

2JP0175BGF

CELLULAR/LTE, GNSS and Iridium Screw Mount

Key Features

Cable 1: CELLULAR / LTE

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

Cable 2: GPS/GLONASS/QZSS/Galileo

- 1575-1606 MHz

Cable 3: Iridium

- 1616-1627 MHz

Screw Mount

Iridium Certified

Ground Plane Independent

Customizable Cable and Connector

Dimensions 75 × 69 × 8.4 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)	~-9.3	~-6.8	~-19.9
VSWR	~2.1:1	~2.7:1	~1.3:1
Efficiency (%)	~45.9	~50.3	~64.1
Peak Gain (dBi)	~-2.7	~-5.1	~-5.3
Average Gain (dB)	~-3.8	~-3.2	~-1.9
Impedance (Ohm)	50		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power (W)	25		
Connector Type	SMA-Male Standard (Other Connectors Available)		
Cable Length	200 mm Standard (Any Cable Length Available)		
Cable Type	MC137 Standard (Other Cables Available)		

Cable 2

Parameters	GNSS Ceramic Active Antenna	
Standards	GPS/QZSS/Galileo	GLONASS
Band (MHz)	1575	1602
Frequency (Mhz)	1575.42	1598-1606
Patch Size (mm)	25 x 25 x 4	
Return Loss (dB)	<=-15.0 dB	
VSWR	<=1.4:1 dB	
Impedance (Ohms)	50	
Radiation Pattern	Hemispherical	
Polarization	RHCP	
Saw Filter Type	Pre-filter	
Active Gain (dB)	28 @ 2.7 V	
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)	2kV	
Connector Type	SMA-Male Standard (Other Connectors Available)	
Cable Length	200 mm Standard (Any Cable Length Available)	
Cable Type	MC137 Standard (Other Cables Available)	

Antenna Measurement Conditions:

Free Space

200 mm of Cable MC137

Measured in Certified CTIA 3D Anechoic Chamber

Cable 3

Parameters	Iridium Antenna
Standards	Iridium
Band (MHz)	1621
Frequency (MHz)	1616-1627
Return Loss (dB)	~-12.5
VSWR	~1.6:1
Efficiency (%)	~68.1
Peak Gain (dBic)	~5.2
Average Gain (dB)	~-1.8
Radiation Pattern	Hemispherical
Polarization	RHCP
Connector Type	SMA-Male Standard (Other Connectors Available)
Cable Length	200 mm Standard (Any Cable Length Available)
Cable Type	MC137 Standard (Other Cables Available)

Antenna Measurement Conditions:

Free Space

200 mm of Cable MC137

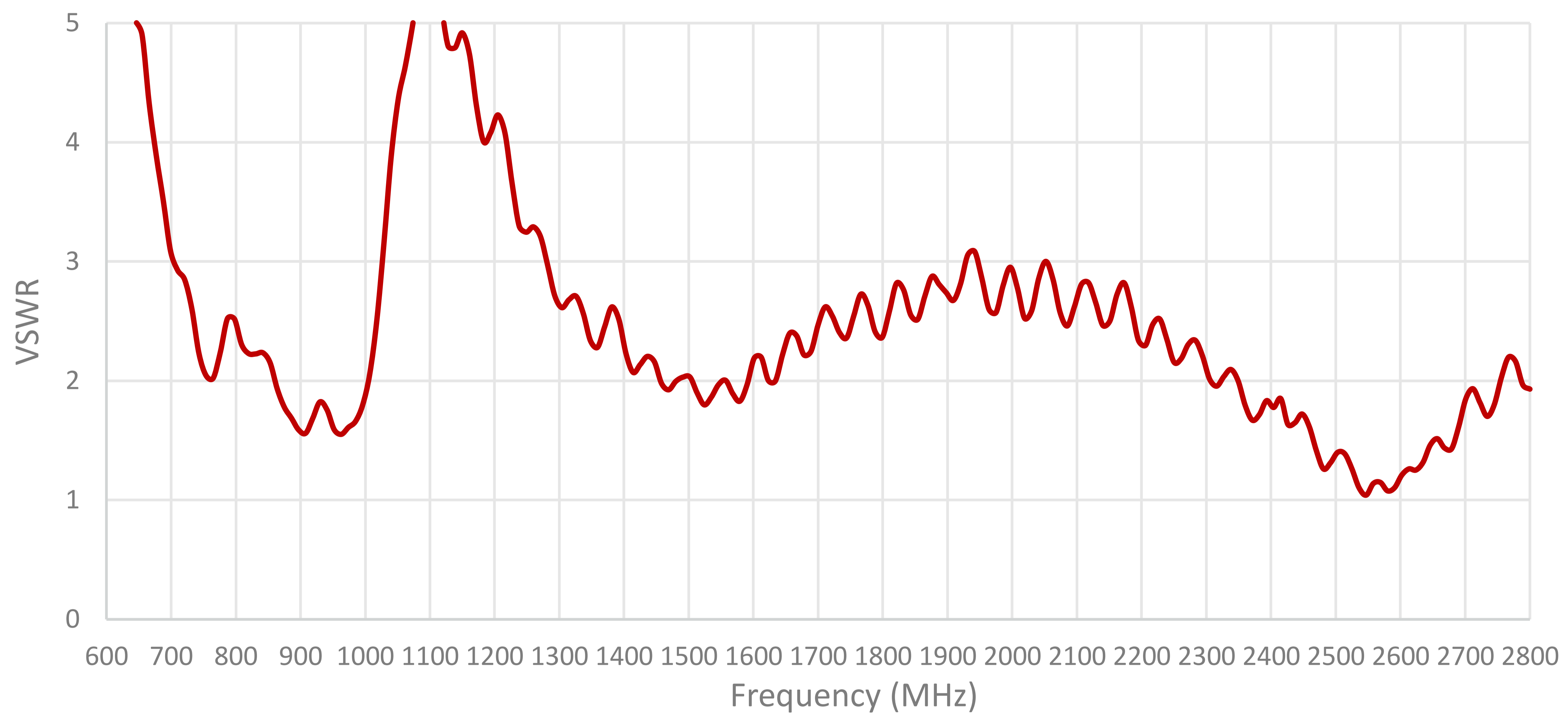
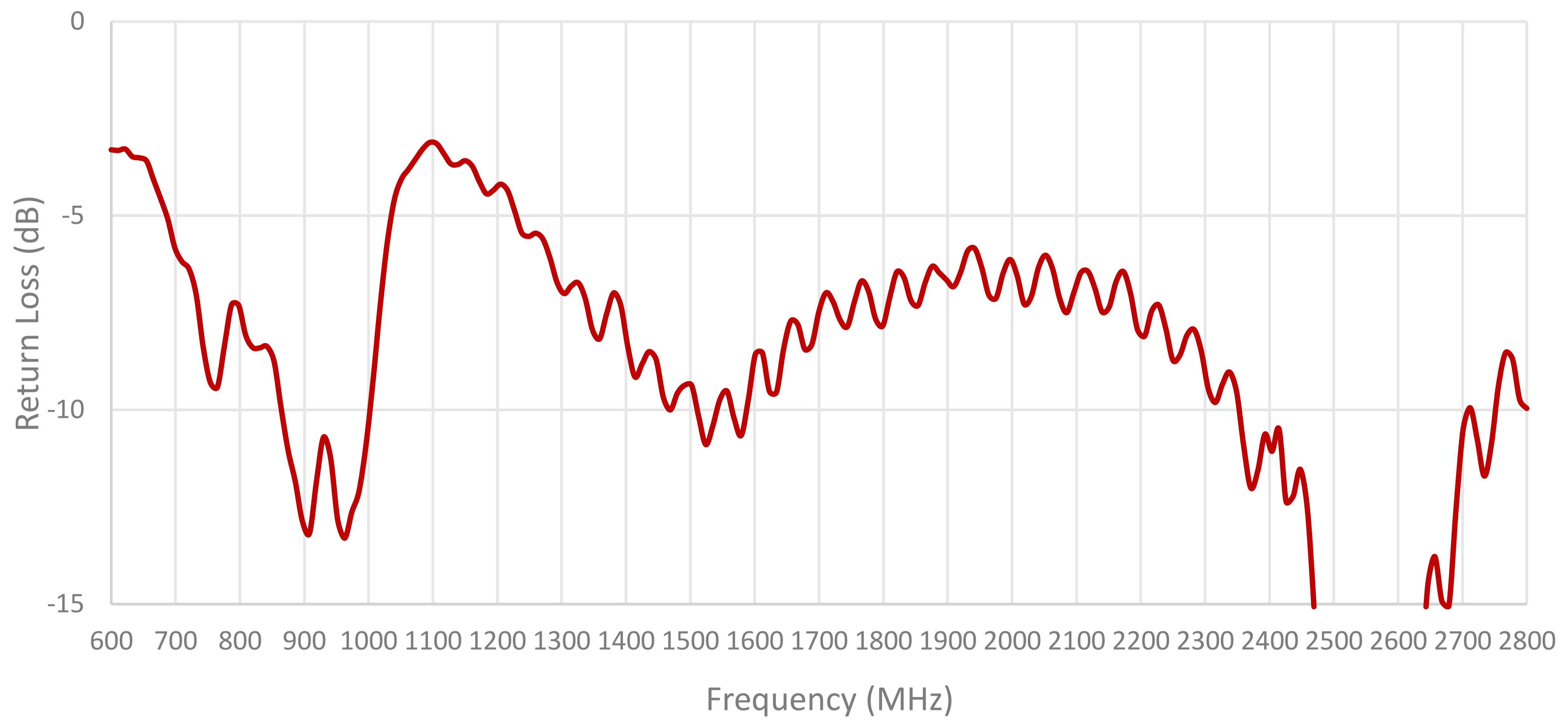
Measured in Certified CTIA 3D Anechoic Chamber

