

2J6975MPGF

LTE, GNSS and IRIDIUM Screw Mount



FEATURES

- Screw Mount
- Ground Plane Independent
- Cable 1: Cellular/LTE (698-960, 1710-2170 and 2500-2700 MHz)
- Cable 2: Iridium (1616-1627 MHz)
- Cable 3: GPS/GLONASS (1575-1610 MHz)
- IP67, IP69
- 80 x 74 x 43 mm
- Customized Cable and Connector

ANTENNA AND ELECTRICAL SPECIFICATIONS

Cable 1	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		
Polarization	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	D302 Standard (Other Cables Available)		

Antenna Measurement Conditions

Mounted on Metal Plate of 30 x 30 cm
200 cm of Cable D302

Measured in Certified CTIA 3D Anechoic Chamber

Cable 2	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 (dBi)	~5.2
Average Gain (dB)	~-1.8
Radiation Pattern	Hemispherical
Polarization	RHCP
Connector Type	SMA-Male Standard (Other Connectors Available)
Cable Length	300 cm Standard (Any Cable Length Available)
Cable Type	D302 Standard (Other Cables Available)

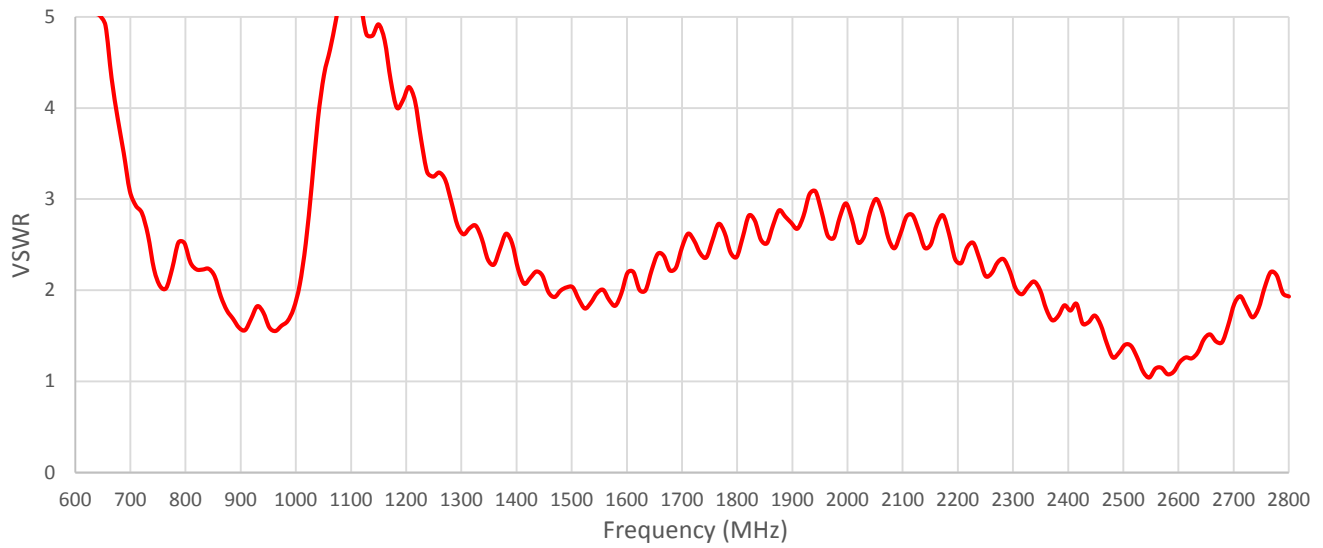
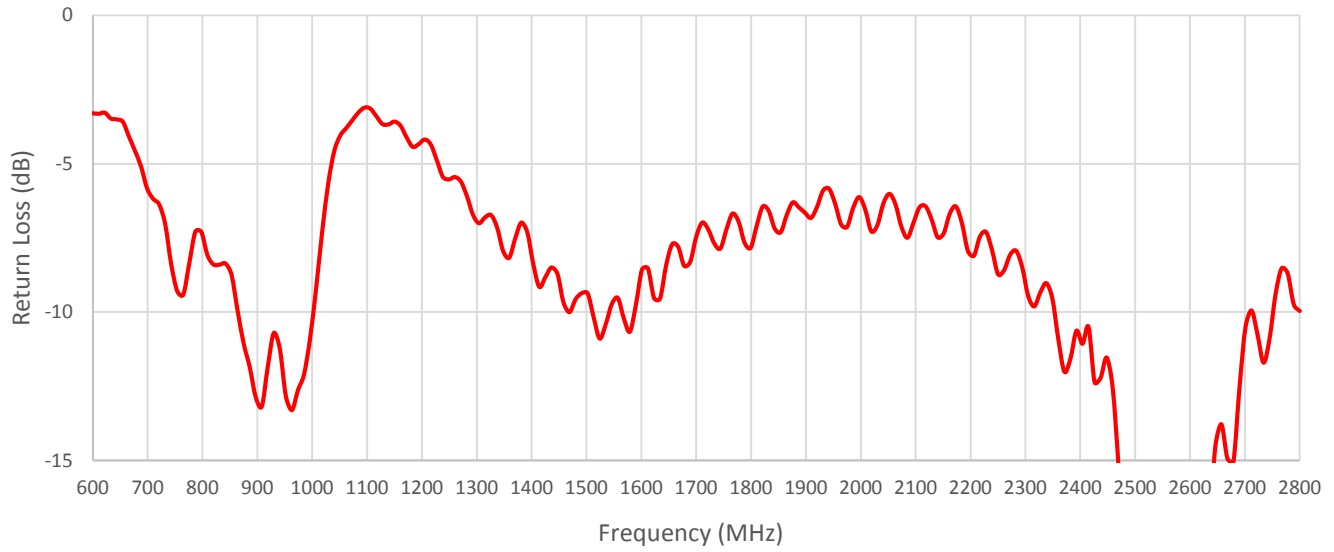
Cable 3	GPS/GLONASS Antenna	
	GPS/QZSS/Galileo	GLONASS
Standards	GPS/QZSS/Galileo	GLONASS
Bands (MHz)	1575	1602
Frequency (MHz)	1575.42	1598-1606
Patch Size (mm)	25 x 25 x 4	
Return Loss (dB)	<=-15.0 dB	
VSWR	<=1.4:1 dB	
Impedance	50	
Radiation Pattern	Hemispherical	
Polarization	RHCP	
Saw Filter	Pre-filter	
Active Gain (dB)	28 @ 2.7 V	
Noise Figure (dB)	1.5 Typ	
Voltage (V)	1.5 – 3.6	
Current (mA)	9 Typ	
Power Consumption (mW)	24.3 Typ	
ESD Protection	2kV	
Connector Type	SMA-Male Standard (Other Connectors Available)	
Cable Length (m)	300 cm Standard (Any Cable Length Available)	
Cable Type	D100 Standard (Other Cables Available)	

