

2J6902Bc

4x 2.4/5.0/6.0 GHz ISM Screw Mount

Key Features

Cable 1 - 4: 2.4/5.0/6.0 GHz ISM

- 2410-2490 MHz
- 4920-5925 Mhz
- 5925-7125 MHz

Screw Mount

Anti-Rotation Mounting

High Performance

Ground Plane Independent

Customizable Cable and Connector

Dimensions 80 × 74 × 25.6 mm

Certificates: IP67, IP69



1. Antenna and electrical specifications

Cable 1

Parameters	2.4/5.0/6.0 GHz ISM Antenna		
Standards	WiFi, BT, ZigBee, ISM		
Band (MHz)	2.4 GHz	5.0 GHz	6.0 GHz
Frequency (MHz)	2410-2490	4920-5925	5925-7125
Return Loss (dB)	~-10.3	~-12.3	~-10.5
VSWR	~1.9:1	~1.7:1	~1.9:1
Efficiency (%)	~38.4	~40.4	~40.1
Peak Gain (dBi)	~3.9	~4.1	~3.8
Average Gain (dB)	~-4.3	~-4.0	~-4.0
Impedance (Ohm)	50		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power (W)	25		
Connector Type	SMA-Male RP Standard (Other Connectors Available)		
Cable Length	300 cm Standard (Any Cable Length Available)		
Cable Type	D302 Standard (Other Cables Available)		

Cable 2

Parameters	2.4/5.0/6.0 GHz ISM Antenna		
Standards	WiFi, BT, ZigBee, ISM		
Band (MHz)	2.4 GHz	5.0 GHz	6.0 GHz
Frequency (MHz)	2410-2490	4920-5925	5925-7125
Return Loss (dB)	~-9.6	~-13.1	~-13.1
VSWR	~2.0:1	~1.6:1	~1.6:1
Efficiency (%)	~42.2	~47.2	~45.0
Peak Gain (dBi)	~5.2	~5.2	~5.1
Average Gain (dB)	~-3.8	~-3.3	~-3.3
Impedance (Ohm)	50		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power (W)	25		
Connector Type	SMA-Male RP Standard (Other Connectors Available)		
Cable Length	300 cm Standard (Any Cable Length Available)		
Cable Type	D302 Standard (Other Cables Available)		

Cable 3

Parameters	2.4/5.0/6.0 GHz ISM Antenna		
Standards	WiFi, BT, ZigBee, ISM		
Band (MHz)	2.4 GHz	5.0 GHz	6.0 GHz
Frequency (MHz)	2410-2490	4920-5925	5925-7125
Return Loss (dB)	~-13.6	~-14.1	~-14.4
VSWR	~1.5:1	~1.5:1	~1.5:1
Efficiency (%)	~35.2	~49.5	~49.1
Peak Gain (dBi)	~-4.9	~-5.5	~-5.4
Average Gain (dB)	~-4.5	~-3.1	~-3.1
Impedance (Ohm)	50		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power (W)	25		
Connector Type	SMA-Male RP Standard (Other Connectors Available)		
Cable Length	300 cm Standard (Any Cable Length Available)		
Cable Type	D302 Standard (Other Cables Available)		

Cable 4

Parameters	2.4/5.0/6.0 GHz ISM Antenna		
Standards	WiFi, BT, ZigBee, ISM		
Band (MHz)	2.4 GHz	5.0 GHz	6.0 GHz
Frequency (MHz)	2410-2490	4920-5925	5925-7125
Return Loss (dB)	~-13.7	~-15.2	~-10.5
VSWR	~1.6:1	~1.5:1	~1.8:1
Efficiency (%)	~38.9	~39.9	~37.0
Peak Gain (dBi)	~-3.6	~-3.2	~-2.8
Average Gain (dB)	~-4.1	~-4.0	~-4.2
Impedance (Ohm)	50		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power (W)	25		
Connector Type	SMA-Male RP Standard (Other Connectors Available)		
Cable Length	300 cm Standard (Any Cable Length Available)		
Cable Type	LL100 Standard (Other Cables Available)		

Antenna Measurement Conditions:

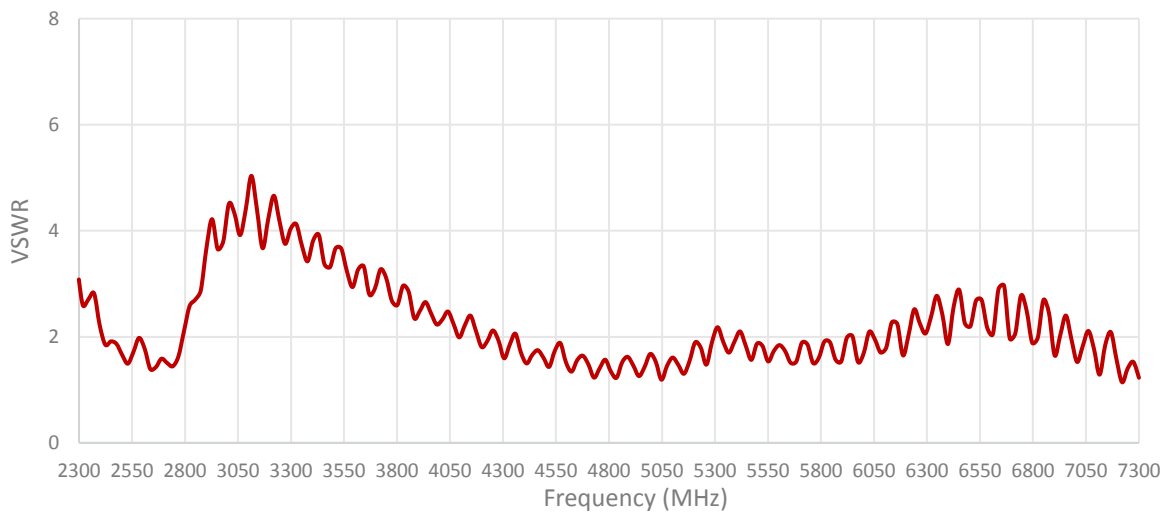
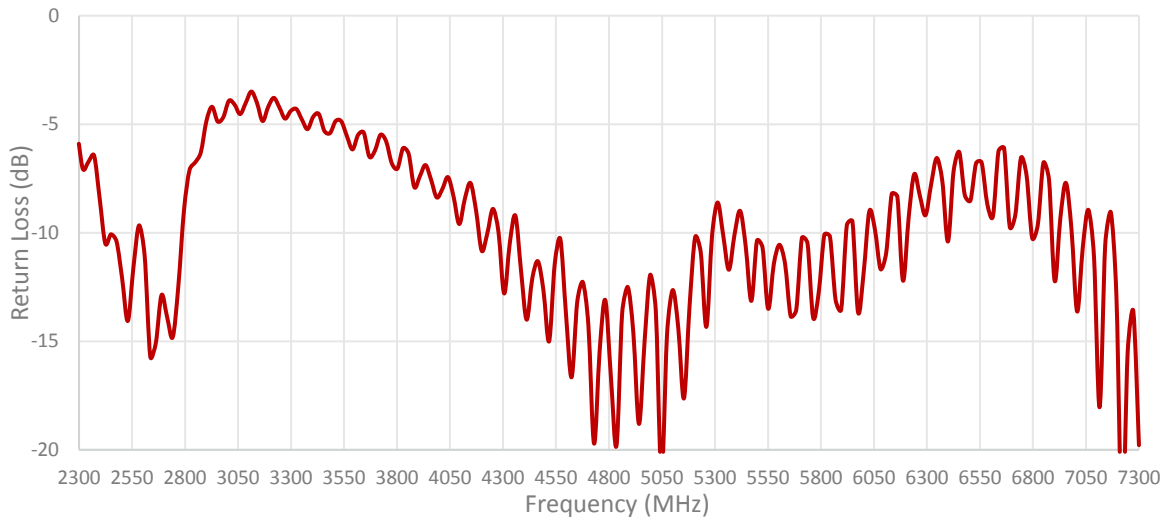
Mounted on Metal Plate of 30 x 30 cm
 3x 100 cm of Cable D302
 1x 100 cm of Cable LL100
 Measured in Certified CTIA 3D Anechoic Chamber

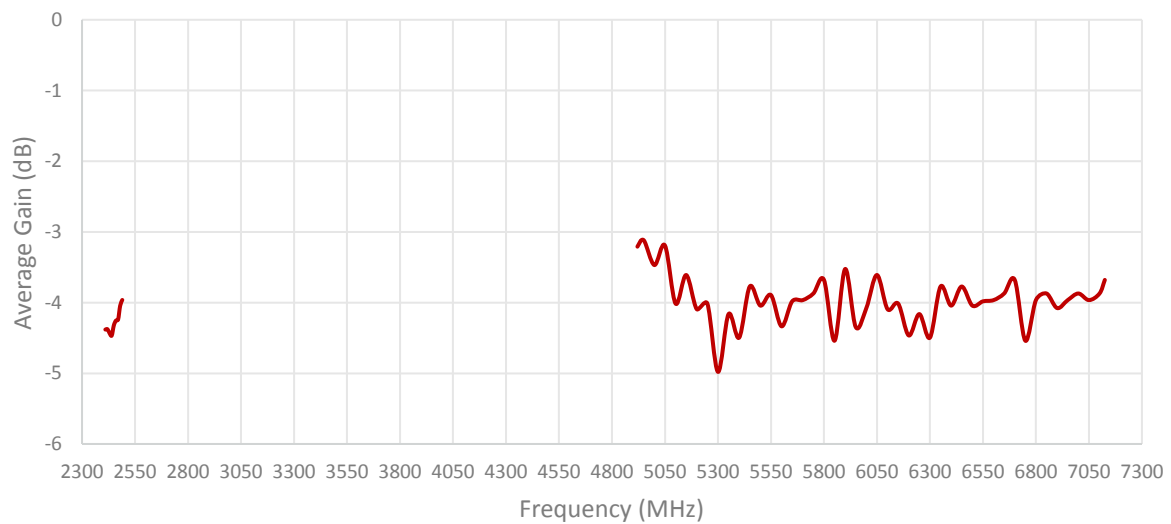
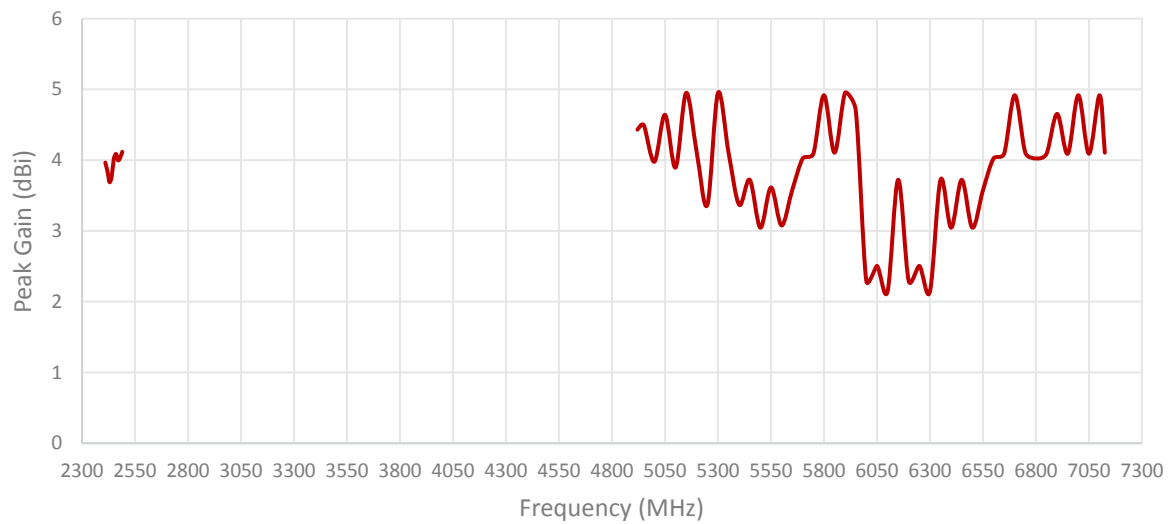
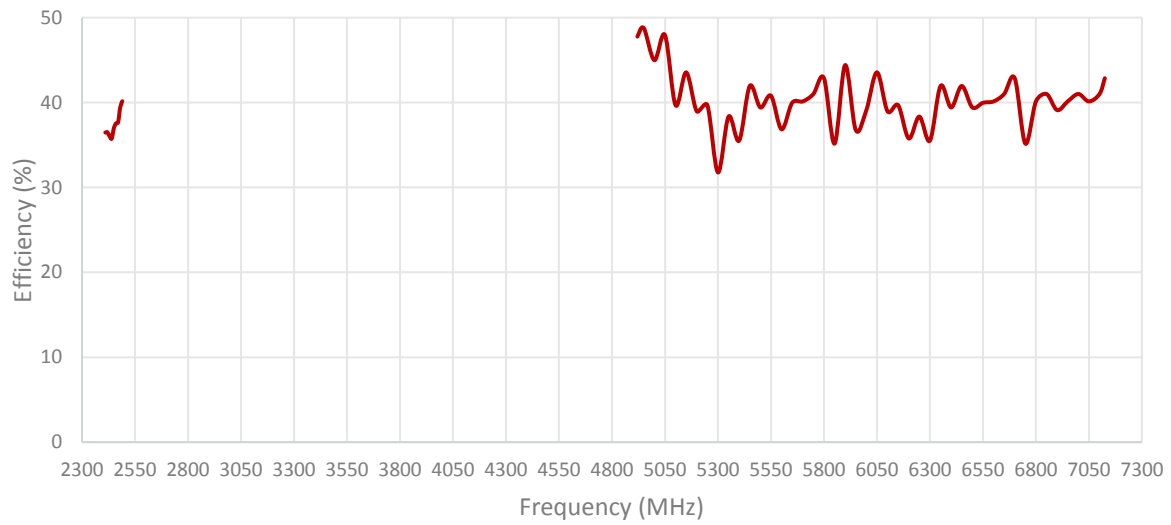
2. Mechanical and environmental specifications

Specifications	2J6902Bc
Mounting Type	Screw Mount
Dimensions (mm)	80 × 74 × 25.6
Max. Tighten Torque (Nm)	5 Nm
Radome Type	ASA UV Stable
Radome Color	Black, White
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67, IP69

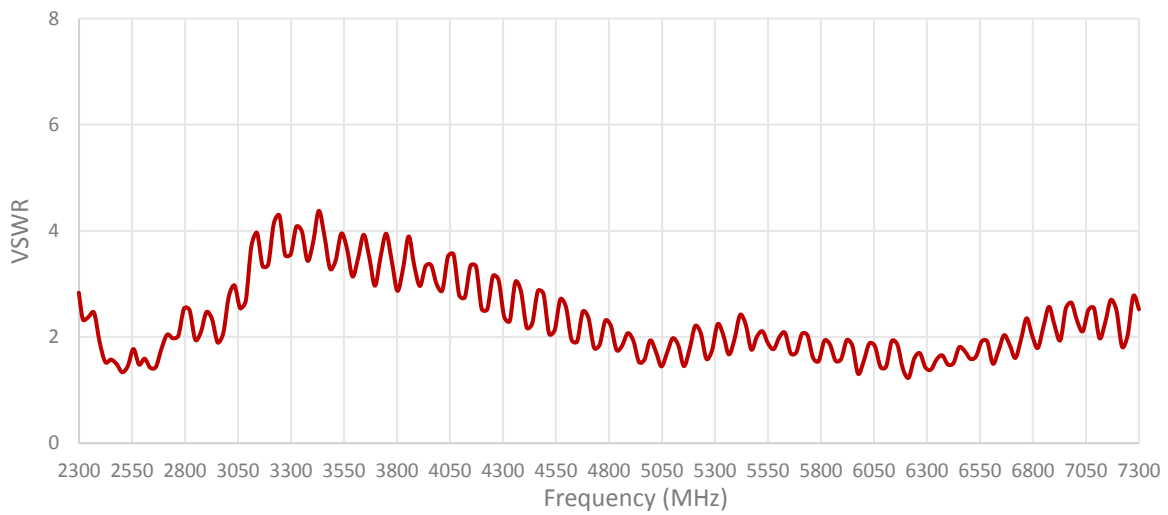
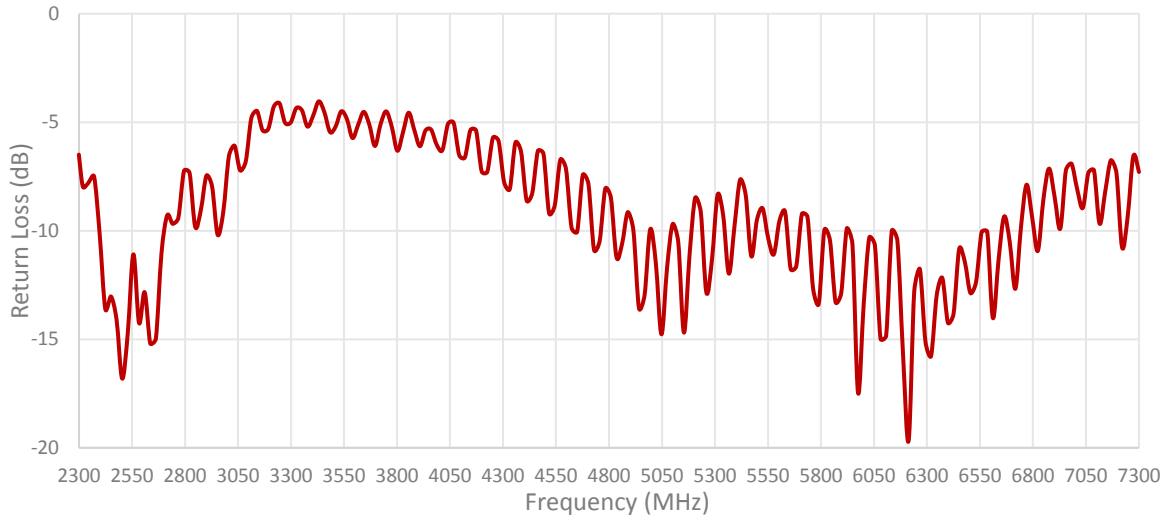
3. Antenna parameters

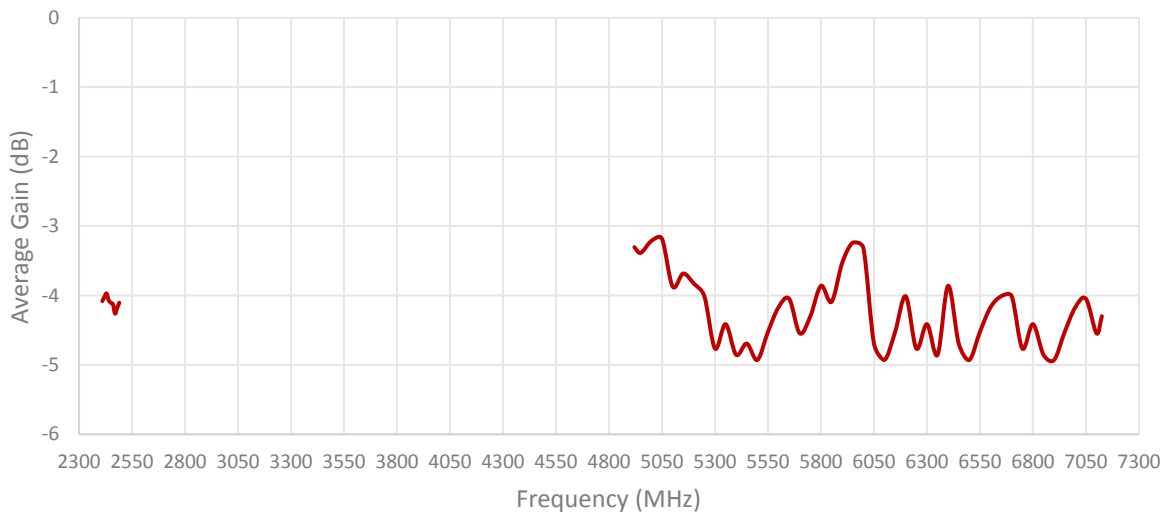
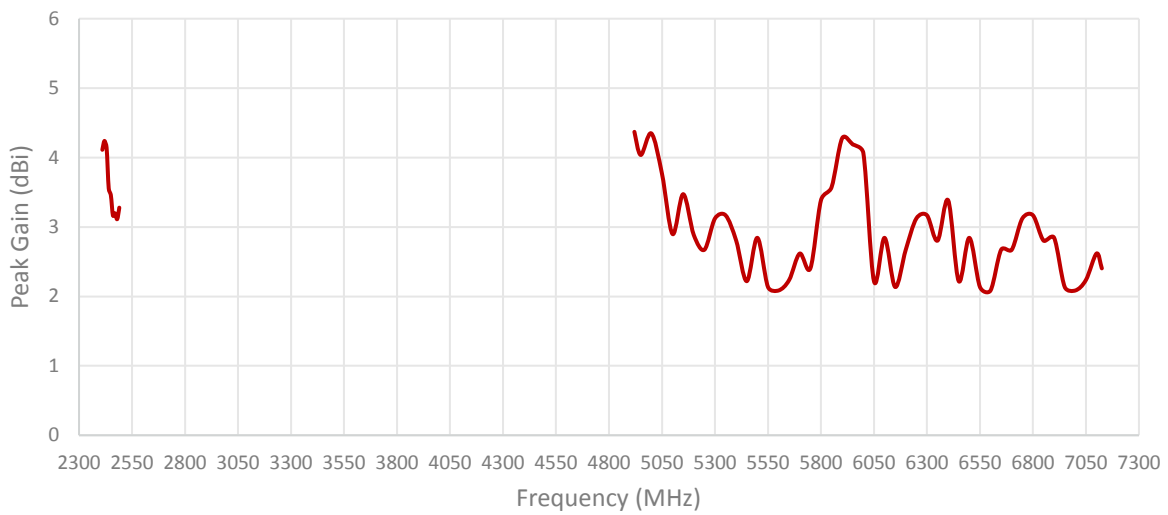
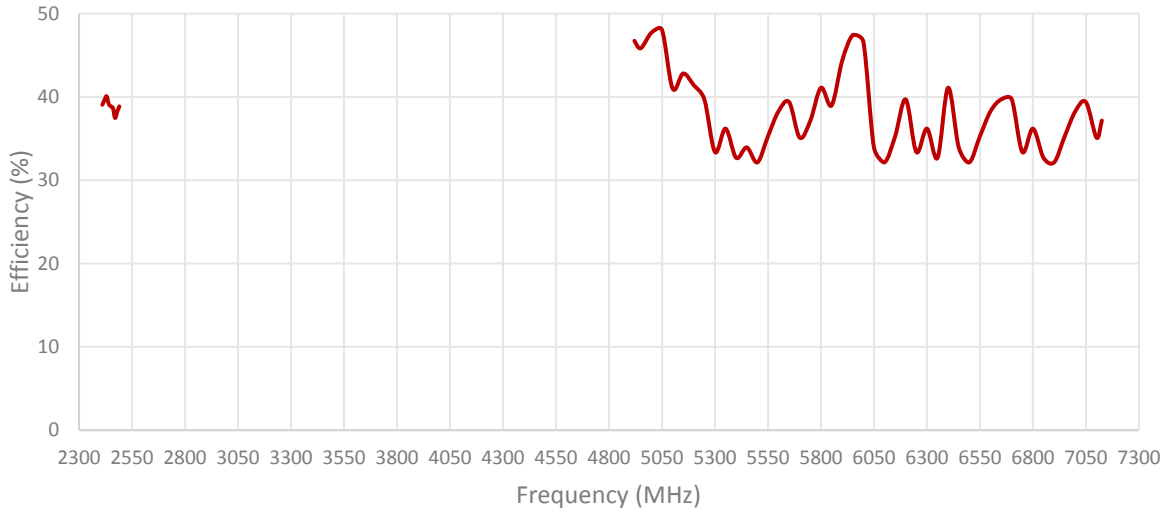
Cable 1: 2.4/5.0/6.0 GHz ISM



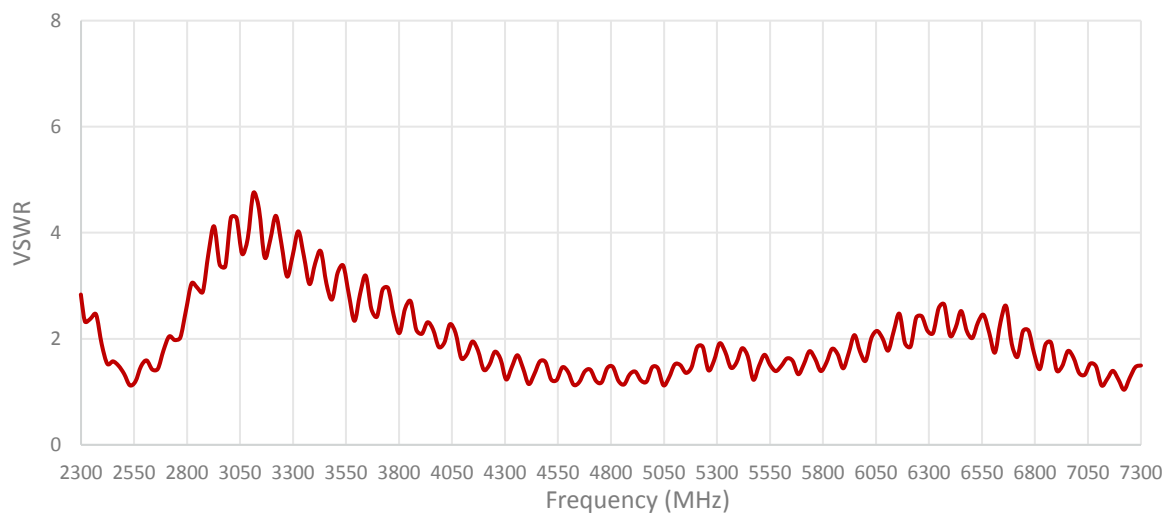
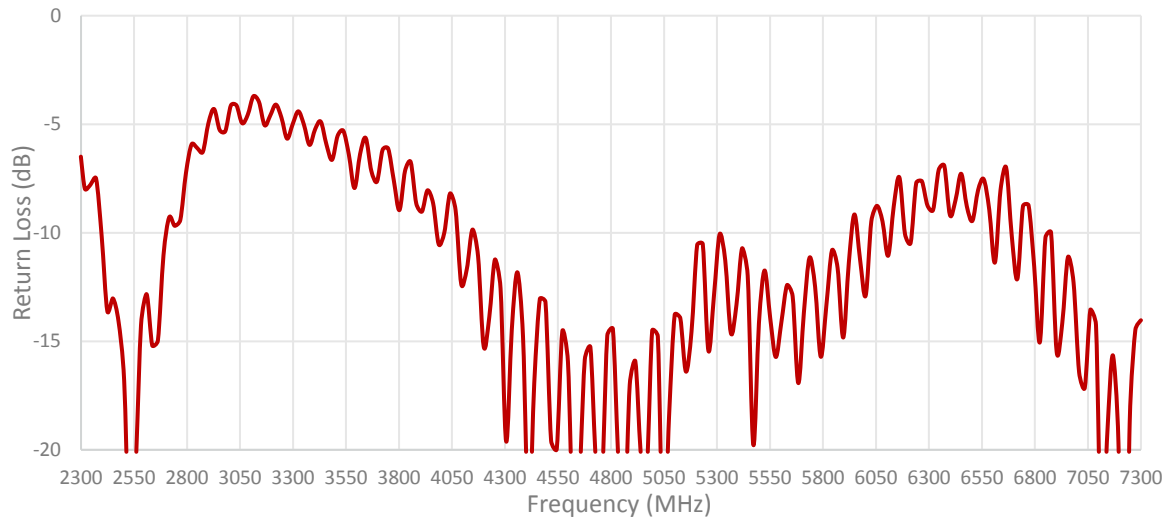


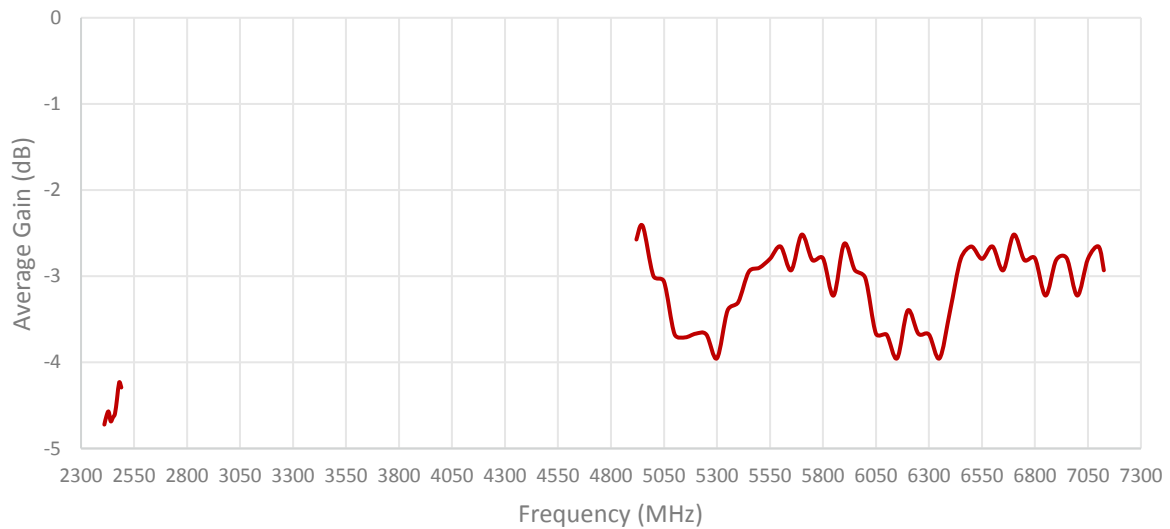
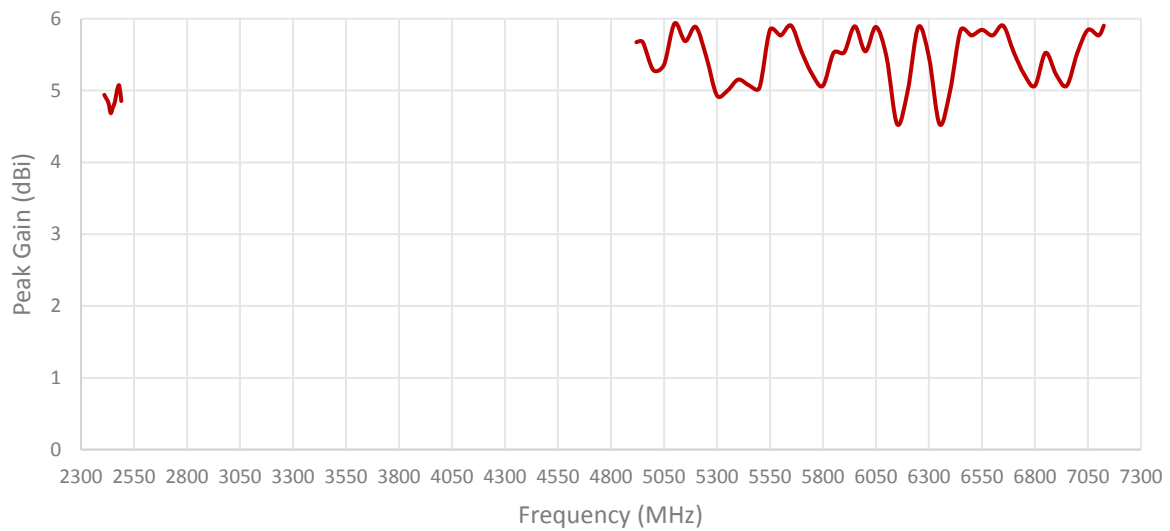
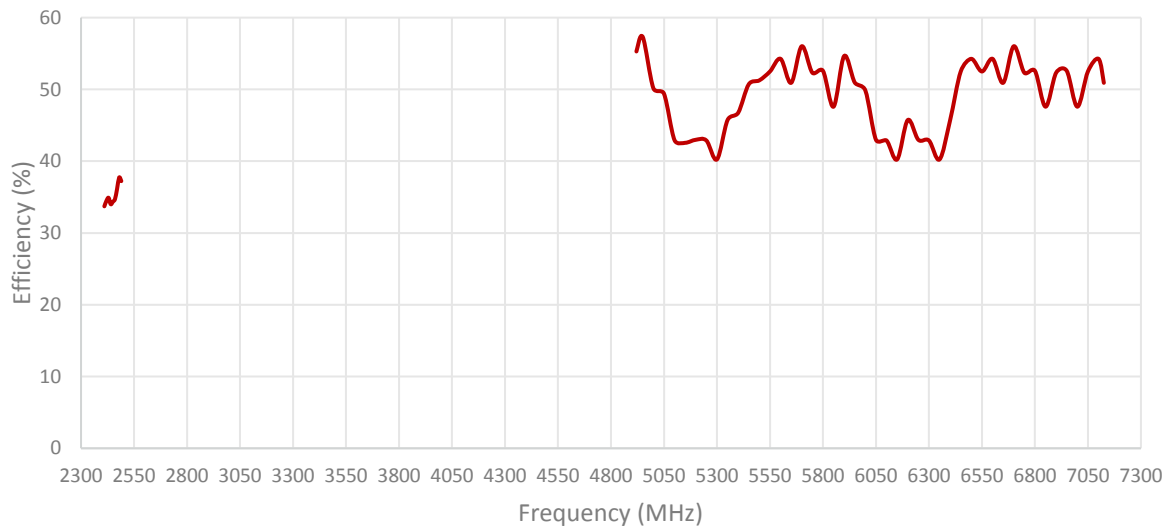
Cable 2: 2.4/5.0/6.0 GHz ISM



