



# MEA-5G-IMG-AM

5GNR MIMO, 2.4/5.0 GHz ISM MIMO and GNSS  
Adhesive Mount

Part #: 100-00334-01



## Description

The MEA-5G-IMG-AM adhesive mount Antenna is a 5-in-1 low profile antenna solution, with a very high-performance ideal for maintaining constant network connectivity. The MEA-5G-IMG-AM covers all 5GNR, ISM, MIMO, and GPS/GLONASS/QZSS/ Galileo standard frequencies. This is an ideal antenna for telematics systems, remote surveillance, asset tracking and any IOT system applications. The high performance and low profile make this antenna ideal for the most challenging installations. This adhesive mount antenna is easy to install with maximum durability offering IP67 rated housing and anti-rotation mounting. The MEA-5G-IMG-AM have five cables with a SMA-Male standard connectors, 2m standard cable length and is fully customizable by offering additional connector types, cable lengths and cable types.

## Electrical Specifications

Parameter	Specifications			
Technologys	5G, 4G, 3G and 2G			
Standards	5GNR/4GLTE/FirstNet/CBRS/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G2G			
Frequency (MHz)	617-960	1427-2690	3300-5000	5150-5925
Band MHz	600, 700, 850, 900	1500, 1600, 1700, 1800, 1900, 2000, 2100, 2300, 2500, 2600	3300, 3500, 3600, 3700, 4500	5200, 5500, 5800
5GNR Bands	n5, n8, n12, n20, n28, n71, n81, n82, n83,	n1, n2, n3, n7, n25, n34, n38, n39, n40, n41, n50, n51, n66, n70, n74, n75, n76, n80, n84, n86	n77, n78, n79	
4GLTE Bands	B5, B6, B8, B12, B13, B14, B17, B18, B19, B20, B26, B27, B28, B29, B44, B67, B68, B71, B85	B1, B2, B3, B4, B7, B9, B10, B11, B21, B23, B24, B25, B30, B32, B33, B34, B35, B36, B37, B38, B39, B40, B41, B45, B50, B51, B65, B66, B69, B70, B74, B75, B76	B22, B42, B43, B48, B49, B52	B46, B47, B252, B255
3GCELL Bands	B5, B6, B8, B12, B13, B14, B19, B20, B26	B1, B2, B3, B4, B7, B9, B10, B11, B21, B25, B32, B33, B34, B35, B36, B37, B38, B39, B40	B22	
2GCELL Bands	710, 750, 810T, 850, 900P, 900E, 900R	1800DCS, 1900PCS		
CDMACELL Bands	BC0, BC2, BC3, BC7, BC9, BC10, BC12, BC18, BC19	BC1, BC4, BC6, BC8, BC13, BC14, BC15, BC16, BC20, BC21		

## Features

- Cable 1 - 2: 5GNR
  - 617-960 MHz
  - 1427-2690 MHz
  - 3300-5000 MHz
  - 5150-5925 MHz
- Cable 3 - 4: 2.4/5.0 GHz ISM
  - 2410-2490 MHz
  - 4920-5925 MHz
- Cable 5: GPS/GLONASS/QZSS/Galileo
  - 1575-1606 MHz
- Adhesive Mount
- High Performance
- Ground Plane Independent
- Customizable Cable and Connector
- Dimensions: 61.8 x 155.6 x 17.0 mm
- IP67, IP69

## Applications

- Fleet management
- Commercial transport
- HD video monitoring
- Buses, train & commercial applications
- Smart cities

Parameter	Specifications			
Frequency Range	617-960MHz	1427-2690MHz	3300-5000MHz	5150-5925MHz
Return Loss	~9.1	~7.0	~6.9	~6.7
VSWR	~2.7:1	~2.9:1	~2.9:1	~3.4:1
Efficiency (%)	~45.8	~39.6	~32.2	~14.4
Peak Gain (dBi)	~1.2	~1.3	~0.6	~2.7
Average Gain (dB)	~3.4	~4.2	~5.0	~8.6
Impedance (Ohm)	50			
Polarization	Linear			
Radiation Pattern	Omni-Directional			
Max Input Power	35			
Connector Type	SMA-Male Standard (Other Connectors Available)			
Cable Length	300 cm Standard (Any Cable Length Available)			
Cable Type	LL195 Standard (Other Cables Available)			

Parameter	Specifications			
Frequency Range	617-960MHz	1427-2690MHz	3300-5000MHz	5150-5925MHz
Return Loss	~7.8	~8.8	~5.1	~4.3
VSWR	~2.7:1	~2.7:1	~3.8:1	~4.2:1
Efficiency (%)	~43.0	~40.0	~25.1	~22.7
Peak Gain (dBi)	~0.4	~1.7	~0.1	~1.4
Average Gain (dB)	~3.7	~4.2	~6.3	~6.7
Impedance (Ohm)	50			
Polarization	Linear			
Radiation Pattern	Omni-Directional			
Max Input Power	35			
Connector Type	SMA-Male Standard (Other Connectors Available)			
Cable Length	300 cm Standard (Any Cable Length Available)			
Cable Type	LL195 Standard (Other Cables Available)			

Parameter	Specifications	
Standards	WiFi, BT, ZigBee, ISM	
Band (MHz)	2.4 GHz	5.0 GHz
Frequency Range	2410-2490 MHz	4920-5925 MHz
Return Loss (dB)	~7.8	~9.8
VSWR	~2.4:1	~2.0:1
Efficiency (%)	~24.3	~47.2
Peak Gain (dBiC)	~1.5	~3.8
Average Gain (dB)	~6.3	~3.3
Impedance (Ohm)	50	
Radiation Pattern	Omni-Directional	
Polarisation	Linear	
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	LL195 Standard (Other Cables Available)	

Parameter	Specifications	
Standards	WiFi, BT, ZigBee, ISM	
Band (MHz)	2.4 GHz	5.0 GHz
Frequency Range	2410-2490 MHz	4920-5925 MHz
Return Loss (dB)	~-11.6	~-18.3
VSWR	~1.7:1	~1.4:1
Efficiency (%)	~39.0	~55.9
Peak Gain (dBiC)	~0.8	~4.9
Average Gain (dB)	~-4.3	~-2.6
Impedance (Ohm)	50	
Radiation Pattern	Omni-Directional	
Polarisation	Linear	
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	LL195 Standard (Other Cables Available)	