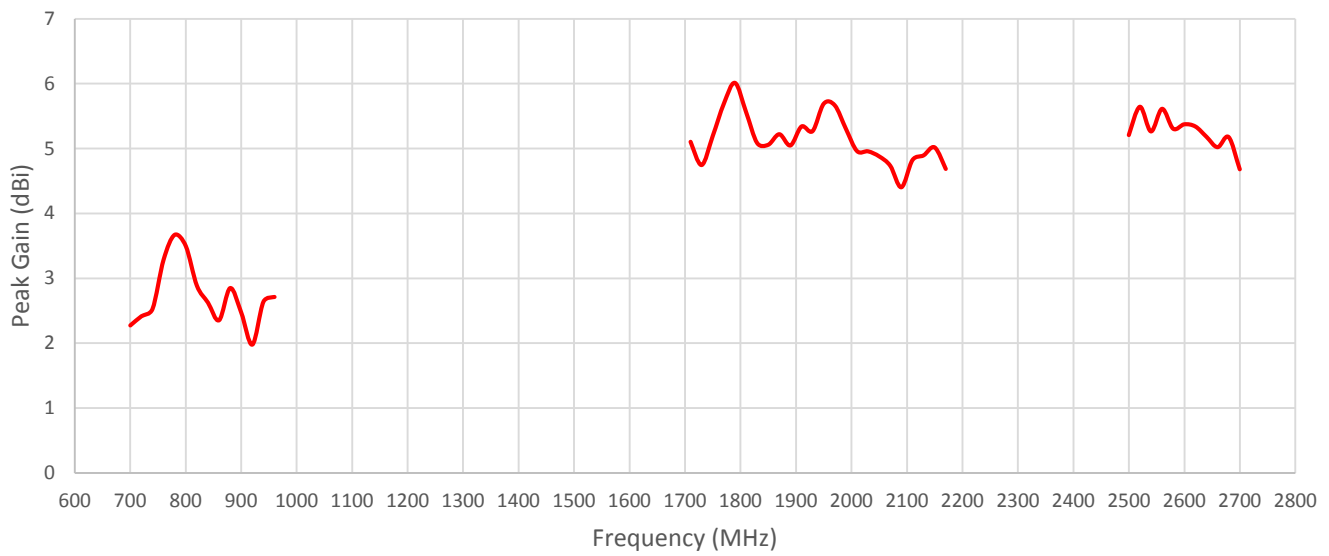
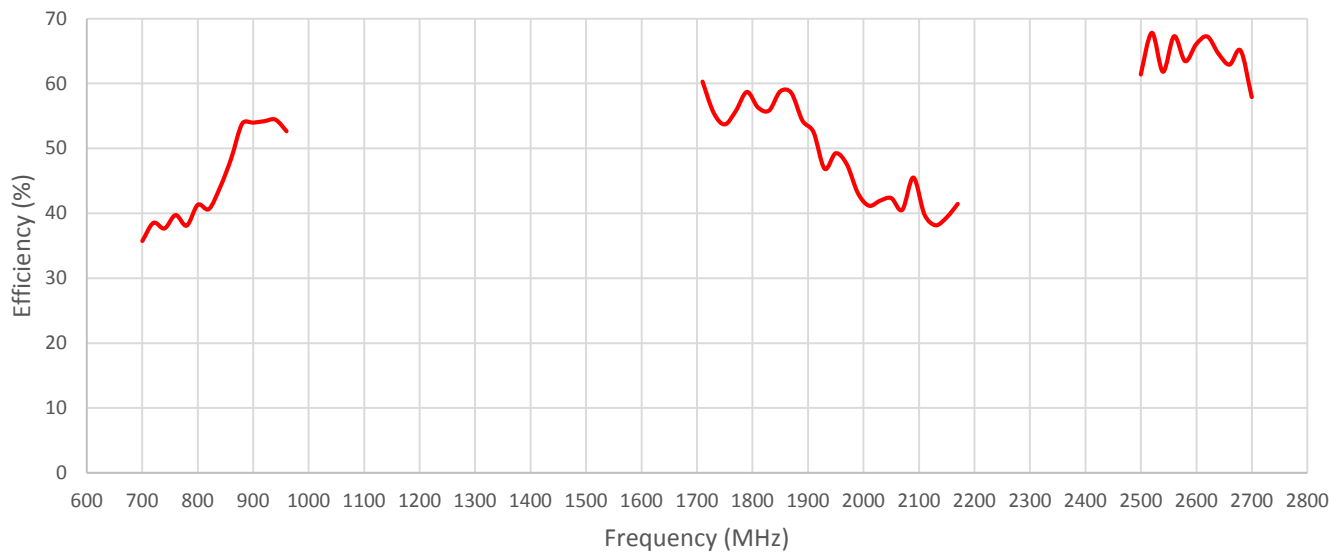
MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS

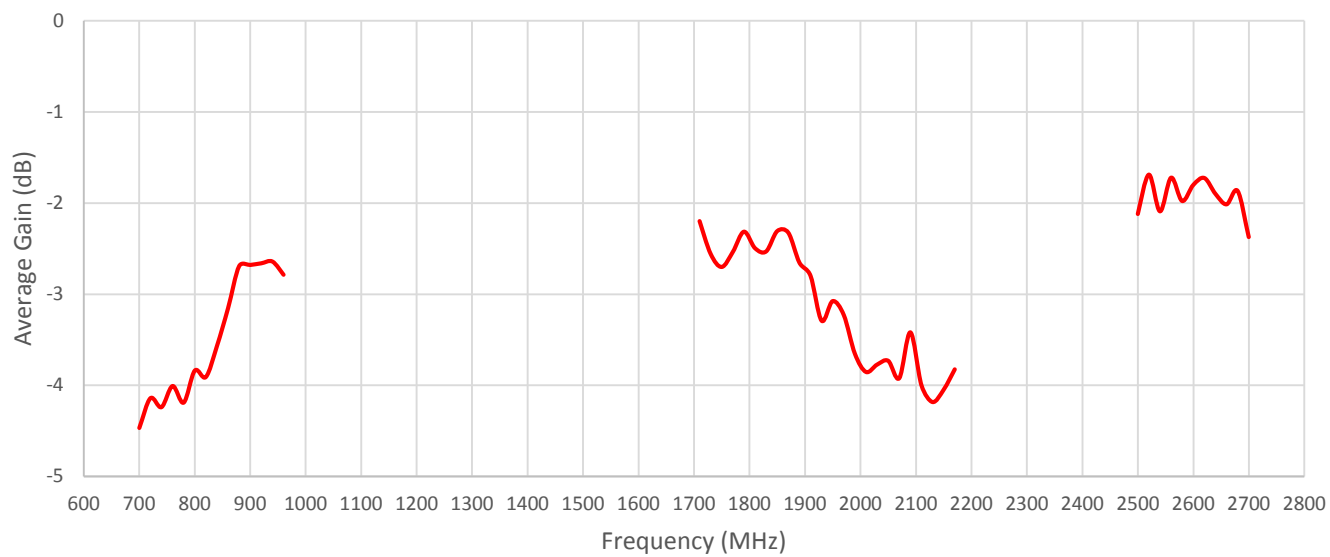
Specification	2J6975MPGF
Mounting Type	Screw Mount
Dimensions (mm)	80 x 74 x 43
Radome Type	ABS UV Stable
Radome Color	Black, White
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Ingress Protection	IP67, IP69
Substance Compliance	RoHS