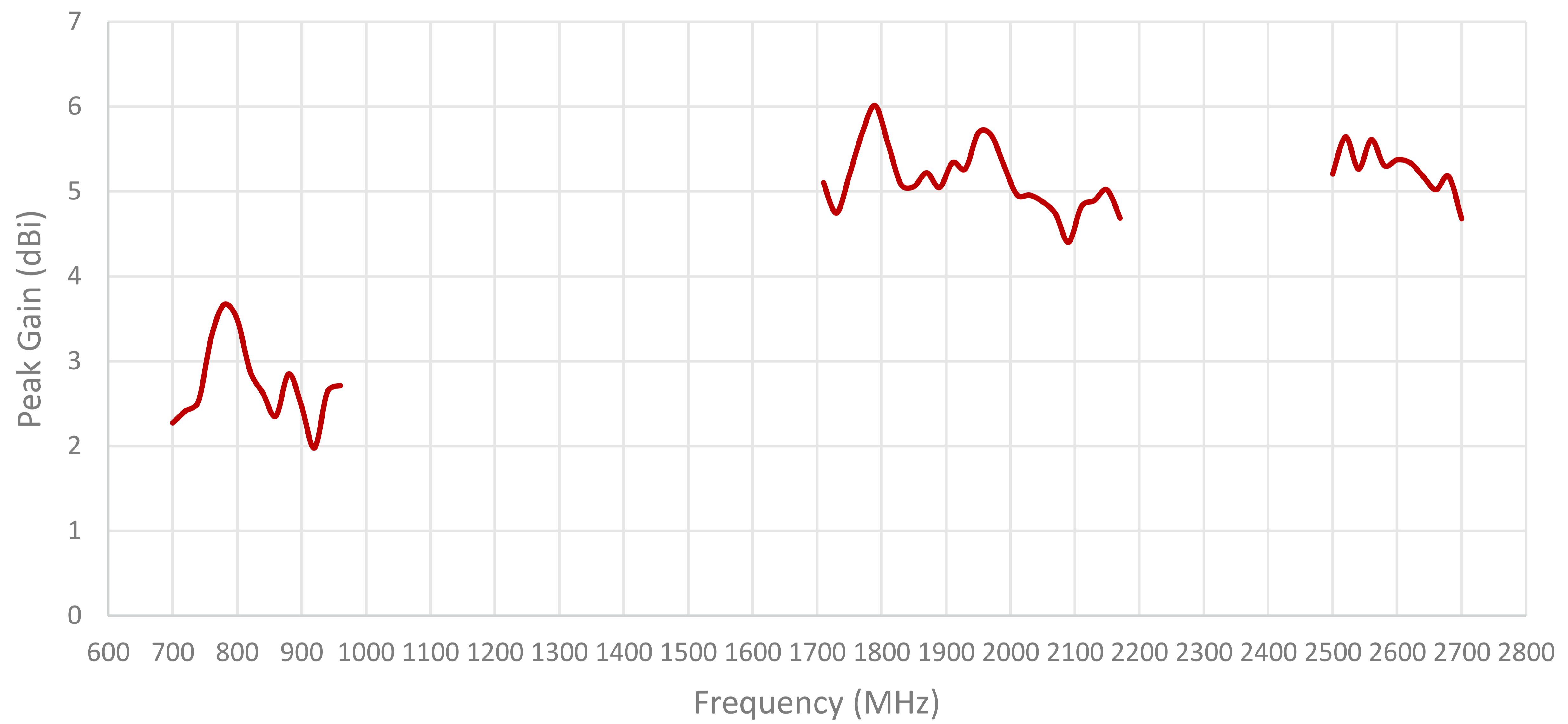
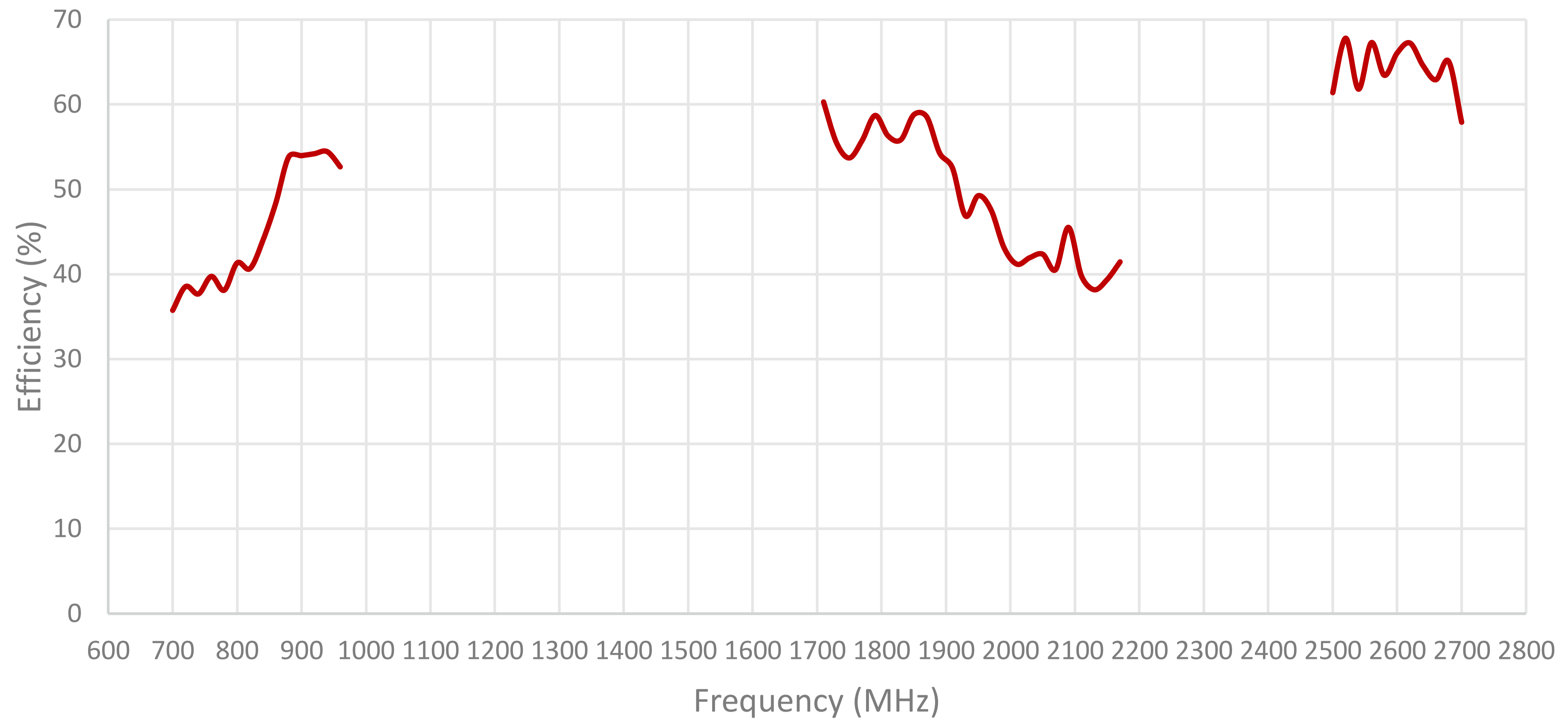
2. Mechanical and environmental specifications

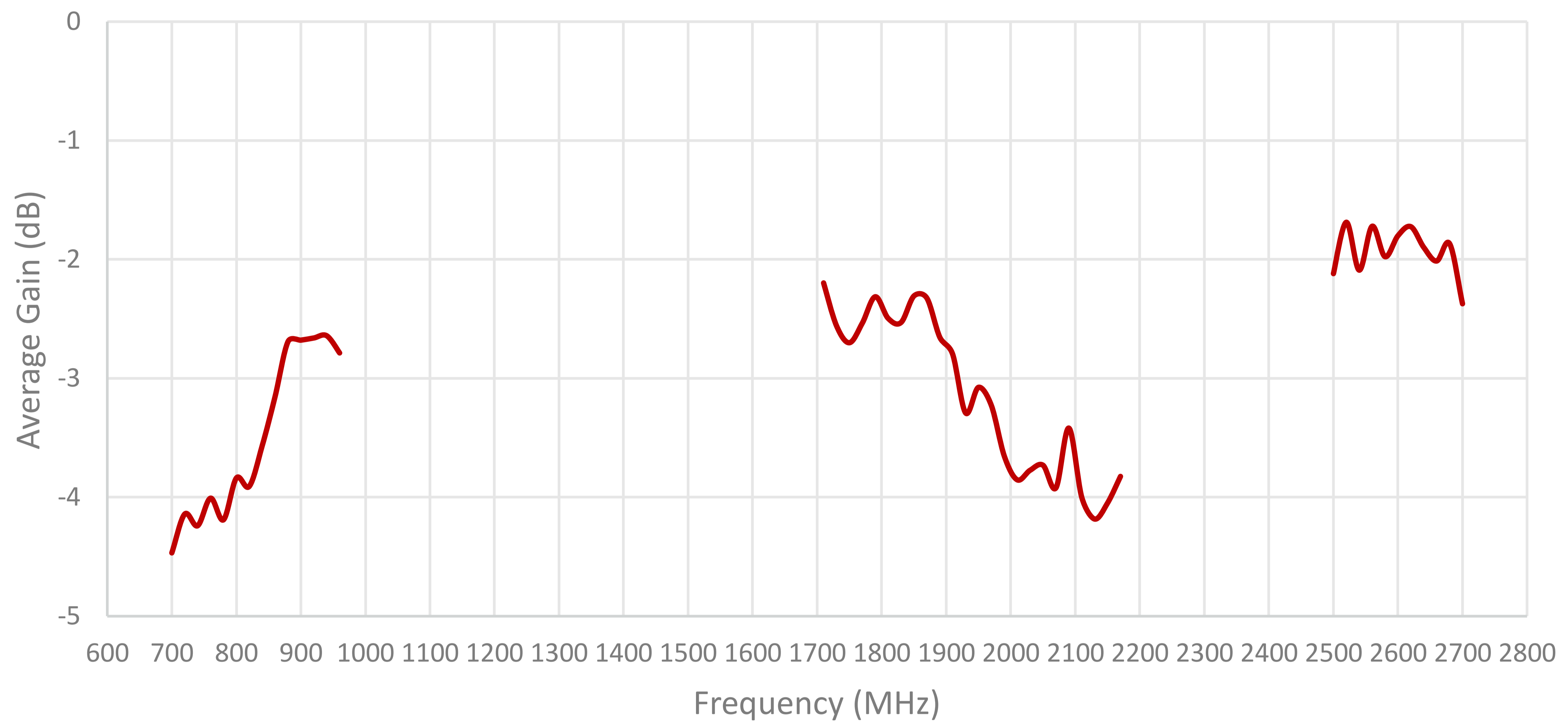
Specifications	2JP0175BGF
Mounting Type	Screw Mount
Dimensions (mm)	75 × 69 × 8.4
Color	Black
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	Iridium Certified

3. Antenna parameters

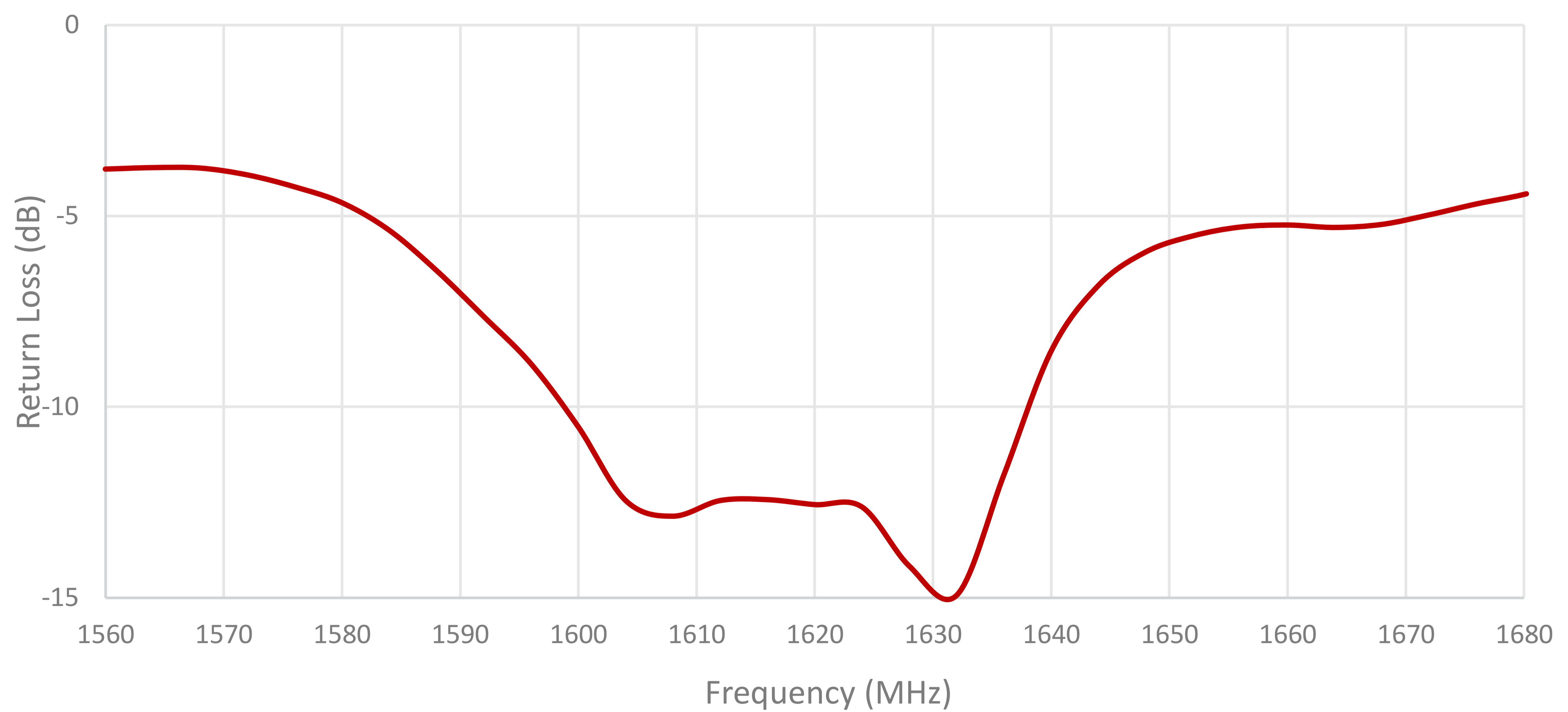
Cable 1: CELLULAR/LTE

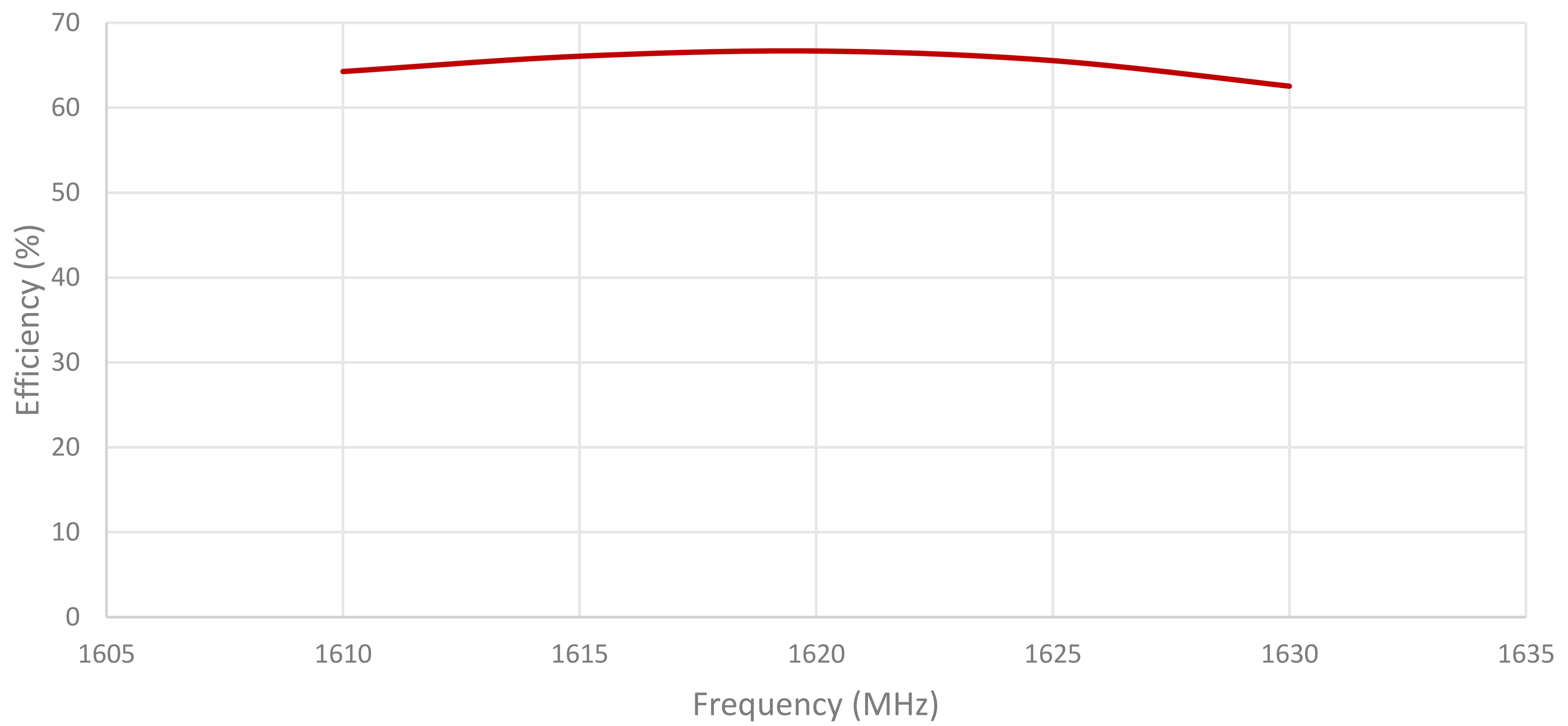
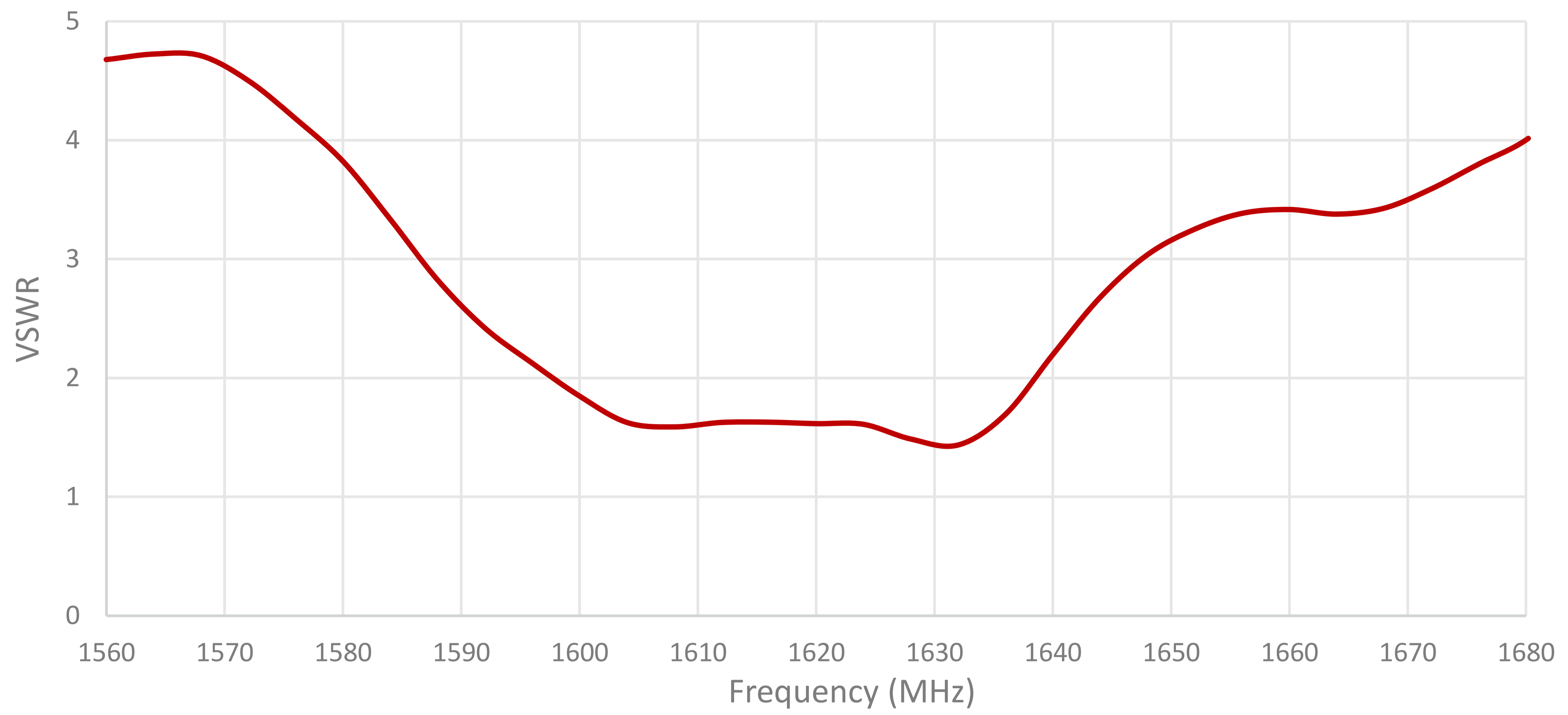


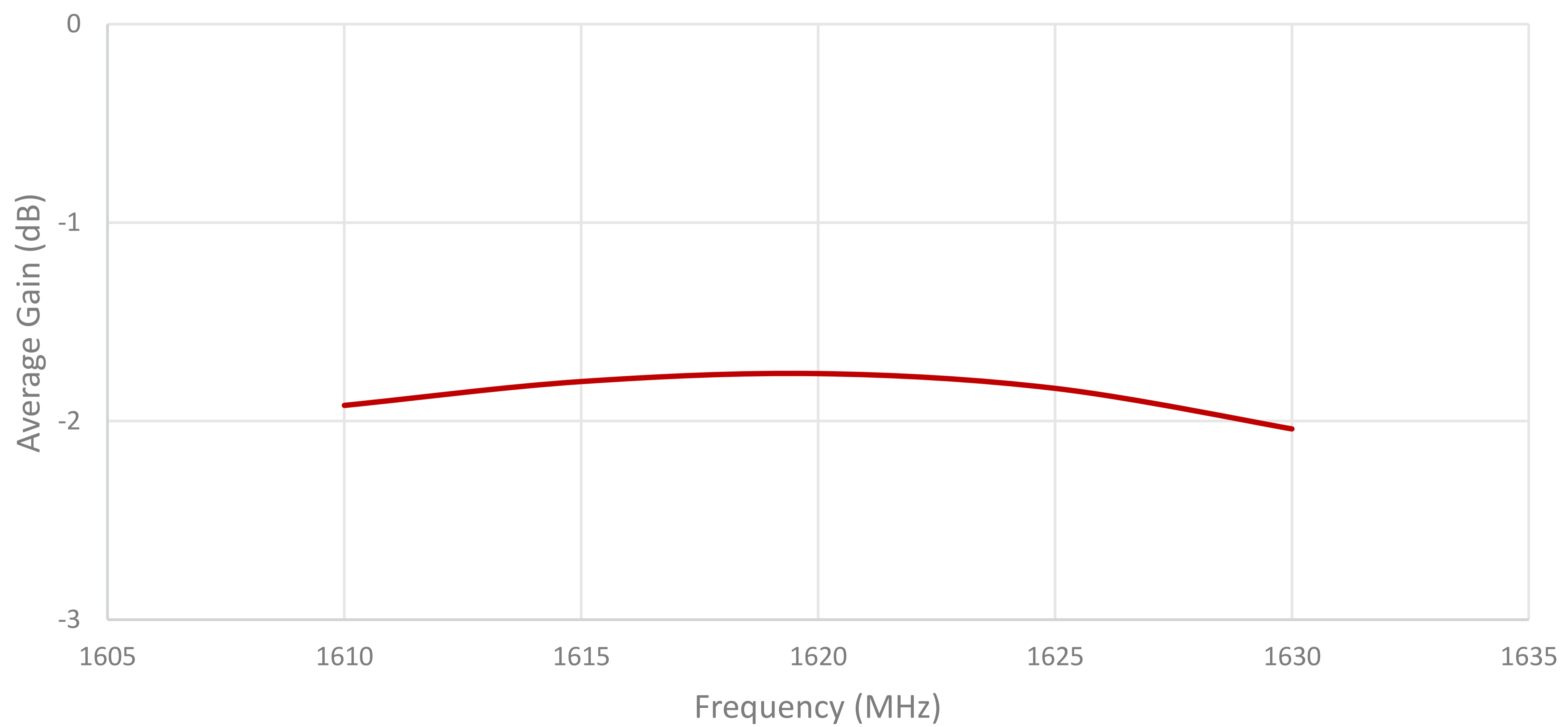
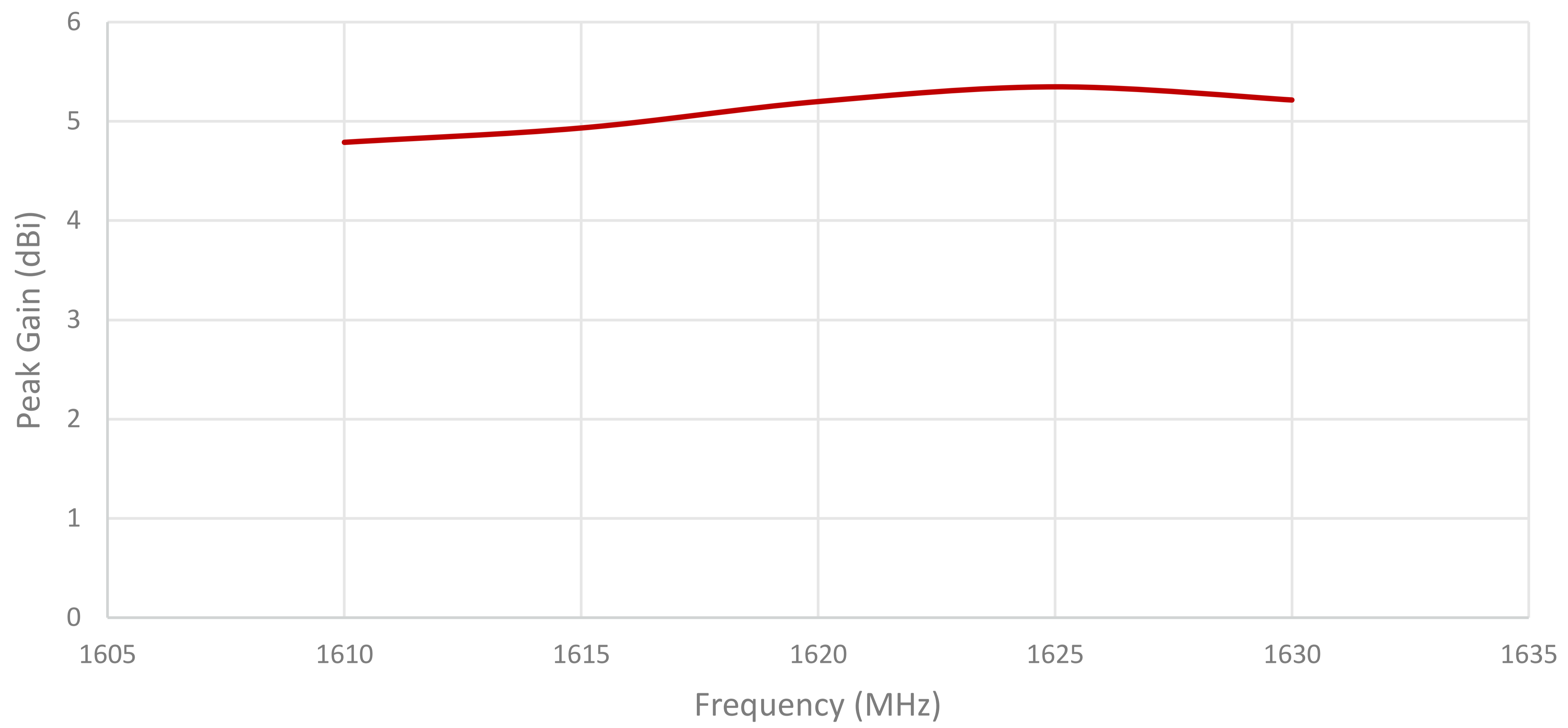