#### Antenna Measurement Conditions:

Mounted on Plastic Plate of 30 x 30 cm

100 cm of Cable LL195

Measured in Certified CTIA 3D Anechoic Chamber

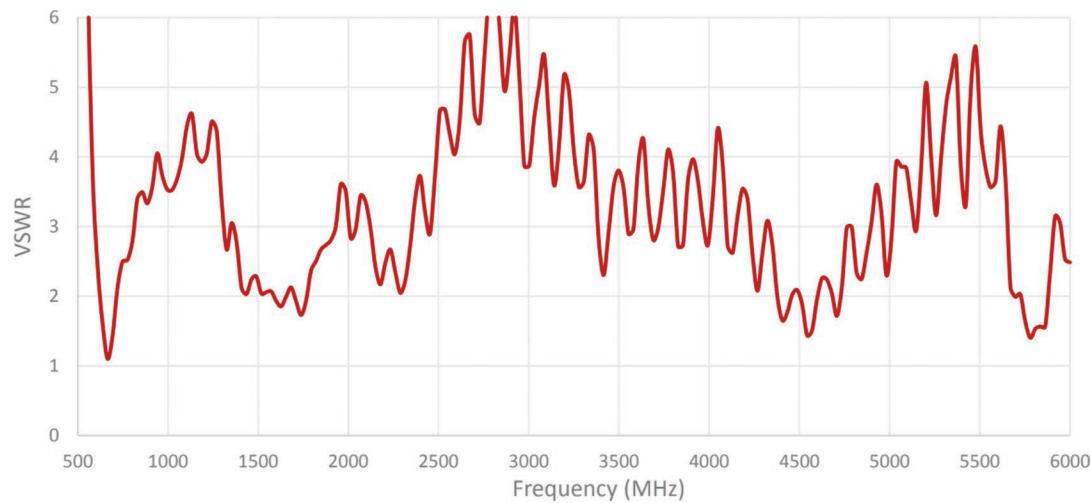
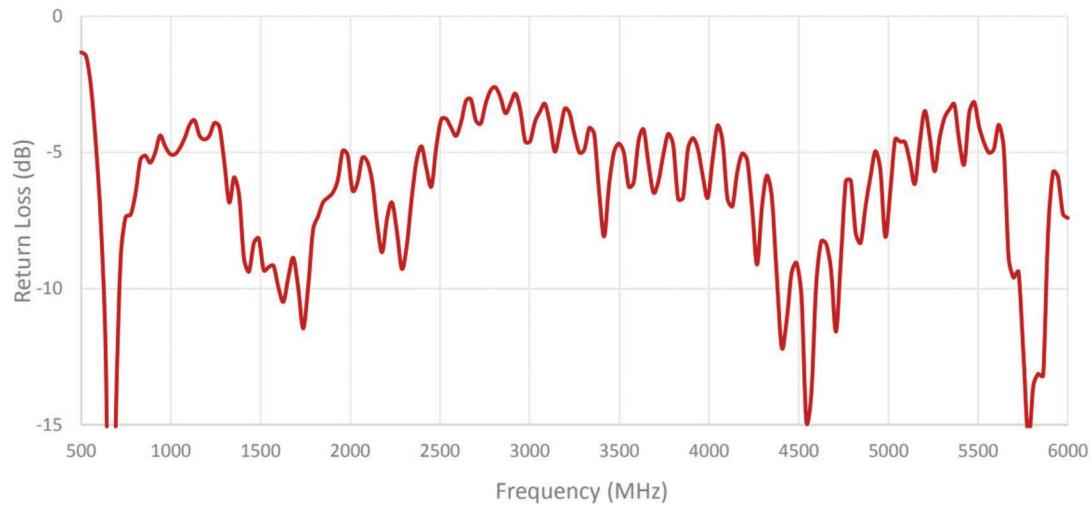
Parameter	Specifications	
Standards	GPS/QZSS/Galileo	GLONASS
Band (MHz)	1575	1602
Frequency Range	1575.42 MHz	1598-1610 MHz
Return Loss (dB)	<=-15 dB	
Patch Size (mm)	25 x 25 x 4	
Impedance (Ohm)	50	
VSWR	<=1.4:1 dB	
Radiation Pattern	Hemispherical	
Polarization	RHCP	
Saw Filter	Pre-Filter	
Active Gain (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	300 cm Standard (Any Cable Length Available)	
Cable Type	LL100 Standard (Other Cables Available)	

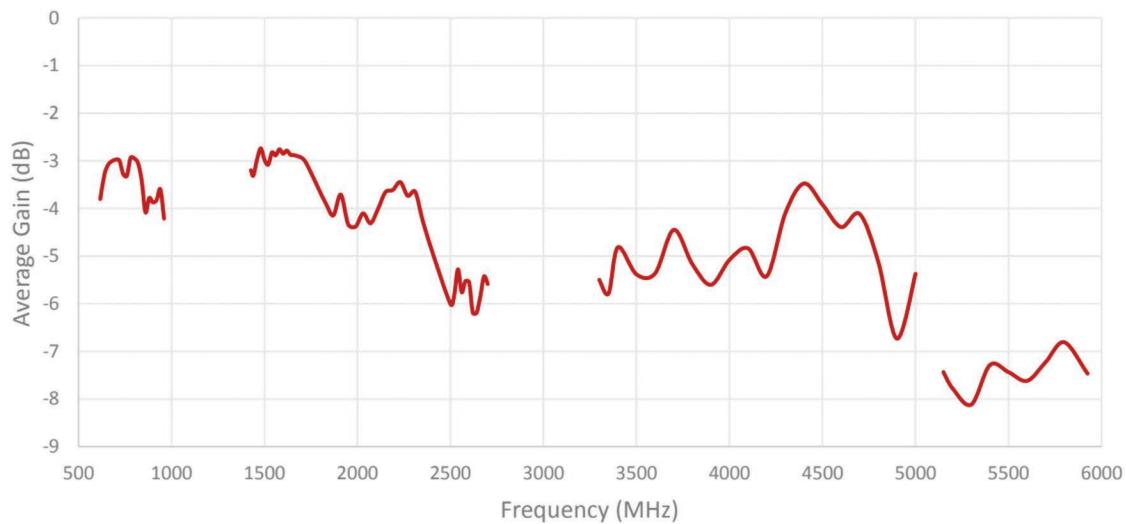
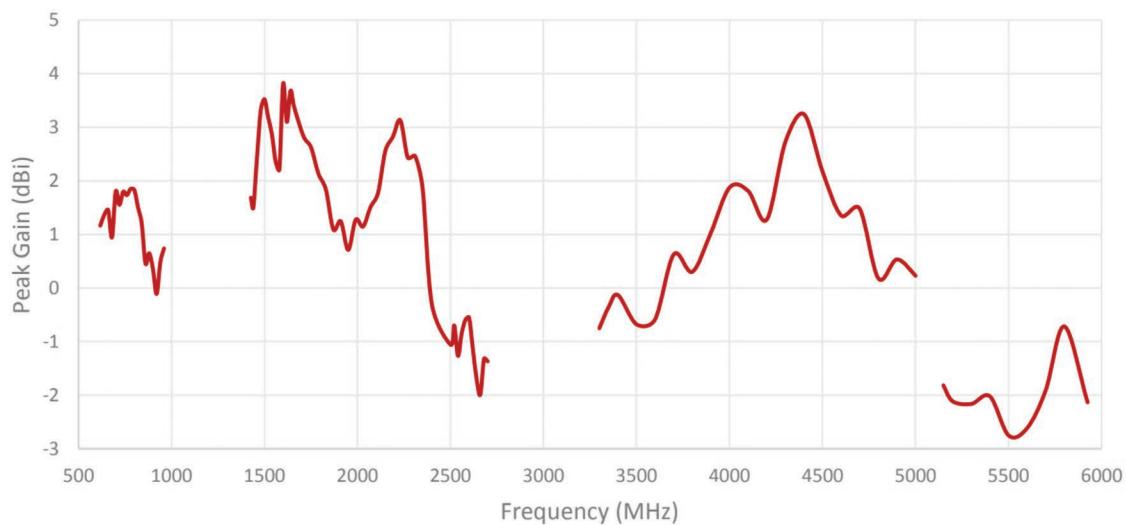
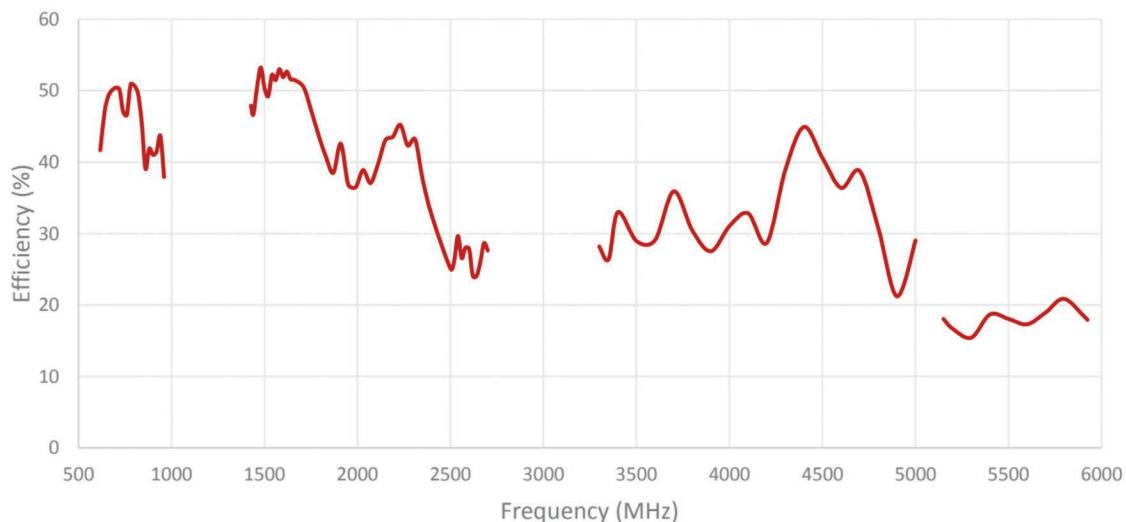
## Mechanical Specifications