ANTENNA PARAMETERS

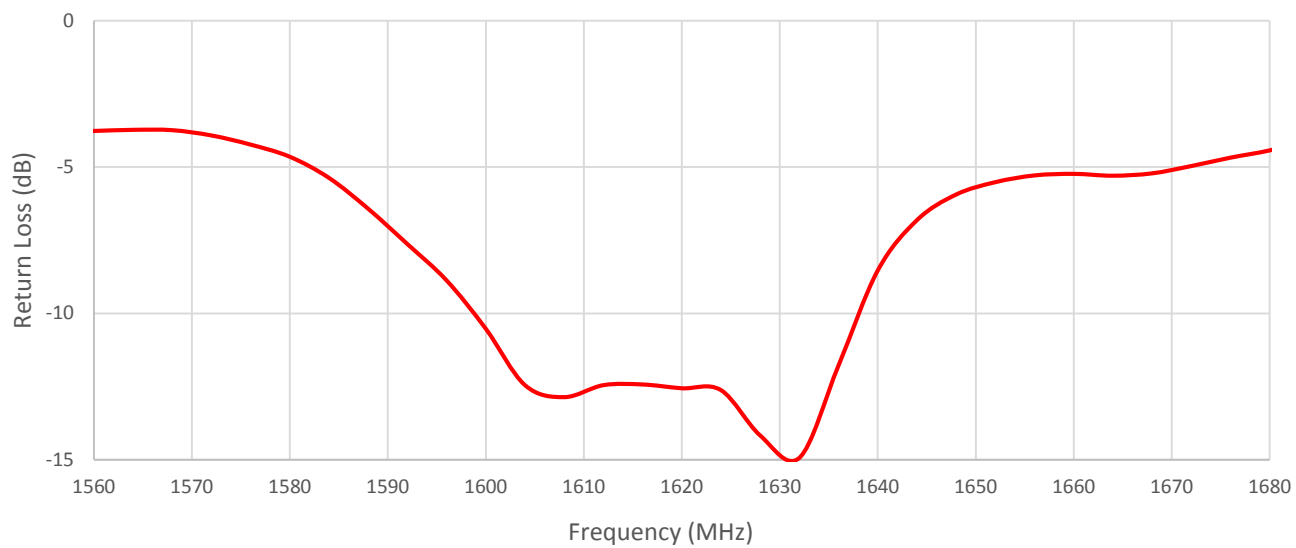
CABLE 1: Cellular/LTE

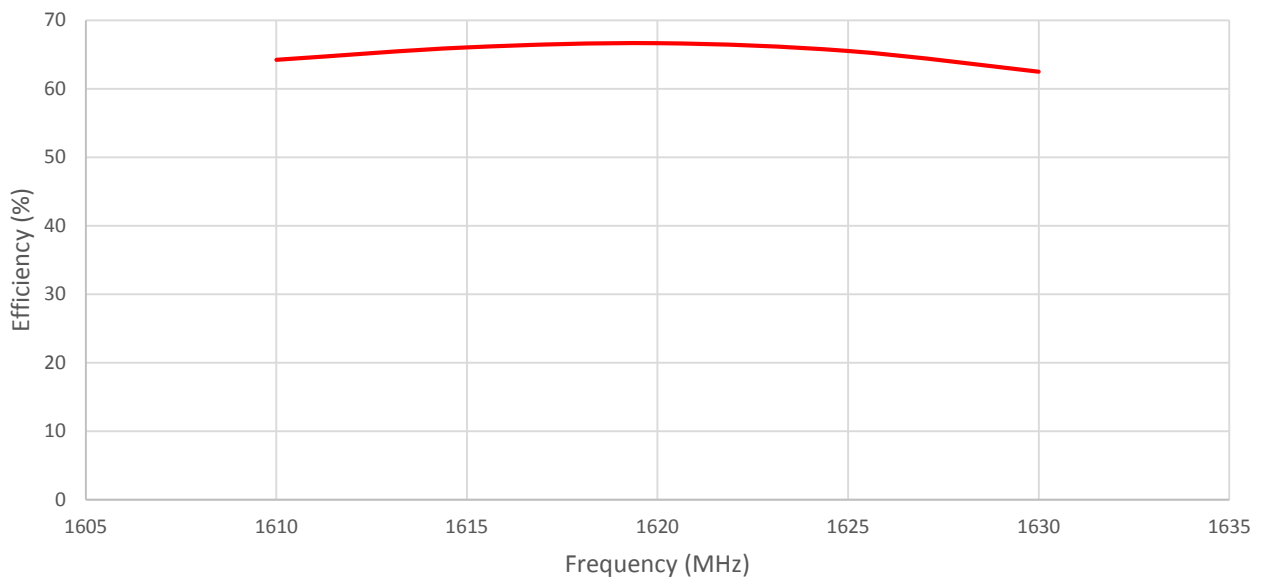
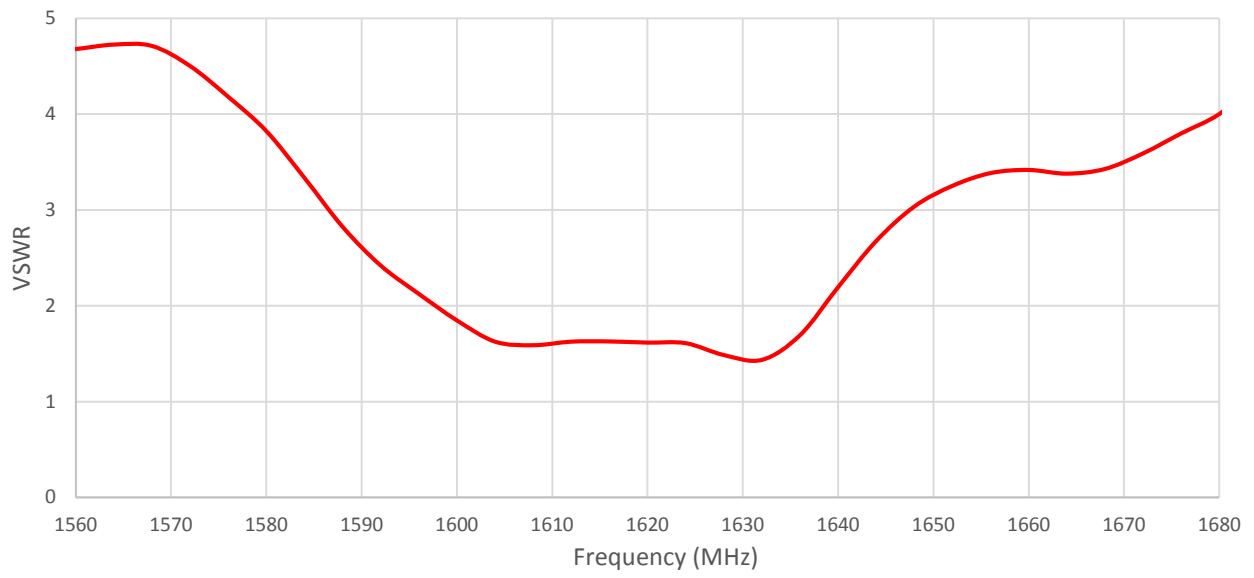