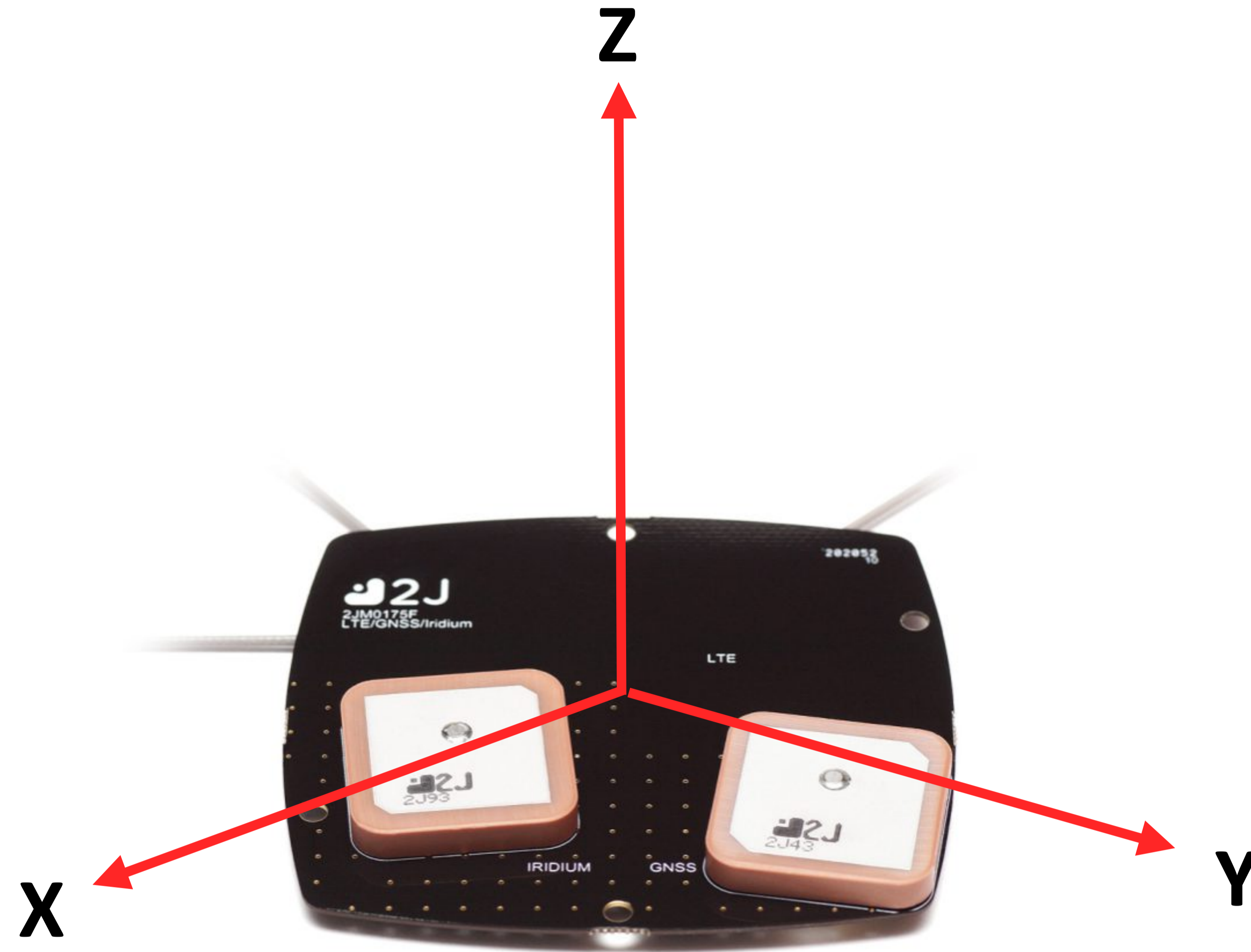


Cable 2: IRIDIUM



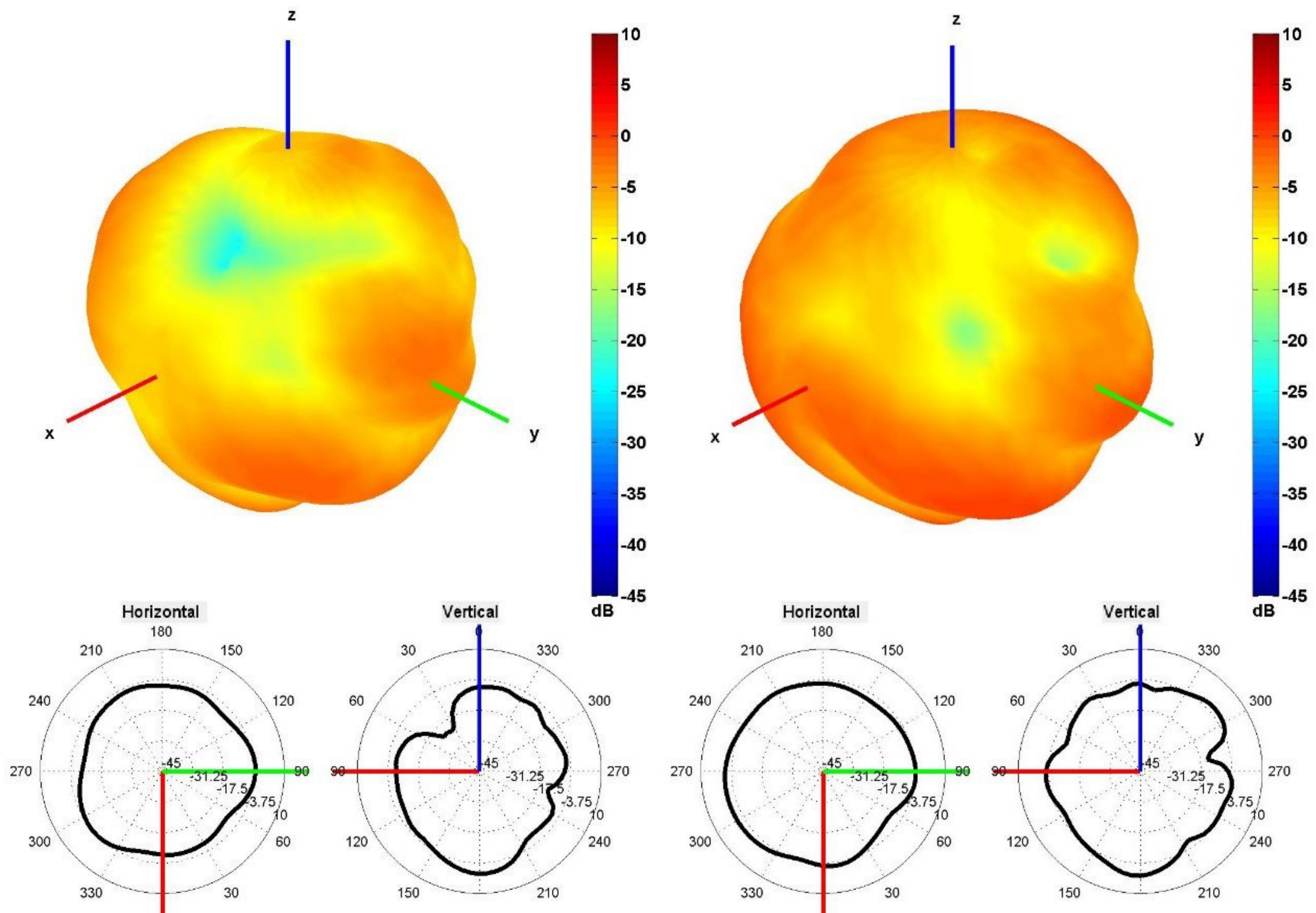




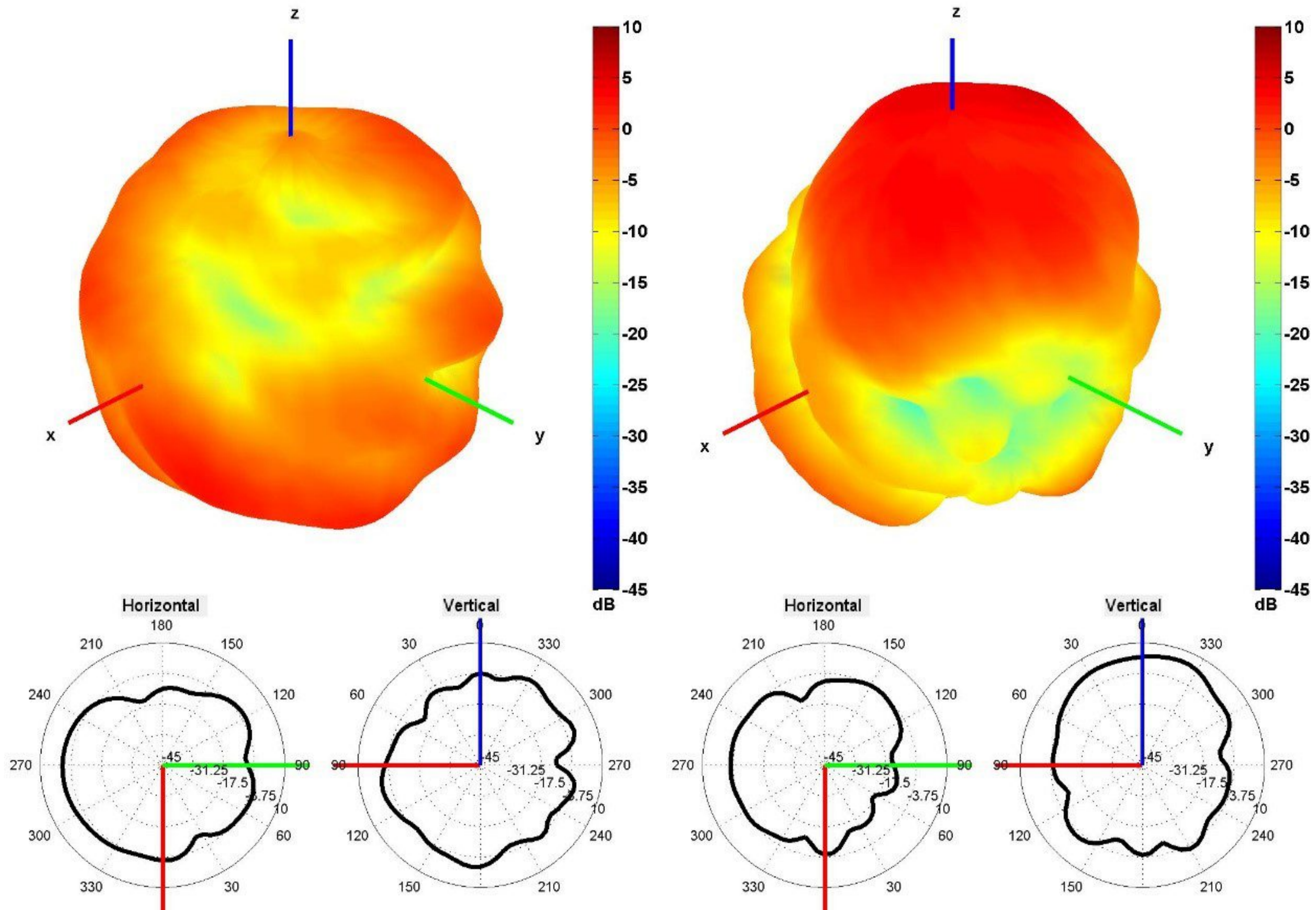


Radiation pattern reference