Parameter	Specifications
Antenna Dimensions (mm)	61.8 x 155.6 x 17.0
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Mounting Type	Adhesive Mount
Substance Compliance	RoHS
Radome Type/Color	ABS UV Stable/Black
Certificates	IP67, IP69, CE, Vibration

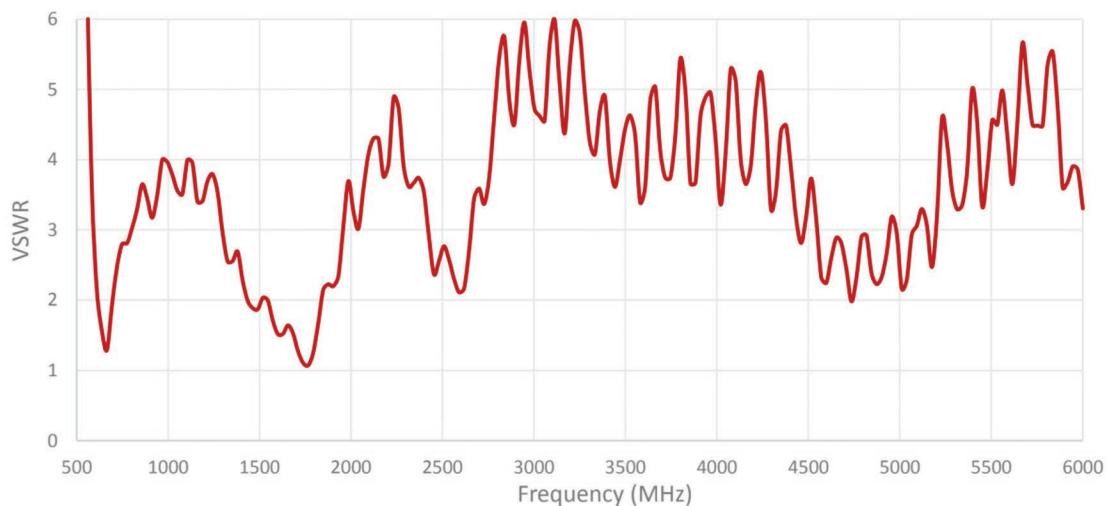
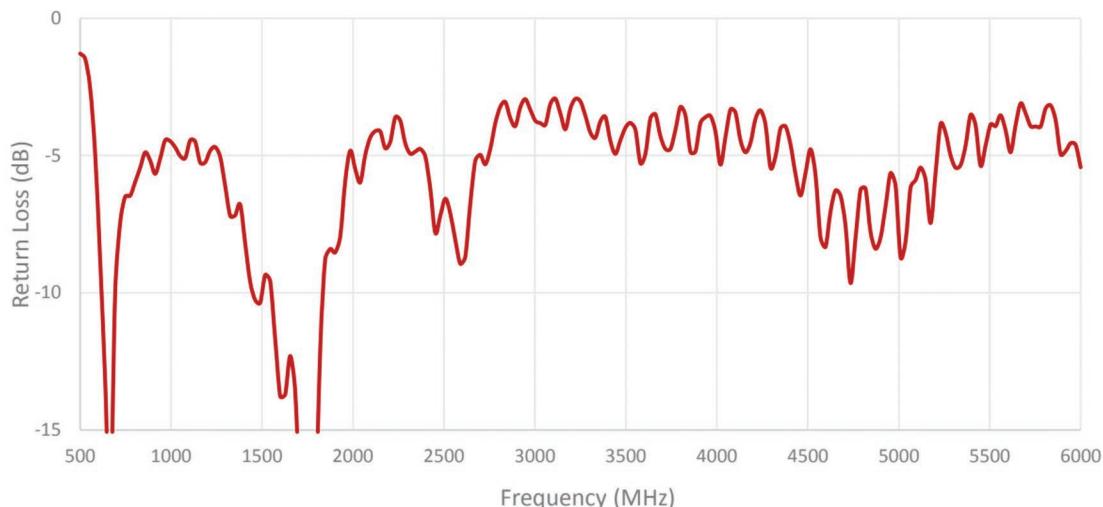
## Antenna Parameters