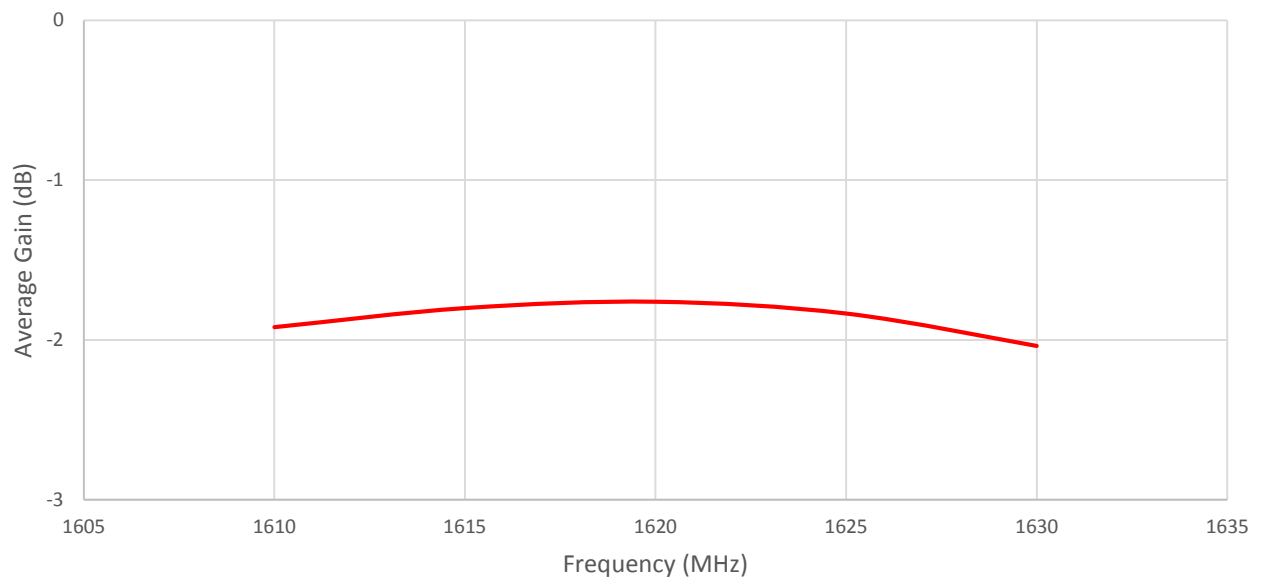
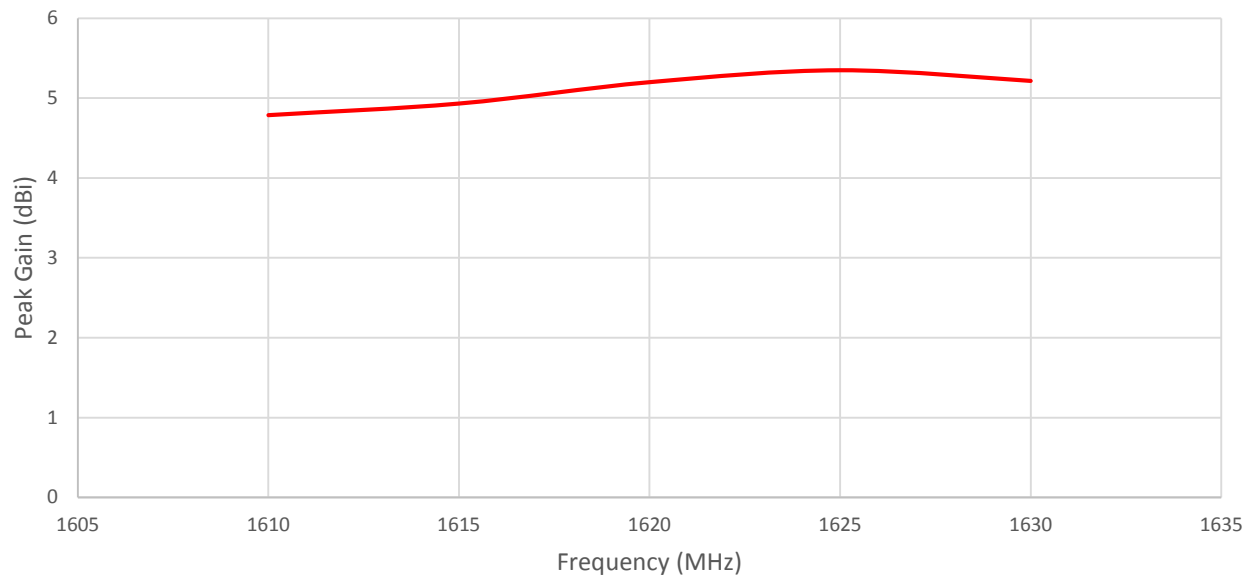