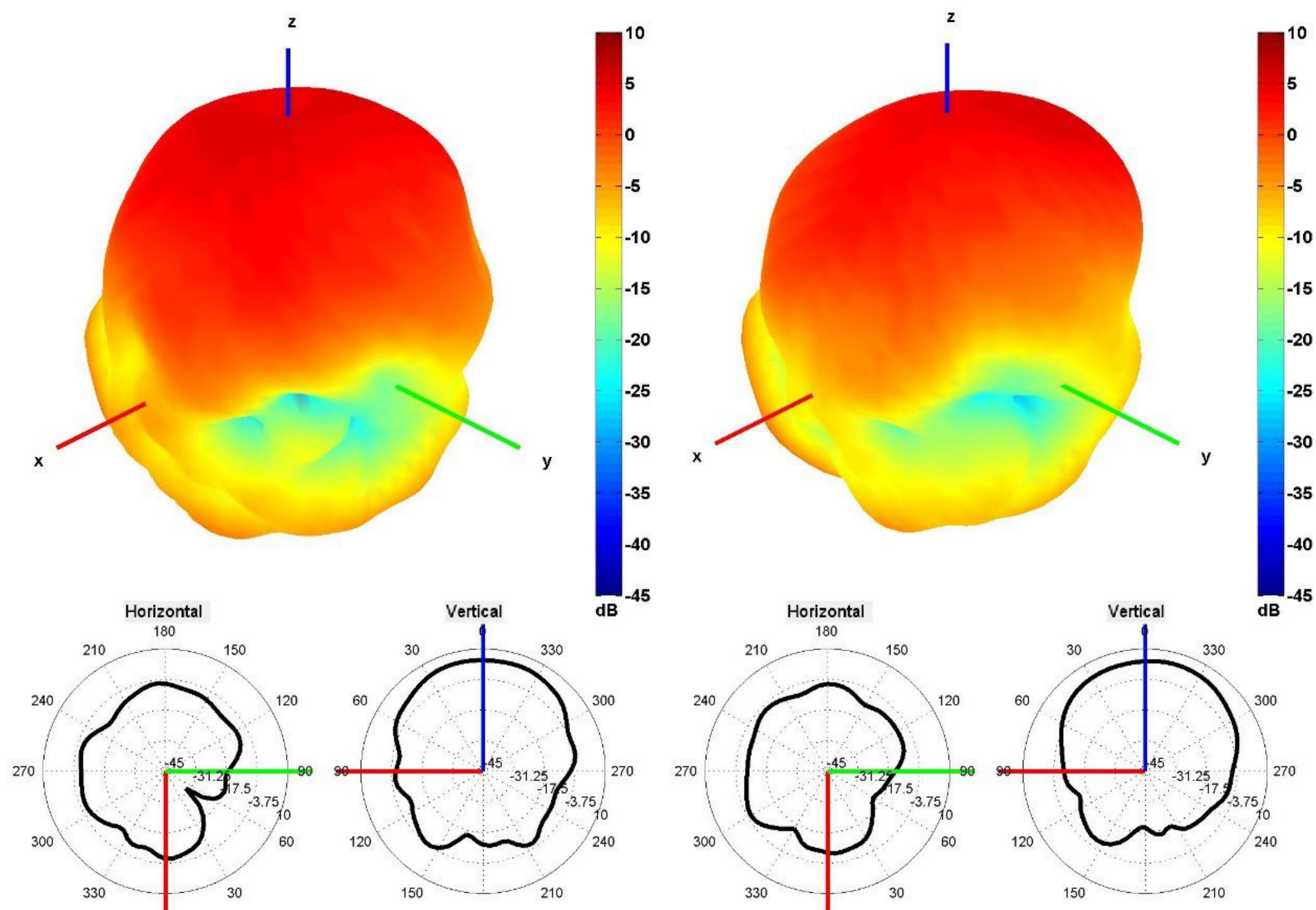
Cable 1: CELLULAR/LTE



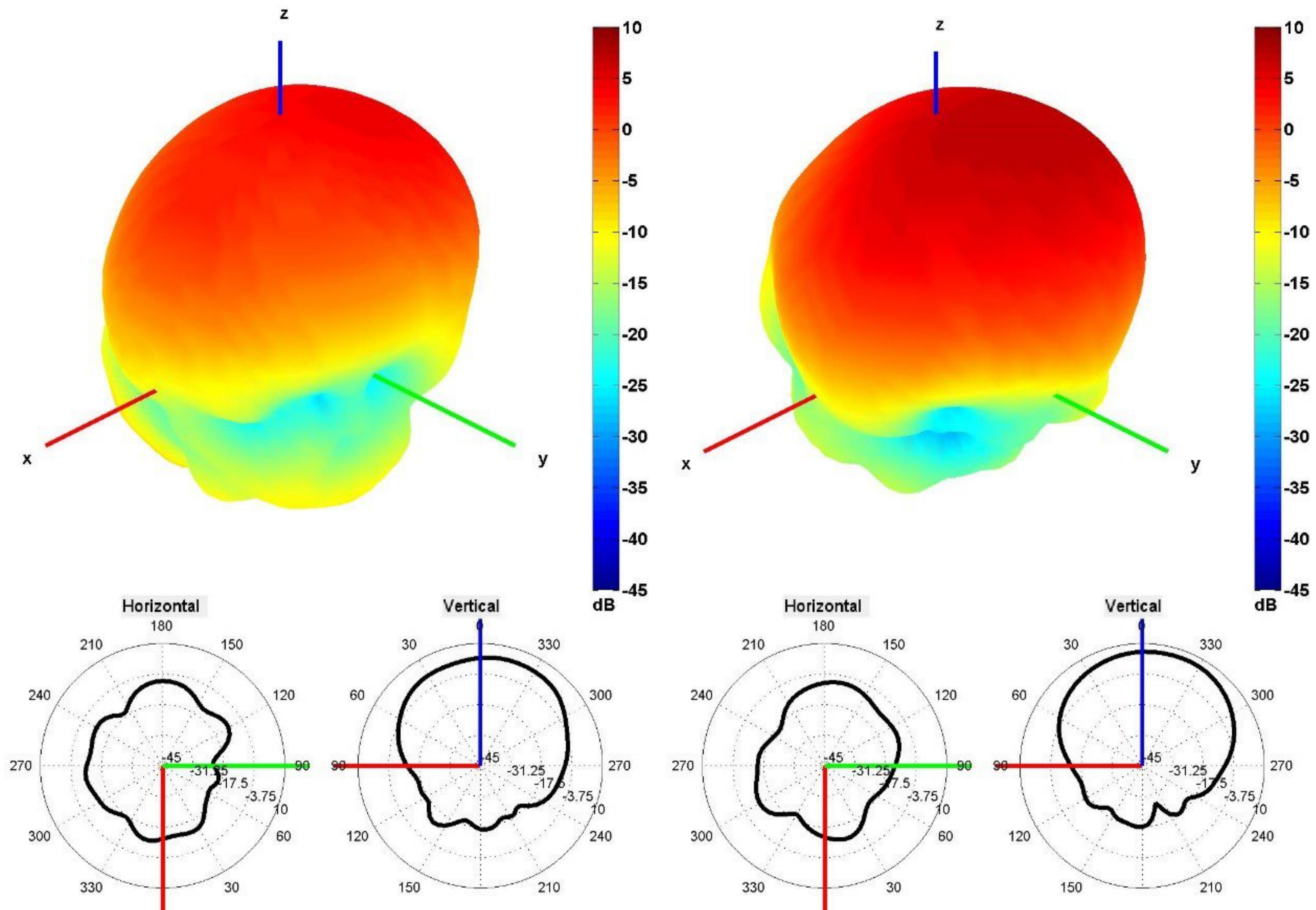
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