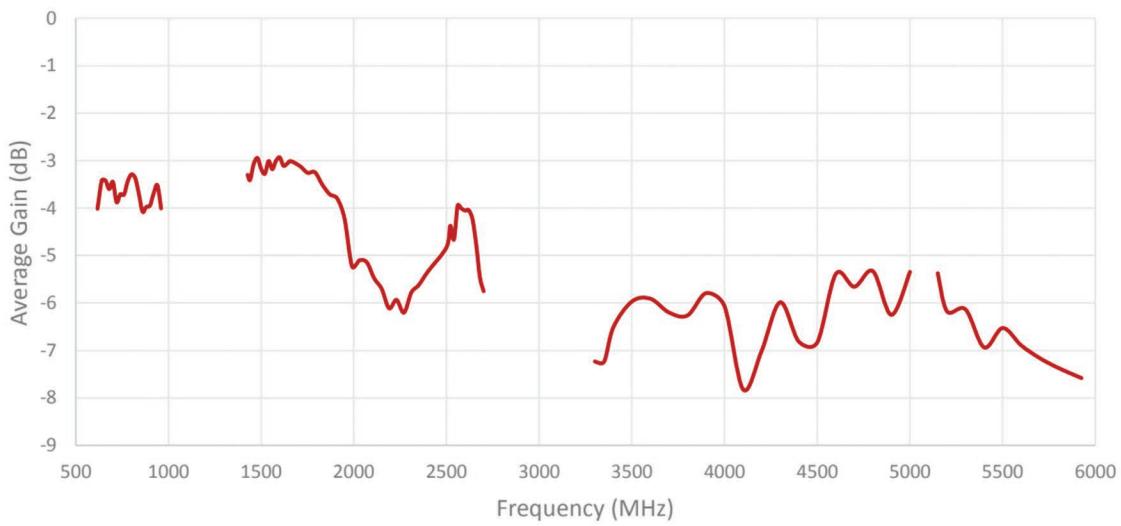
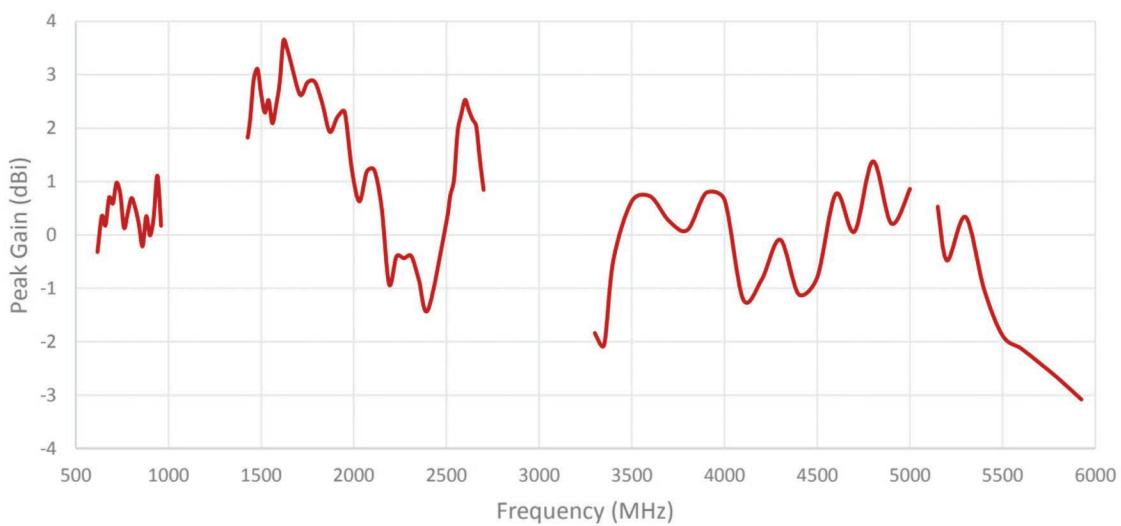
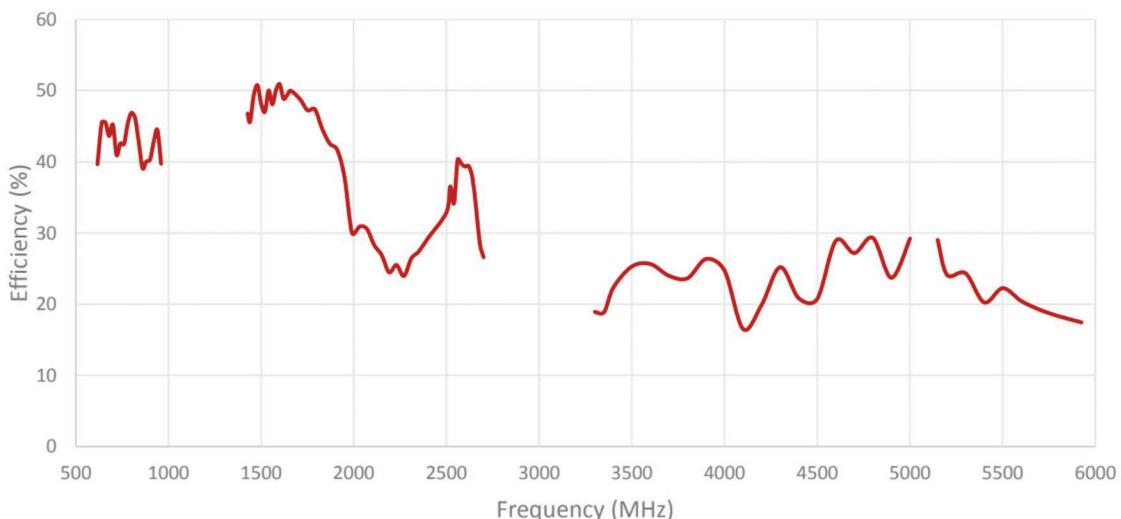
**Cable 1: 5GNR**



