

2J7A24Bc

CELLULAR/LTE MIMO Screw Mount

Key Features

- Cable 1 - 4: CELLULAR / LTE
- Screw Mount
- Heavy Duty antenna
- Lightweight Plastic Base
- High Performance
- Ground Plane Independent
- Customizable Cable and Connector
- Dimensions: Ø 96 x H 90 mm
- Certificates: IP67, IP69, IK09



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)	~-6.5	~-11.1	~-14.4
VSWR	~2.8:1	~1.9:1	~1.6:1
Efficiency (%)	~30.7	~41.2	~56.1
Peak Gain (dBi)	~-1.5	~3.2	~6.5
Average Gain (dB)	~-5.3	~-3.9	~-2.5
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	LL195 Standard (Other Cables Available)		

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)	~-6.6	~-11.4	~-12.5
VSWR	~2.8:1	~1.8:1	~1.7:1
Efficiency (%)	~31.5	~40.0	~55.4
Peak Gain (dBi)	~-0.9	~3.0	~5.0
Average Gain (dB)	~-5.0	~-4.0	~-2.7
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	LL195 Standard (Other Cables Available)		

Antenna Measurement Conditions:

Mounted on Metal Plate of 30 x 30 cm
 200 cm of LL195 Cable
 Measured in Certified CTIA 3D Anechoic Chamber

1. Antenna and electrical specifications

Cable 3

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)	~-6.6	~-11.2	~-12.9
VSWR	~2.8:1	~1.8:1	~1.7:1
Efficiency (%)	~30.8	~41.0	~55.0
Peak Gain (dBi)	~-1.3	~3.1	~5.7
Average Gain (dB)	~-5.3	~-3.9	~-2.7
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	LL195 Standard (Other Cables Available)		

Cable 4

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)	~-6.5	~-11.2	~-13.0
VSWR	~2.9:1	~1.8:1	~1.7:1
Efficiency (%)	~30.8	~41.4	~55.1
Peak Gain (dBi)	~-0.6	~3.3	~5.3
Average Gain (dB)	~-5.3	~-3.9	~-2.7
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	LL195 Standard (Other Cables Available)		

Antenna Measurement Conditions:

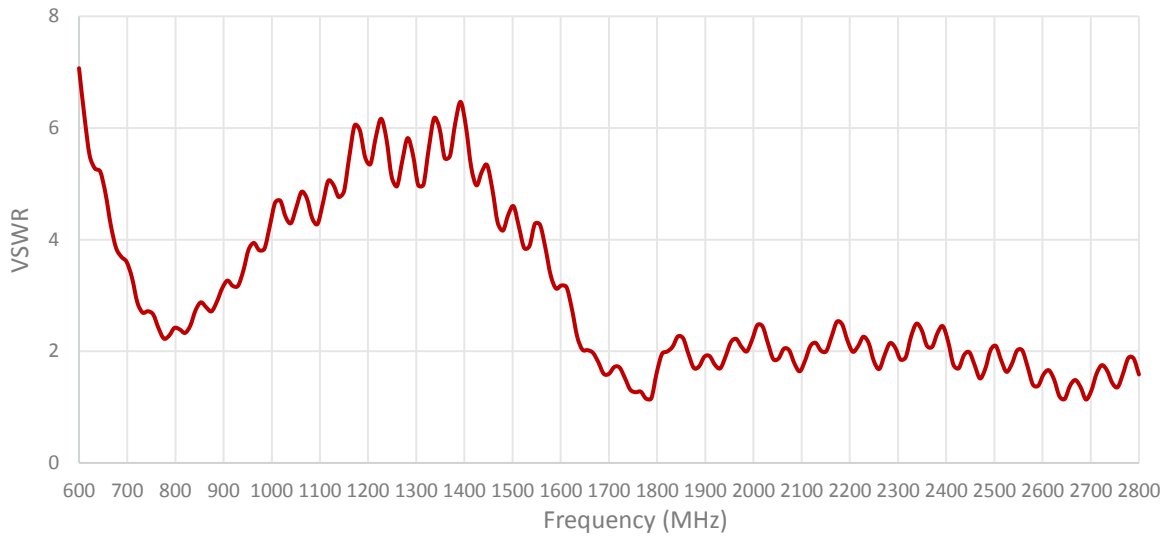
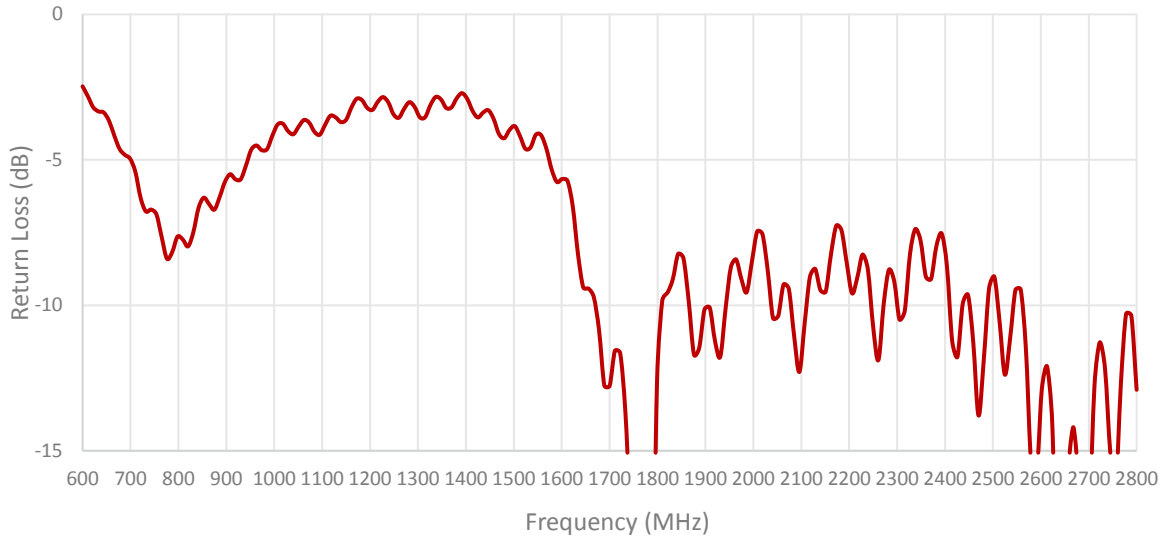
Mounted on Metal Plate of 30 x 30 cm
 200 cm of LL195 Cable
 Measured in Certified CTIA 3D Anechoic Chamber

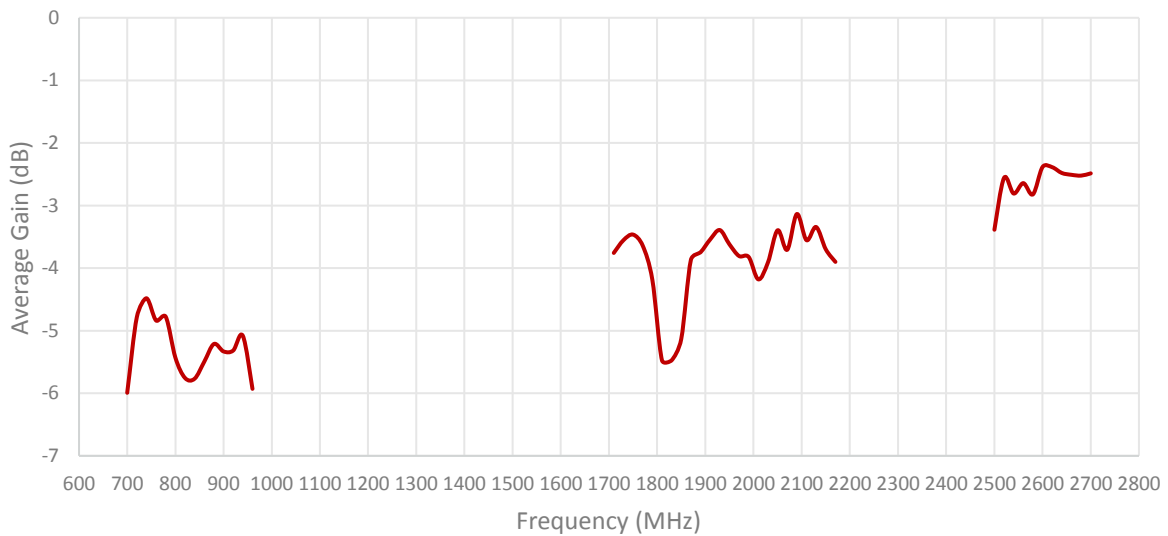
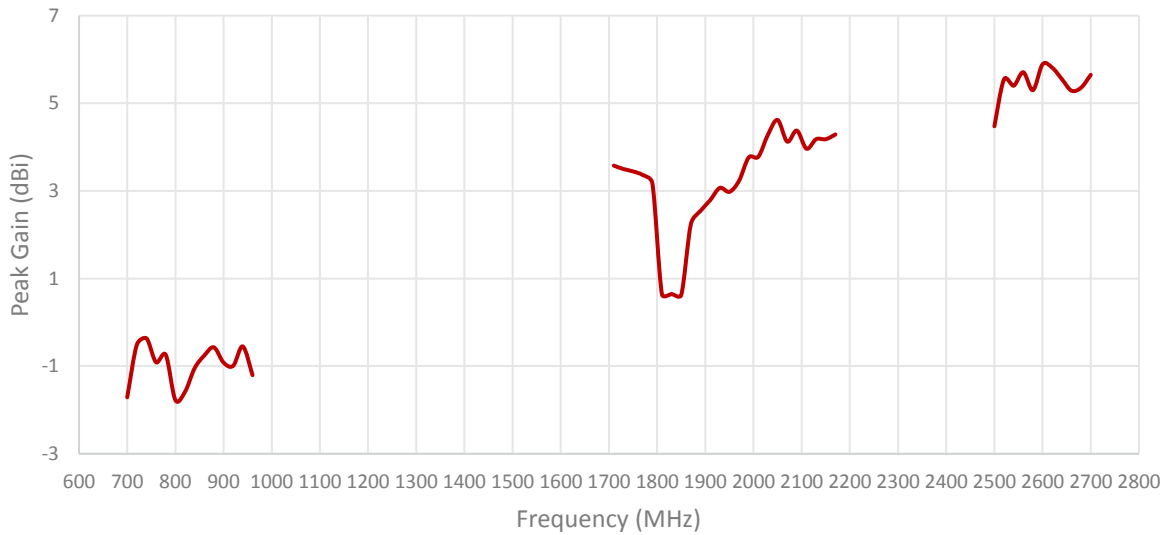
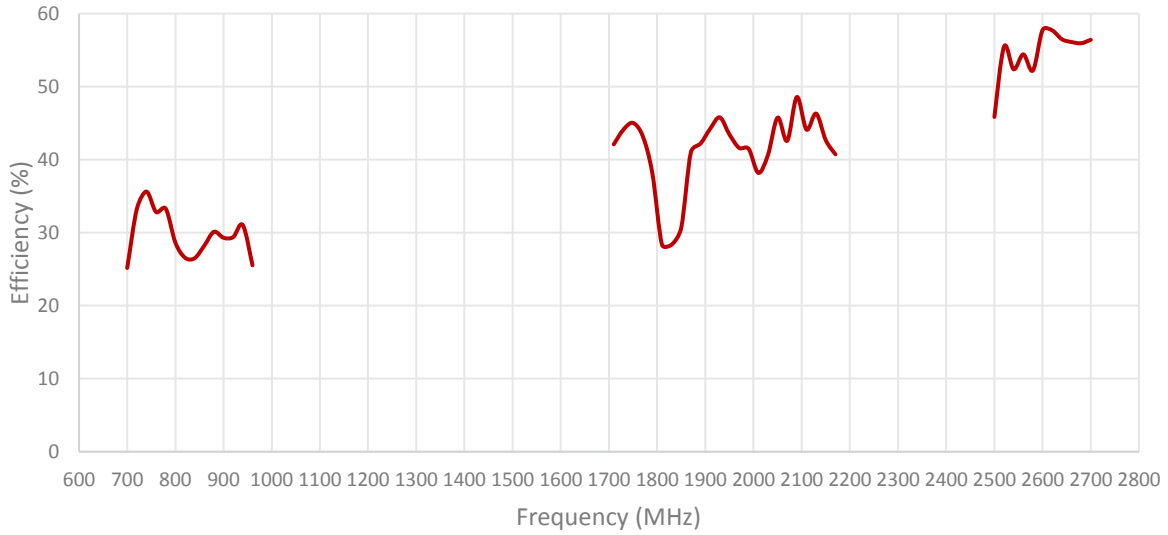
2. Mechanical and environmental specifications

Specifications	2J7A24Bc
Mounting Type	Screw Mount
Dimensions (mm)	Ø 96 x H 90
Max. Tighten Torque (Nm)	6 Nm
Radome	ASA
Radome color	White, Black
Antenna Base	ASA
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67, IP69, IK09