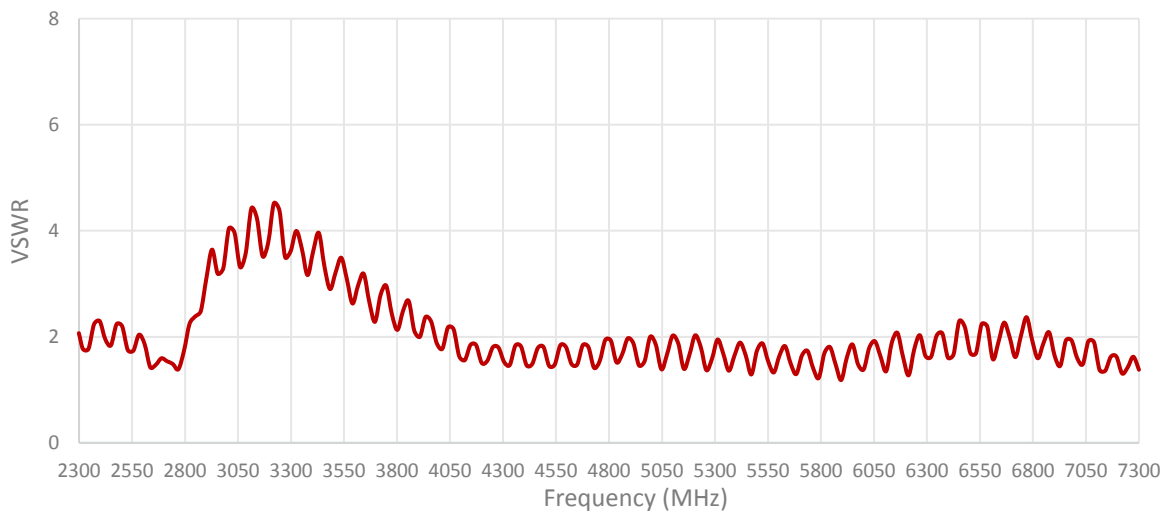
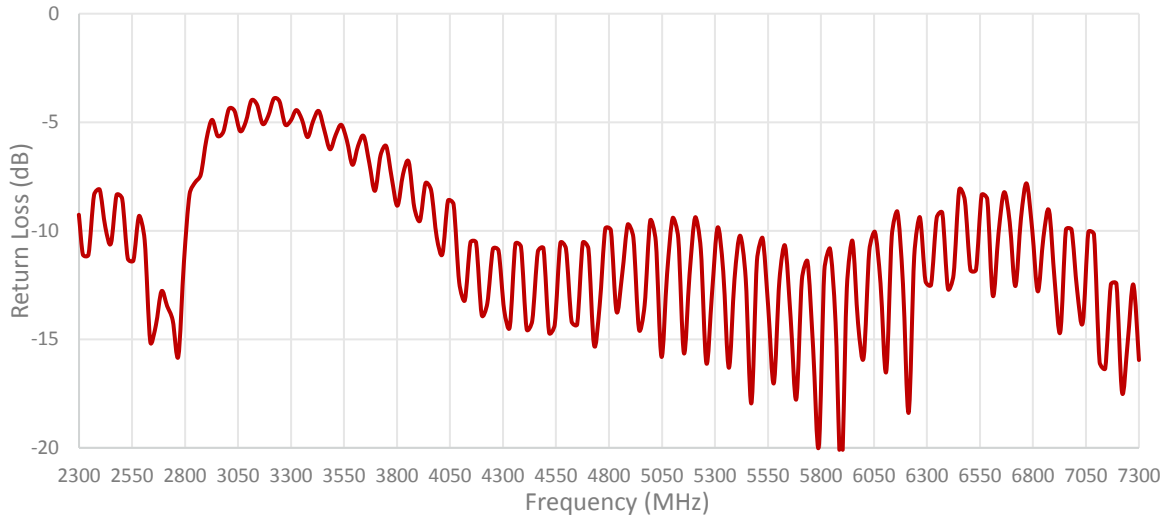


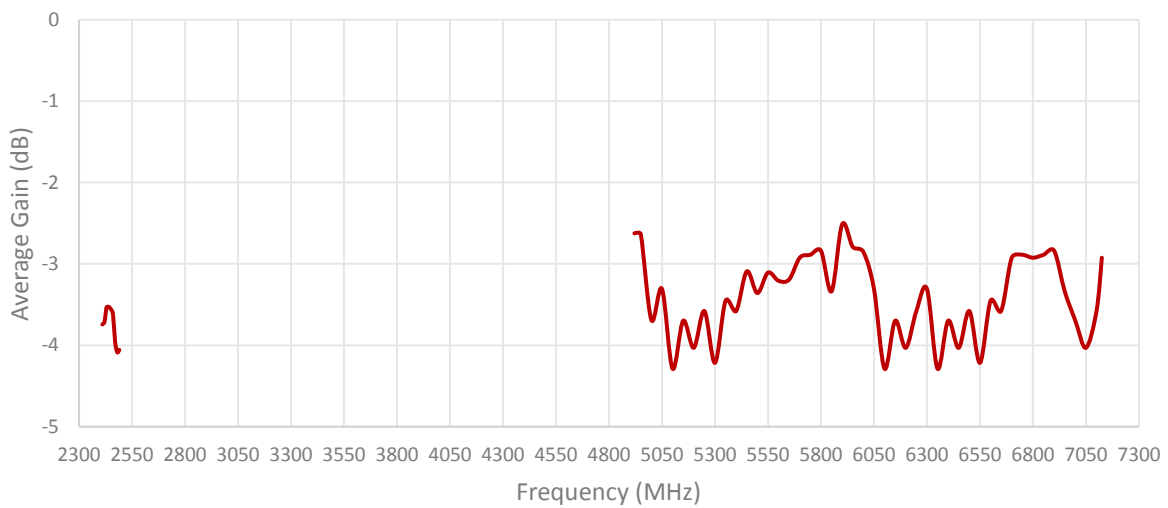
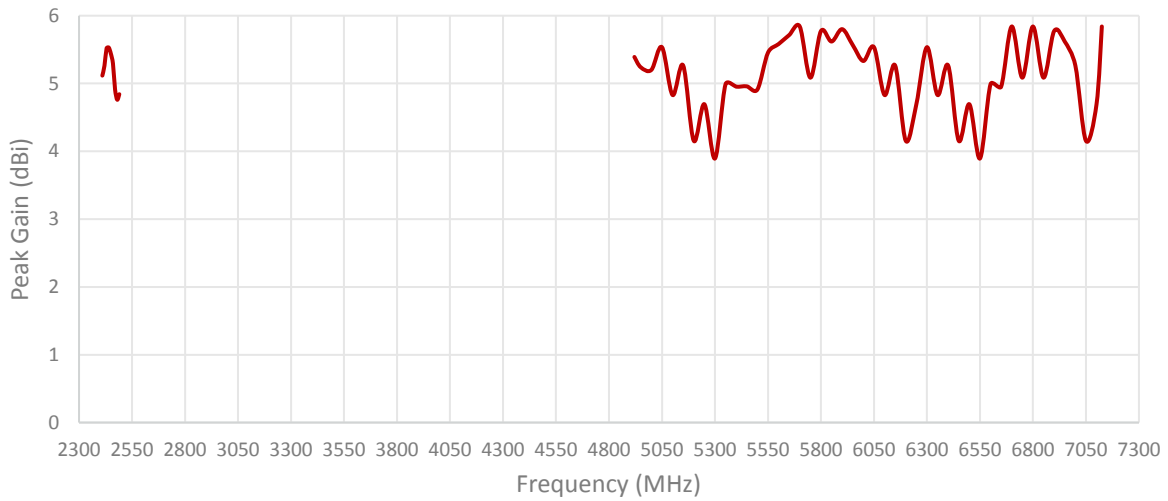
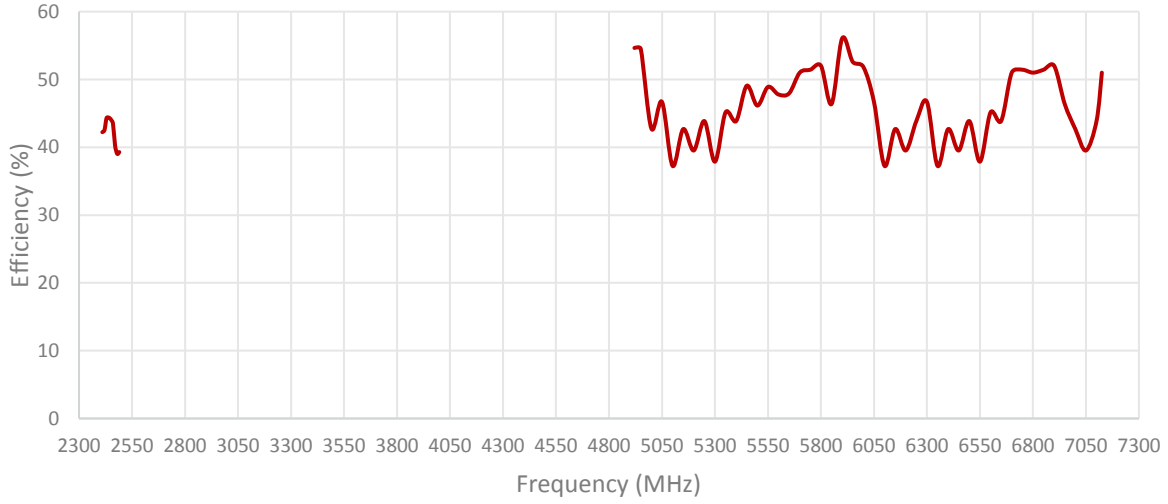
Cable 3: 2.4/5.0/6.0 GHz ISM