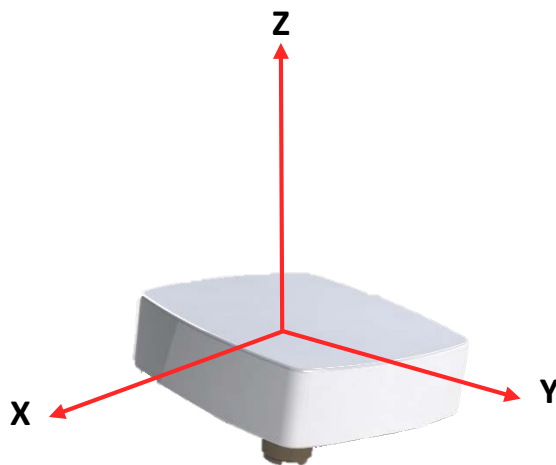
CABLE 2: Iridium





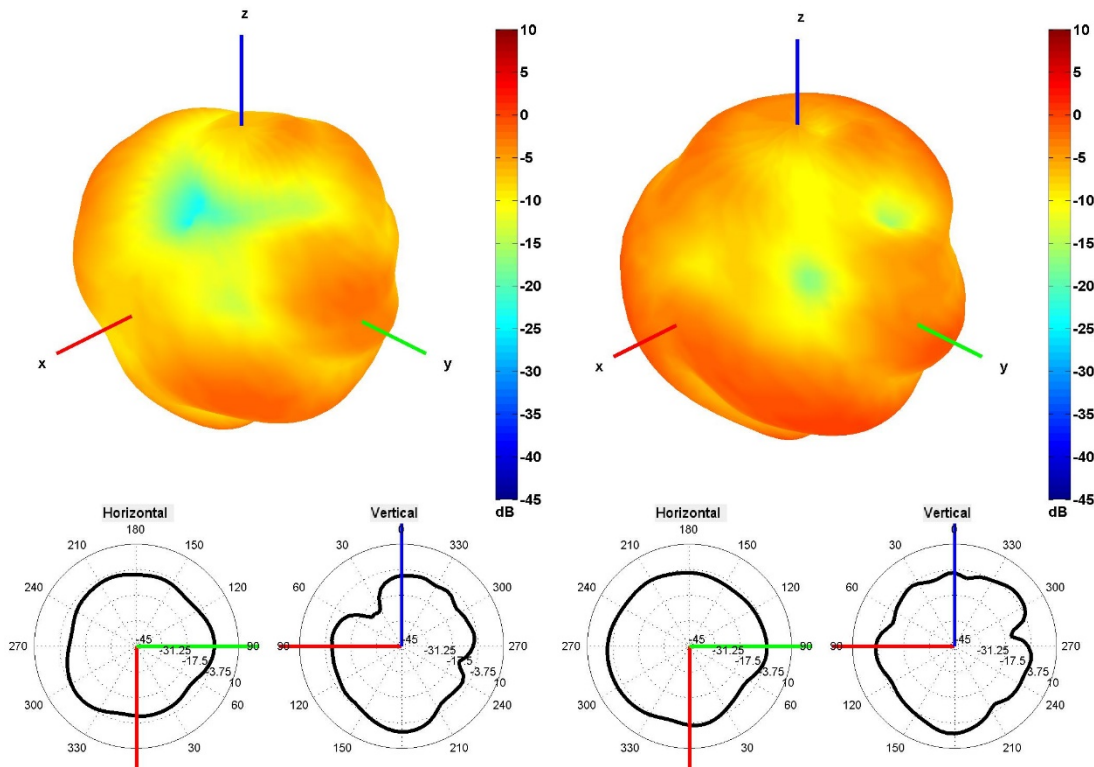