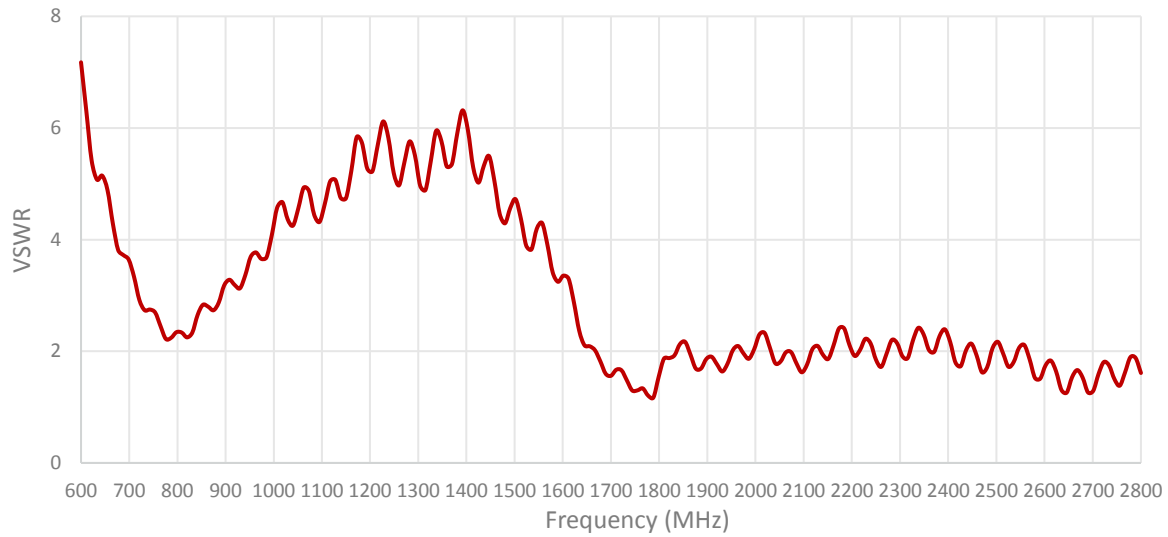
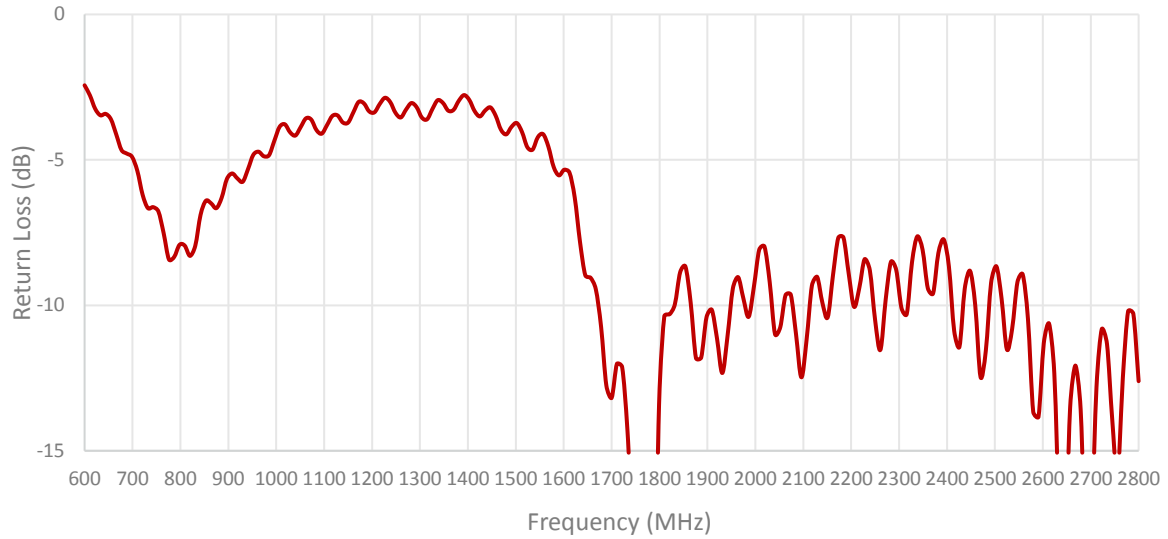
3. Antenna parameters

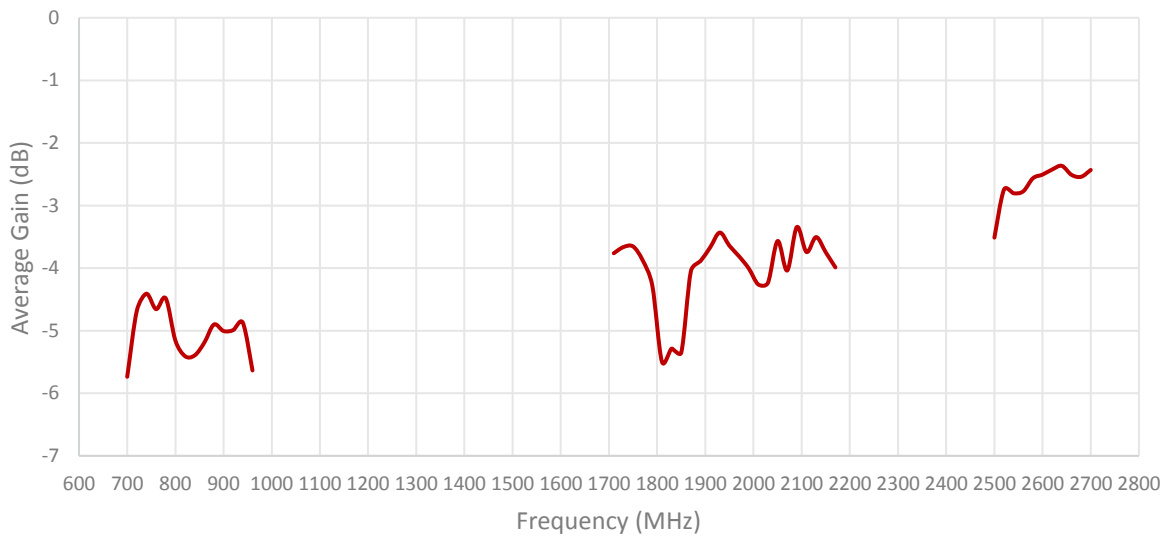
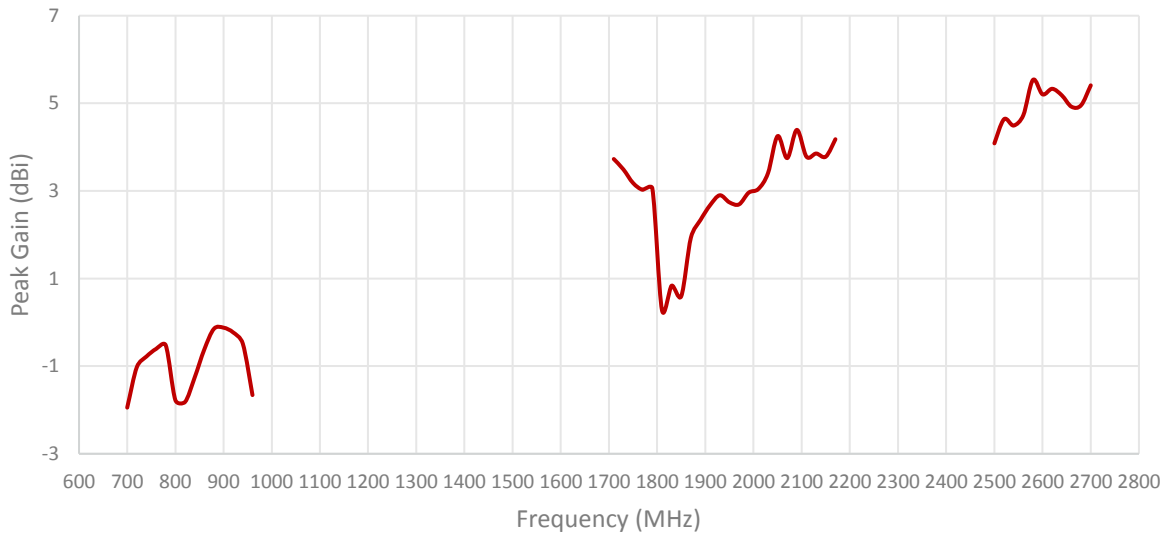
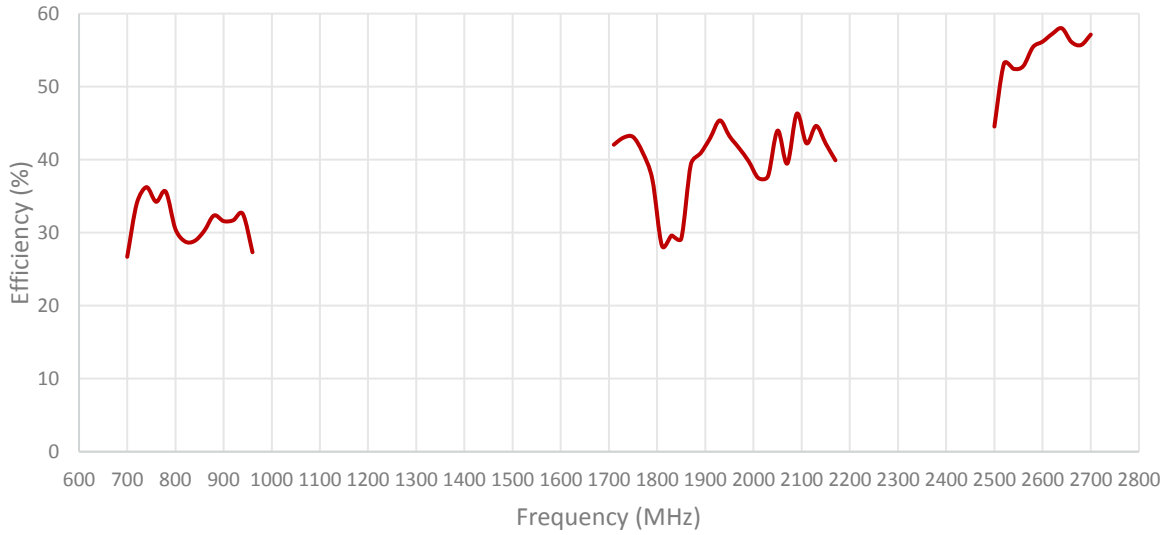
Table 1: CELLULAR/LTE



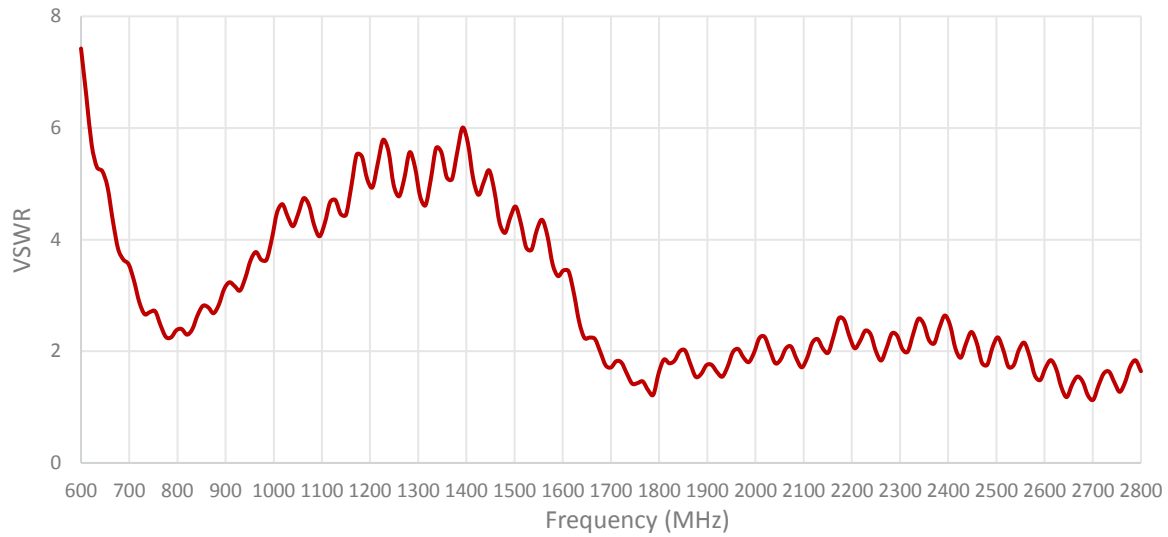
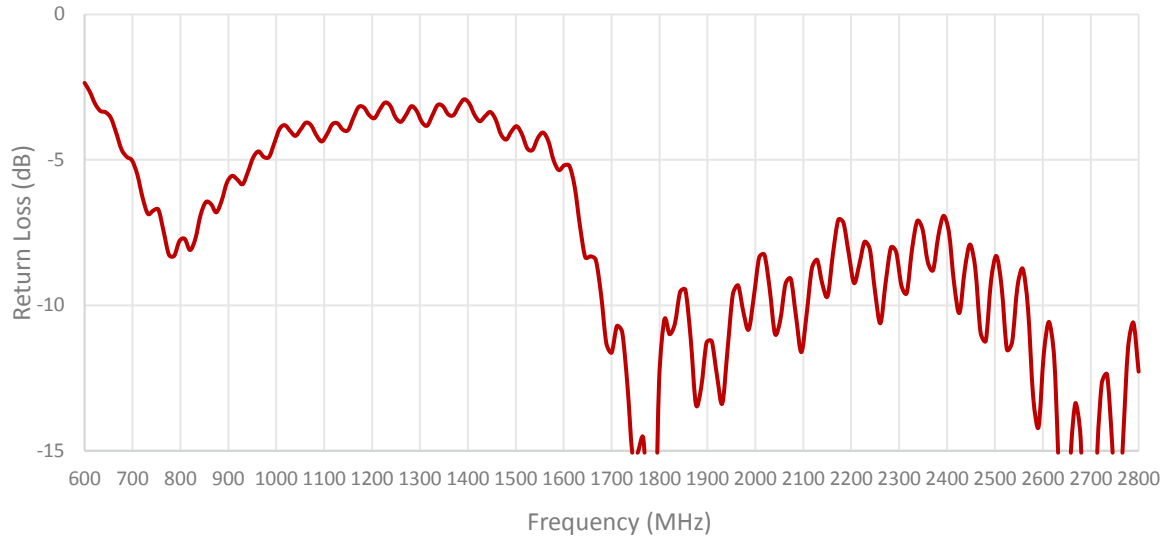


Cable 2: CELLULAR/LTE





Cable 3: CELLULAR/LTE



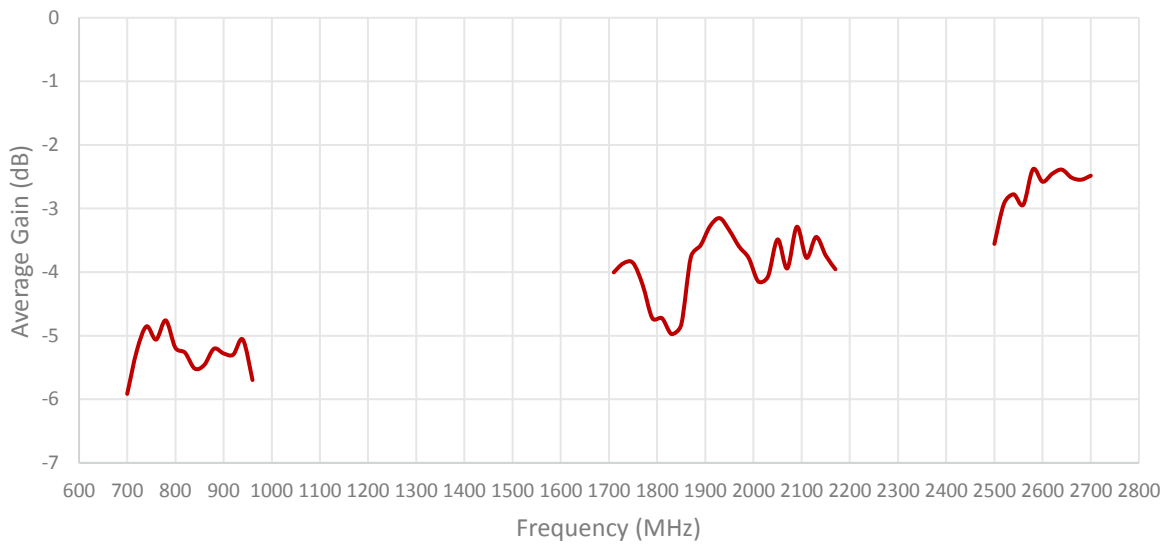
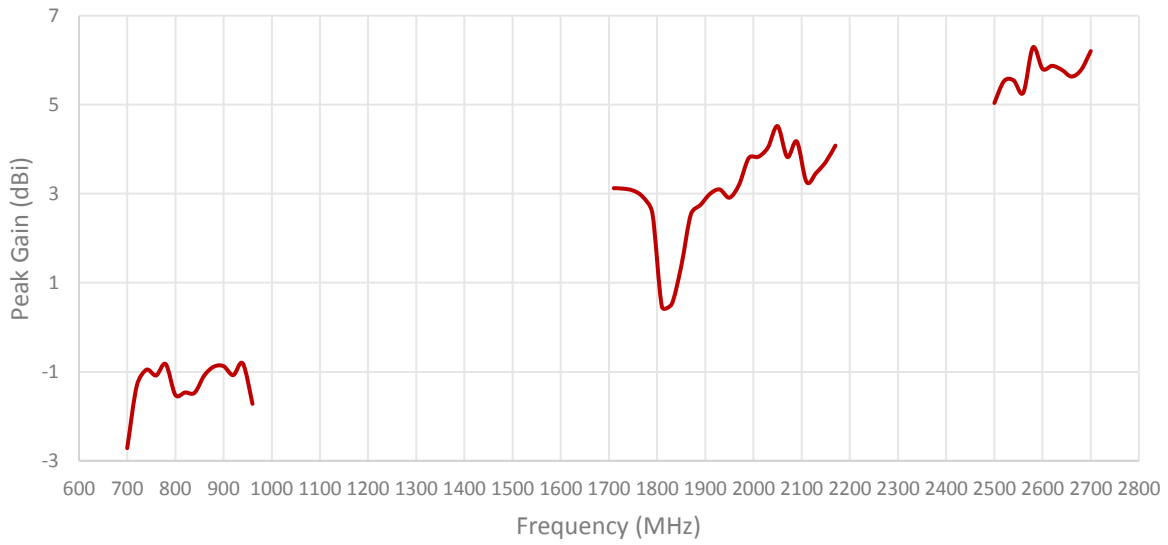
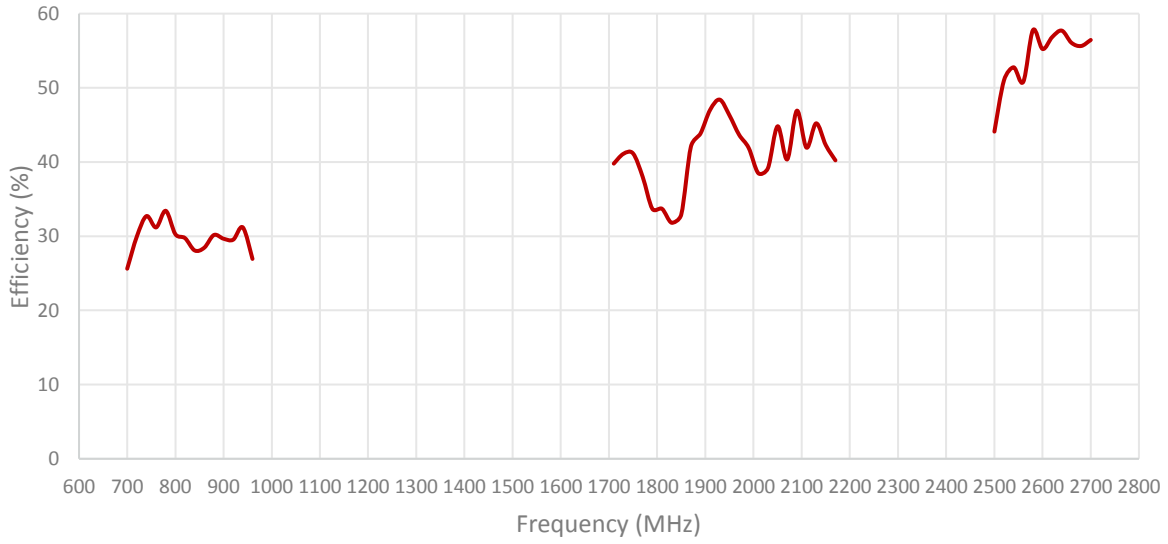
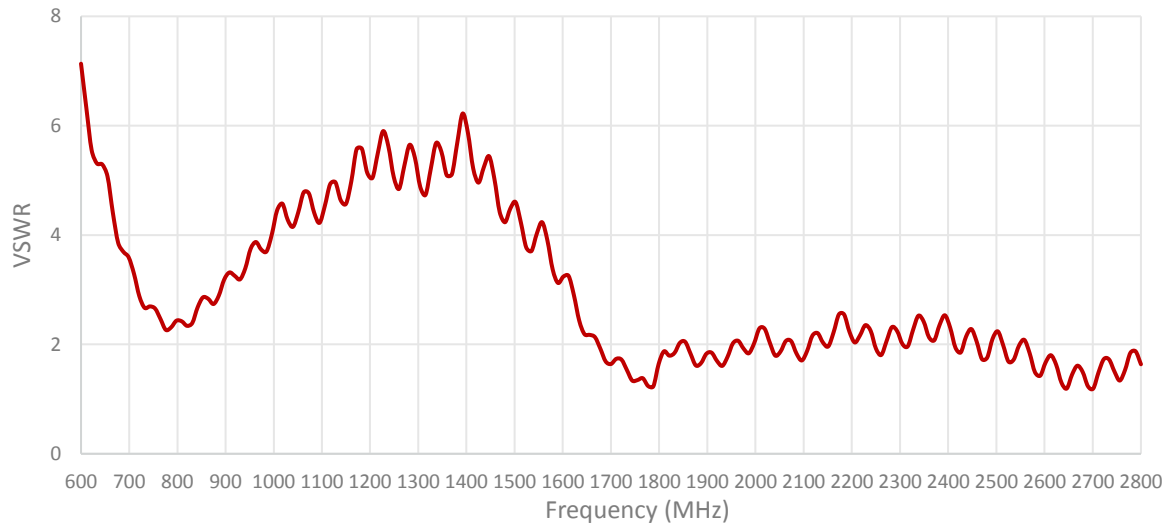
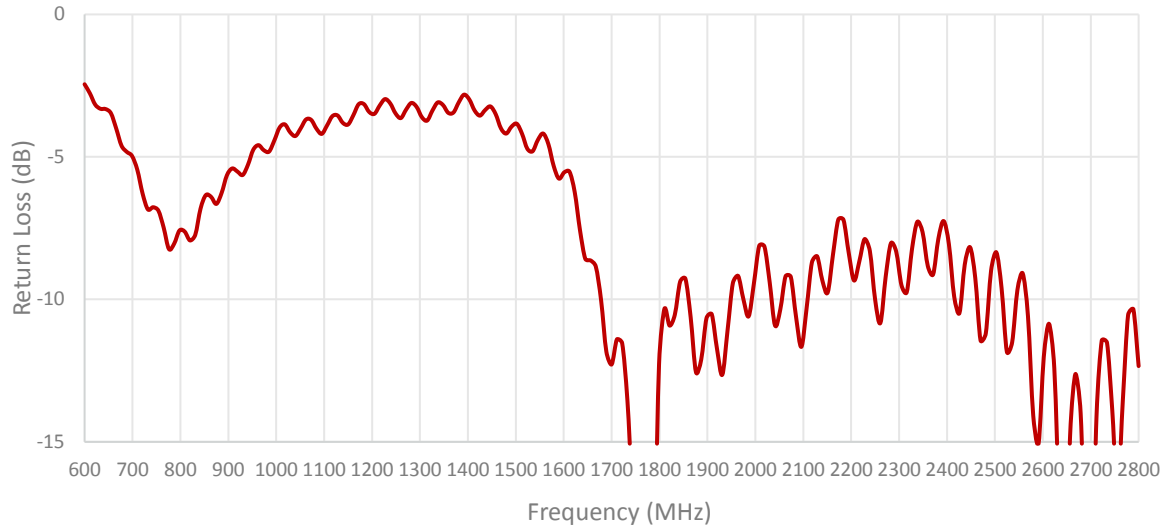
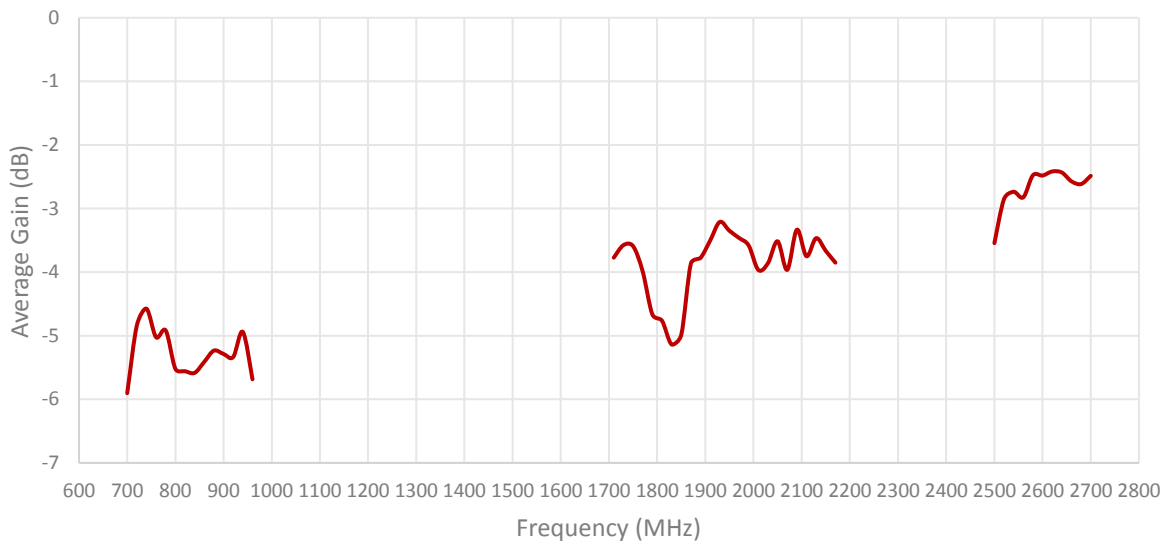
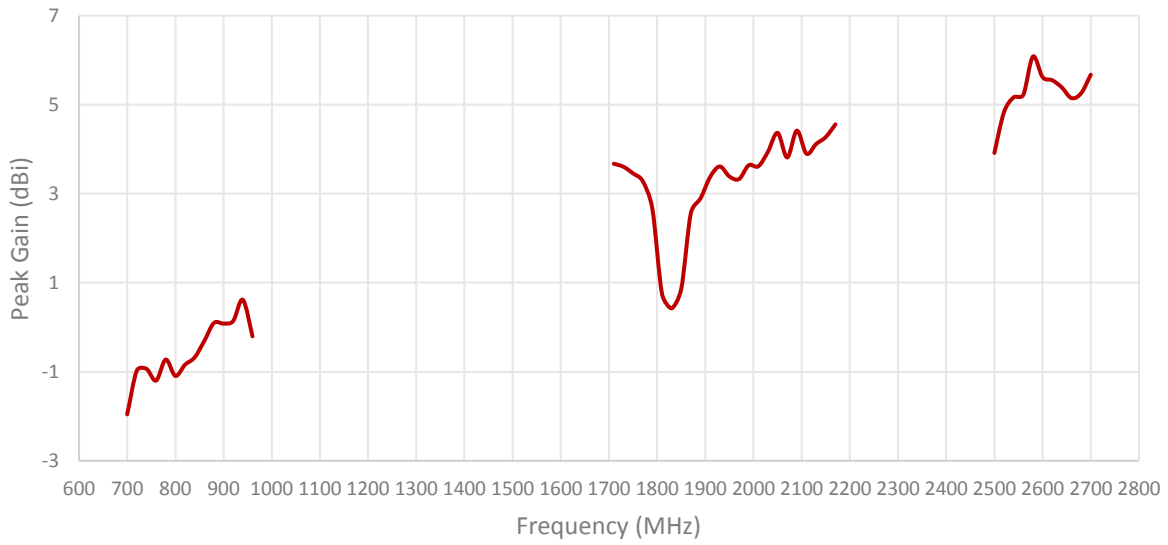
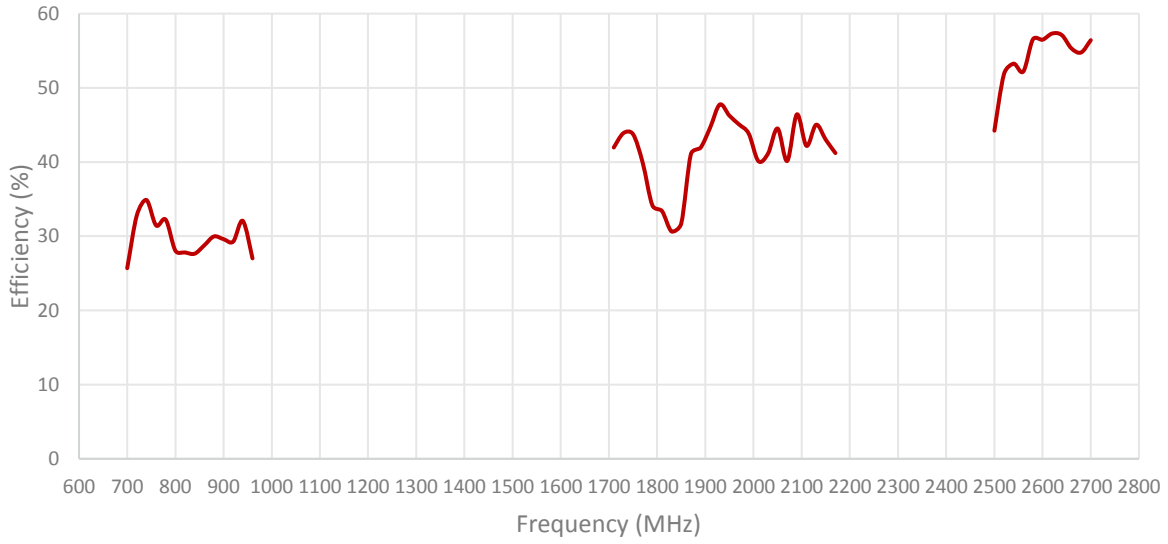
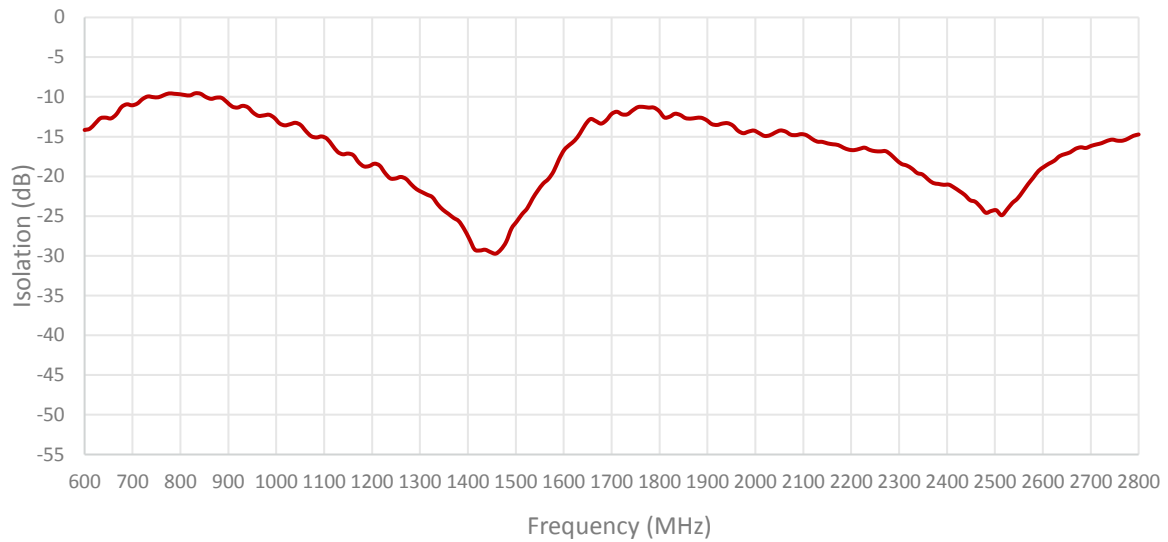


Table 4: CELLULAR/LTE

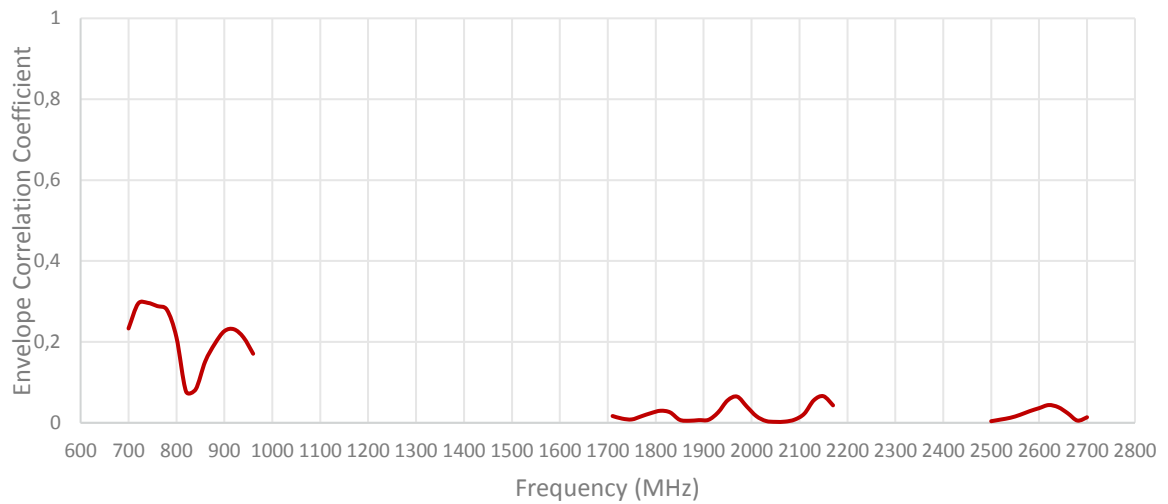




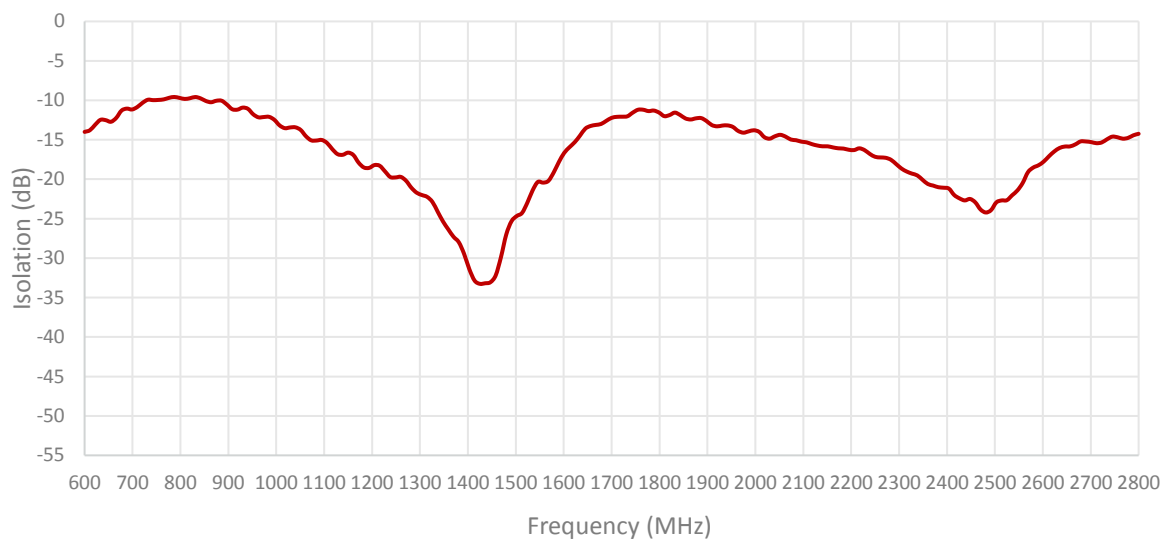
ISOLATION FOR CABLES 1 AND 3



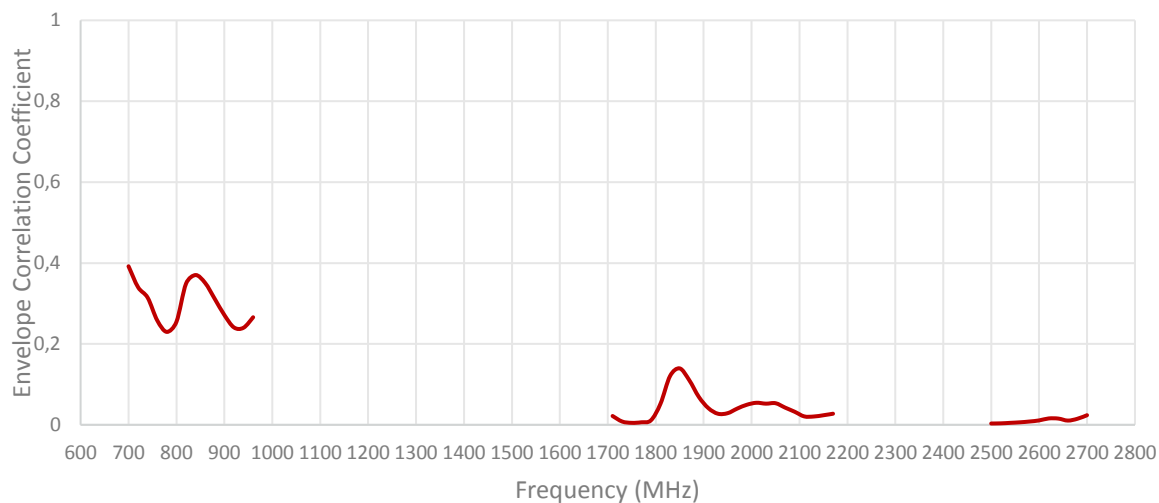
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 3



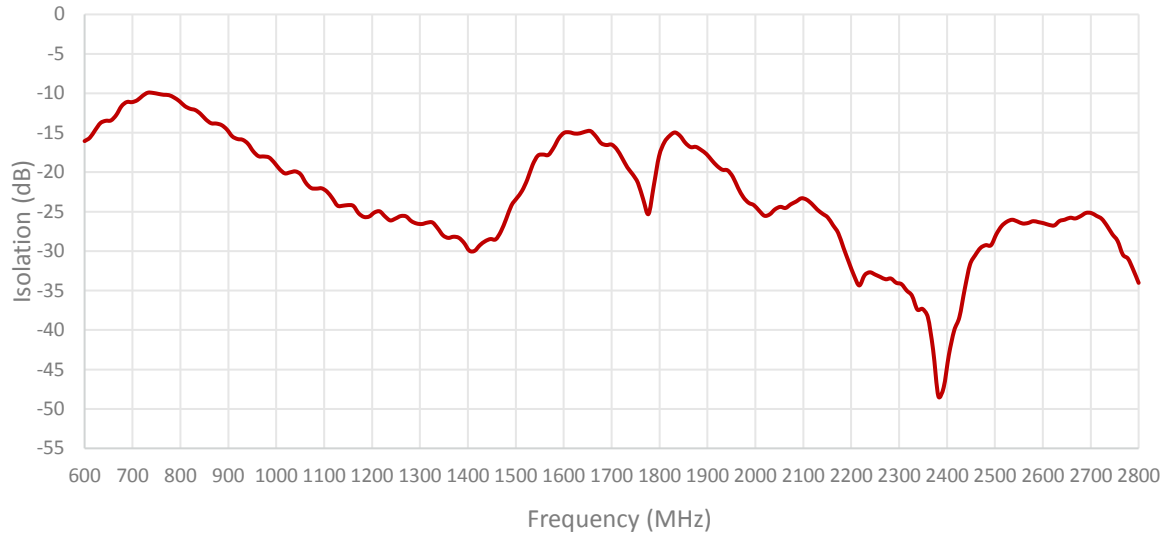
ISOLATION FOR CABLES 1 AND 4



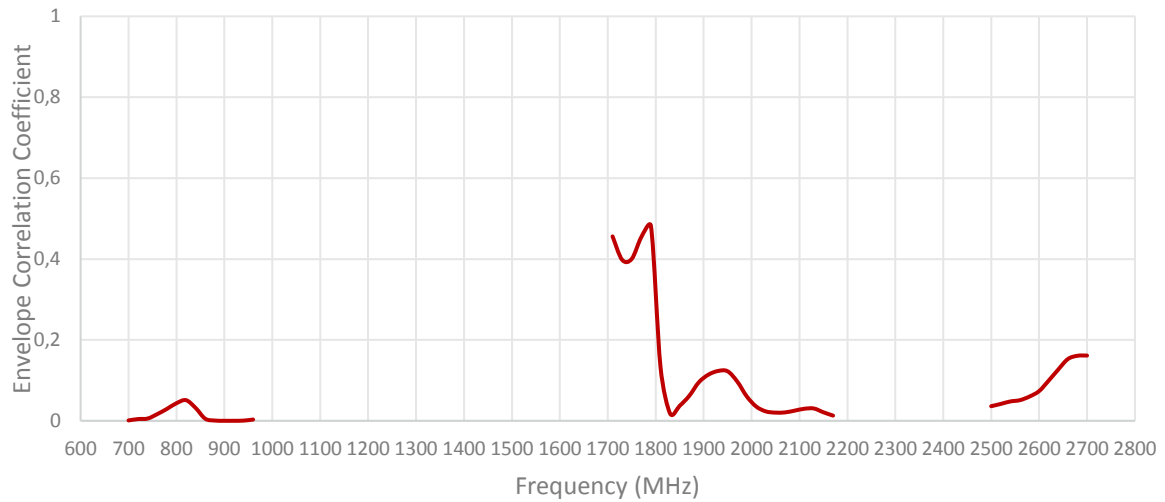
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 4



ISOLATION FOR CABLES 3 AND 4



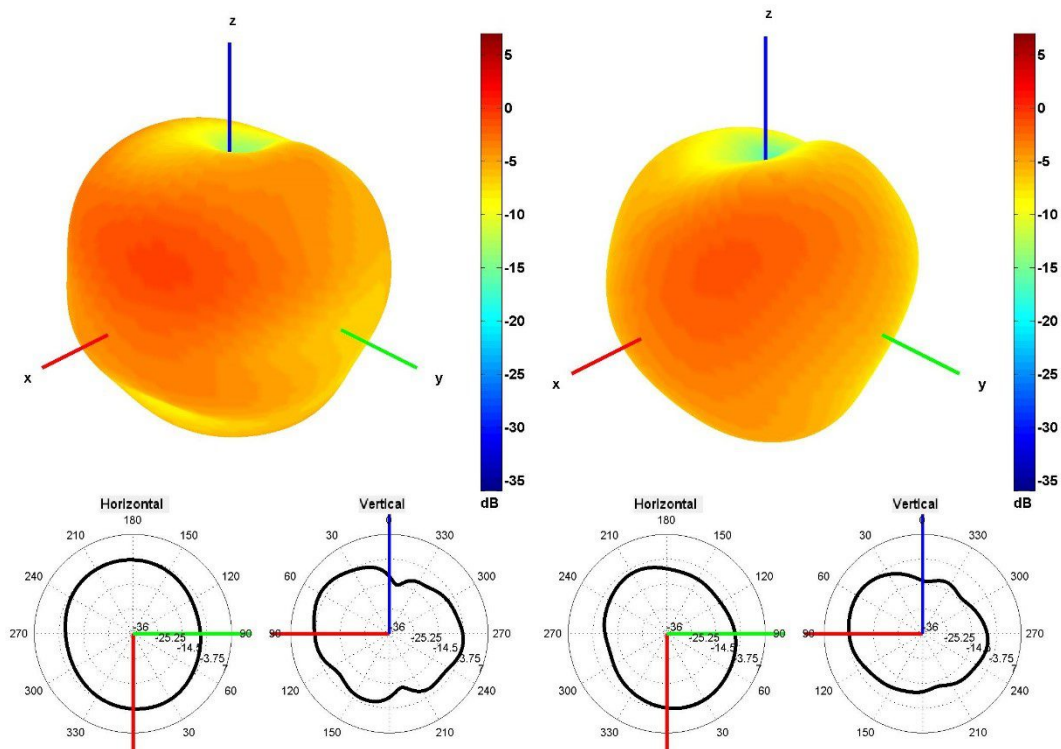
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 3 AND 4



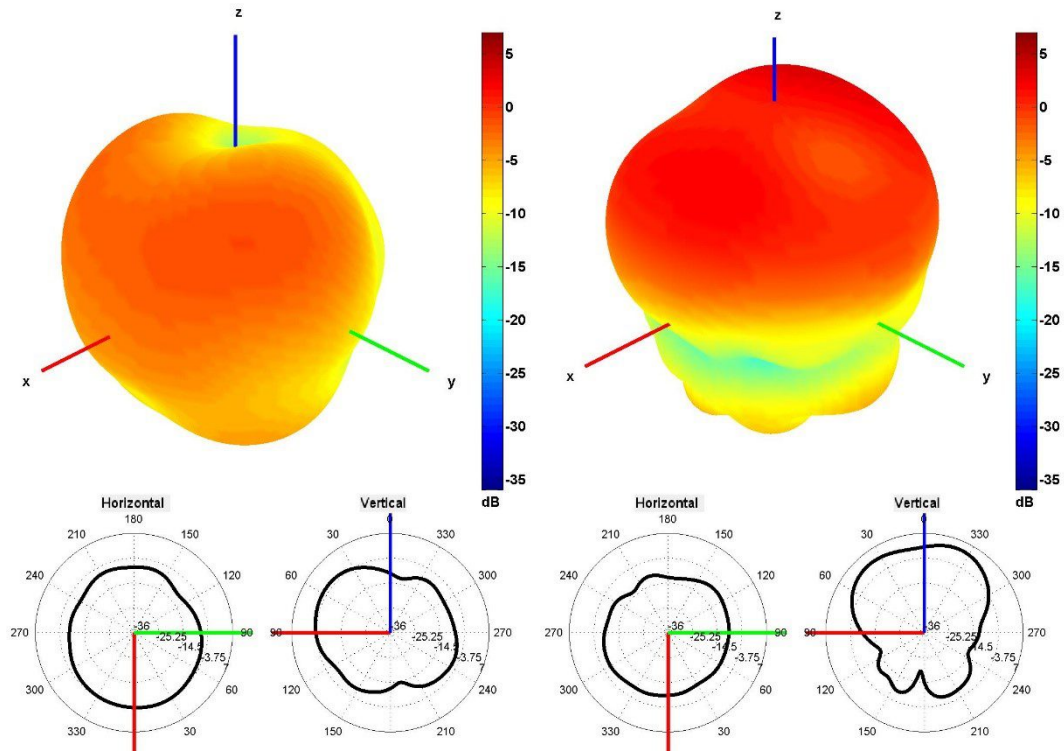


Radiation pattern reference

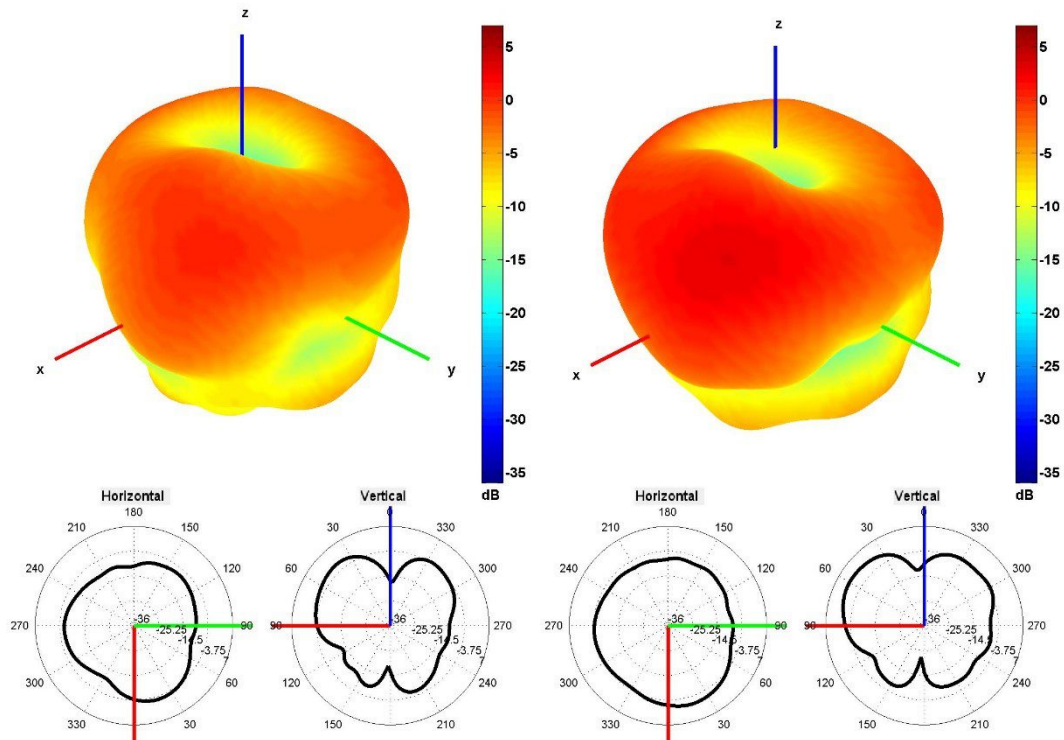
Table 1: CELLULAR/LTE



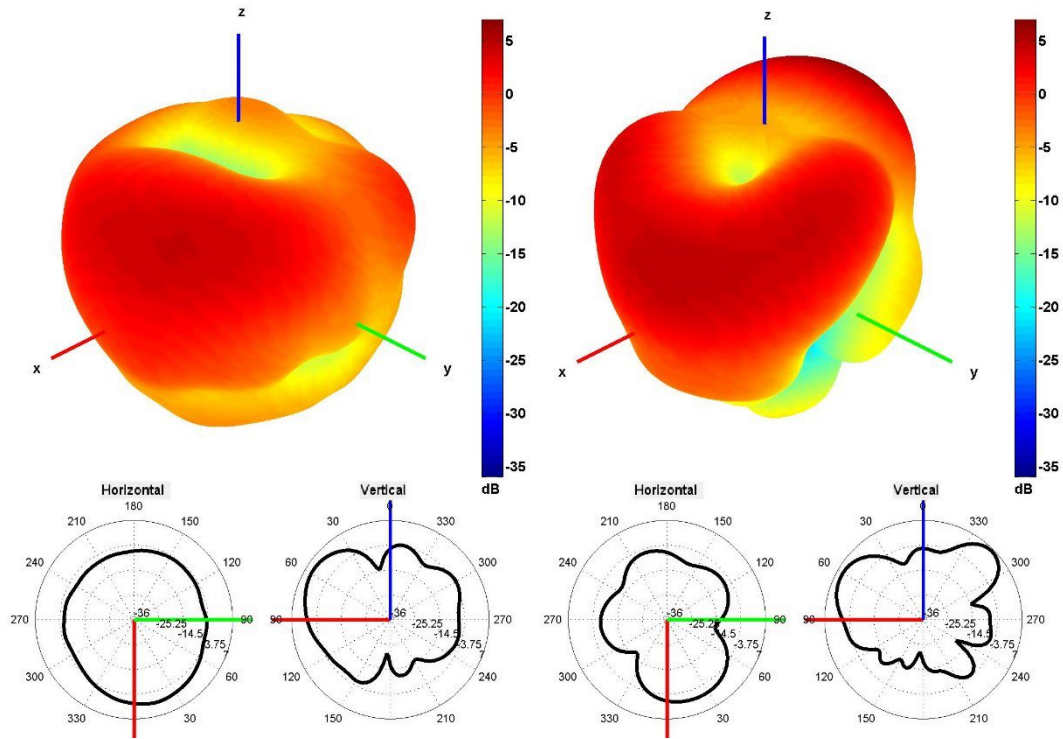
740 and 840 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

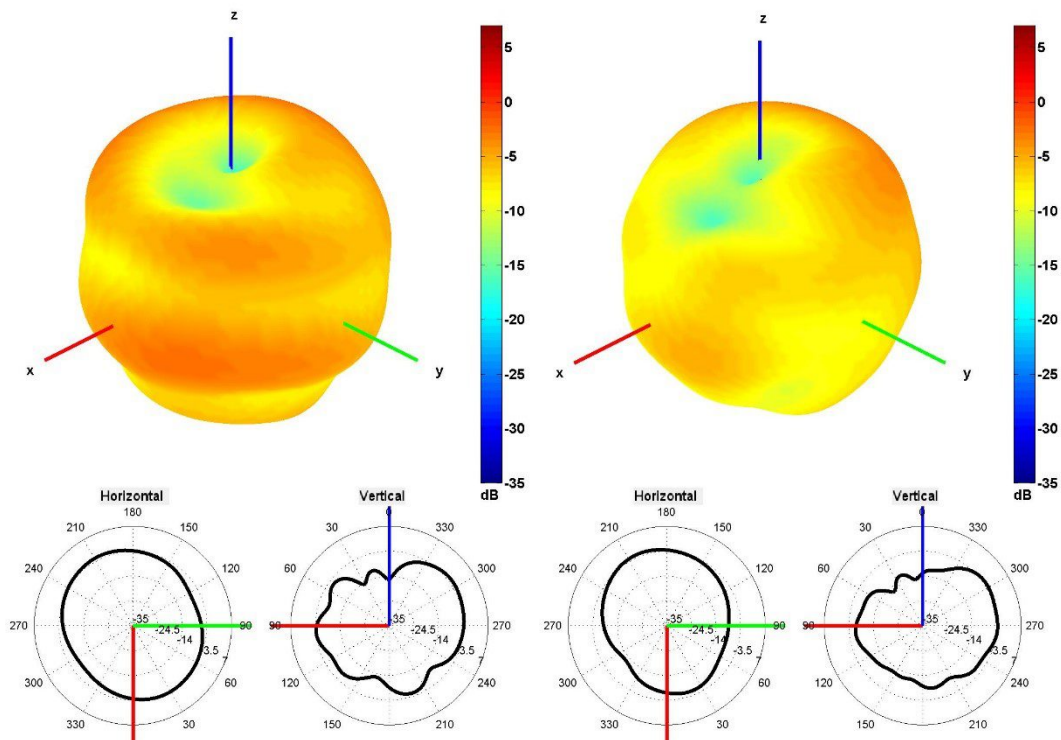


1850 and 1950 MHz Radiation pattern

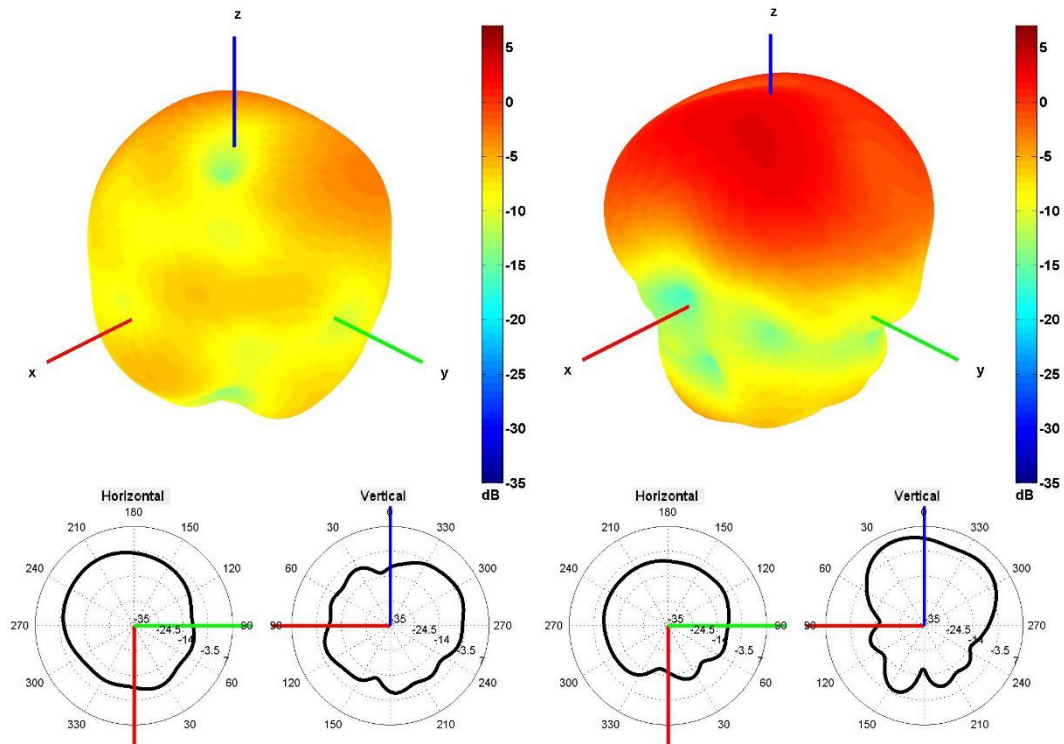


2100 and 2600 MHz Radiation pattern

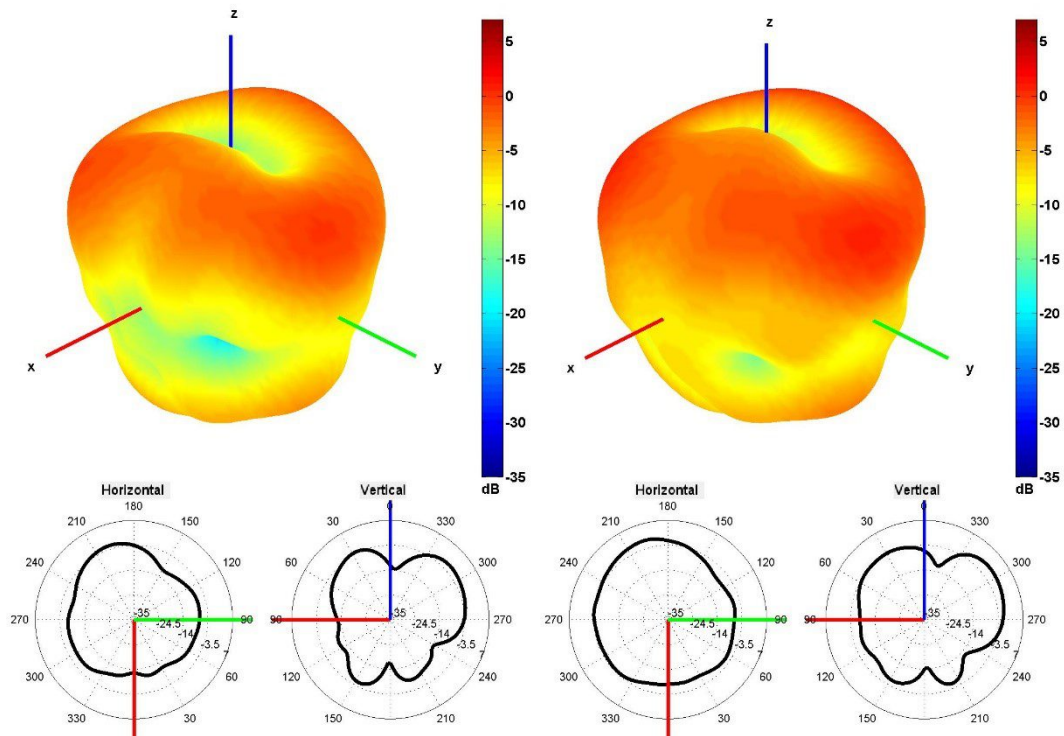
Table 2: CELLULAR/LTE



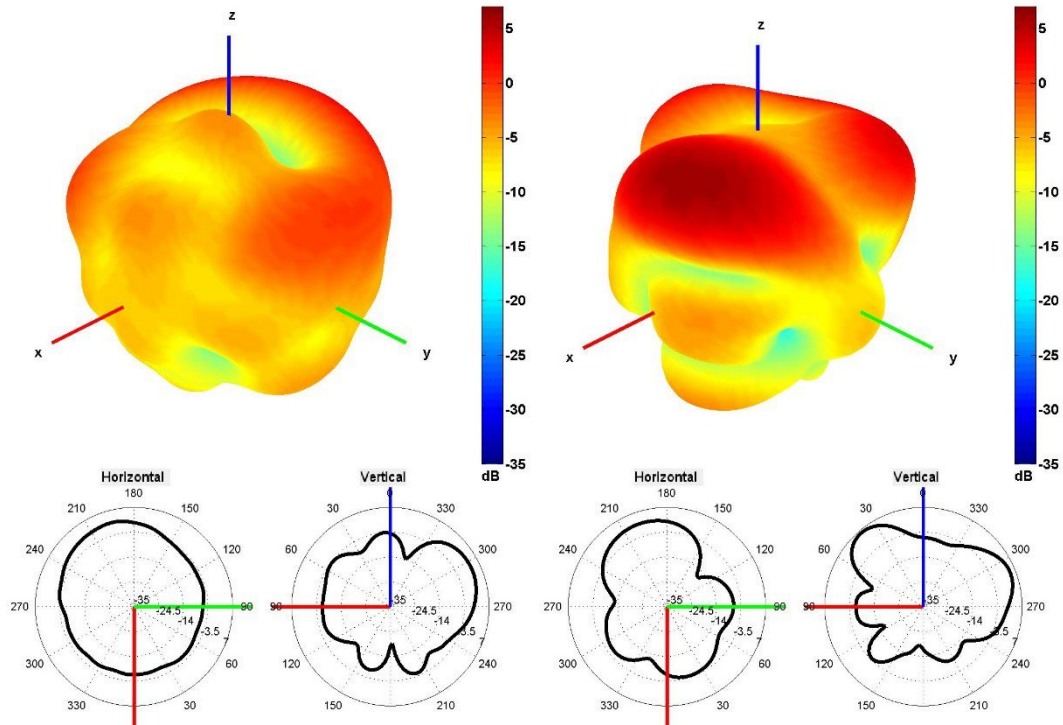
740 and 840 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

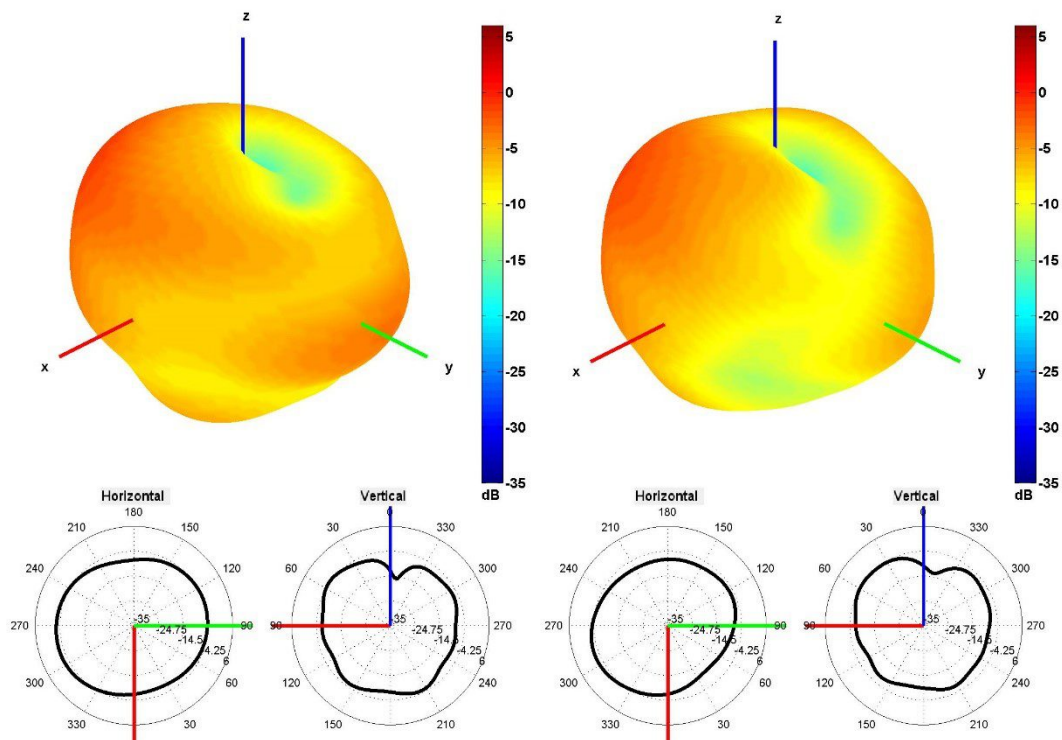


1850 and 1950 MHz Radiation pattern

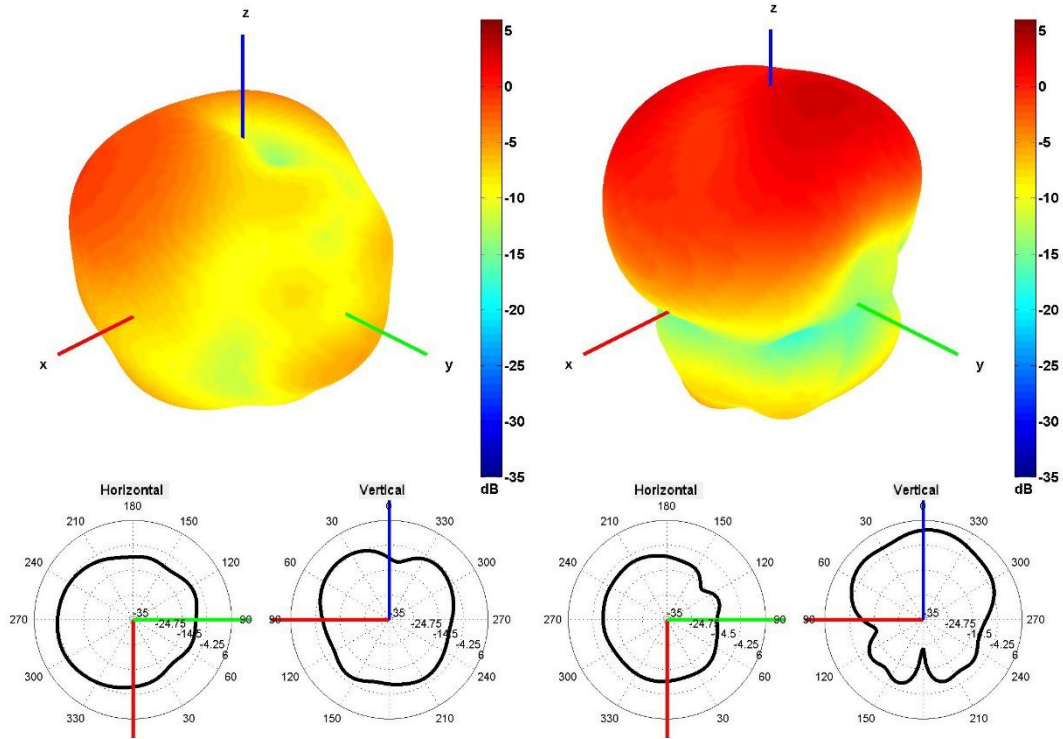


2100 and 2600 MHz Radiation pattern

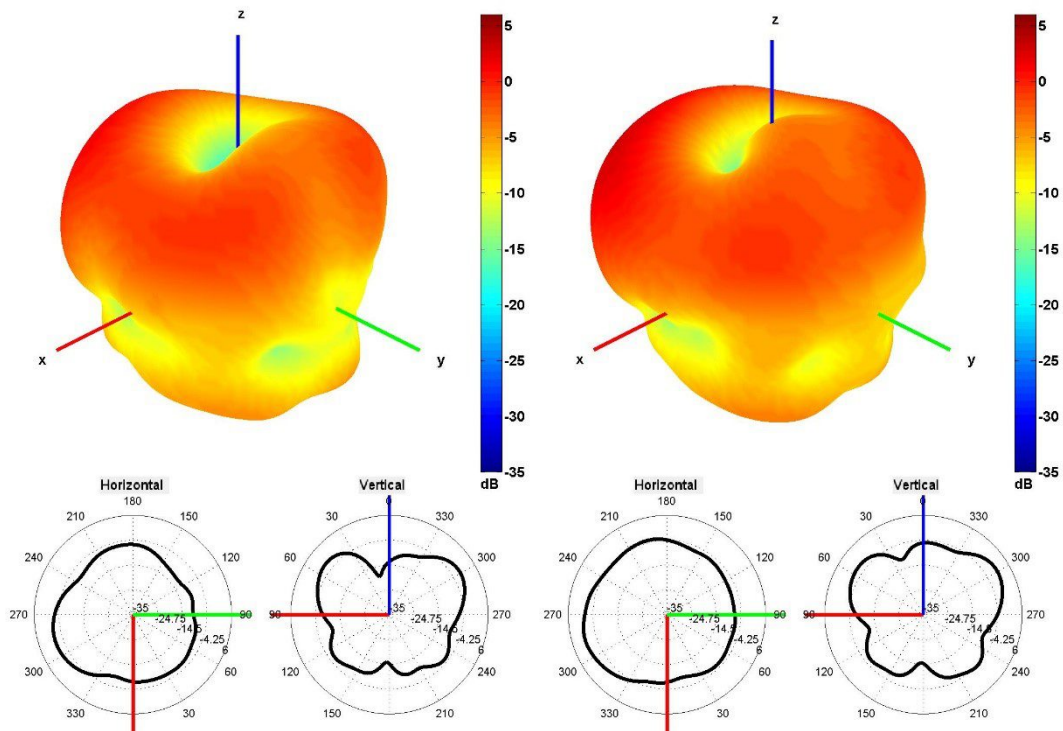
Cable 3: CELLULAR/LTE



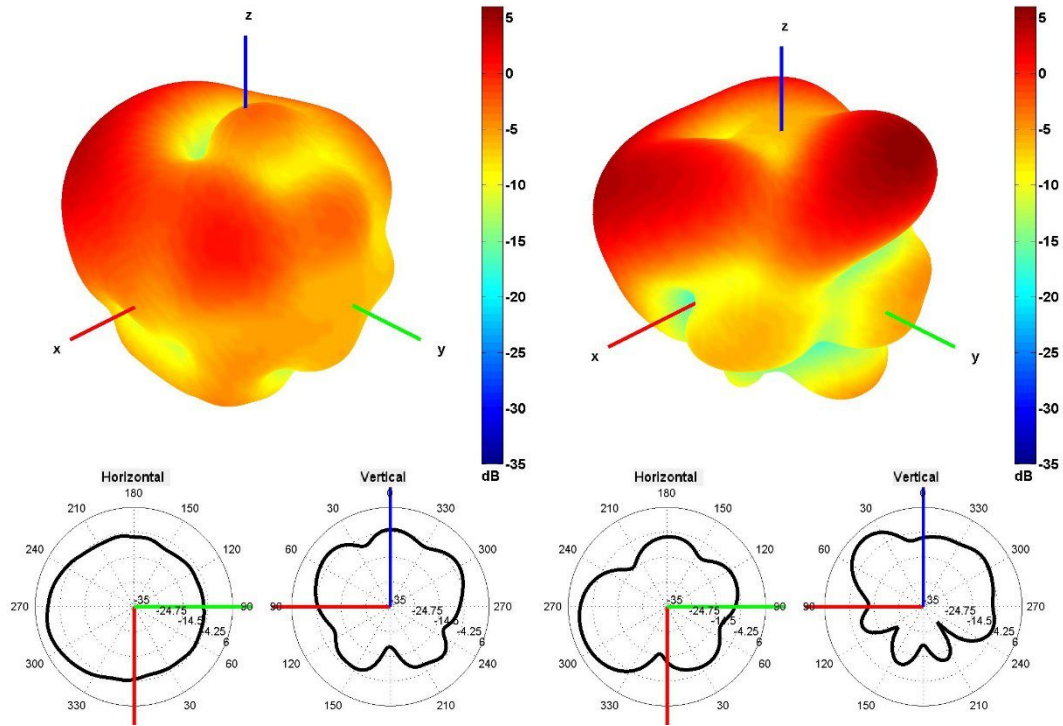
740 and 840 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

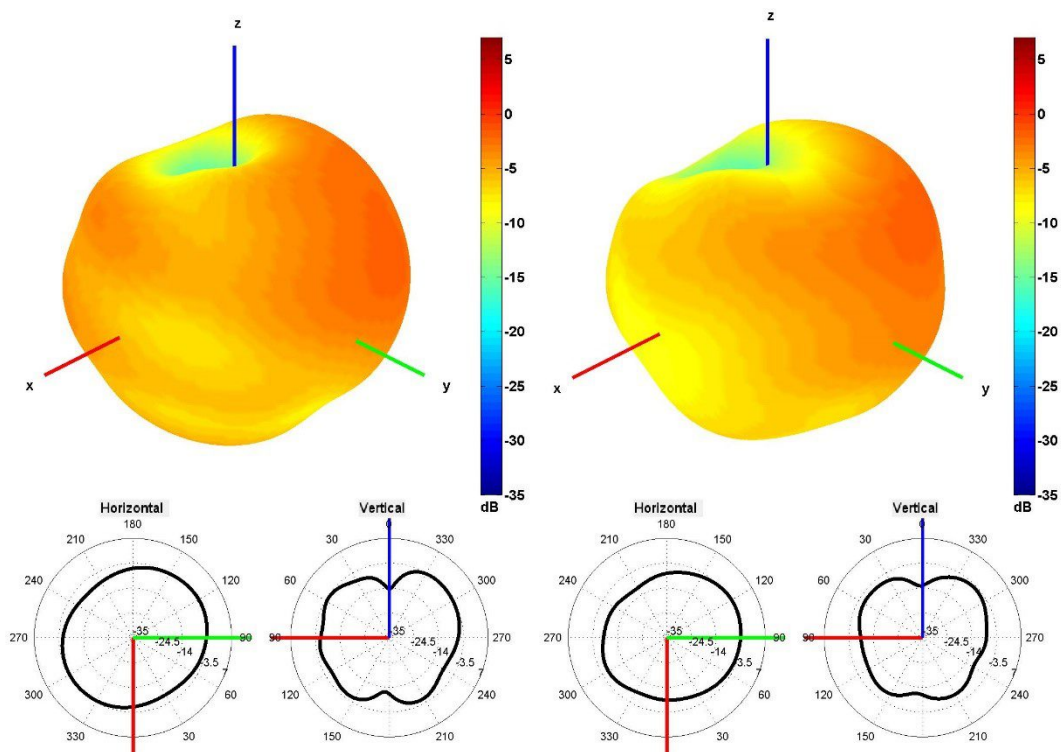


1850 and 1950 MHz Radiation pattern

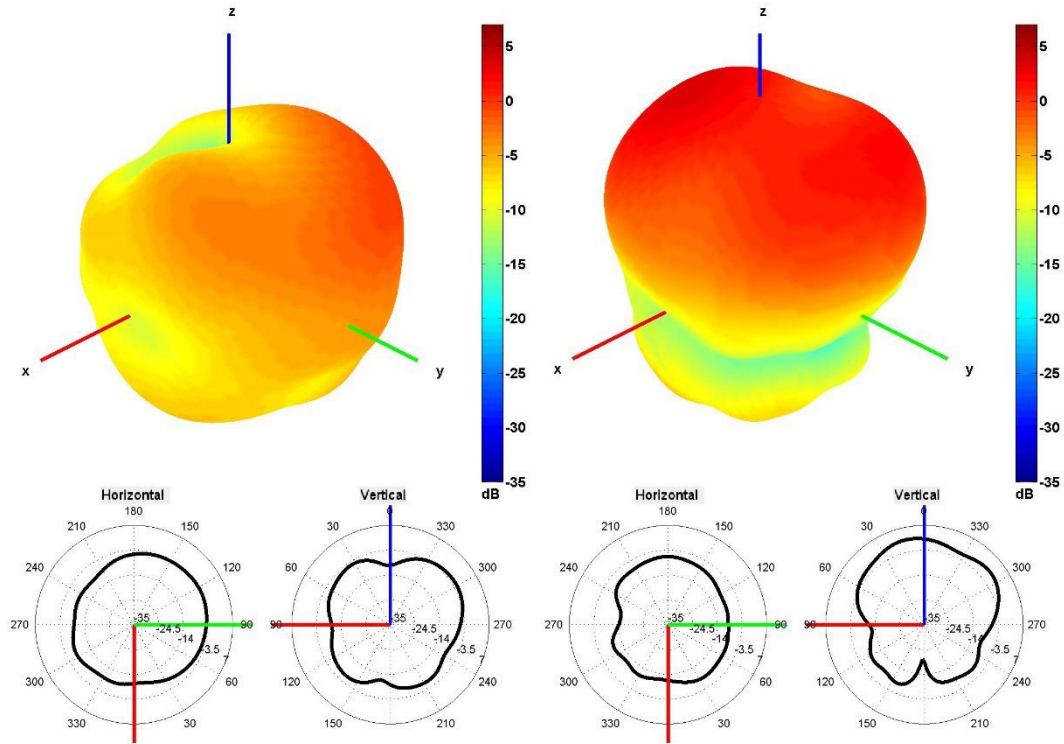


2100 and 2600 MHz Radiation pattern

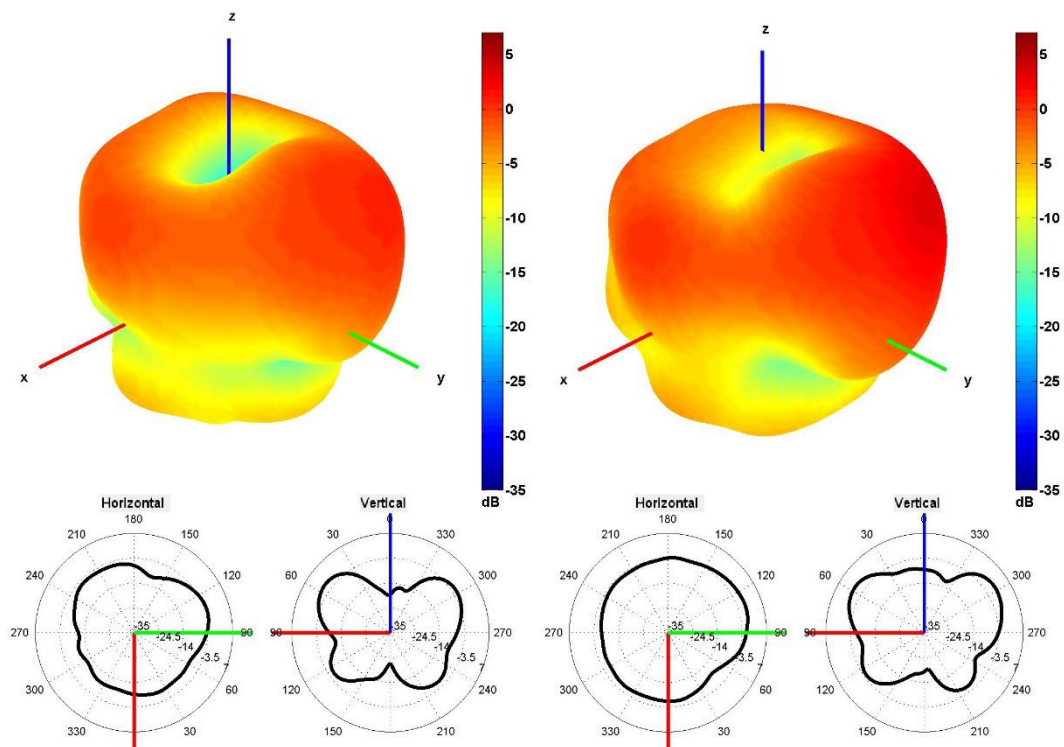
Table 4: CELLULAR/LTE



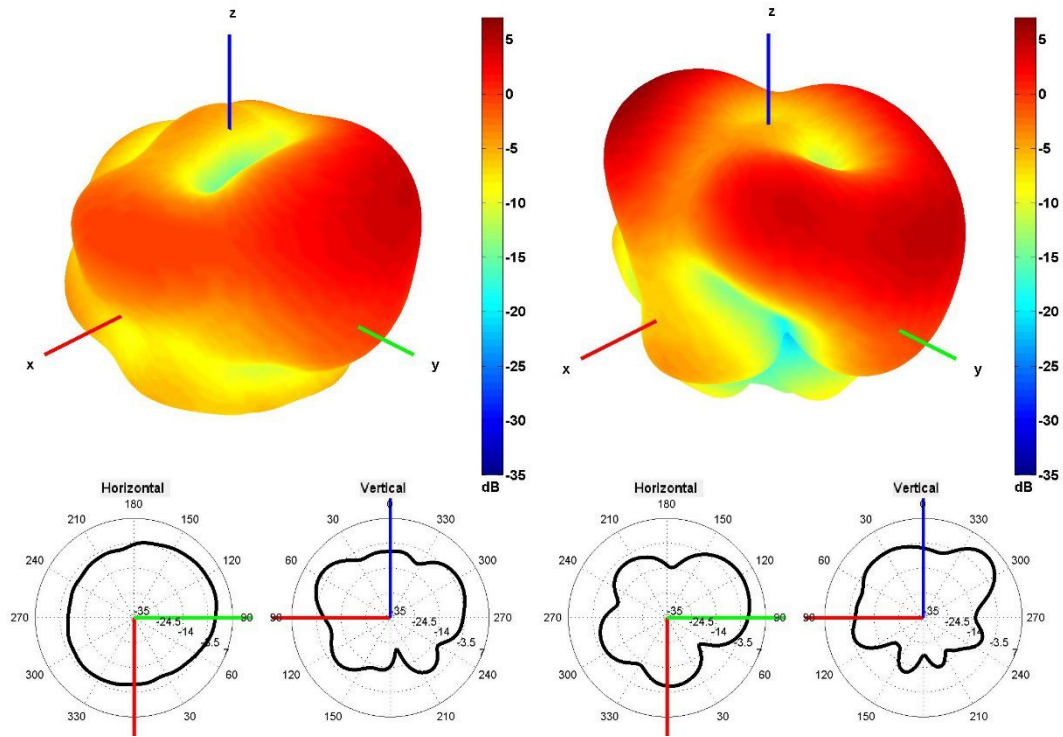
740 and 840 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

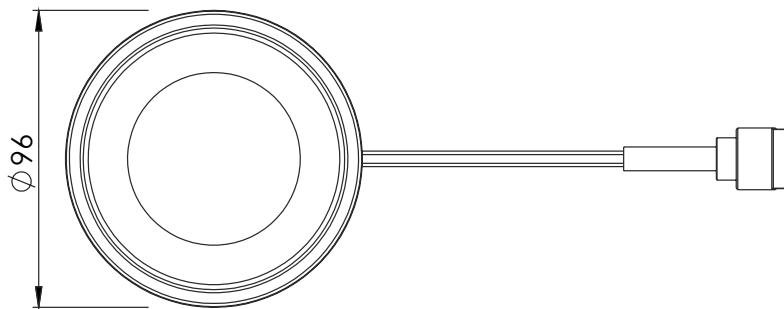
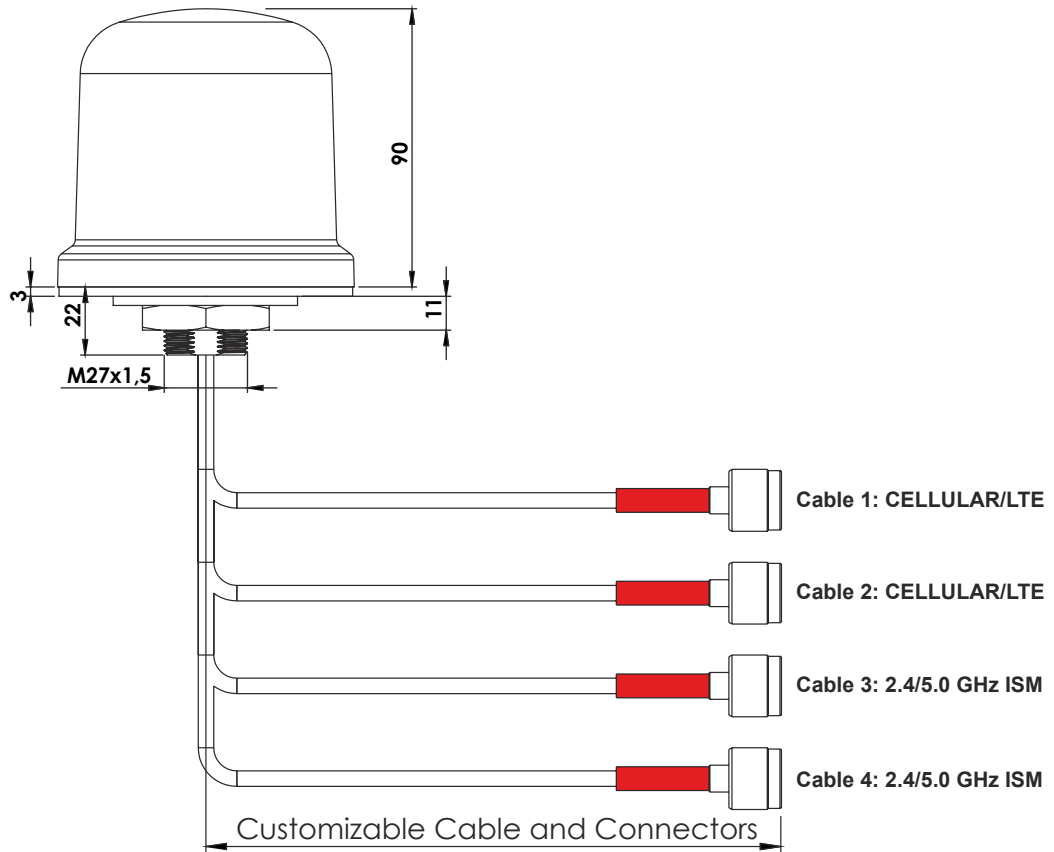


1850 and 1950 MHz Radiation pattern

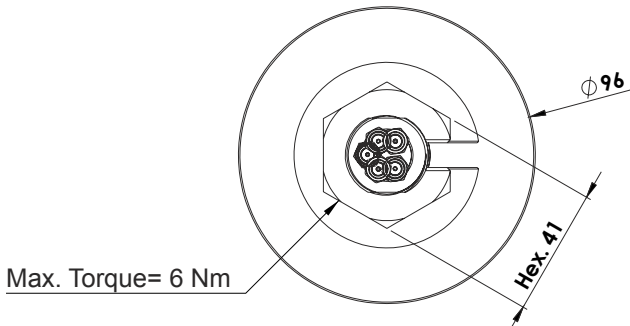
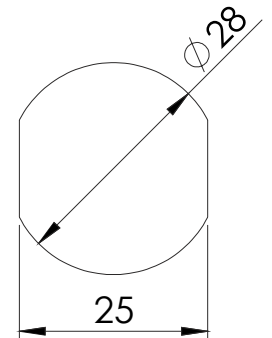


2100 and 2600 MHz Radiation pattern

4. Antenna drawings

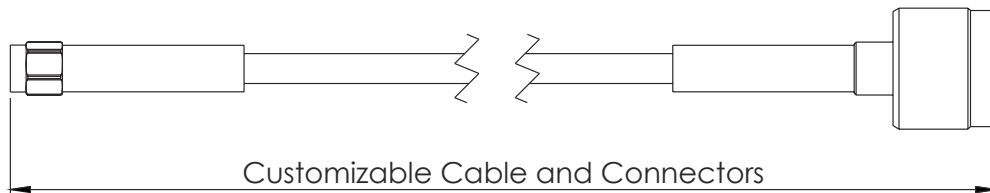


Mounting hole



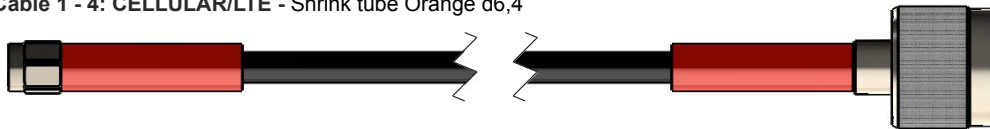
Note: Dimensions are in millimeters
 *Dimensions are after mounting
 **Max. Torque= 6 Nm

5. Jumper cables drawings - Optional



C318N-LMR195-C91N OST - 4x

Cable 1 - 4: CELLULAR/LTE - Shrink tube Orange d6,4



5. Antenna Images