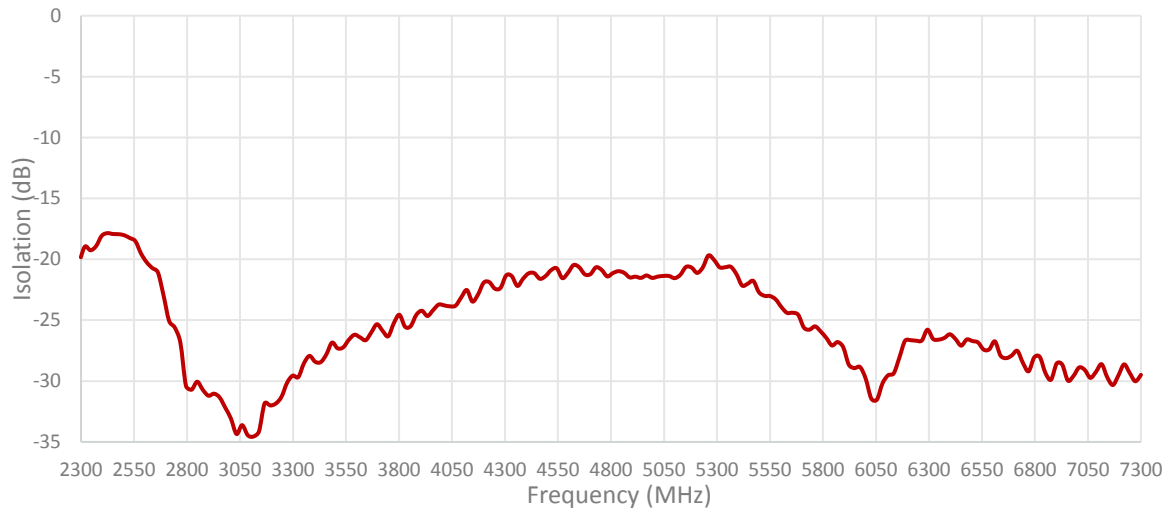


Cable 4: 2.4/5.0/6.0 GHz ISM

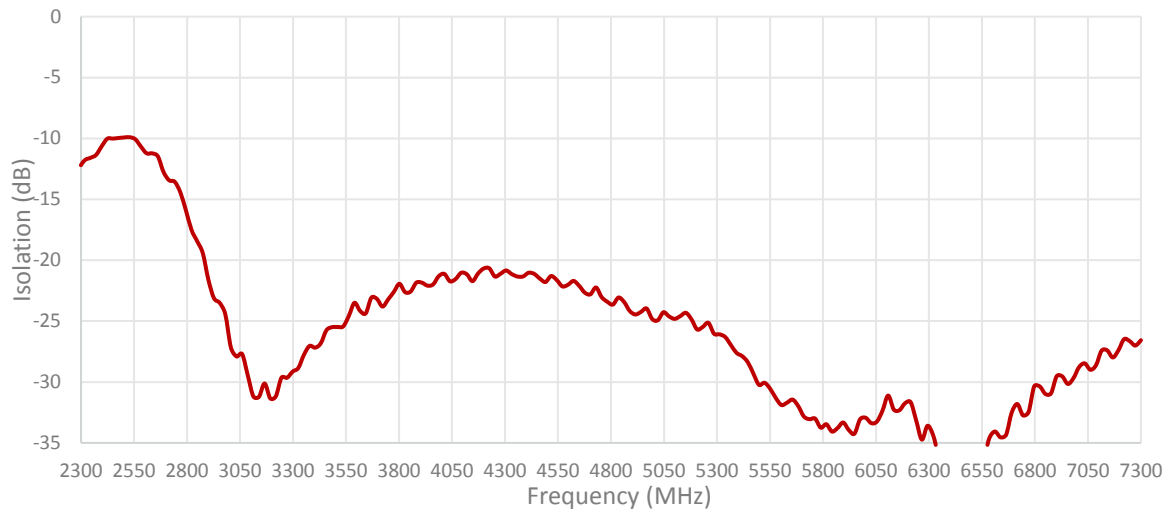




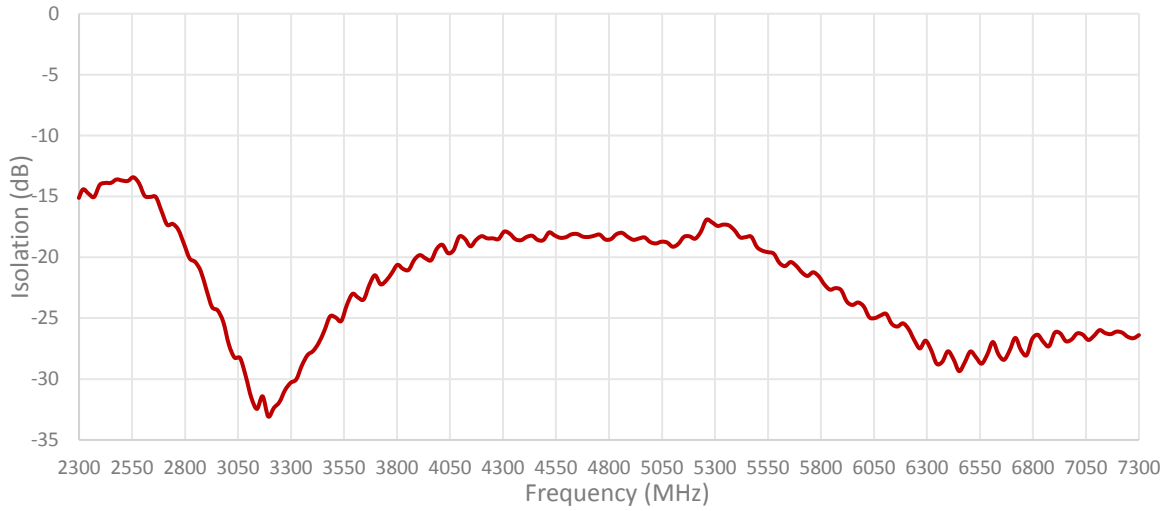
ISOLATION FOR CABLES 1 AND 2



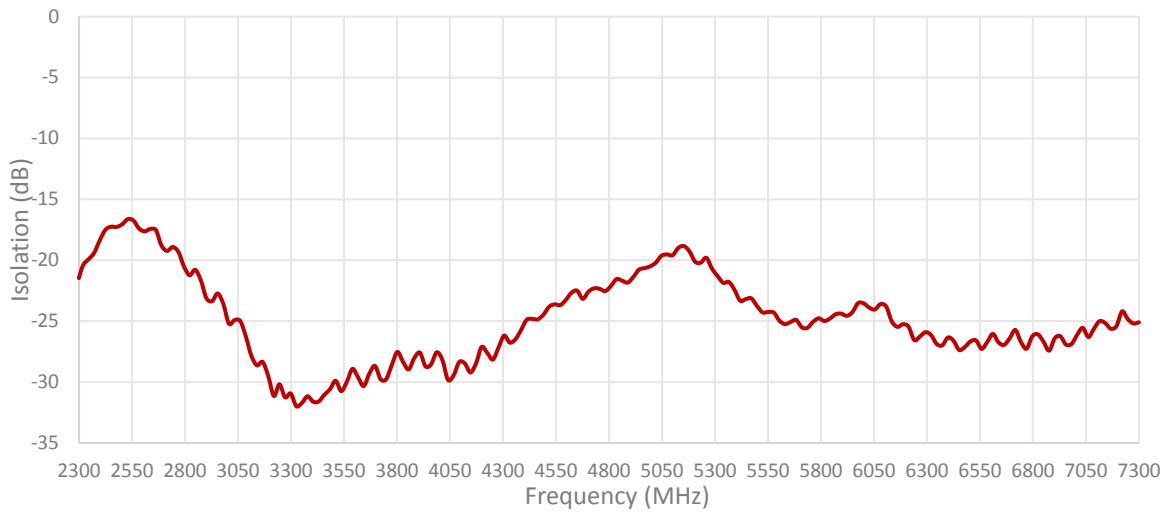
ISOLATION FOR CABLES 1 AND 3



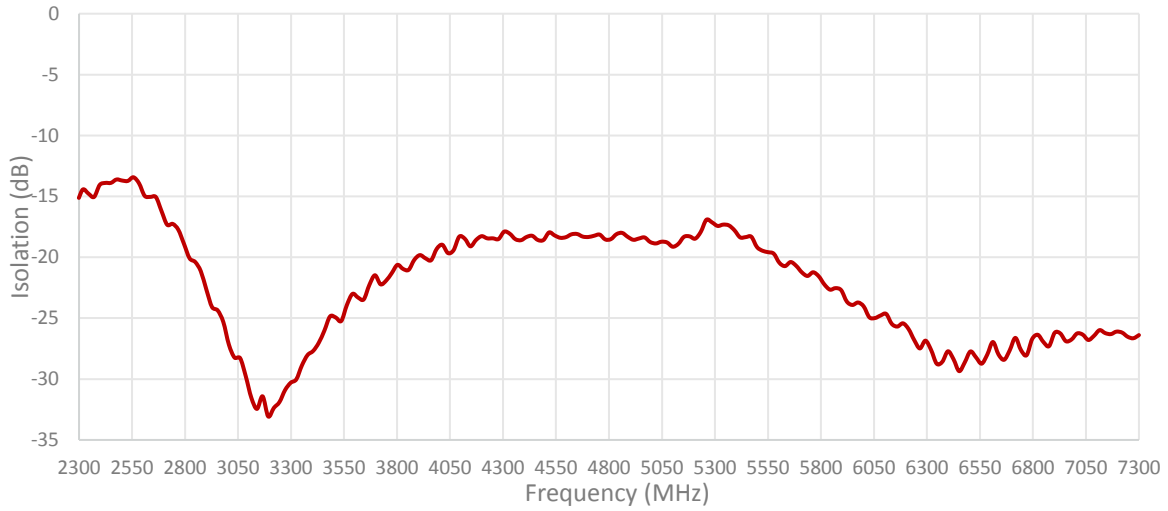
ISOLATION FOR CABLES 1 AND 4



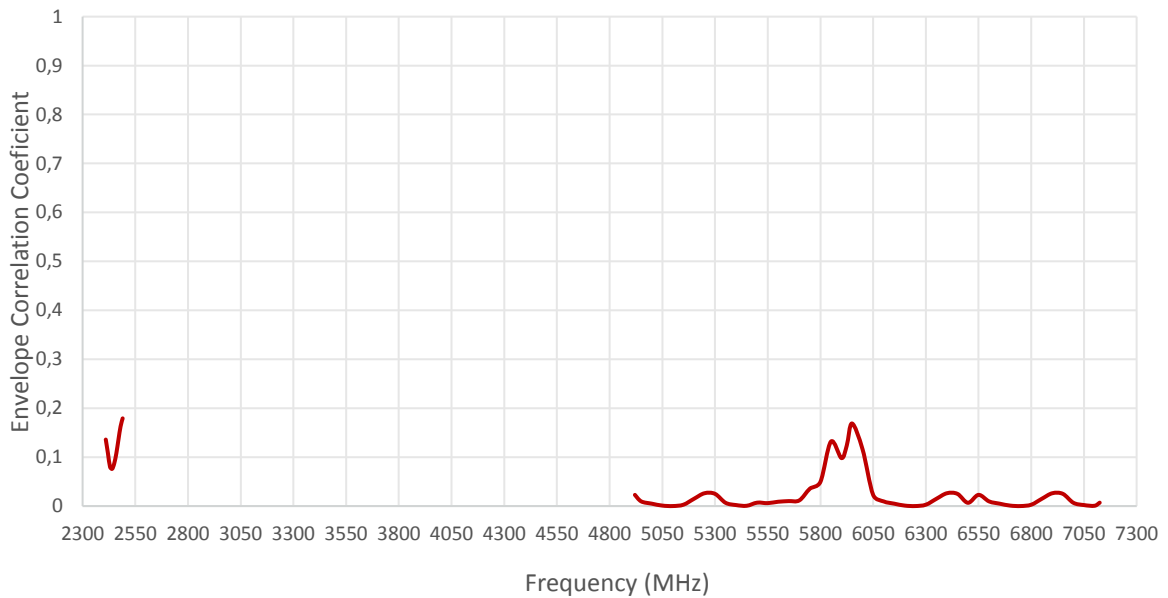
ISOLATION FOR CABLES 2 AND 3



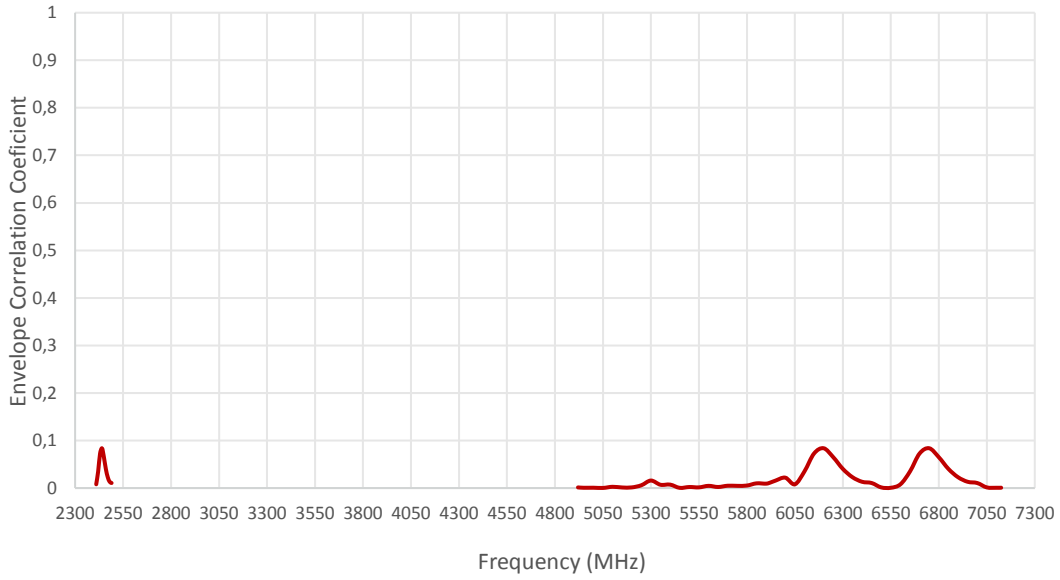
ISOLATION FOR CABLES 1 AND 4



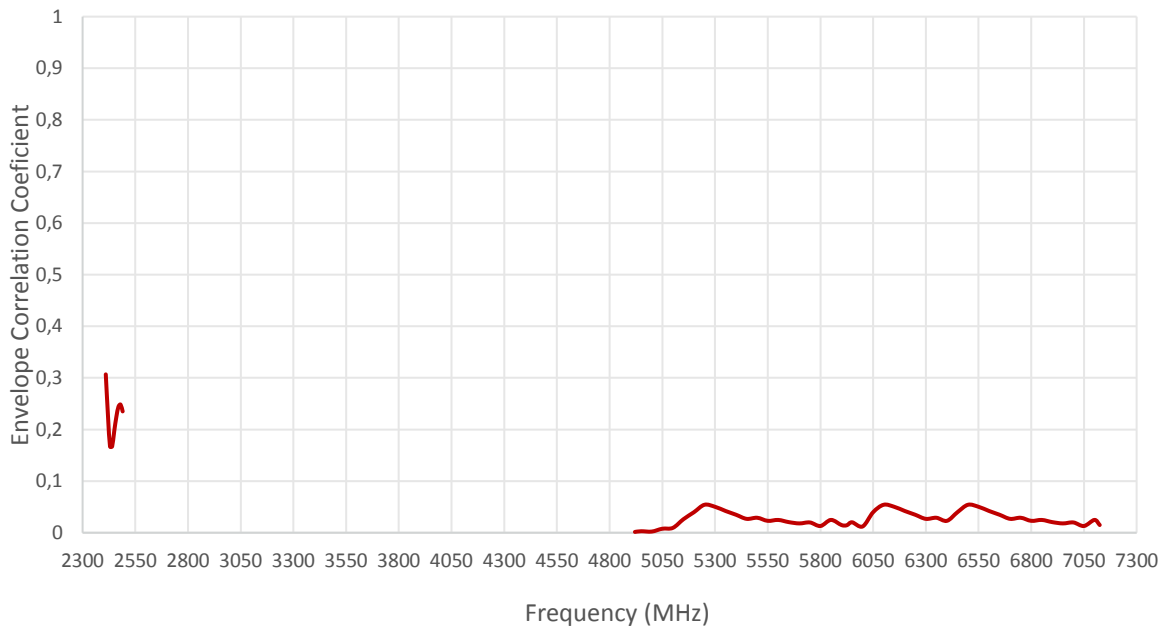
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2



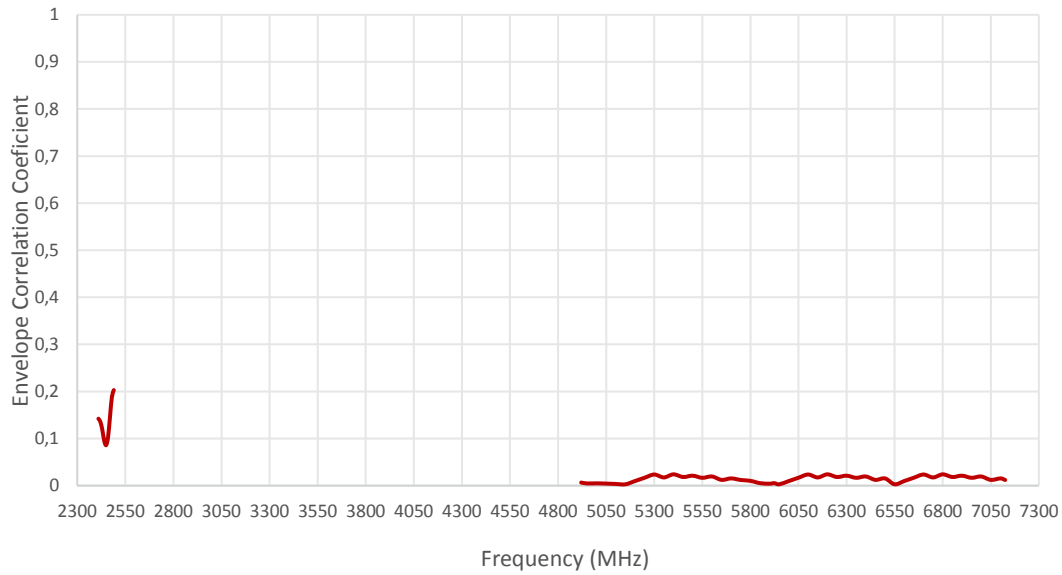
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 3



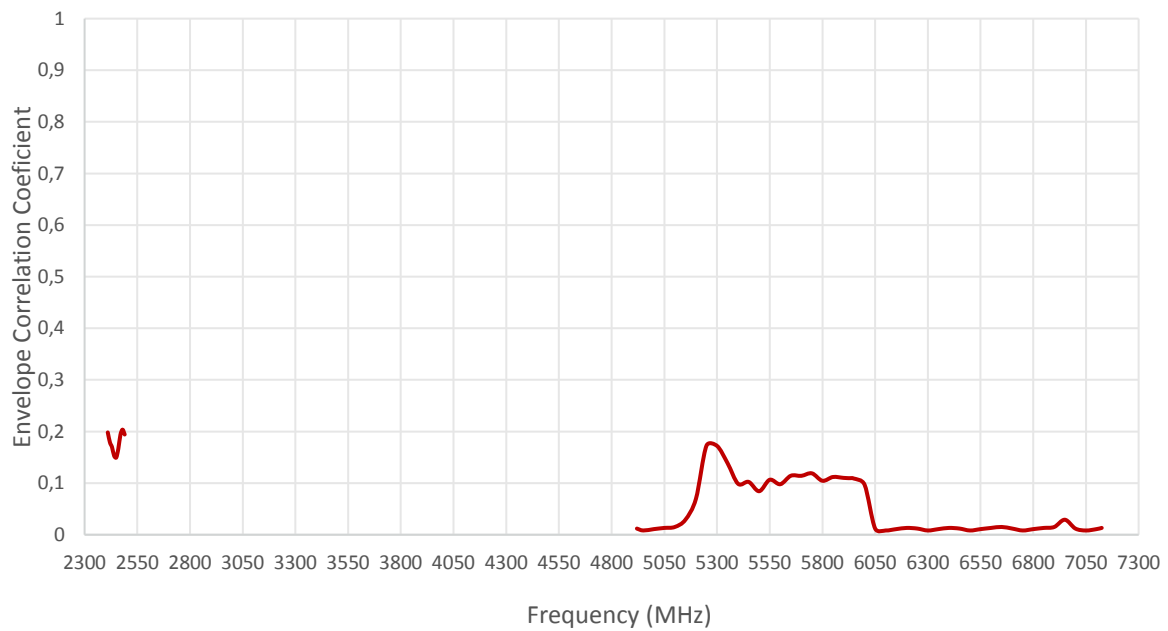
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 4

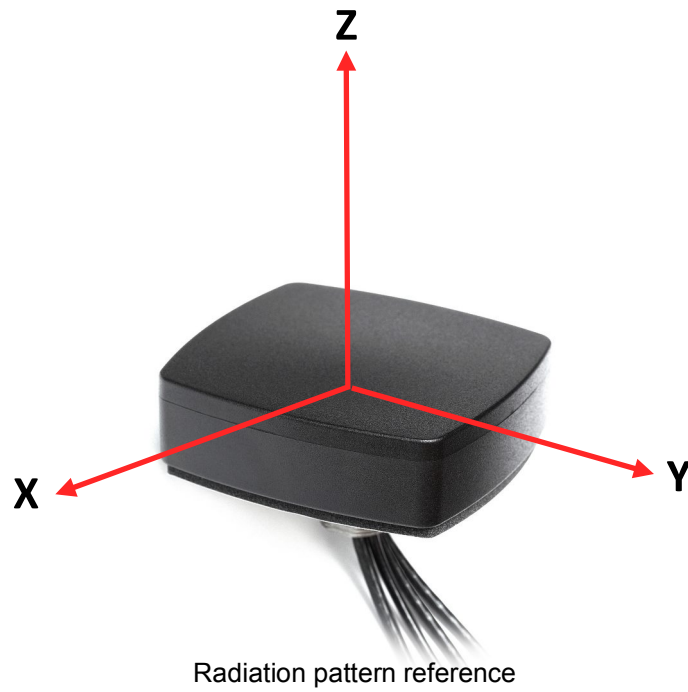


ENVELOPE CORRELATION COEFFICIENT FOR CABLES 2 AND 3

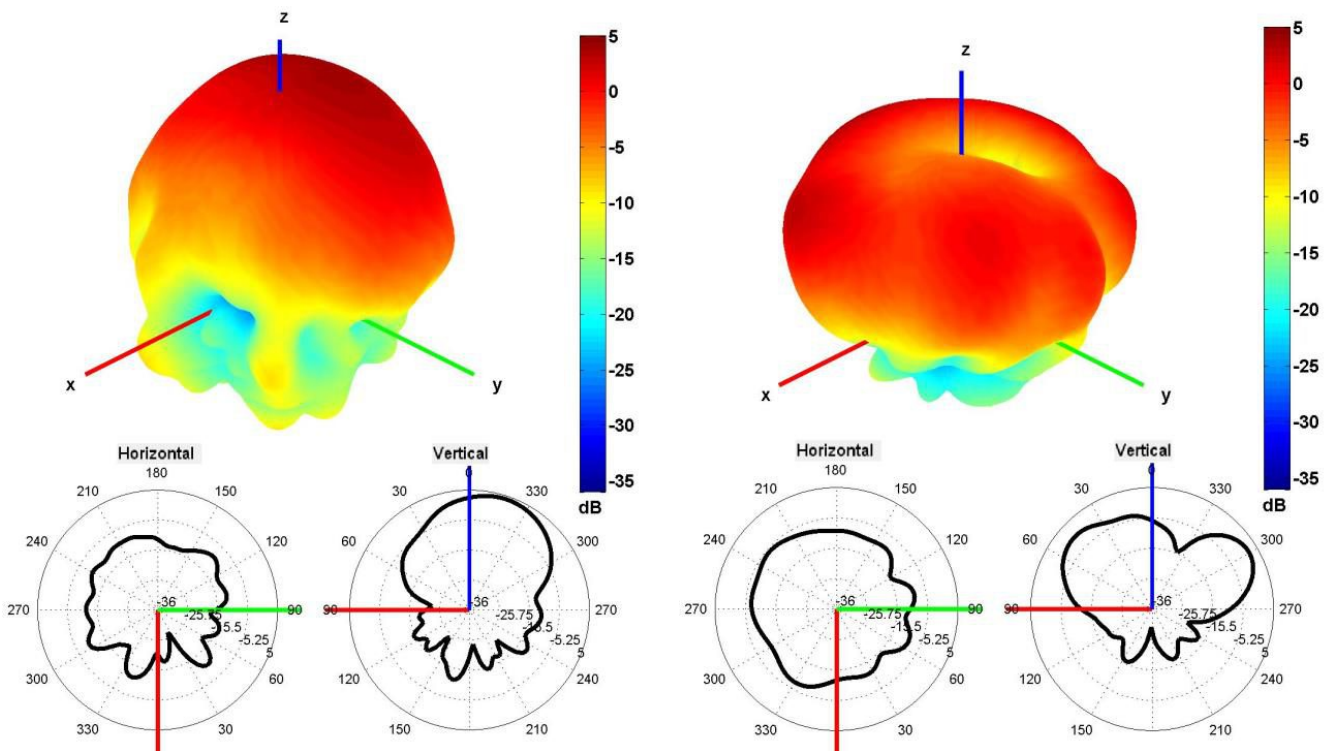


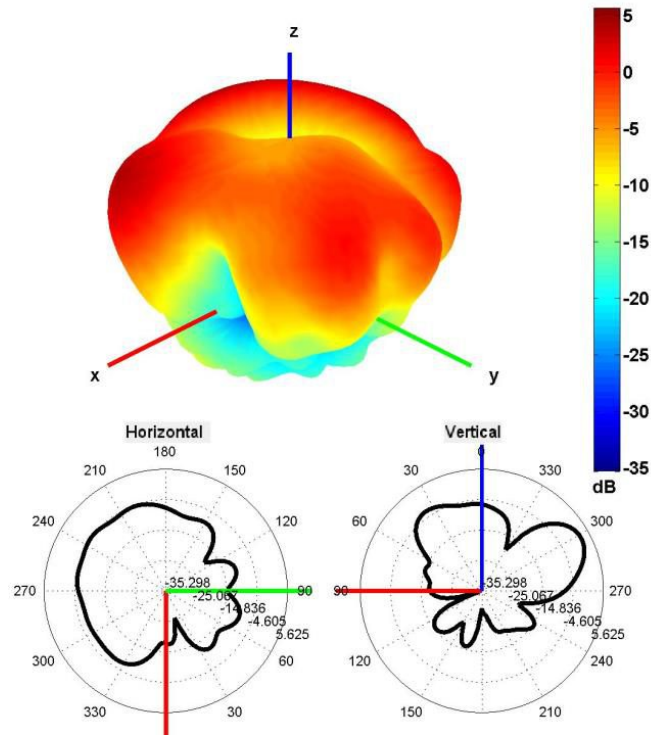
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 3 AND 4





