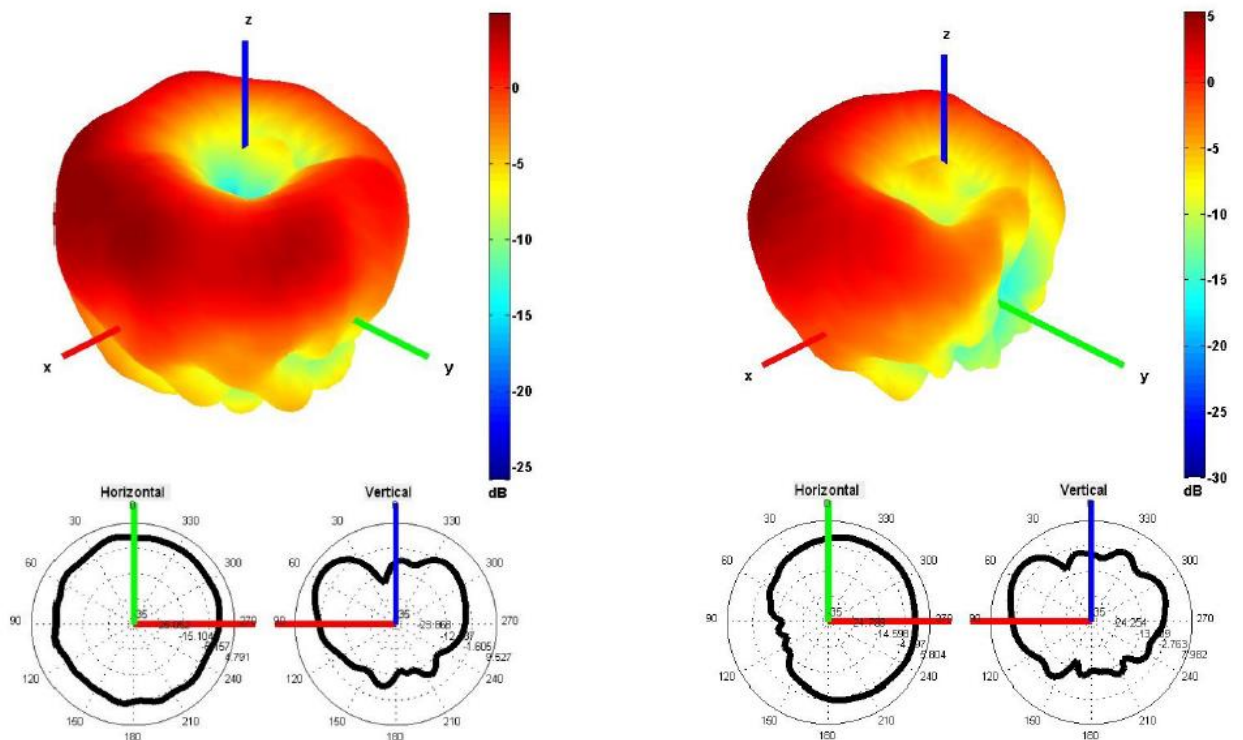
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern



1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern