

2J6041PGFa

CELLULAR/LTE MIMO and GNSS Adhesive Mount

Key Features

Cable 1 - 2: CELLULAR / LTE

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

Cable 3: GPS/GLONASS/QZSS/Galileo

- 1575-1606 MHz

Adhesive Mount

Ground Plane Independent

Customizable Cable and Connector

Dimensions: 80 x 76 x 16 mm



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)	~-9.7	~-21.5	~-8.8
VSWR	~2.2:1	~1.2:1	~2.2:1
Efficiency (%)	~55.6	~56.0	~38.7
Peak Gain (dBi)	~2.9	~3.2	~2.1
Average Gain (dB)	~-2.6	~-2.5	~-4.1
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	LMR100 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)	~-9.3	~-20.8	~-10.0
VSWR	~2.3:1	~1.2:1	~2.0:1
Efficiency (%)	~50.5	~53.9	~41.2
Peak Gain (dBi)	~2.7	~3.5	~2.2
Average Gain (dB)	~-3.0	~-2.7	~-3.9
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	LMR100 Standard (Other Cables Available)		

Antenna Measurement Conditions:

Mounted on 30 x 30 x 0.25 cm ABS Plate

200 cm of Cable LMR100

Measured in Certified CTIA 3D Anechoic Chamber

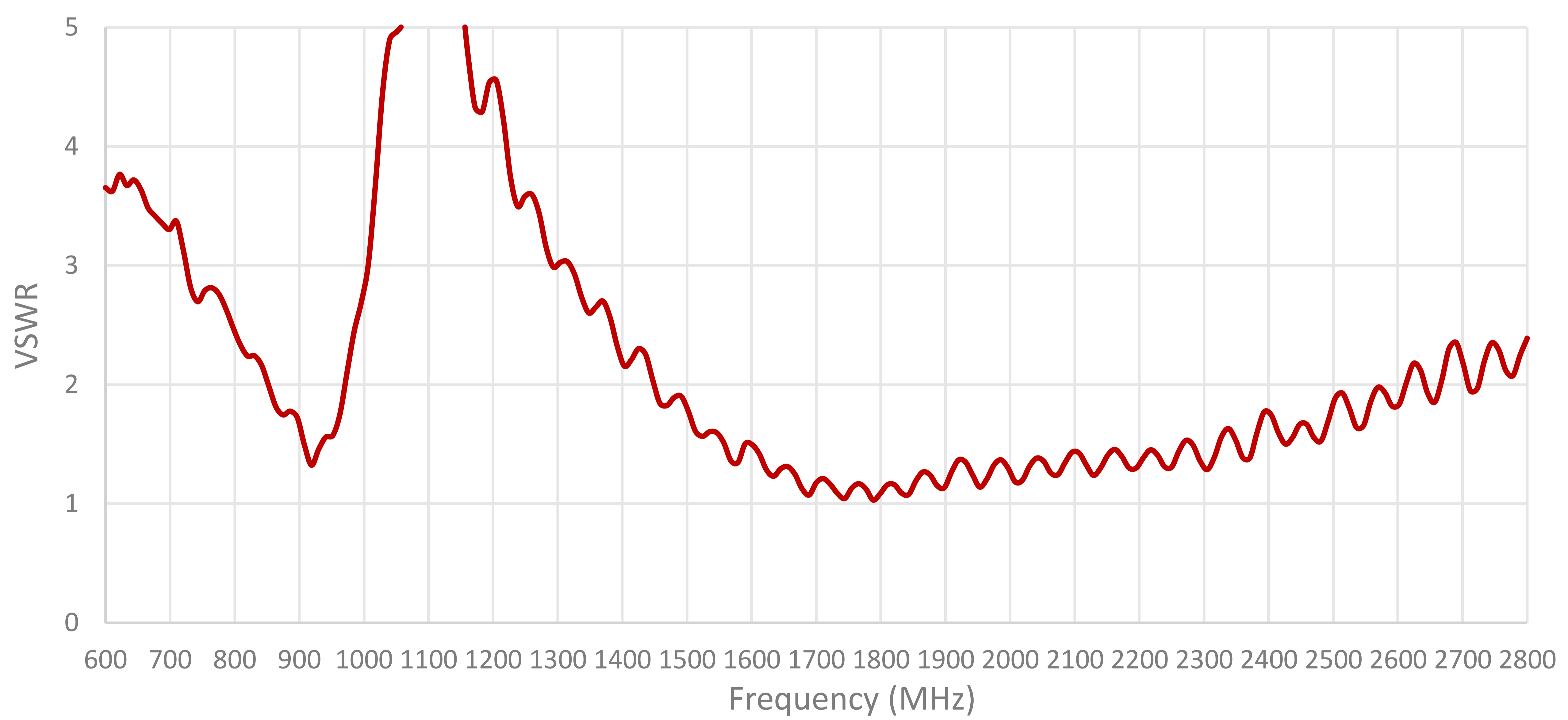
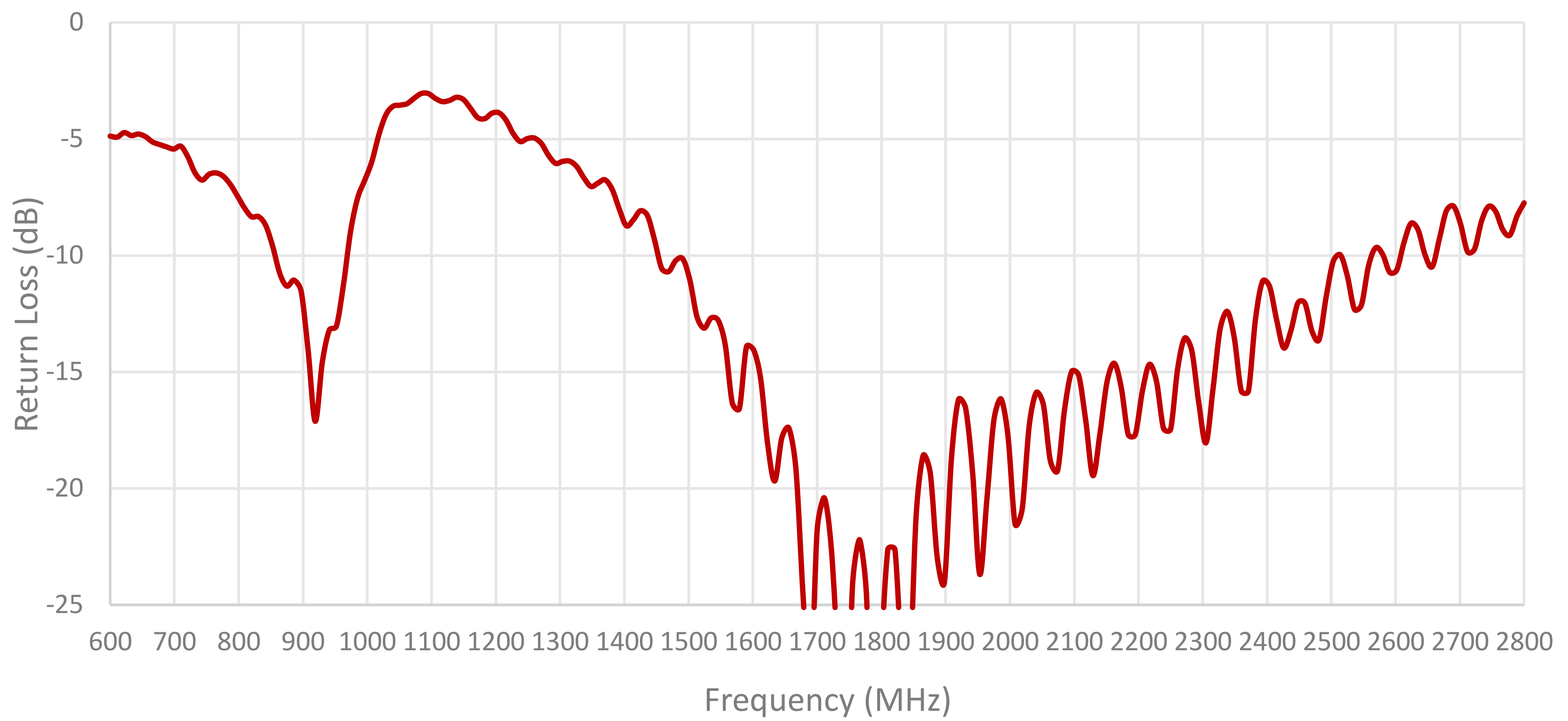
Cable 3	GPS/GLONASS Antenna	
Parameters	GPS/QZSS/Galileo	GLONASS
Standard	1575	1602
Band (MHz)	1575.42	1598-1606
Frequency(MHz)	25 x 25 x 4	
Patch Size (mm)	<=-15.0 dB	
Return Loss (dB)	<=1.4:1 dB	
VSWR	50	
Impedance	Hemispherical	
Radiation Pattern	RHCP	
Polarization	Pre-filter	
Saw Filter	28 @ 2.7 V	
Active Gain (dB)	1.5 Typ	
Noise Figure (dB)	1.5 – 3.6	
Voltage (V)	9 Typ	
Current (mA)	24.3 Typ	
Power Consumption (mW)	2kV	
ESD Protection (kV)	SMA-Male Standard (Other Connectors Available)	
Connector Type	300 cm Standard (Any Cable Length Available)	
Cable Length	LMR100 Standard (Other Cables Available)	
Cable Type		

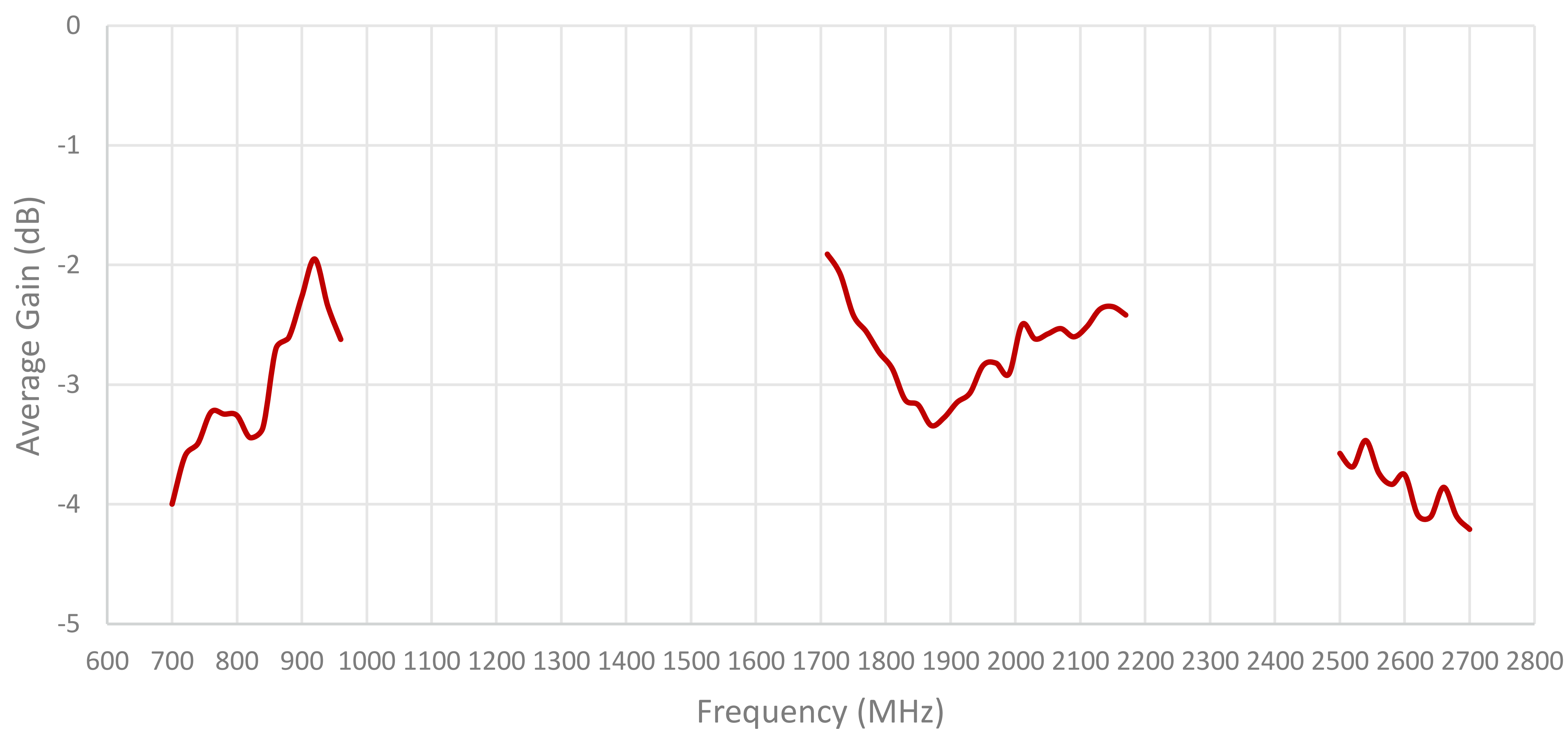
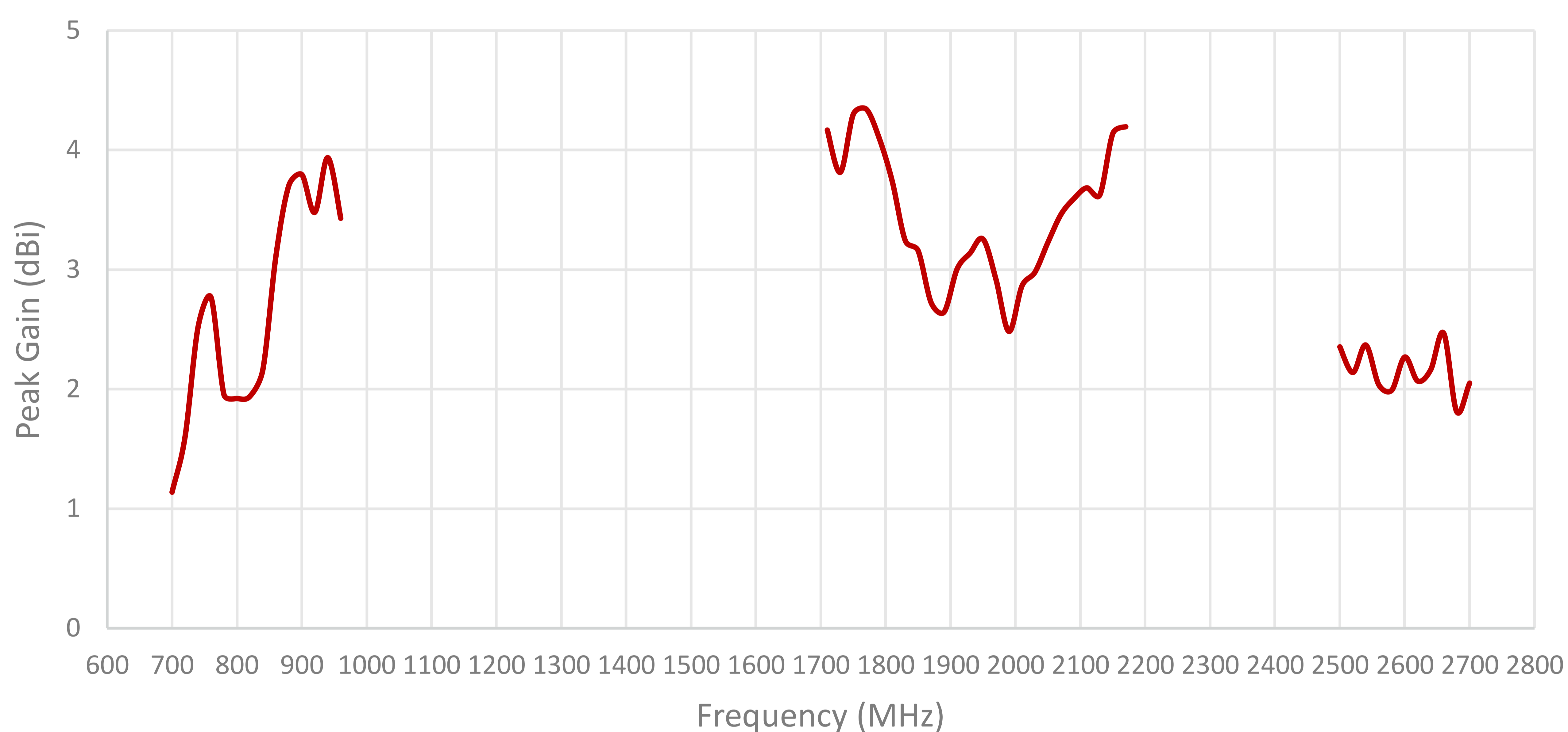
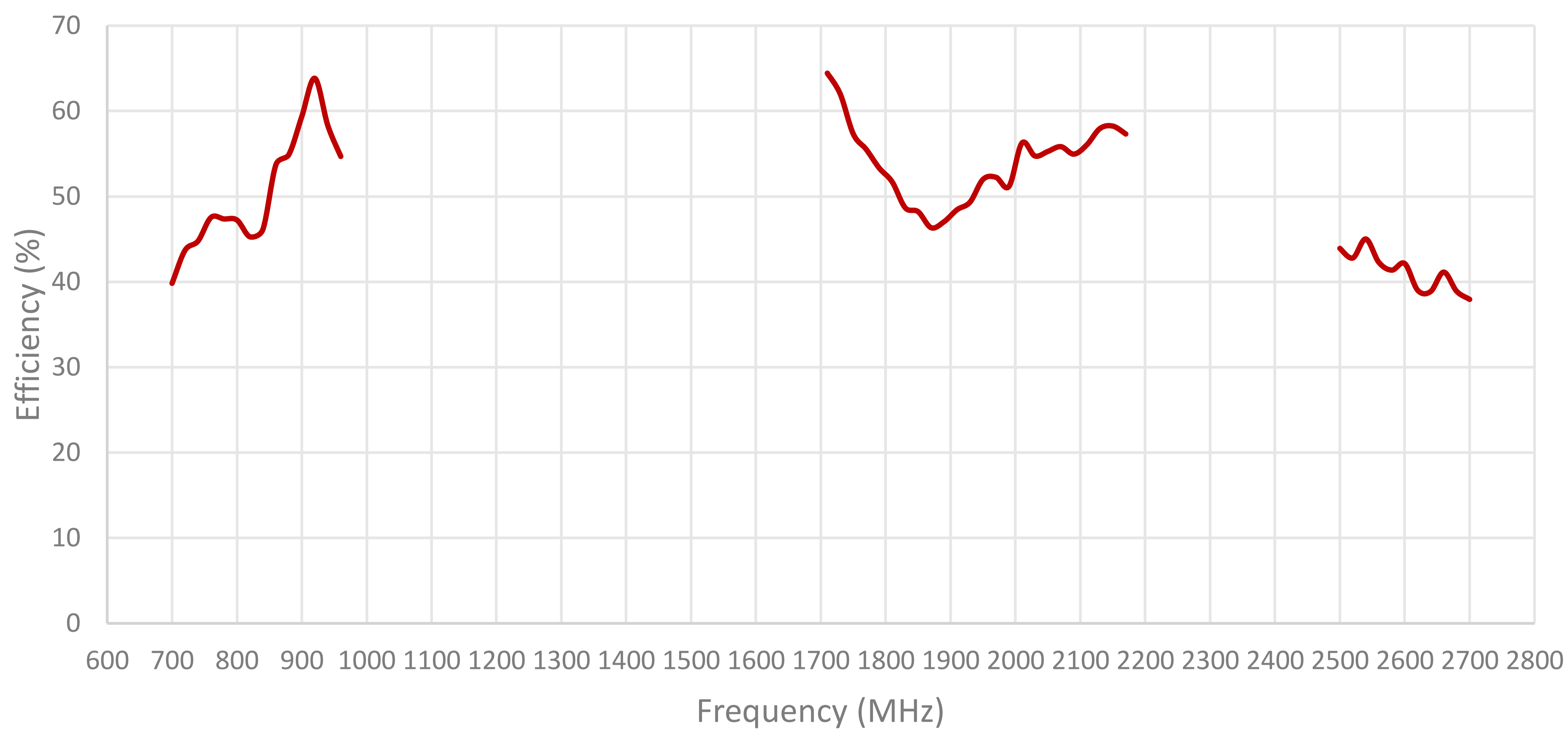
2. Mechanical and environmental specifications

Specifications	2J6041PGFa
Mounting Type	Adhesive Mount
Dimensions (mm)	80 x 76 x 16
Radome Type	ABS UV Stable
Radome Color	Black or White
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

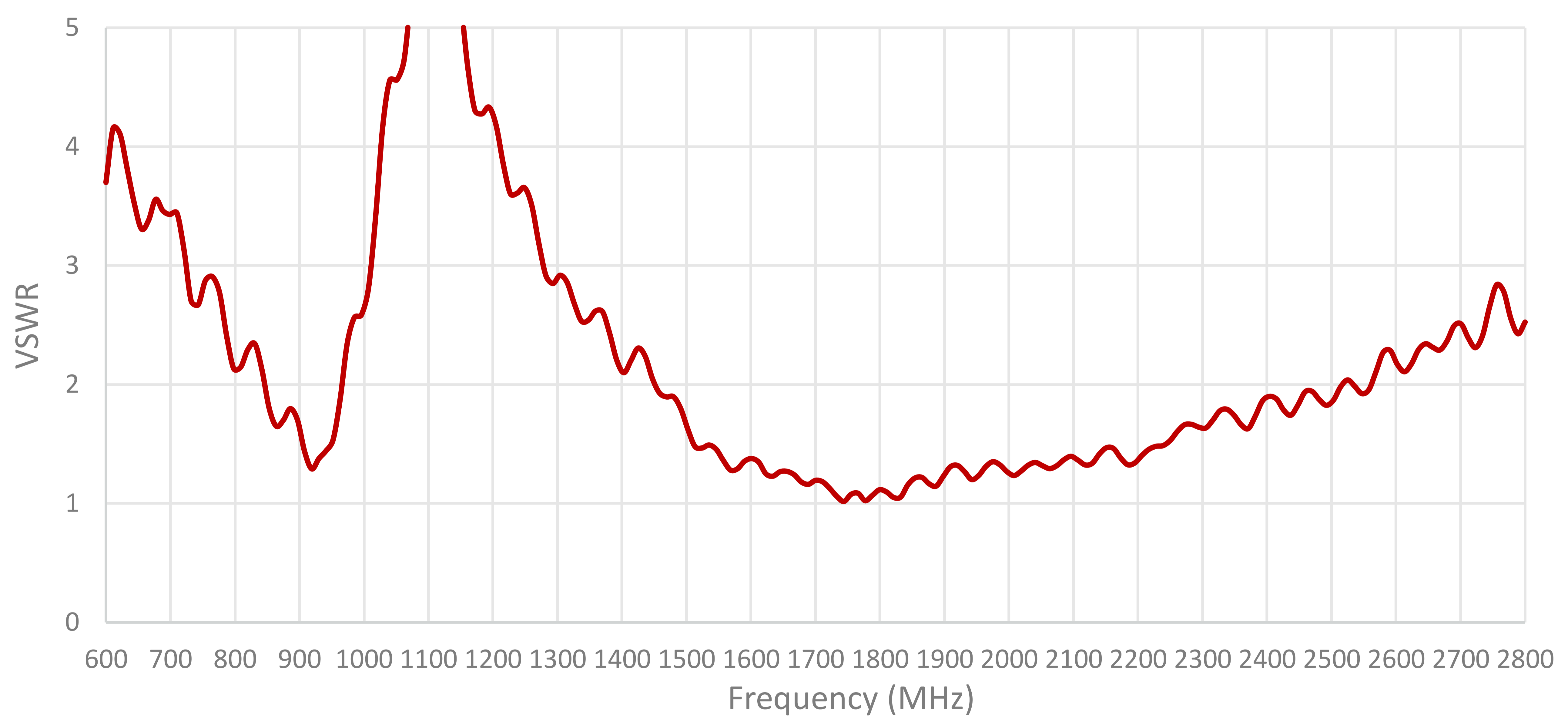
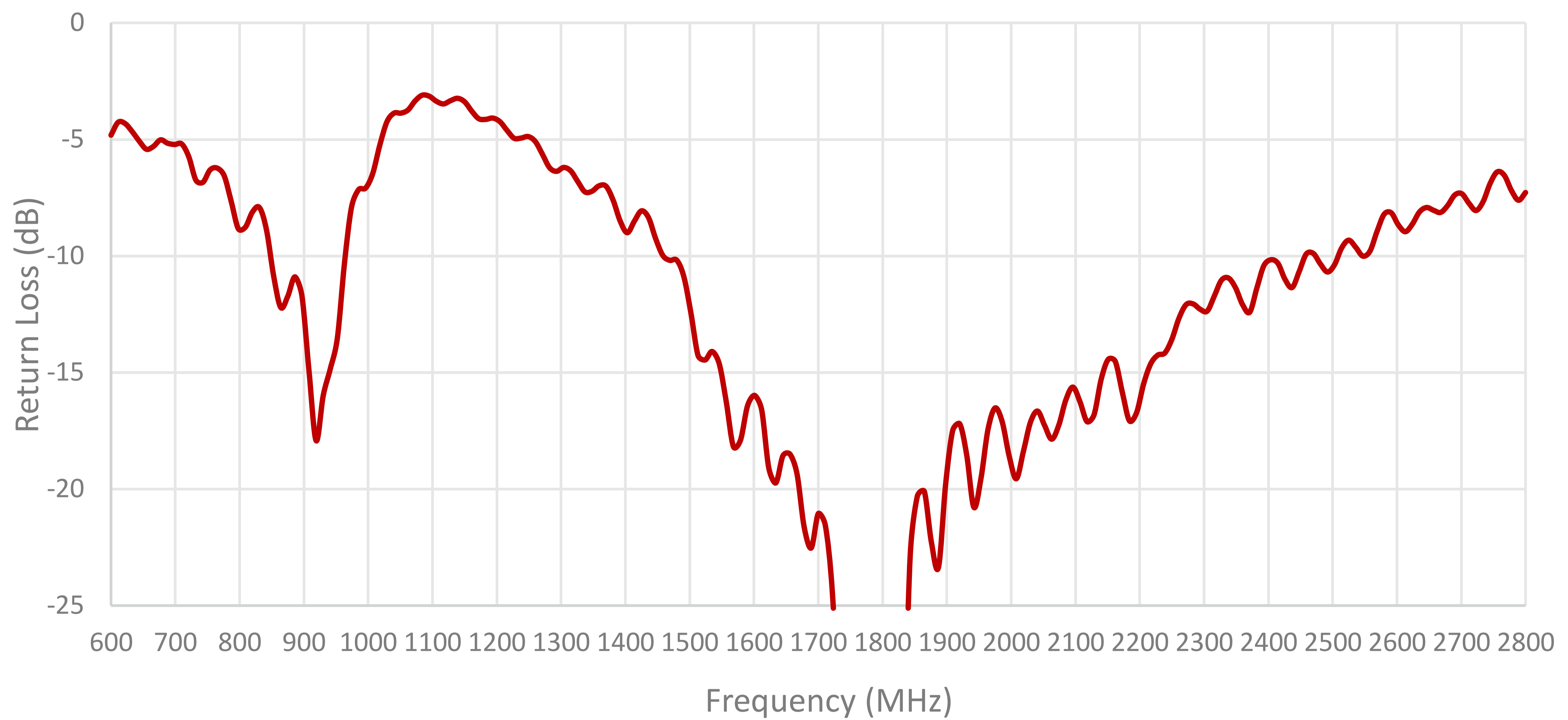
3. Antenna parameters

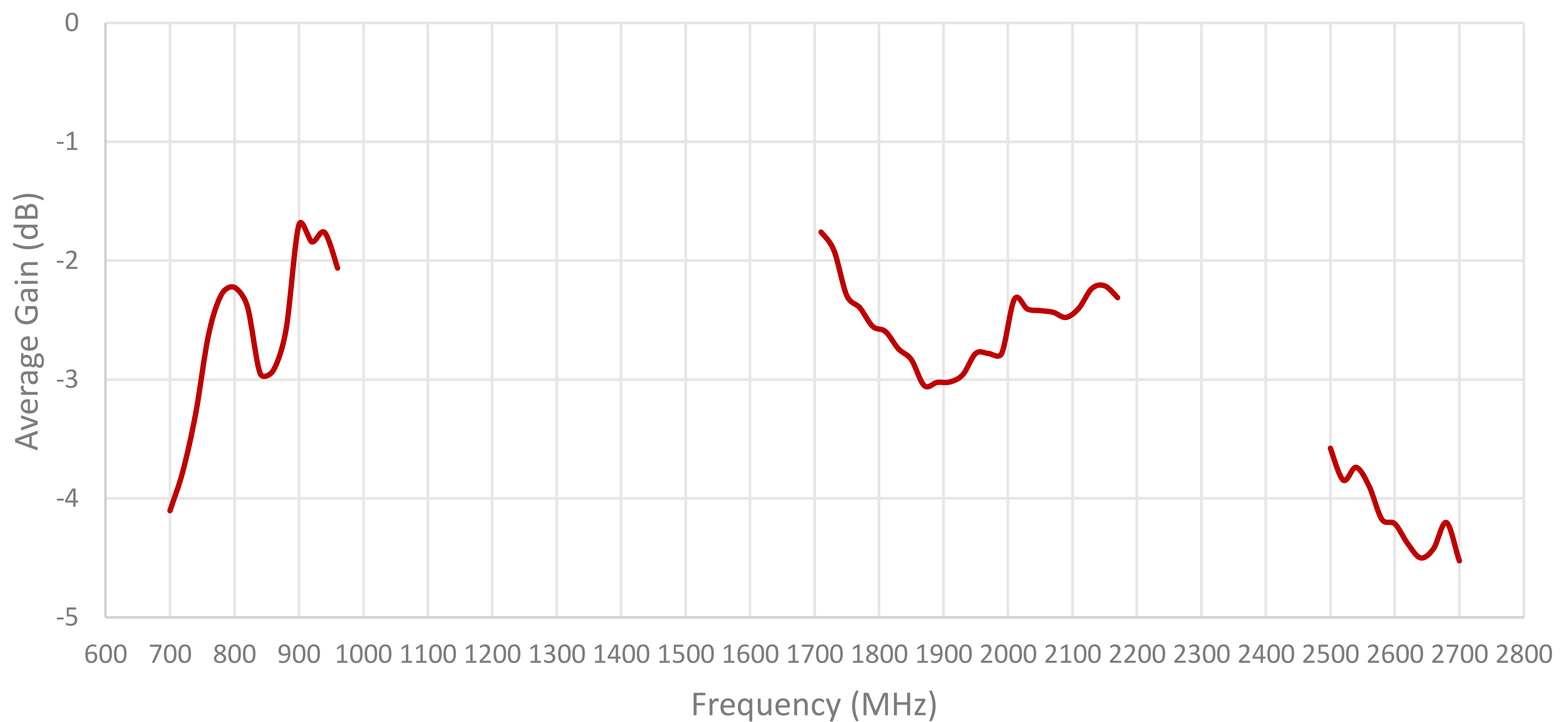
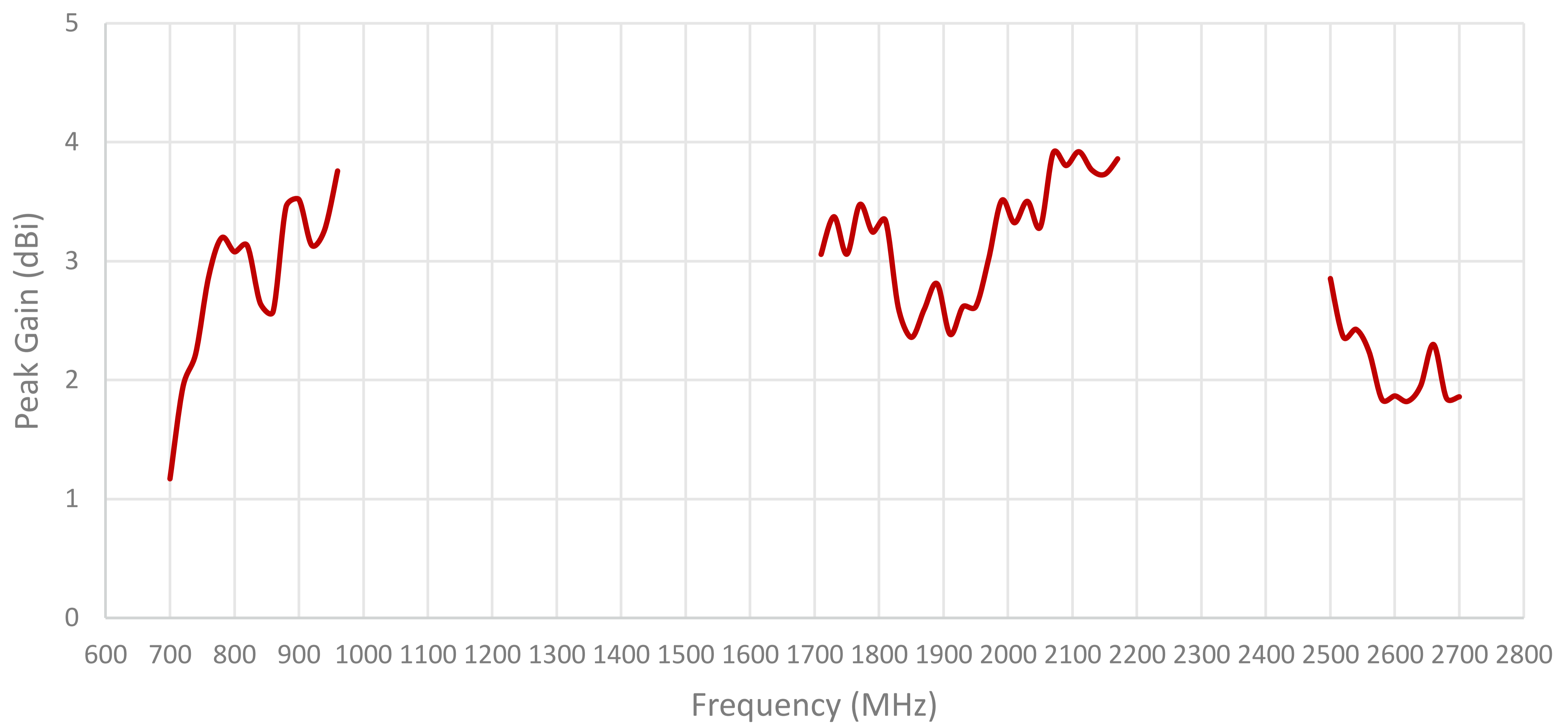
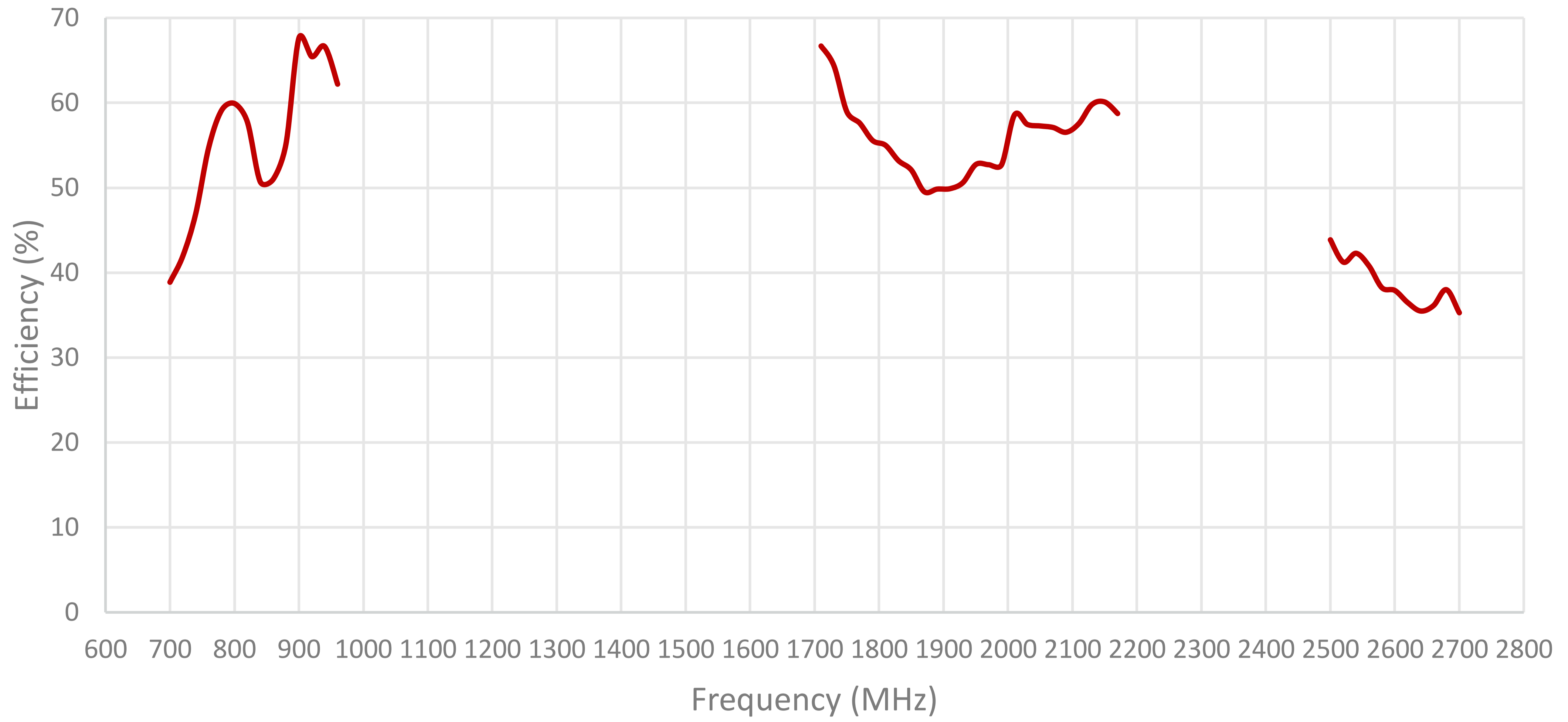
Cable 1: CELLULAR/LTE



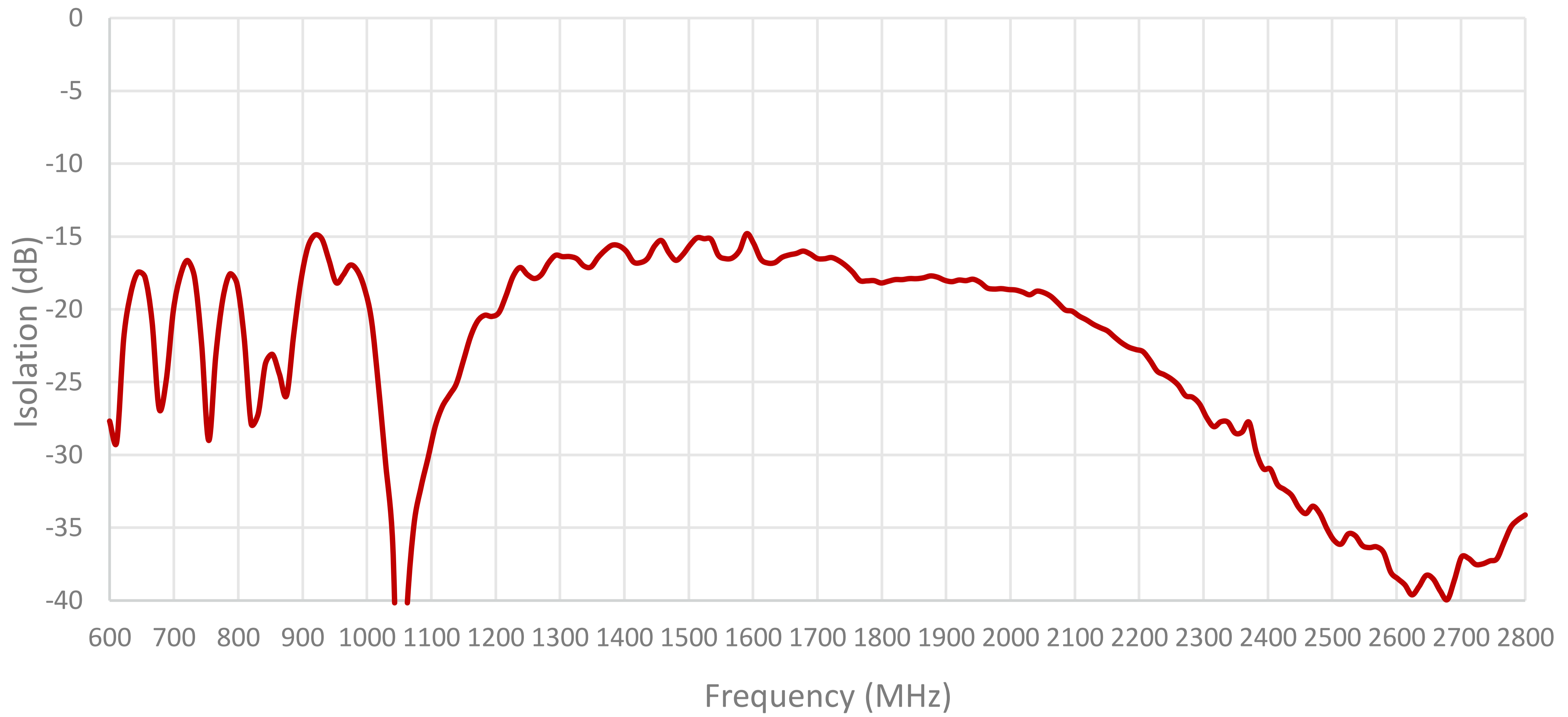


Cable 2: CELLULAR/LTE

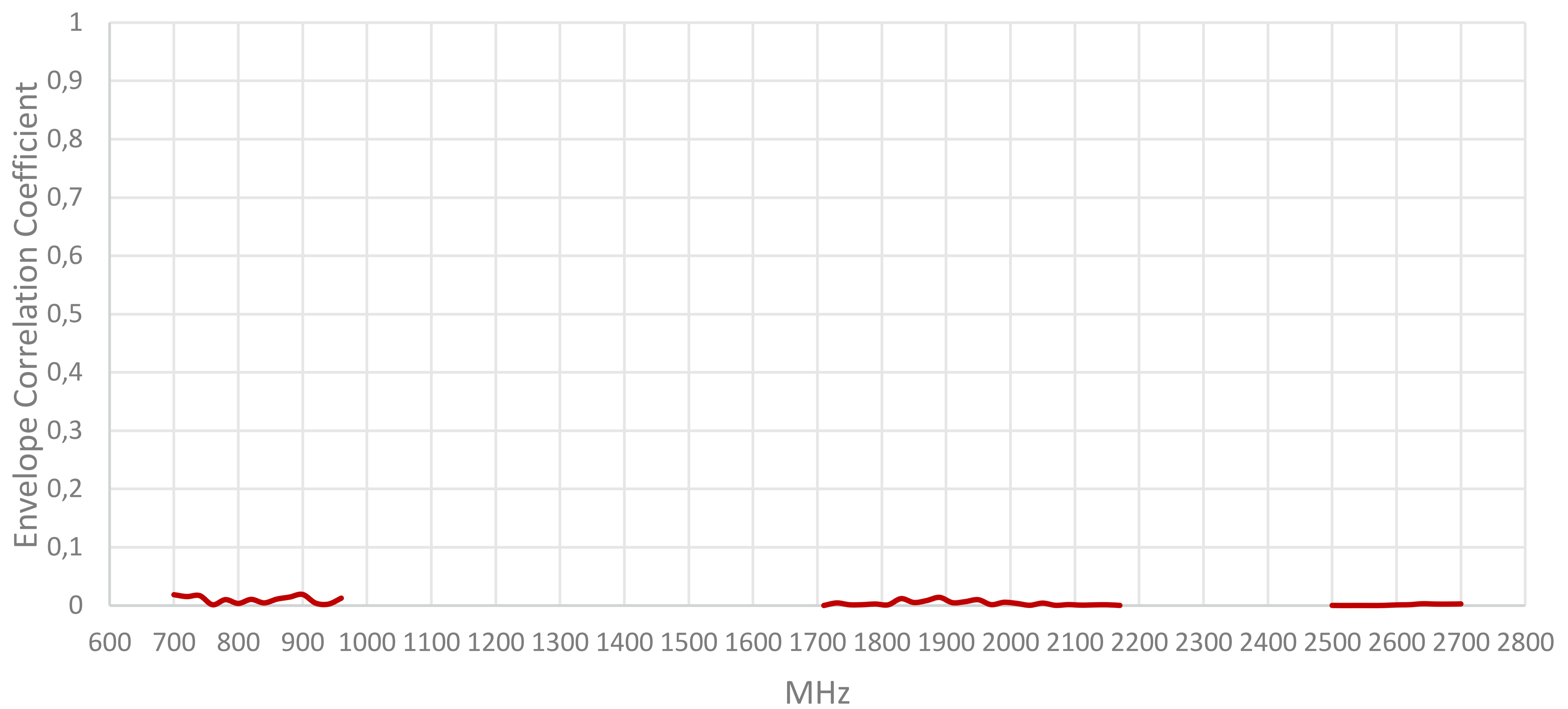


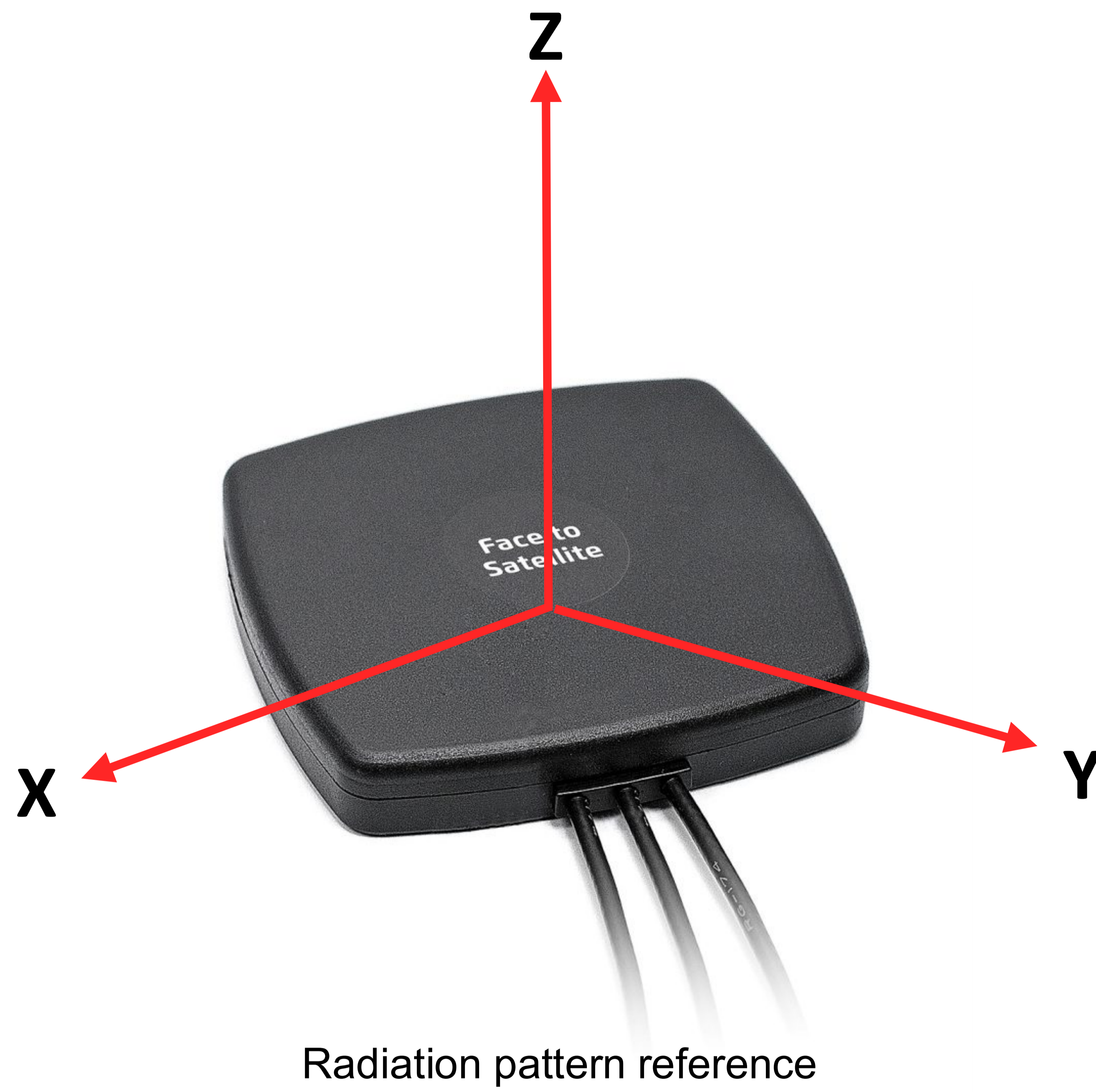


ISOLATION FOR CABLES 1 AND 2

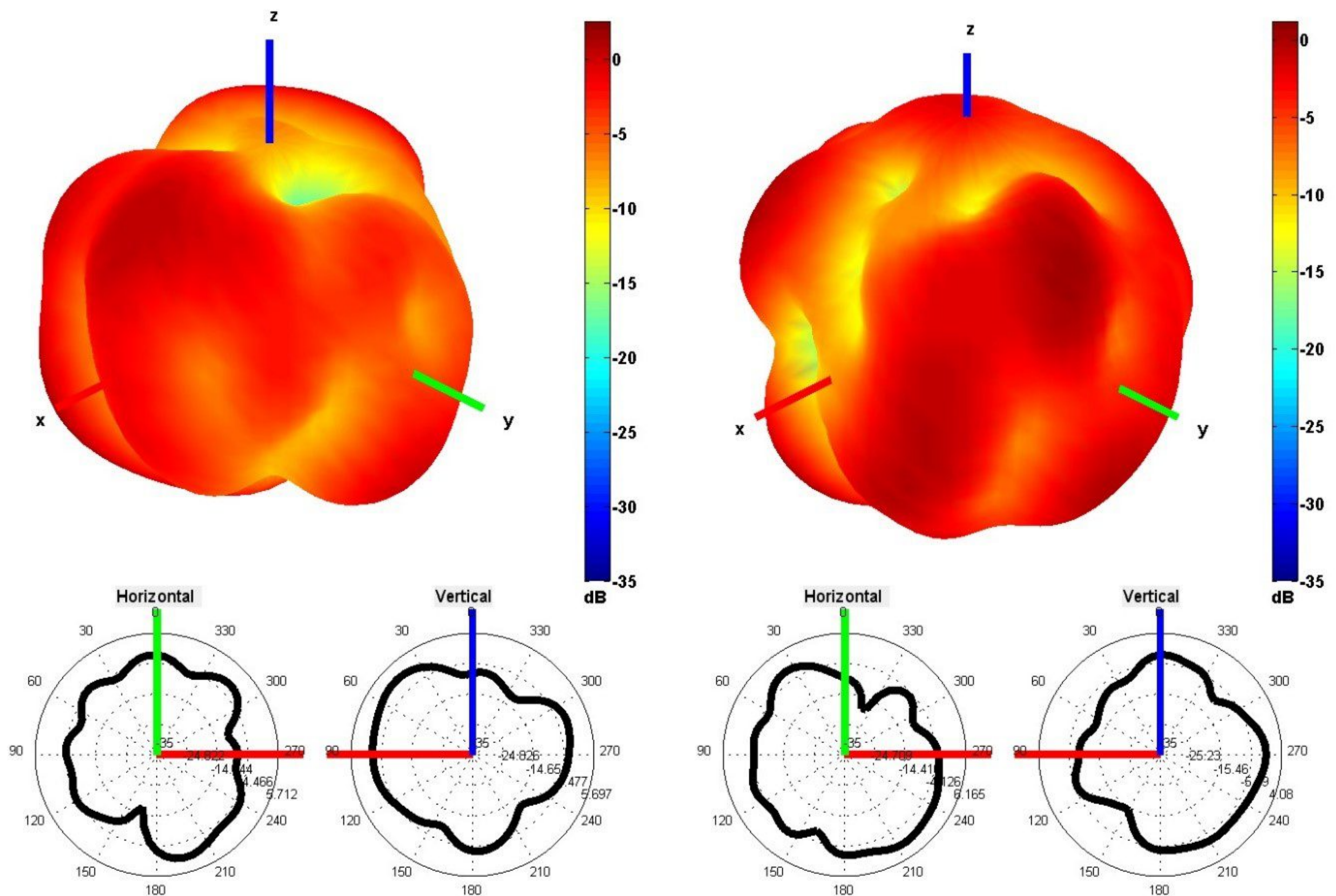


ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2

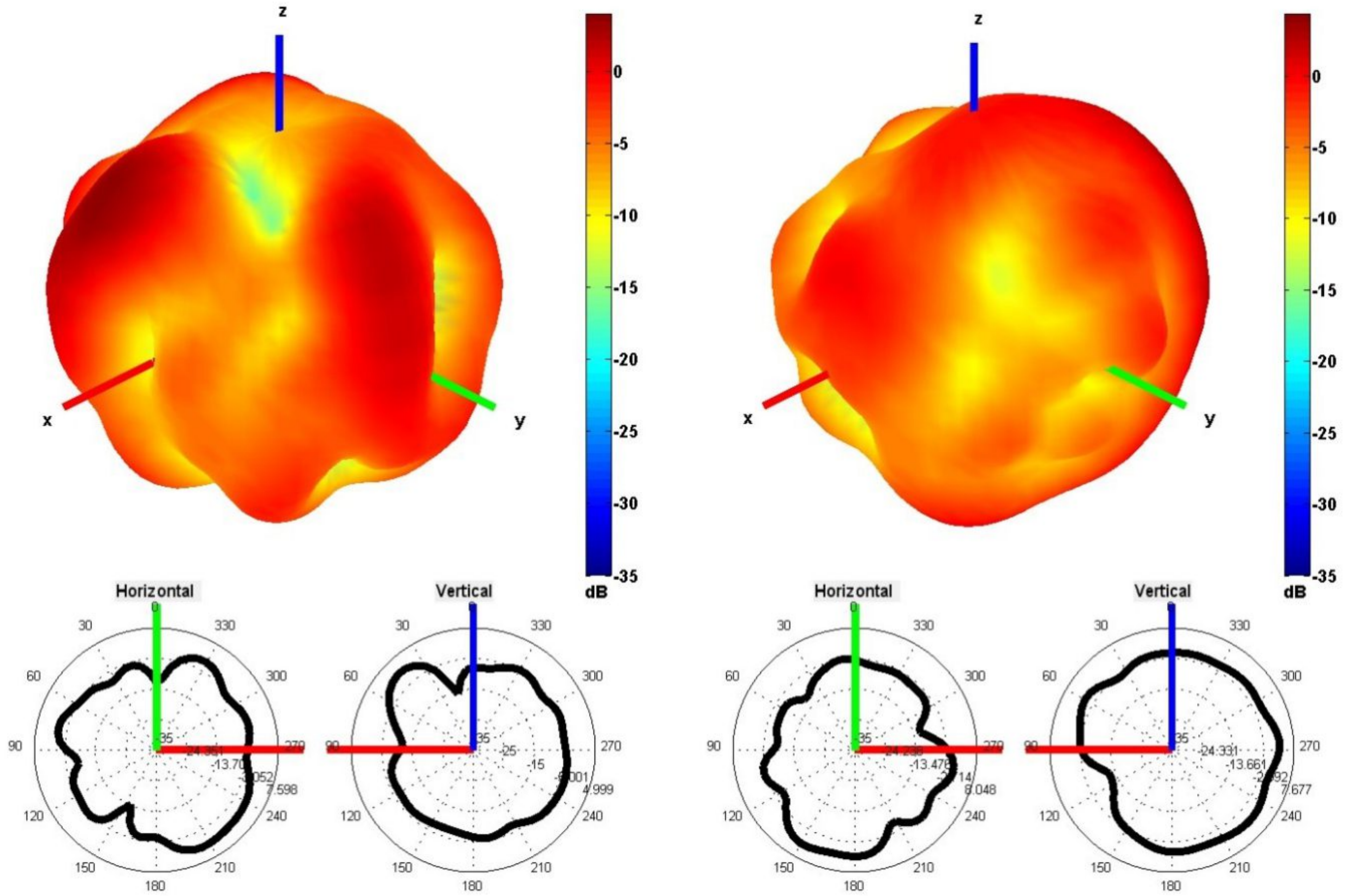




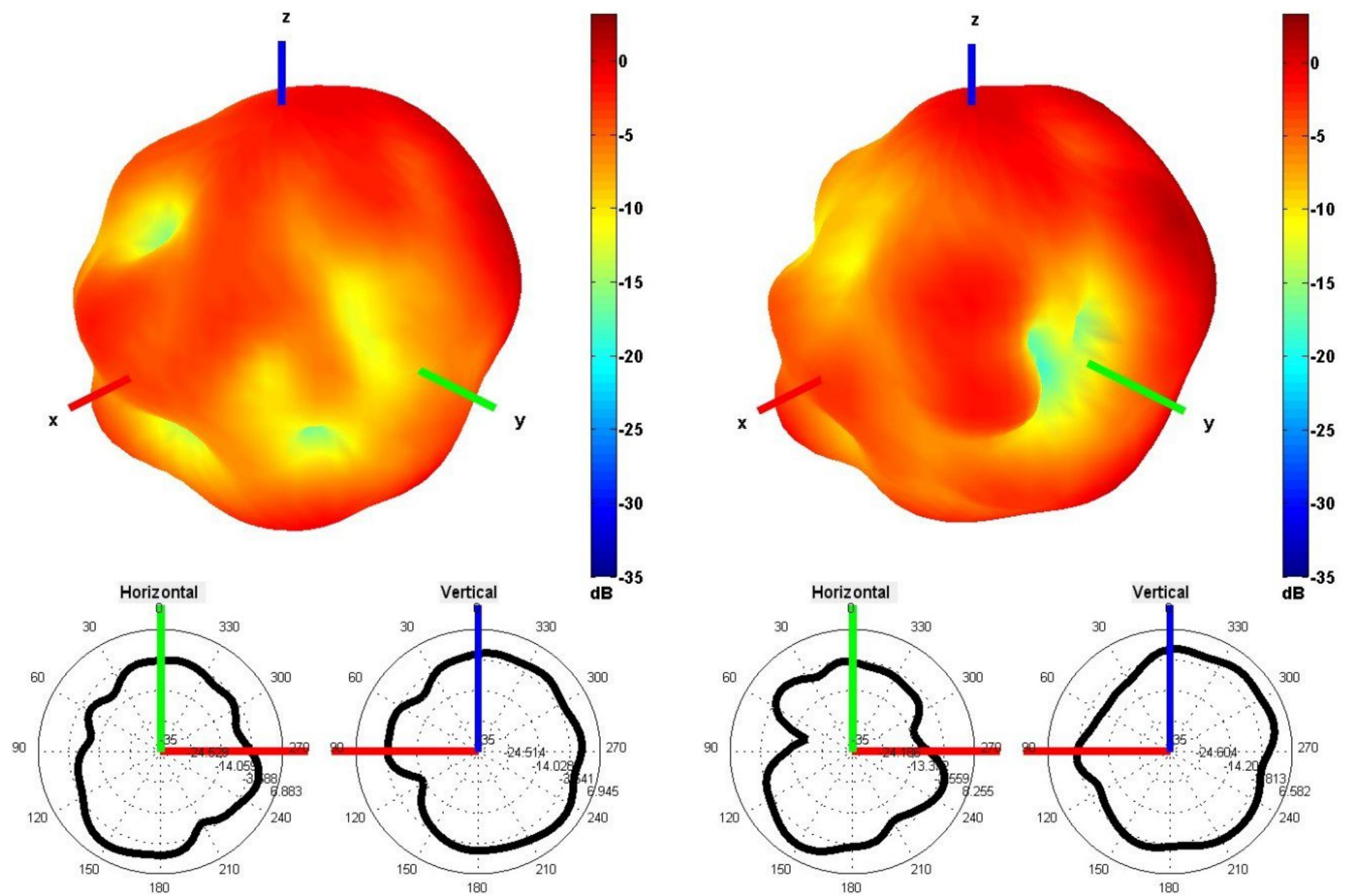
Cable 1: CELLULAR/LTE



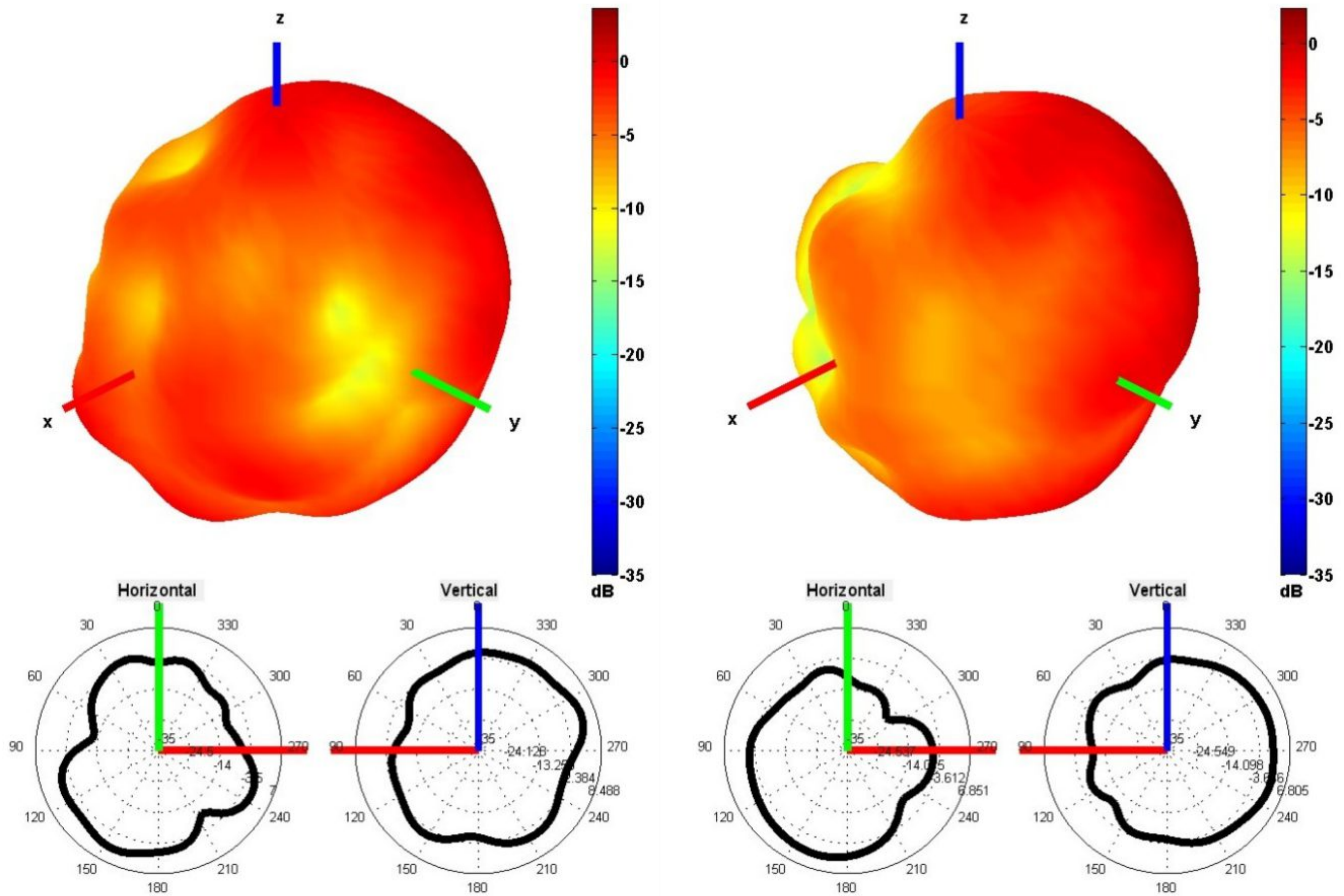
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

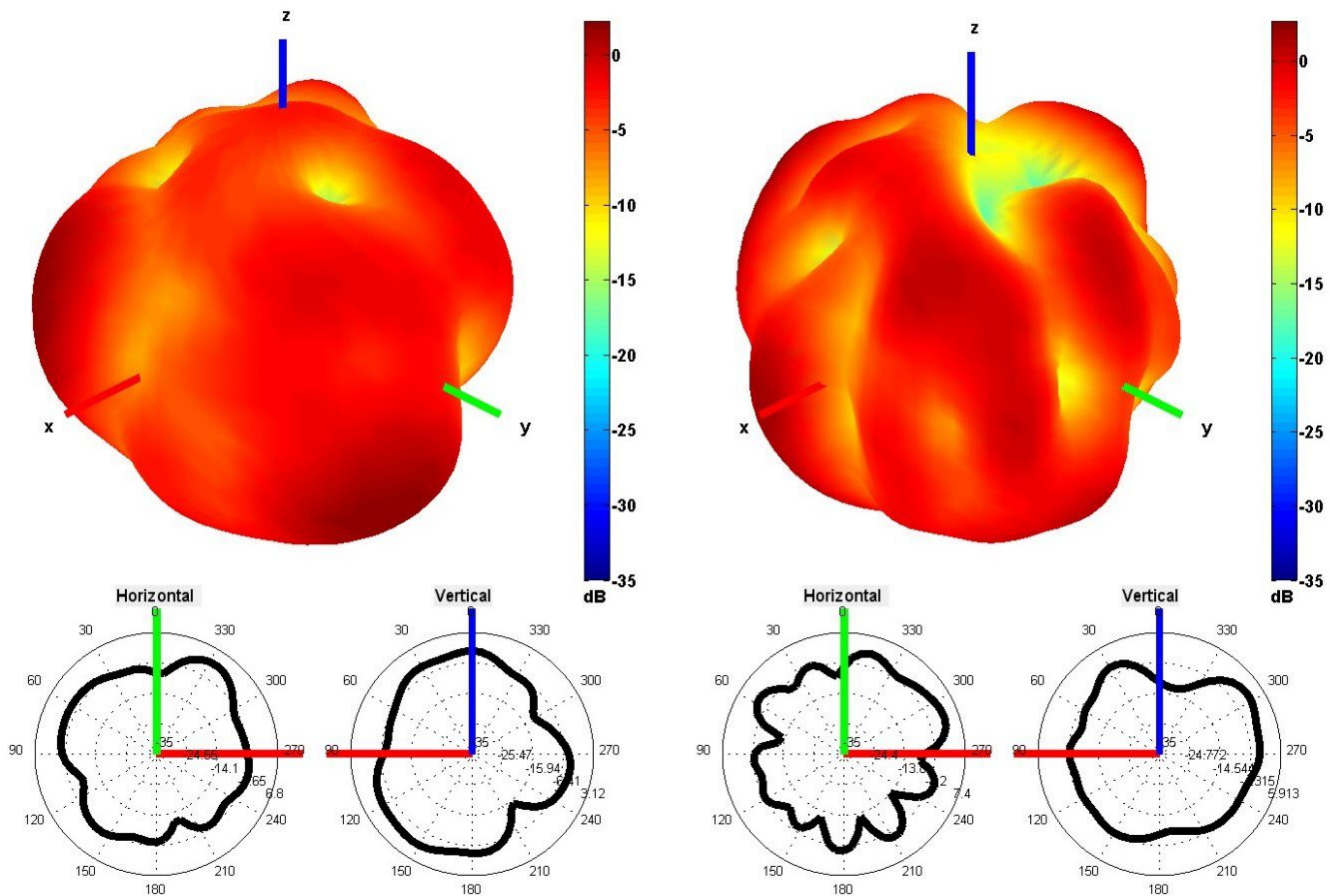


1850 and 1950 MHz Radiation pattern

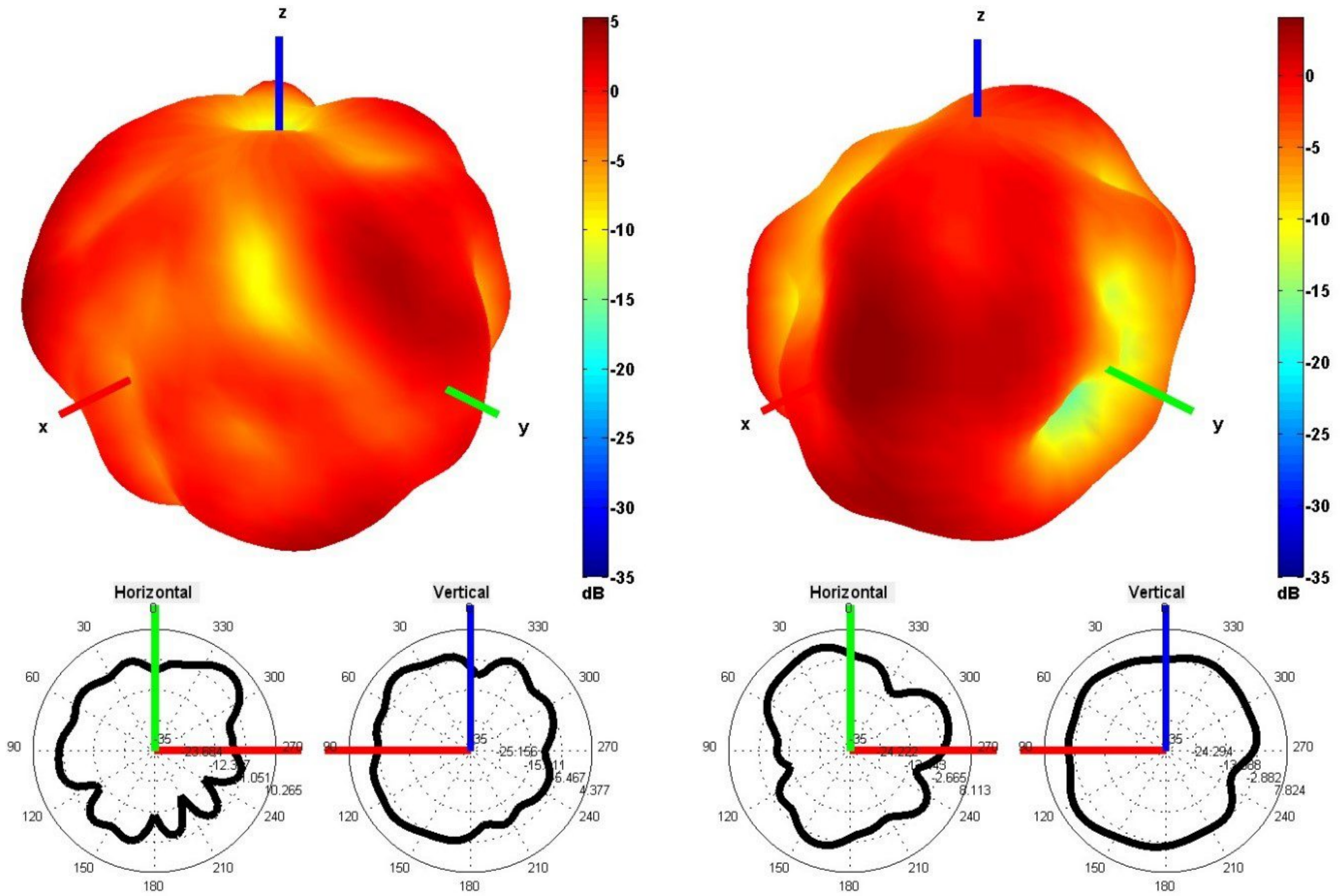


2100 and 2600 MHz Radiation pattern

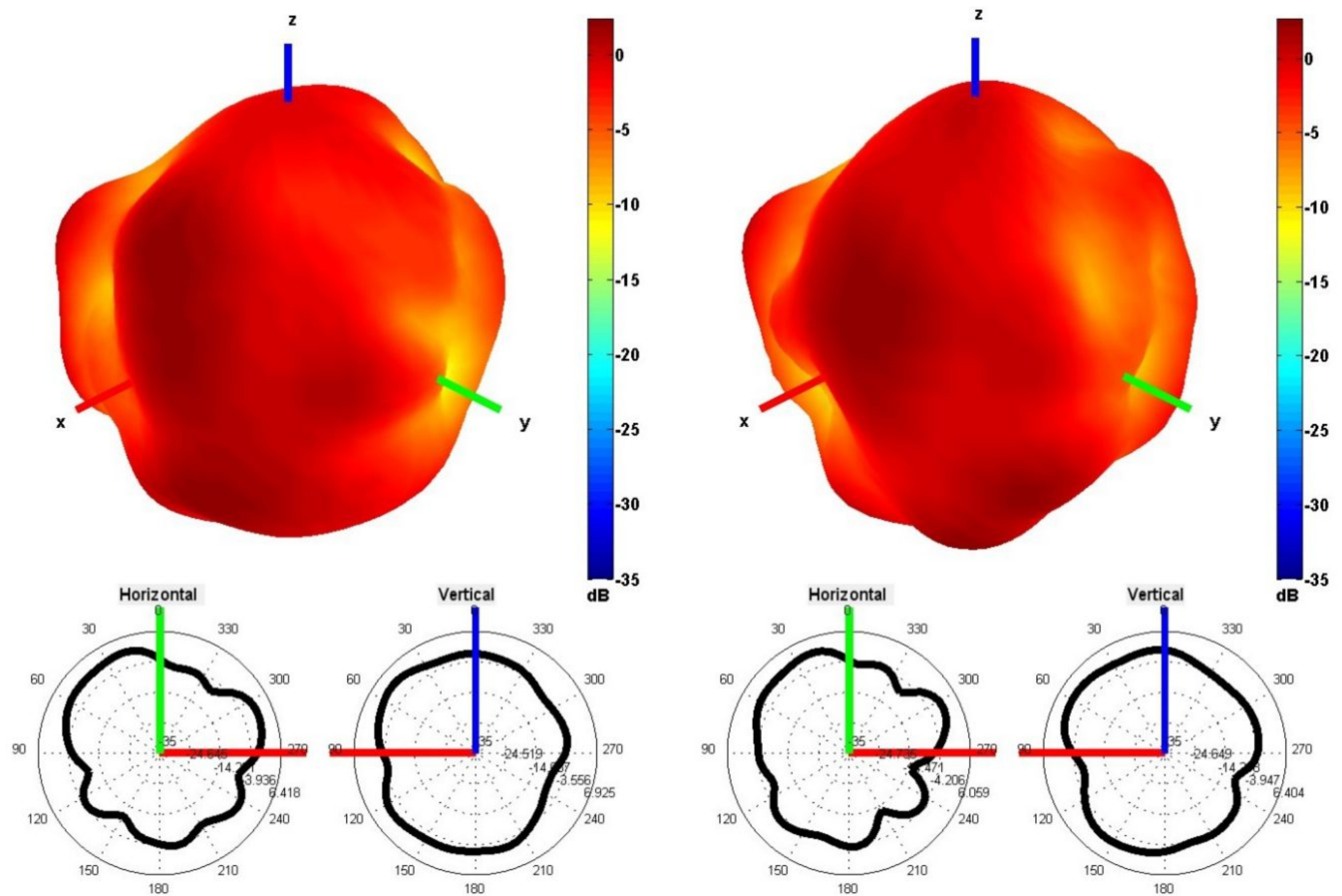