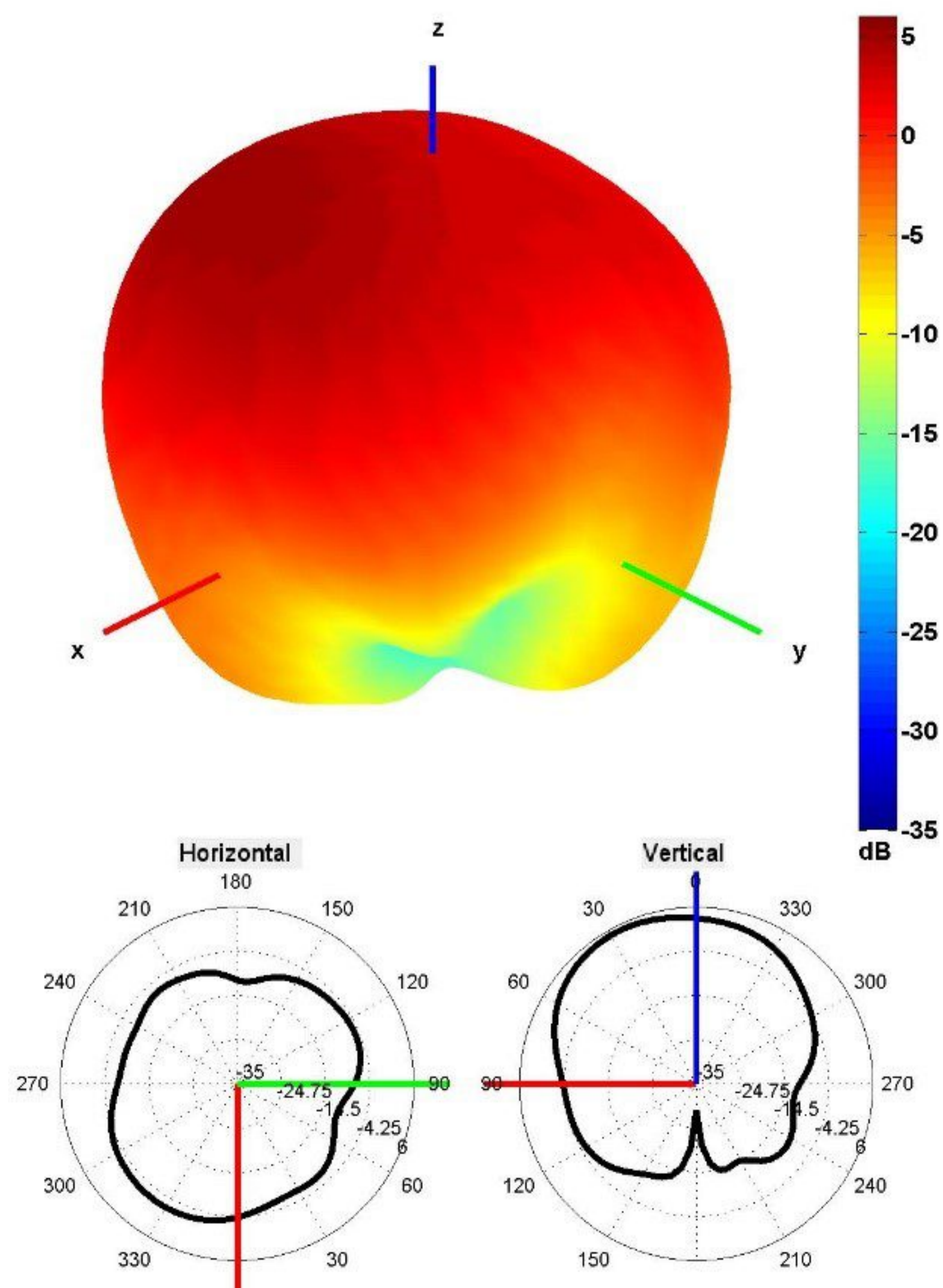


1850 and 1950 MHz Radiation pattern



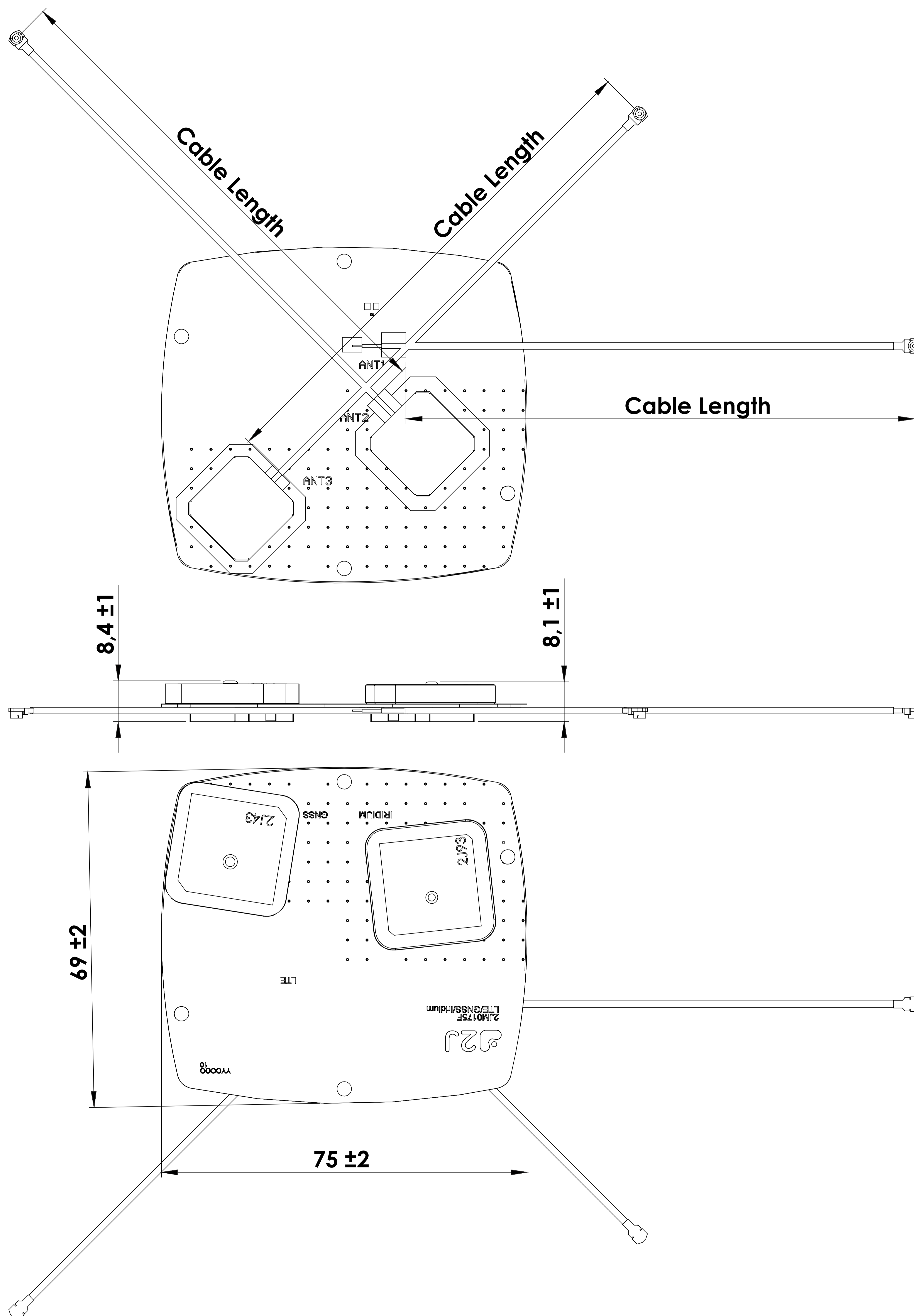
2100 and 2600 MHz Radiation pattern

Cable 2: IRIDIUM



1621 MHz Radiation pattern

4. Antenna drawings



Note: Dimensions are in millimeters

5. Antenna Images