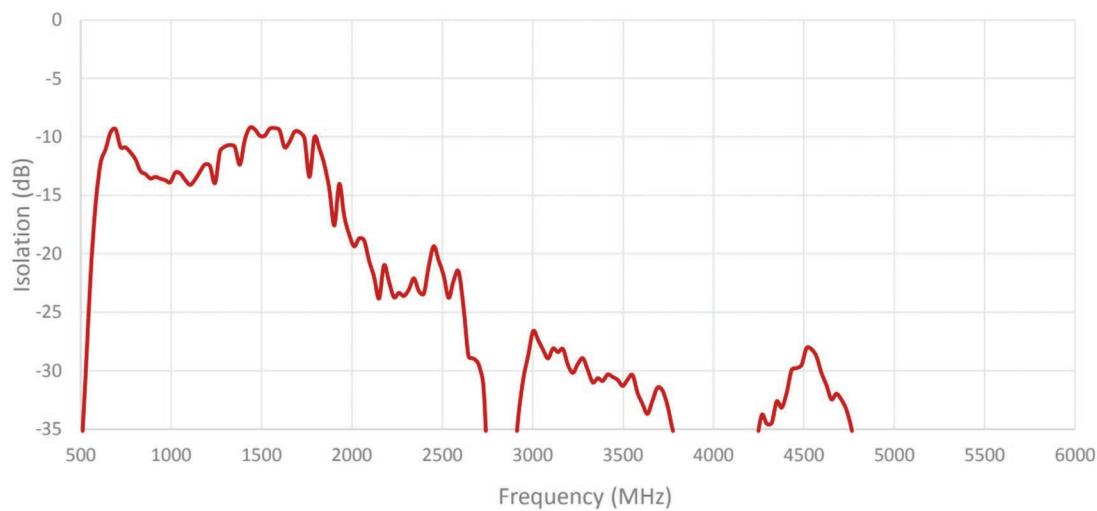


**Cable 2: 5GNR**

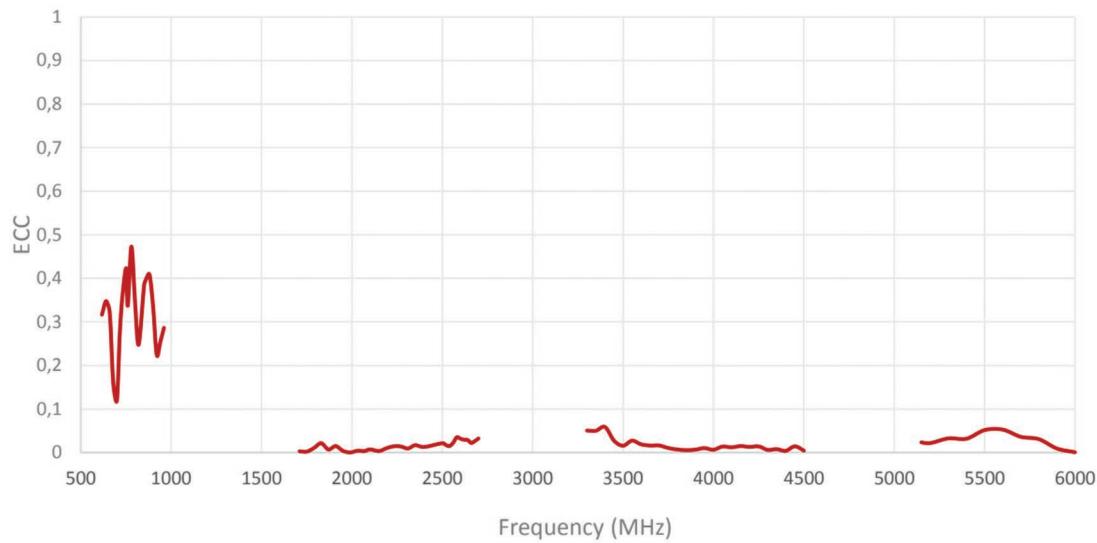




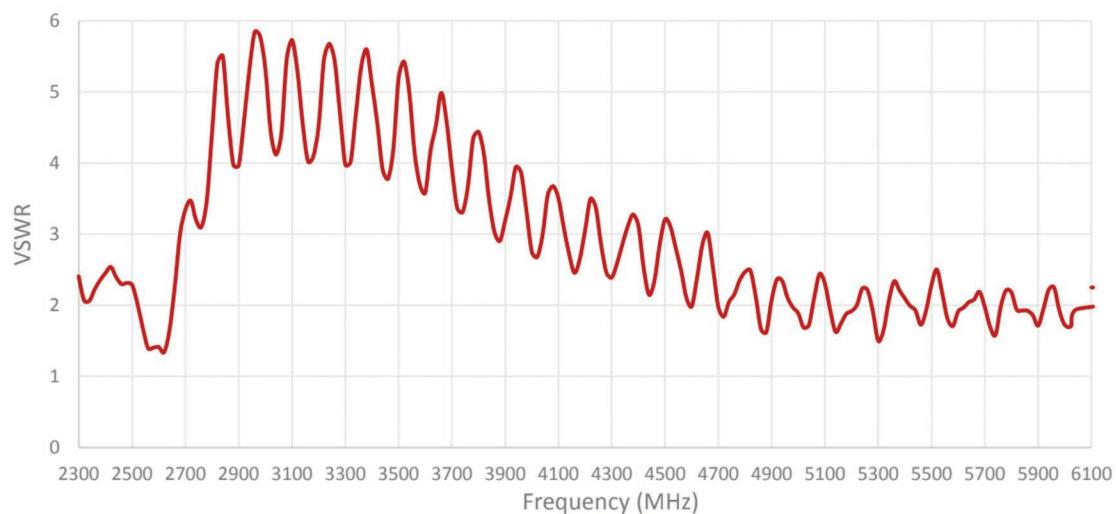
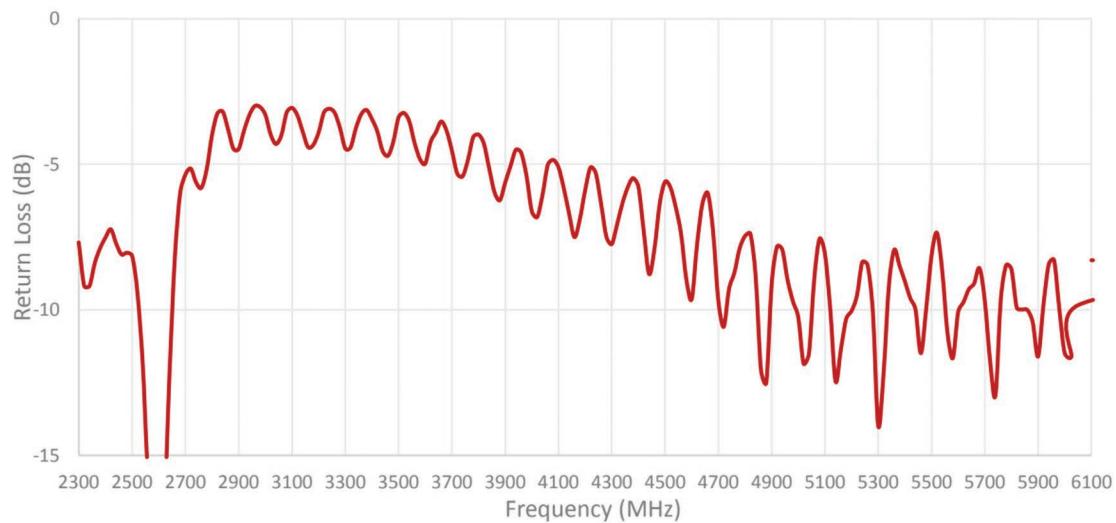
### ISOLATION FOR CABLES 1 AND 2

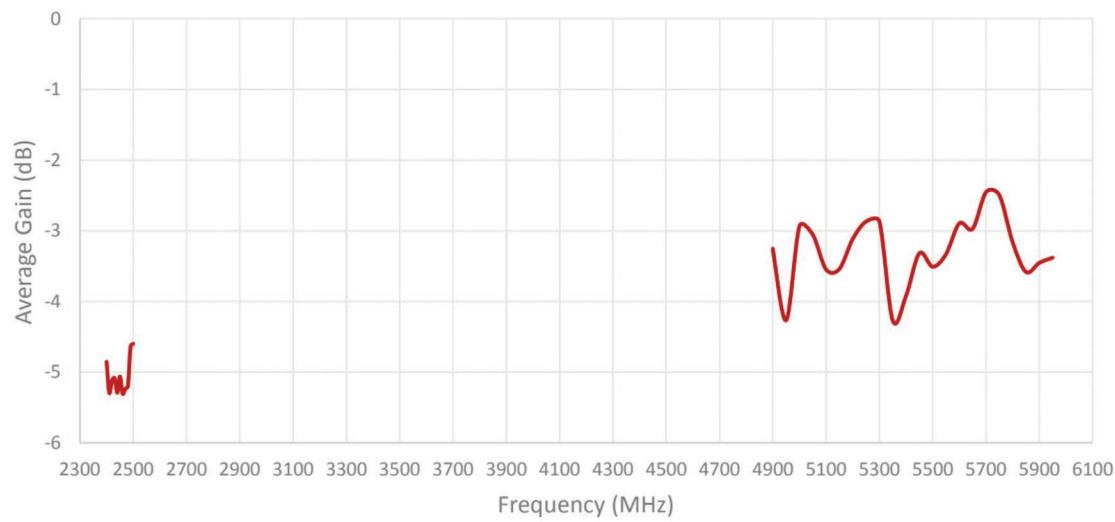
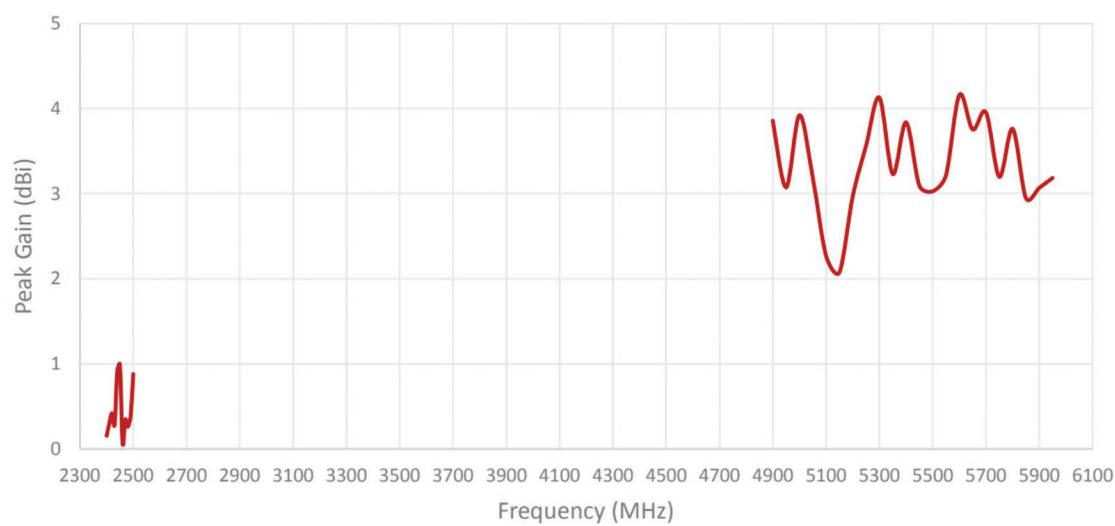
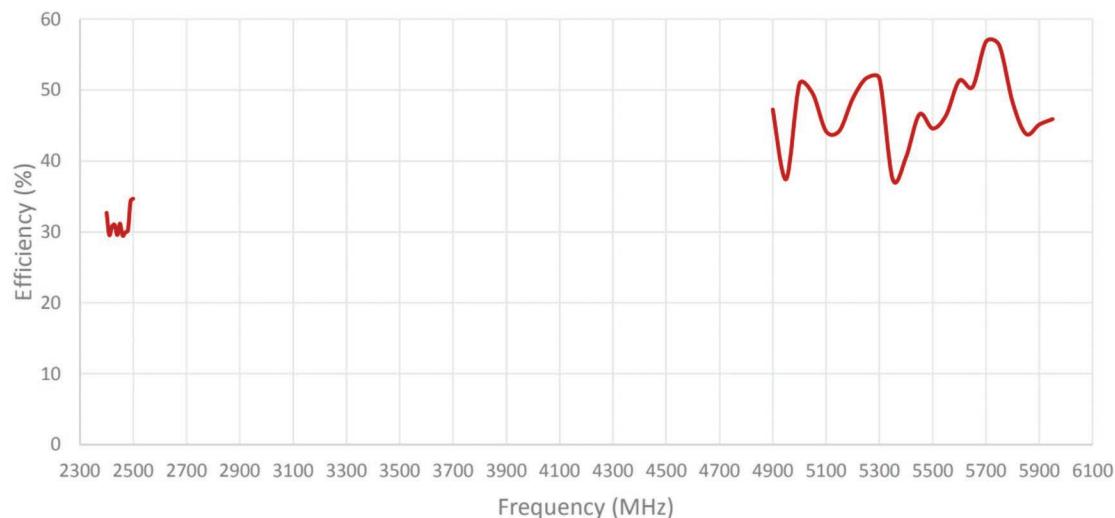


### ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2

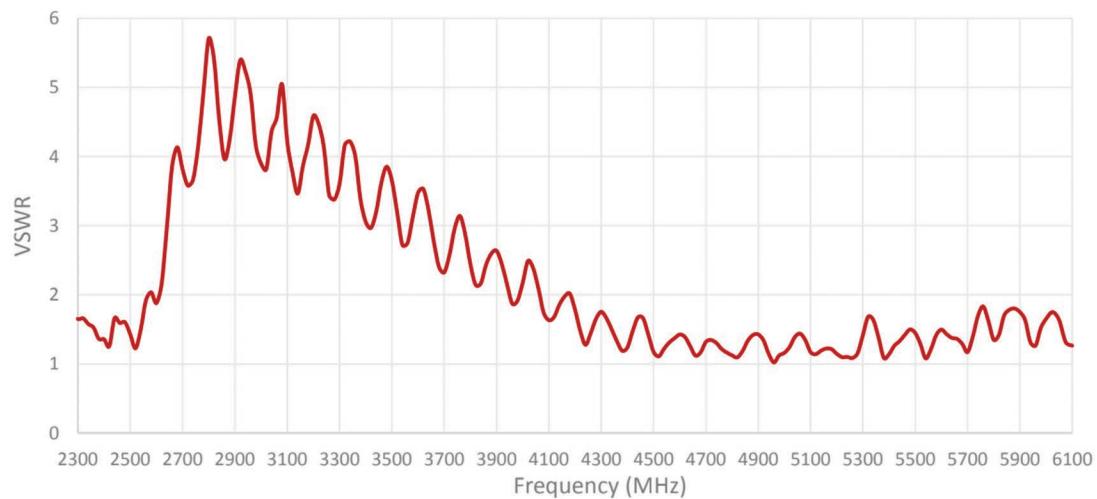
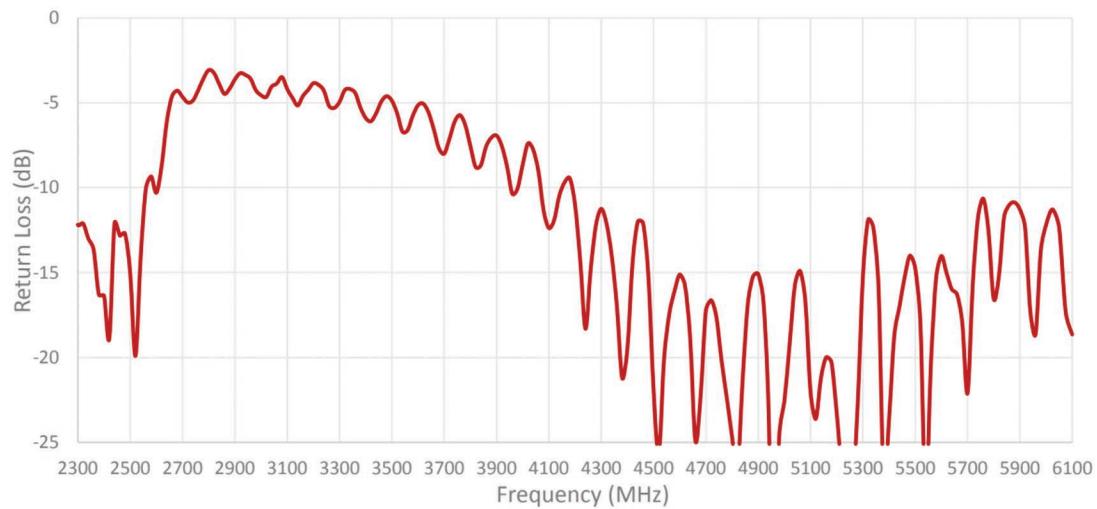


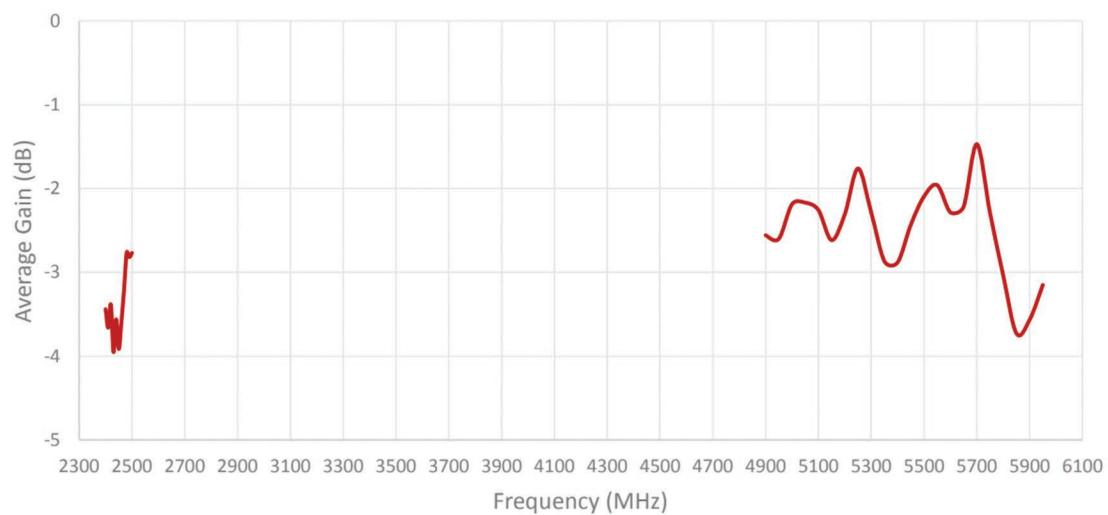
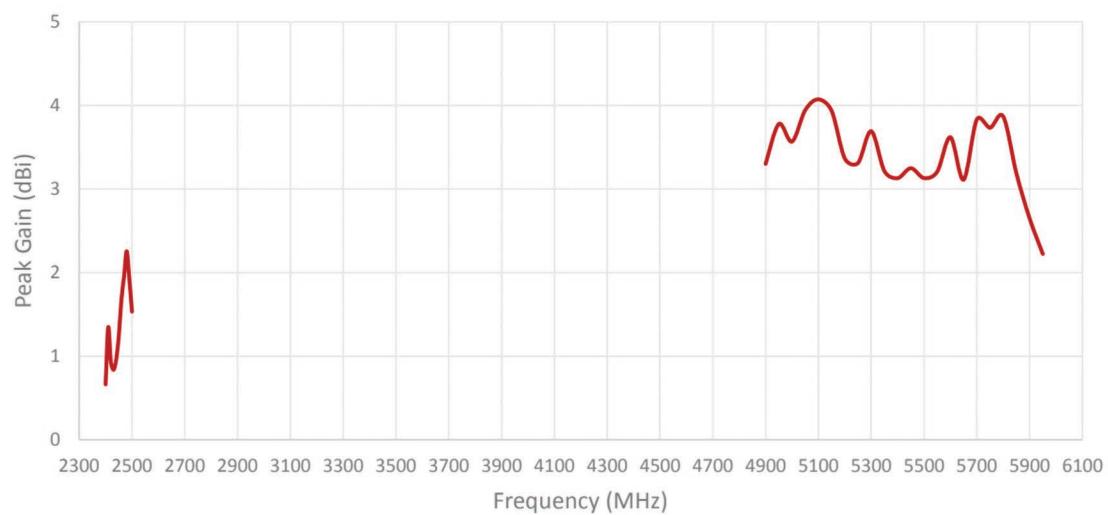
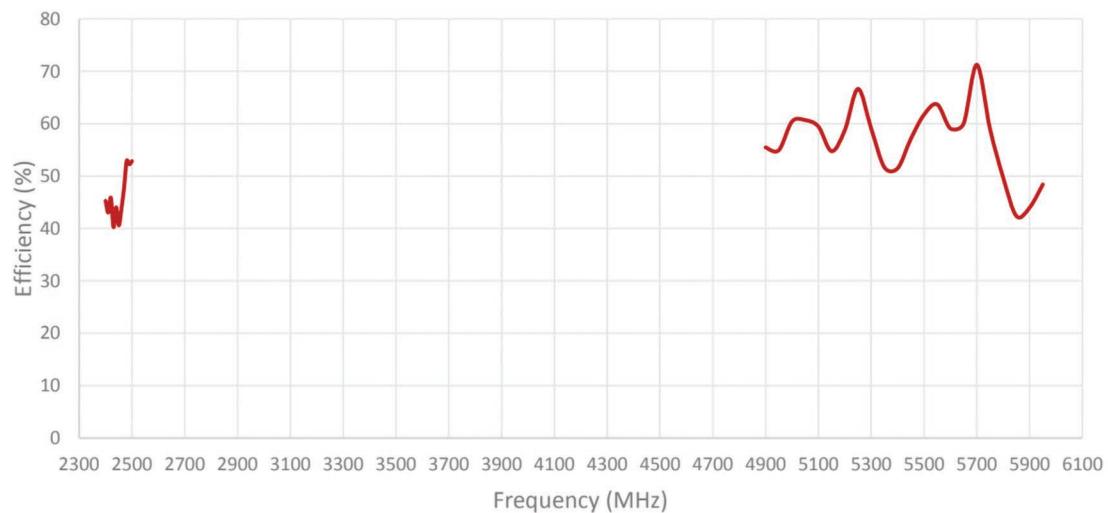
**Cable 3: 2.4/5.0 GHz ISM**