RADIATION PATTERNS

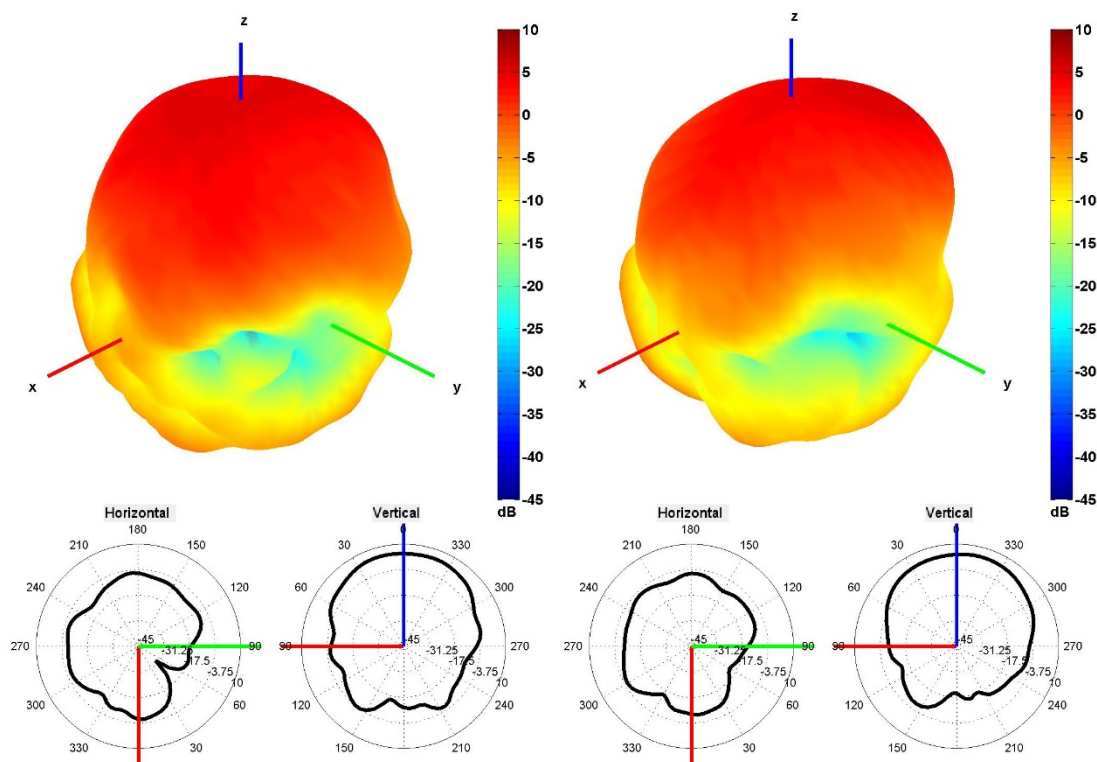
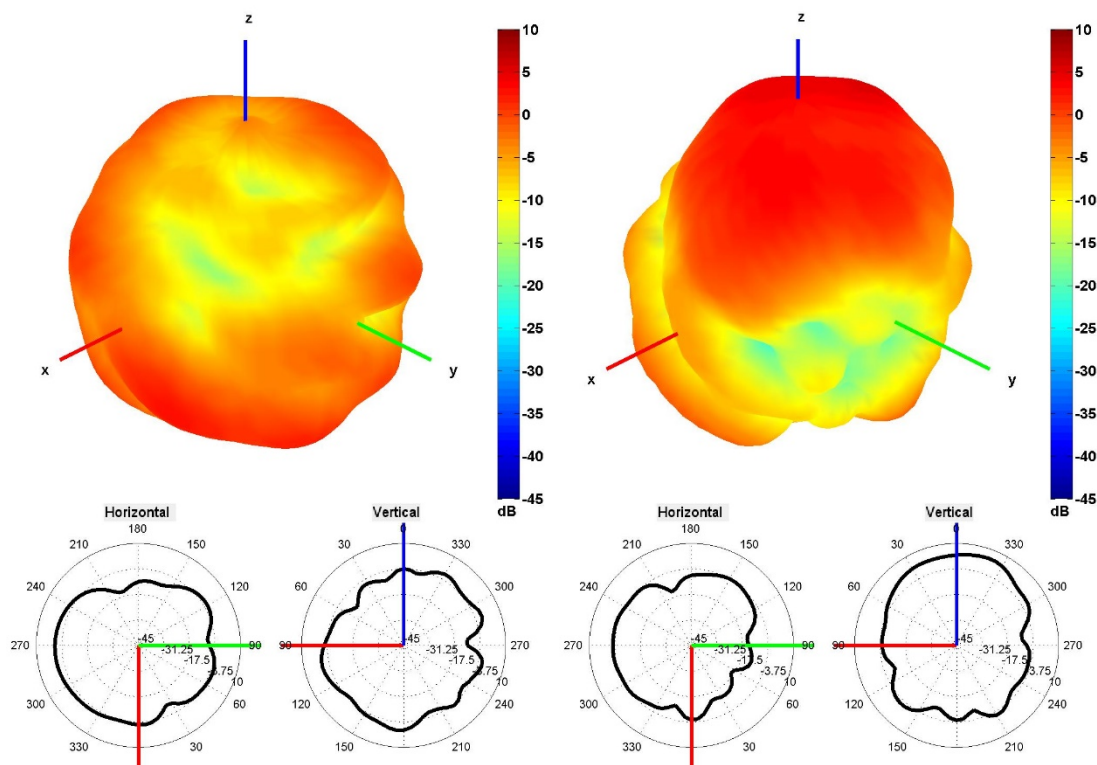