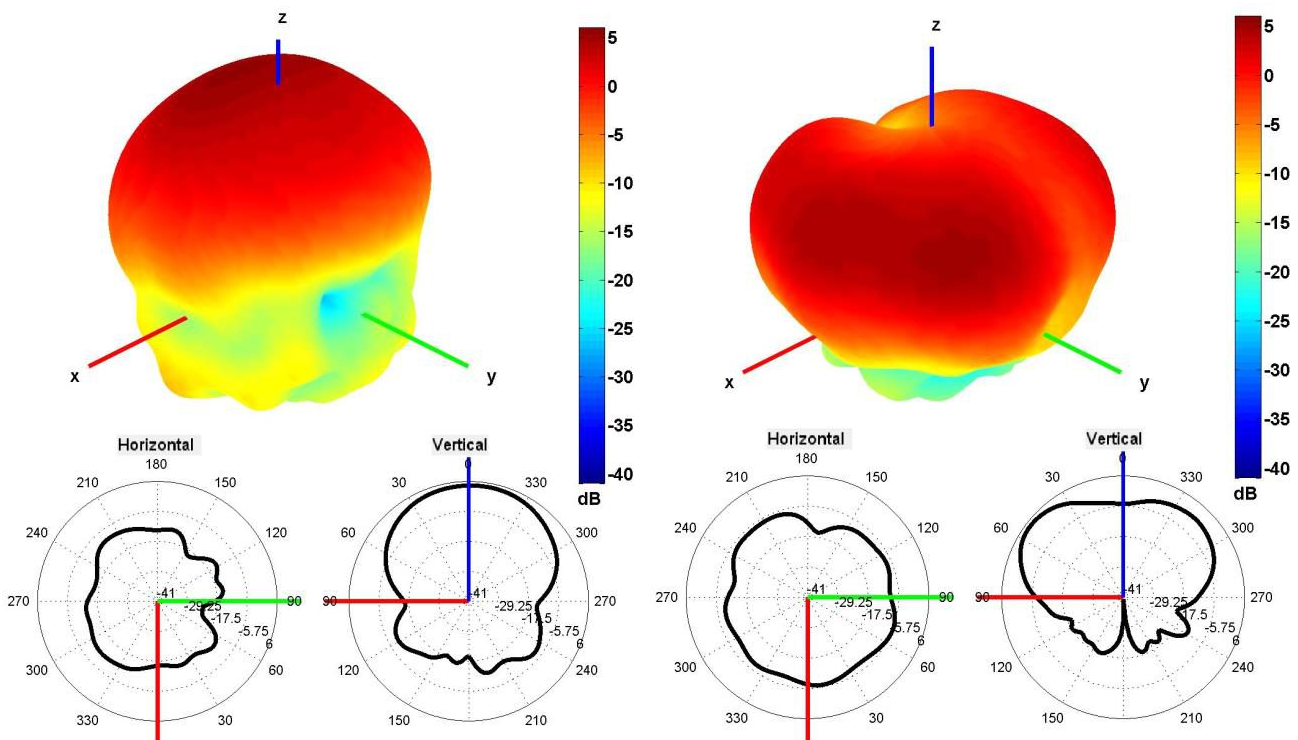
Cable 1: 2.4/5.0/6.0 GHz ISM



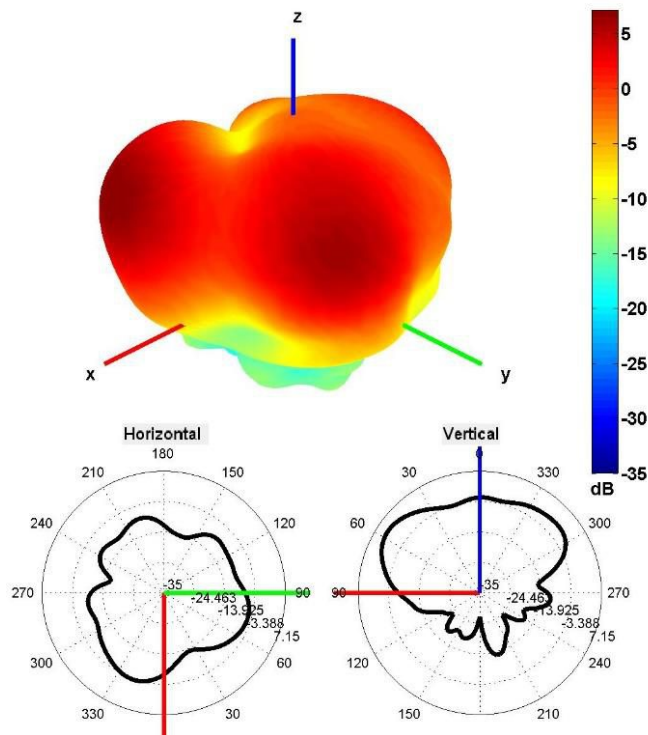


6500 MHz Radiation pattern

Cable 2: 2.4/5.0/6.0 GHz ISM

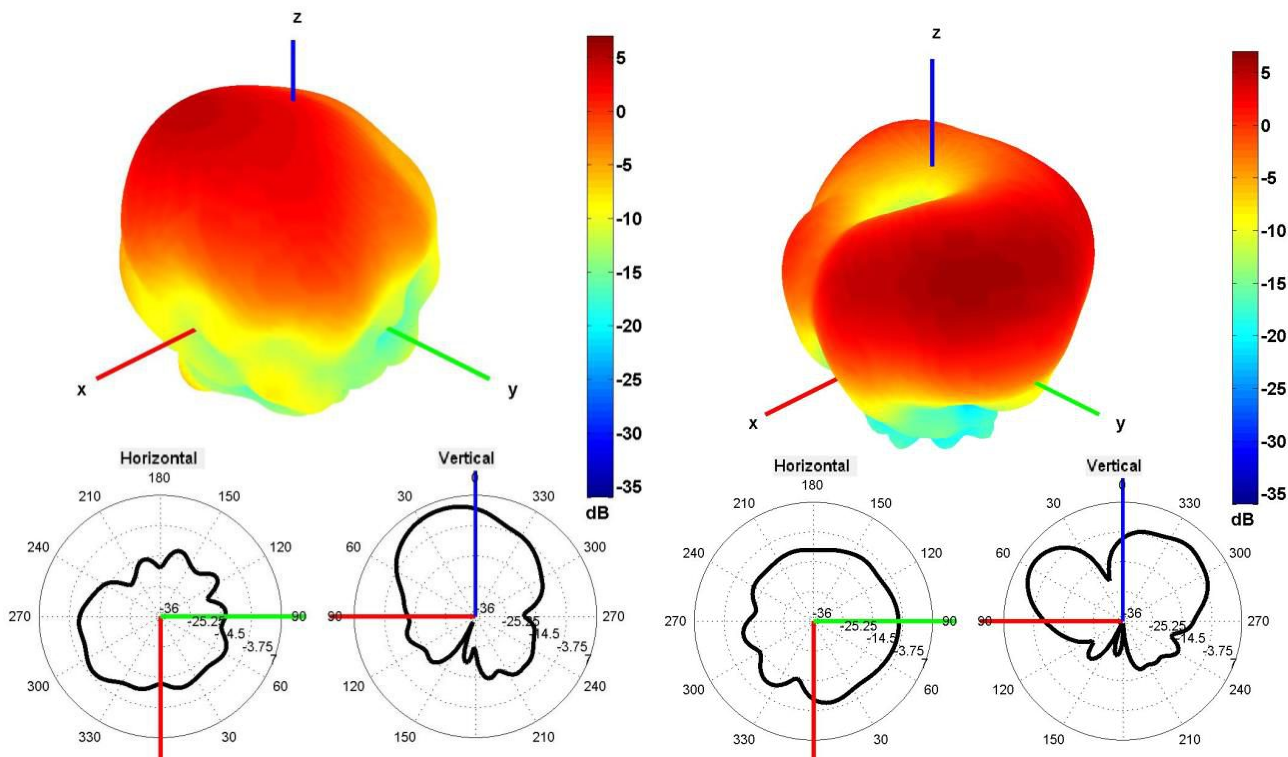


2450 and 5500 MHz Radiation pattern

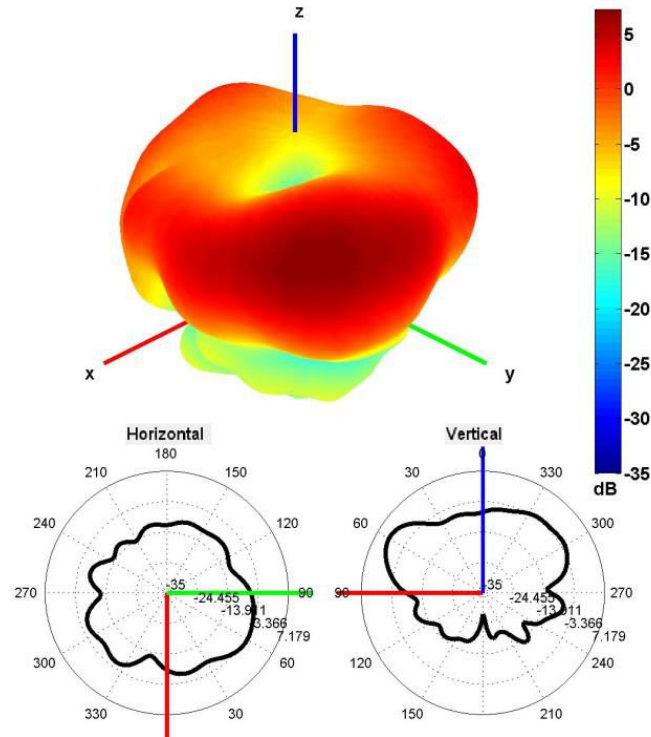


6500 MHz Radiation pattern

Cable 3: 2.4/5.0/6.0 GHz ISM

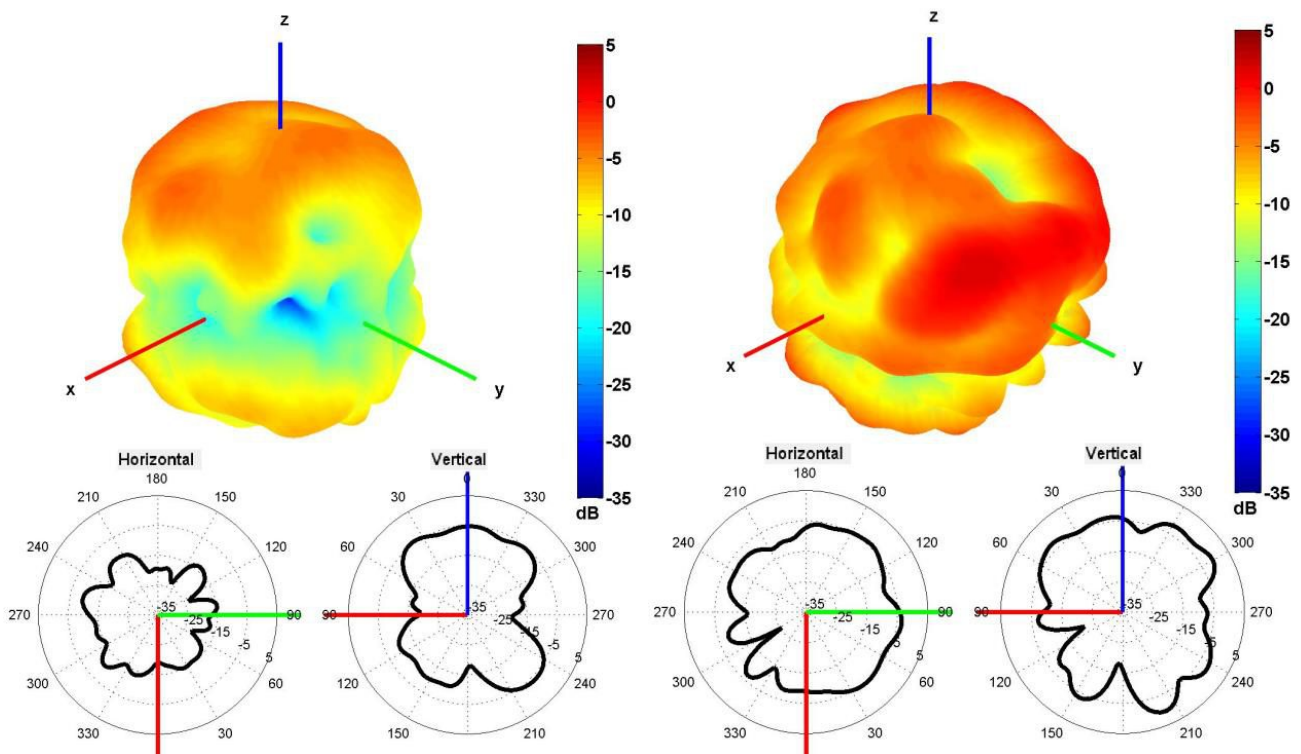


2450 and 5500 MHz Radiation pattern

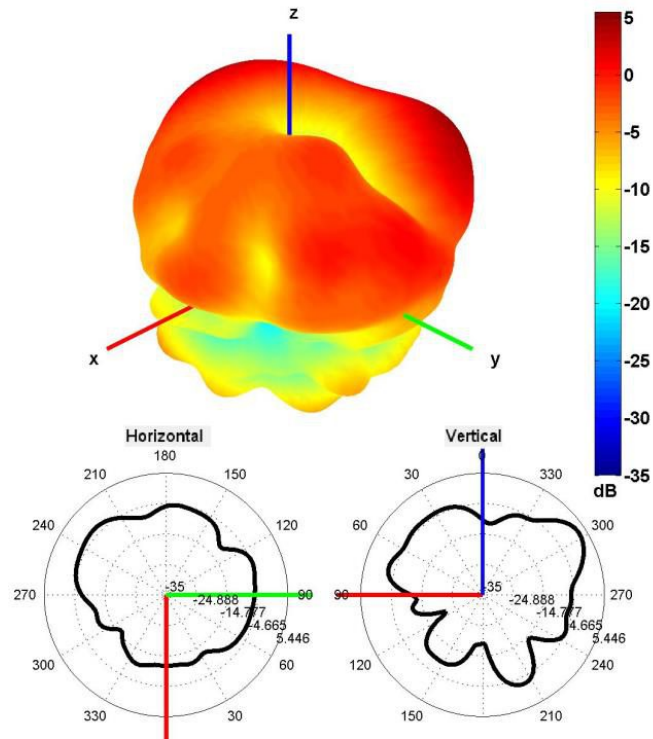


6500 MHz Radiation pattern

Cable 4: 2.4/5.0/6.0 GHz ISM

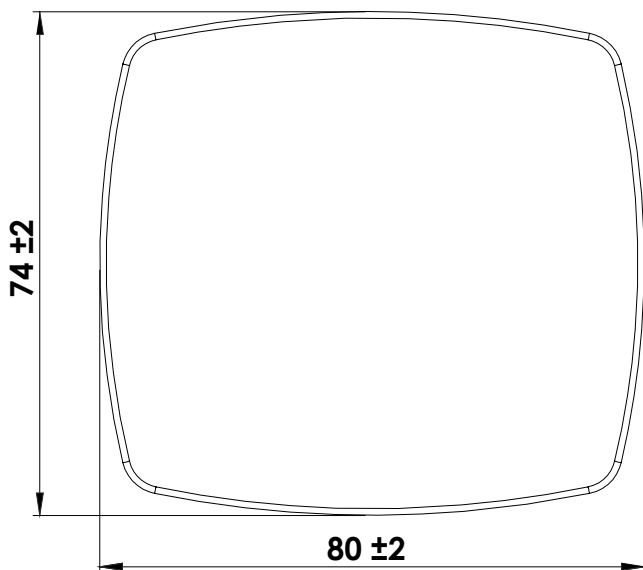
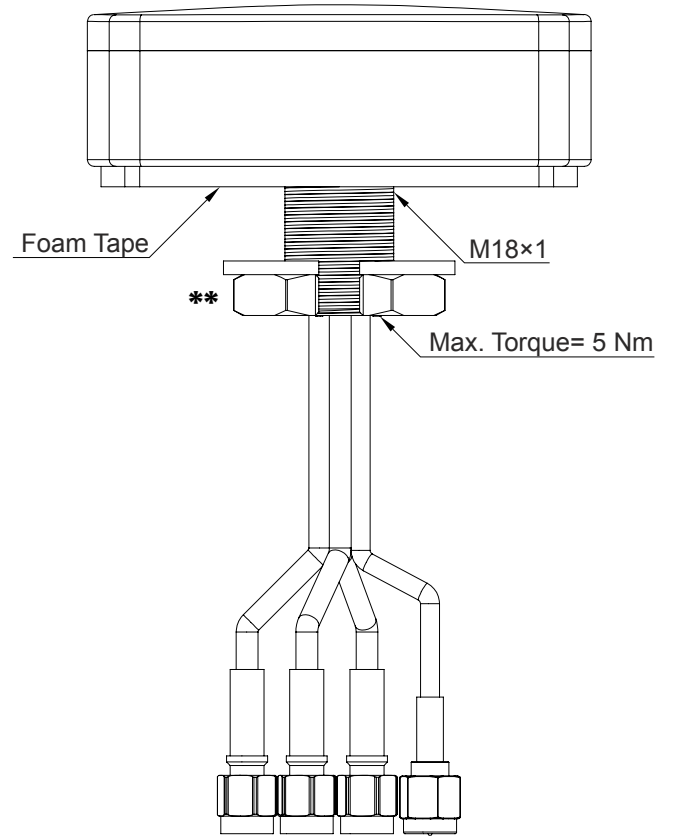
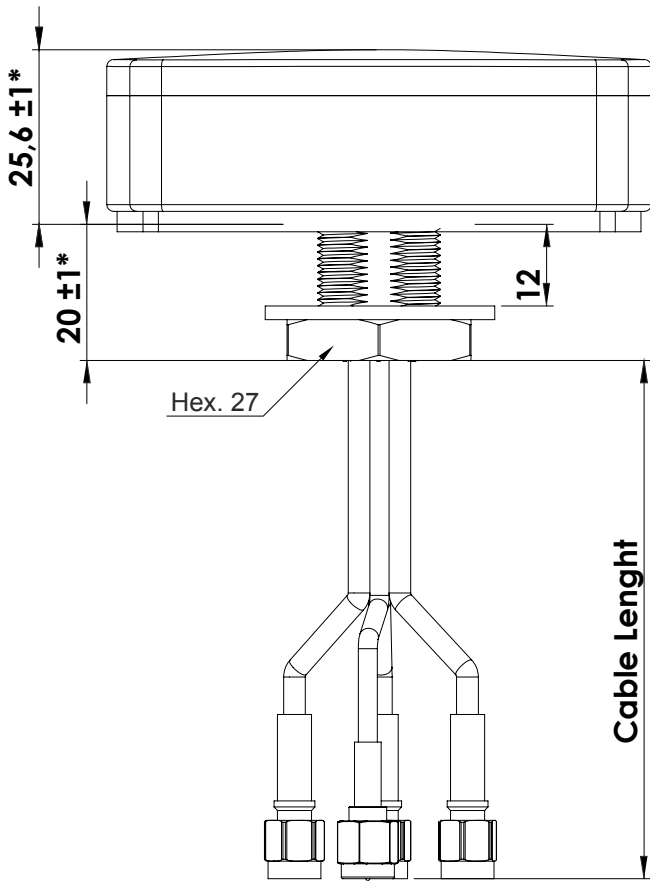


2450 and 5500 MHz Radiation pattern

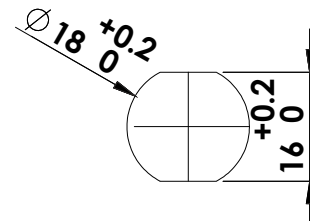


6500 MHz Radiation pattern

4. Antenna drawings



Mounting hole



Max. mounting thickness 12mm
 Note: Dimensions are in millimeters
 *Dimensions are after mounting
 **Max. Torque= 5 Nm

5. Antenna Images