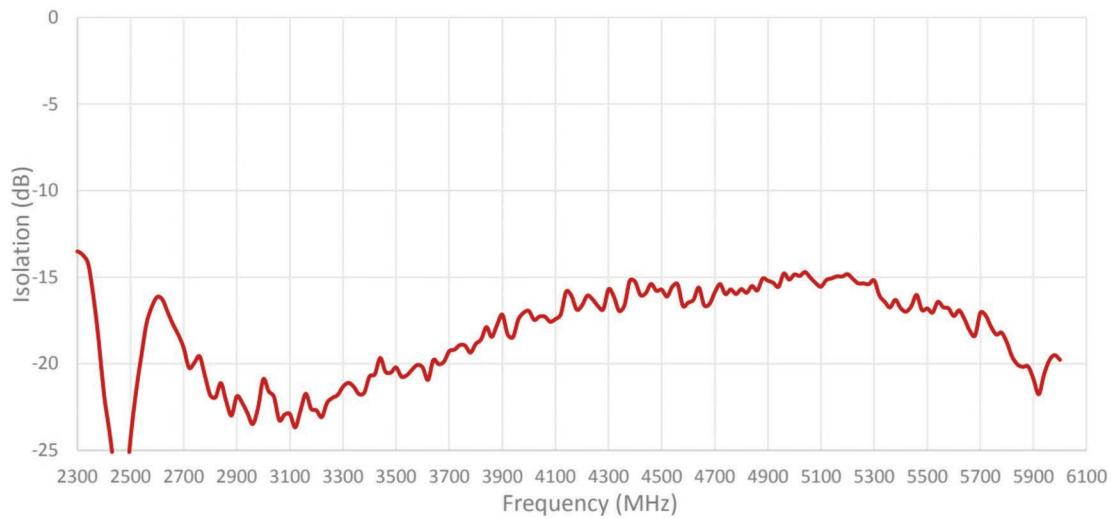


**Cable 4: 2.4/5.0 GHz ISM**

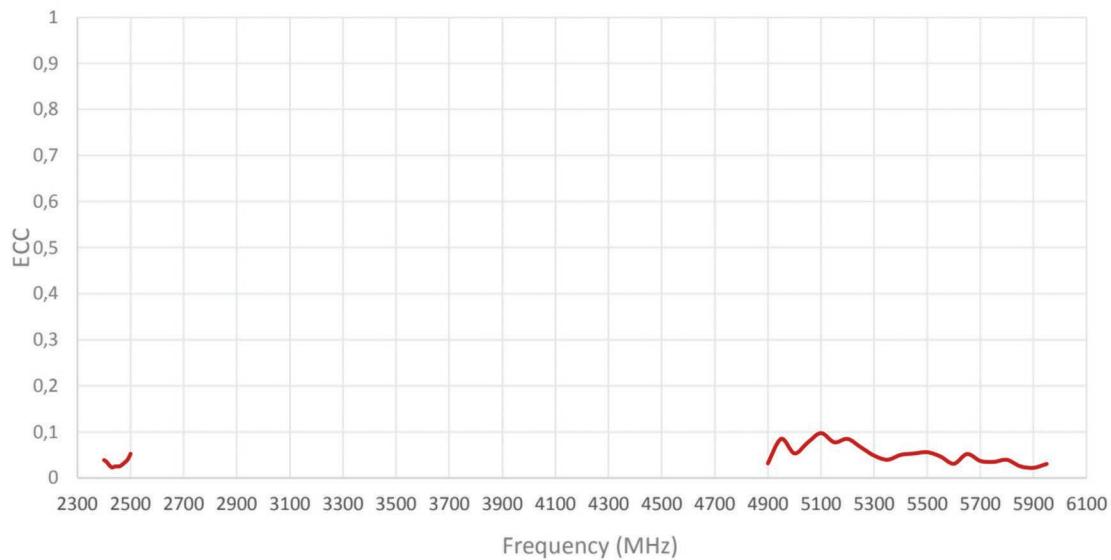




#### ISOLATION FOR CABLES 3 AND 4

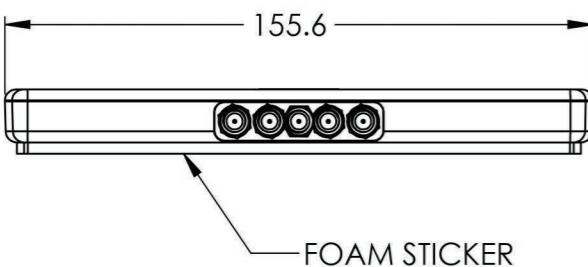
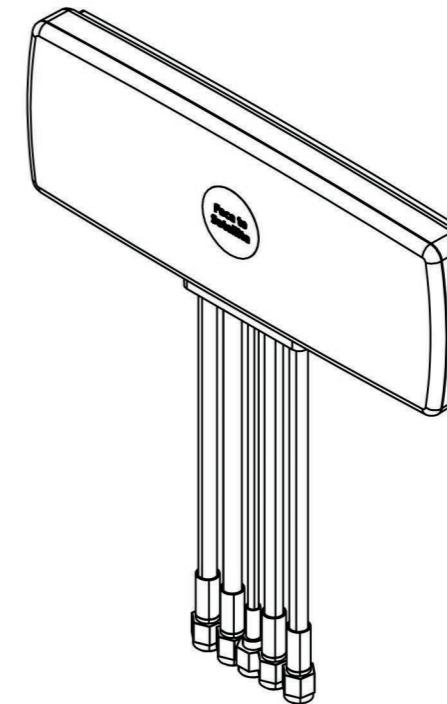
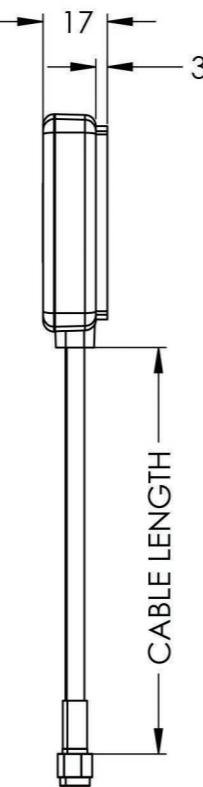
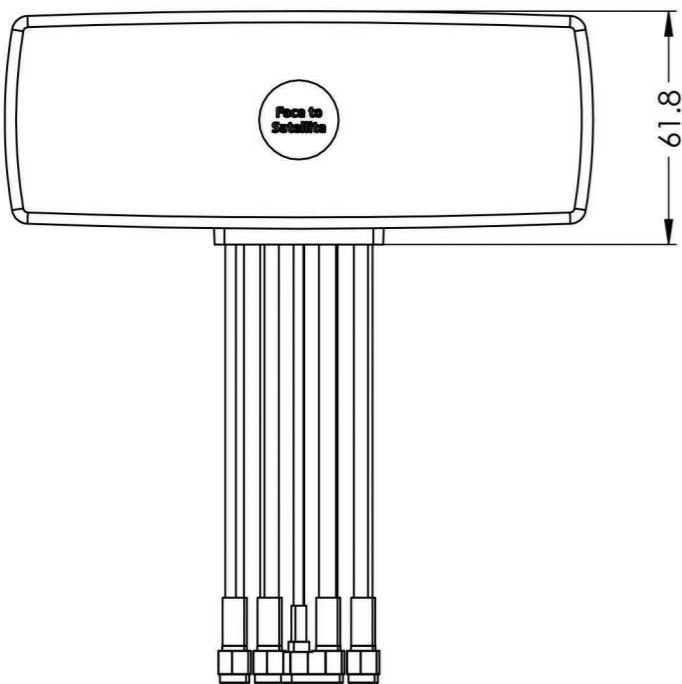


#### ENVELOPE CORRELATION COEFFICIENT FOR CABLES 3 AND 4



## DRAWING REVISION HISTORY

REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2024-01-15	MP



## NOTES:

1. FREQUENCY:
  - CABLE 1-2: 5GNR (617-960, 1427-2690, 3300-5000 AND 5150-5925 MHz)
  - CABLE 3-4: 2.4/5.0 GHz ISM (2410-2490 AND 4920-5925 MHz)
  - CABLE 5: GPS/GLONASS/Galileo/QZSS (1575-1606 MHz)
2. CUSTOMIZABLE CABLE AND CONNECTOR OPTIONS
3. MOUNTING TYPE: ADHESIVE MOUNT
4. DIMENSIONS ARE AFTER MOUNTING
5. MATERIALS:
  - RADOME: ASA UV STABLE
  - ANTENNA BASE: ABS
  - RADOME COLOR: BLACK OR WHITE
6. OPERATING TEMPERATURE: -40°C ~ +85°C
7. STORAGE TEMPERATURE: -40°C ~ +85°C
8. CERTIFICATIONS: IP67, IP69, CE, VIBRATION

100-00334-01 CONFIGURATION TABLE

ITEM 100-00334-01 REVISION HISTORY			
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A	INITIAL RELEASE	2024-01-15	MP

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UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE:
DIMENSIONS ARE IN MM	DRAWN	MP	
TOLERANCES:	2024-01-15		
FRACTIONAL ±	CHECKED	AV	
ANGULAR: MACH ± .5° BEND ±	ENG APPR.	AV	
ONE PLACE DECIMAL ± 1.0	MFG APPR.		
TWO PLACE DECIMAL ± .50	Q.A.		
INTERPRET GEOMETRIC			
TOLERANCING PER:			
	CAD MAINTAINED.		
THIRD ANGLE PROJECTION	CHANGES SHALL BE		
	INCORPORATED BY		
	THE DESIGN ACTIVITY.		
DO NOT SCALE DRAWING			

MAXTENA, INC

100-00334-01  
MEA-5G-IMG-AM

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