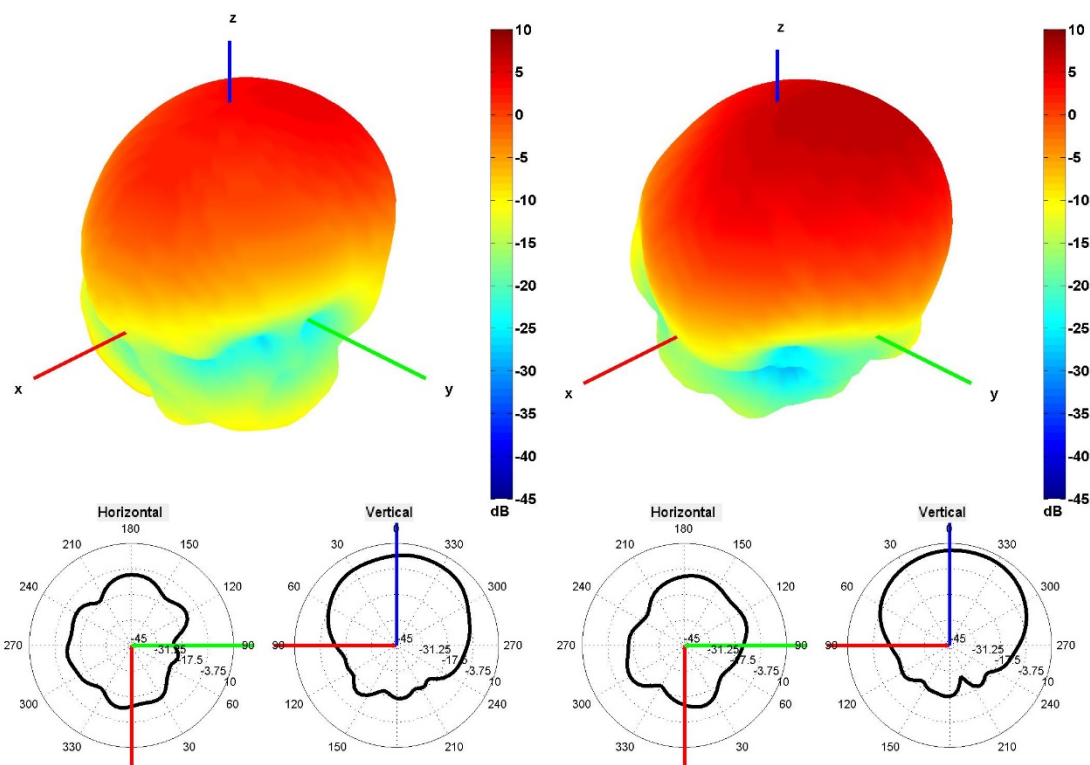
RADIATION PATTERN REFERENCE

CABLE 1: Cellular/LTE



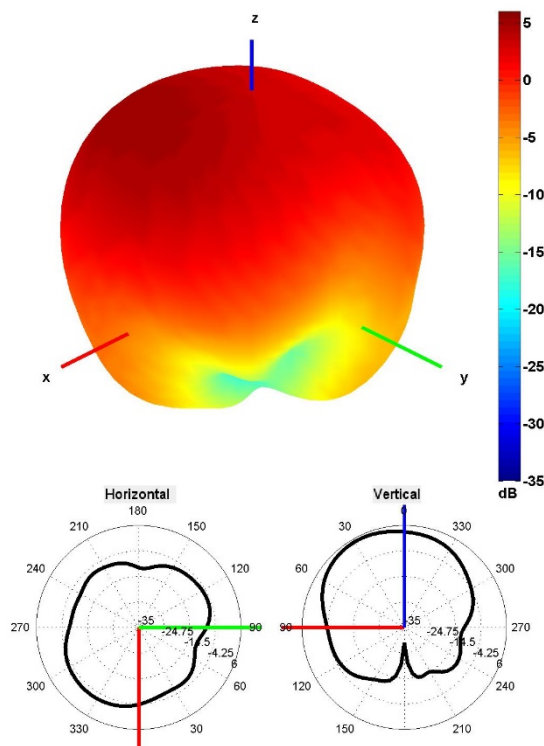
750 AND 850 MHz RADIATION PATTERN





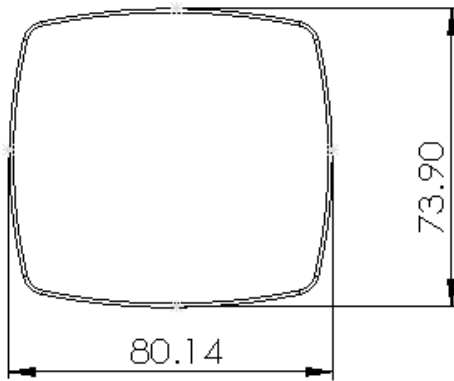
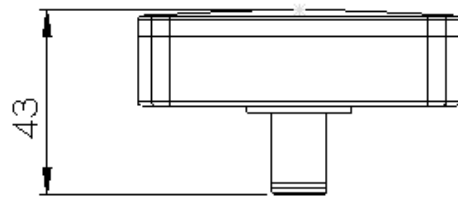
2100 AND 2600 MHz RADIATION PATTERN

CABLE 2: Iridium



1621 MHz RADIATION PATTERN

ANTENNA DRAWINGS



ANTENNA IMAGES