Cable 2: CELLULAR/LTE



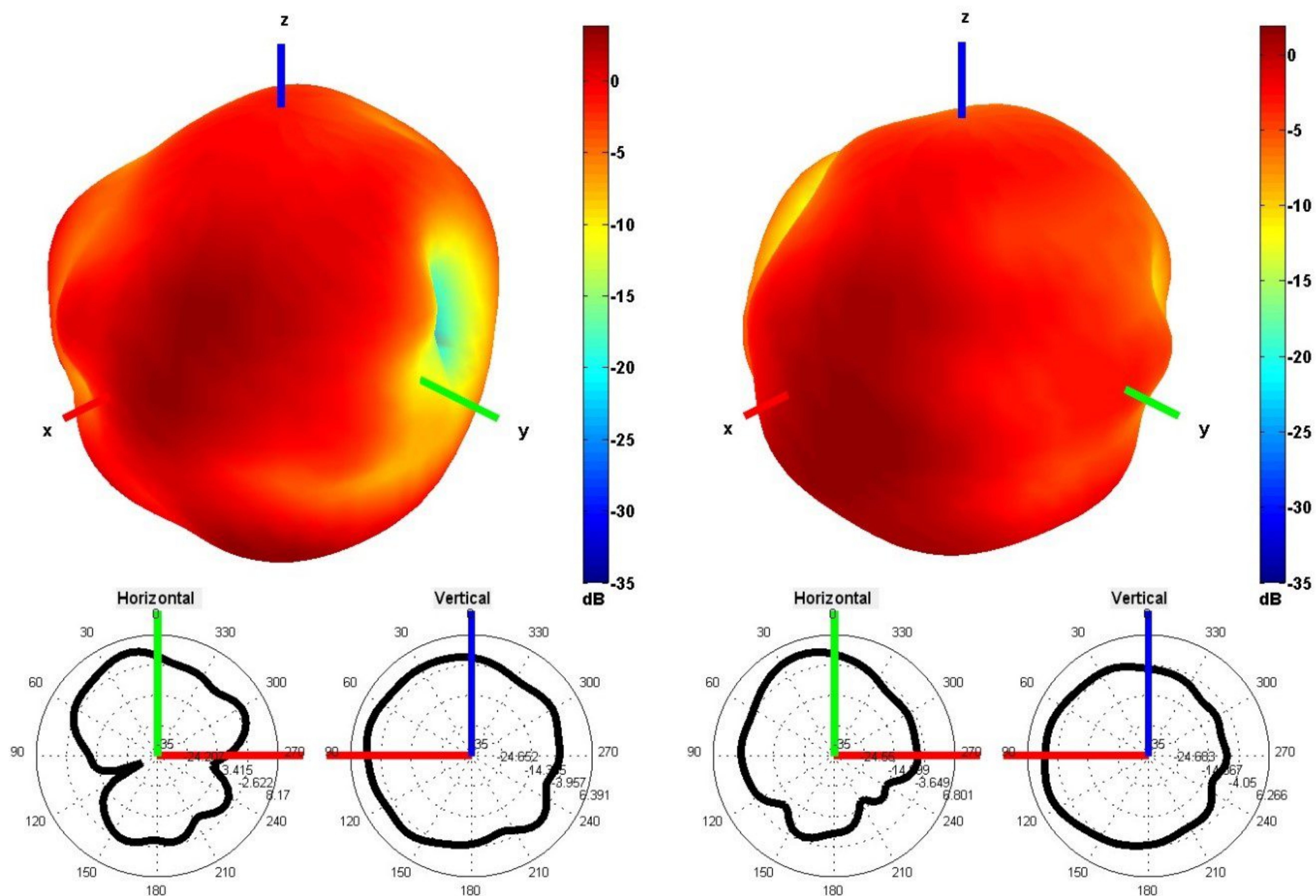
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

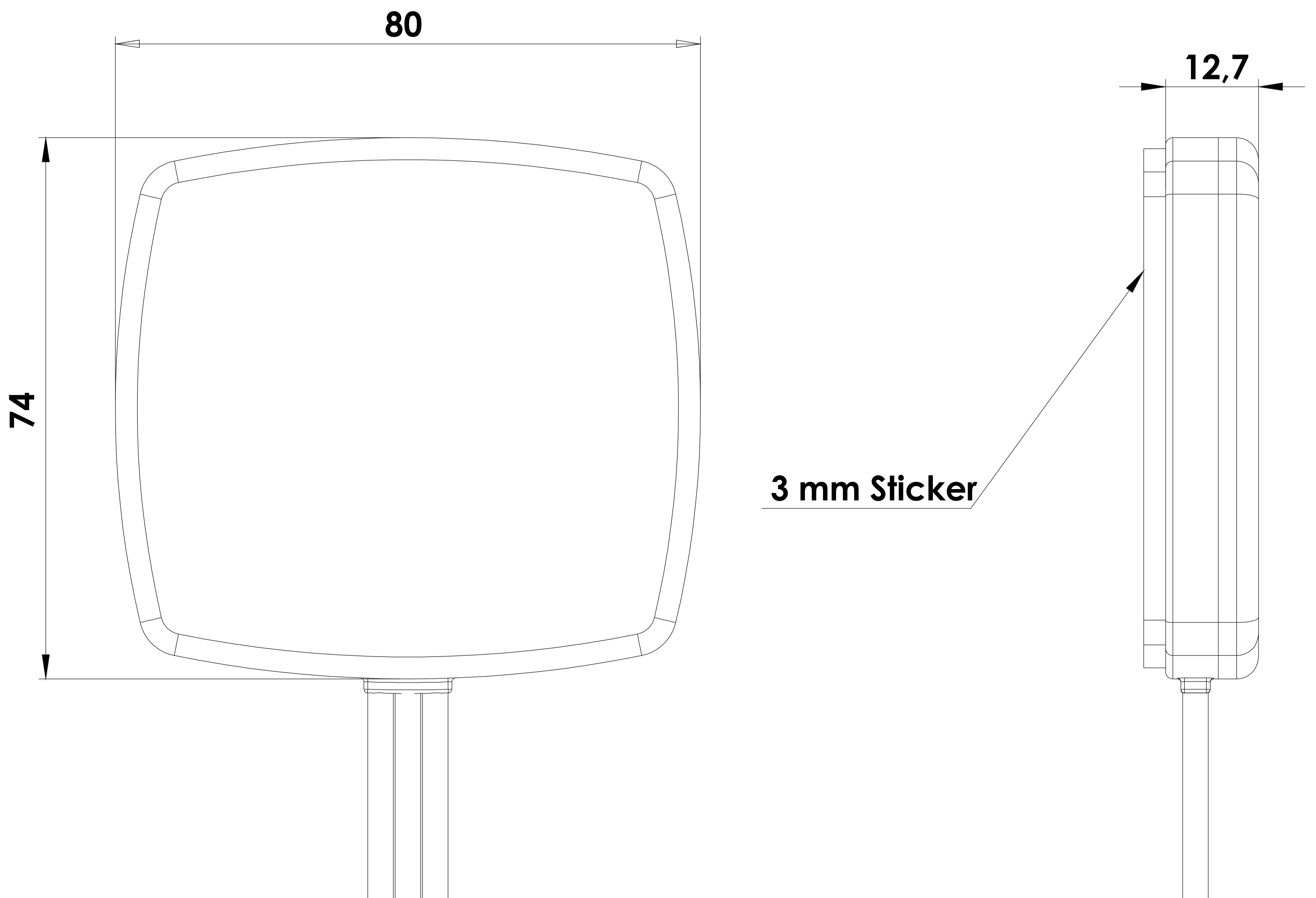


1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images

