

Antenna 195008



2x 5G NR MIMO, 2.4/5.0/6.0 GHz, GNSS



Technical Data:

Frequency Range	617-960, 1427-2690, 3300-5000, 5150-5925 MHz / 2410-2490, 4920-7125 MHz / 1575-1606 MHz
Nominal Impedance	50 ohm
Polarization	Linear
Mounting	Screw Mount
Cable	3m D302/LL100
Connector	FAKRA-A-(f)-QUAD
Dimension	193 × 76.3 × 52.4 mm
Operating temperature	-40 °C to +85 °C
Certificates	IP67, IP69

Antenna and electrical specifications

CONNECTION 1	
5G NR	
Technologies	5G, 4G, 3G and 2G
Standards	5G NR/4G LTE/FirstNet/CBRS/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G
Frequency	617-960, 1427-2690, 3300-5000, 5150-5925
Return Loss (dB)	~-6.9, ~-15.9, ~-15.0, ~-6.7
VSWR	~2.7:1, ~1.5:1, ~1.6:1, ~2.8:1
Efficiency (%)	~40.2, ~47.3, ~35.3, ~22.1
Peak Gain (dBi)	~2.5, ~5.0, ~4.8, ~3.3
Impedance (Ohm)	50
Polarisation	Linear
Radiation Pattern	Omni-Directional
Max. Input Power (W)	25

CONNECTION 2	
5G NR	
Technologies	5G, 4G, 3G and 2G
Standards	5G NR/4G LTE/FirstNet/CBRS/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G
Frequency	617-960, 1427-2690, 3300-5000, 5150-5925
Return Loss (dB)	~-7.1, ~-15.4, ~-18.1, ~-9.2
VSWR	~2.7:1, ~1.5:1, ~1.4:1, ~2.1:1
Efficiency (%)	~39.7, ~46.9, ~39.8, ~33.8
Peak Gain (dBi)	~2.5, ~5.0, ~5.4, ~4.4
Impedance (Ohm)	50
Polarisation	Linear
Radiation Pattern	Omni-Directional
Max. Input Power (W)	25

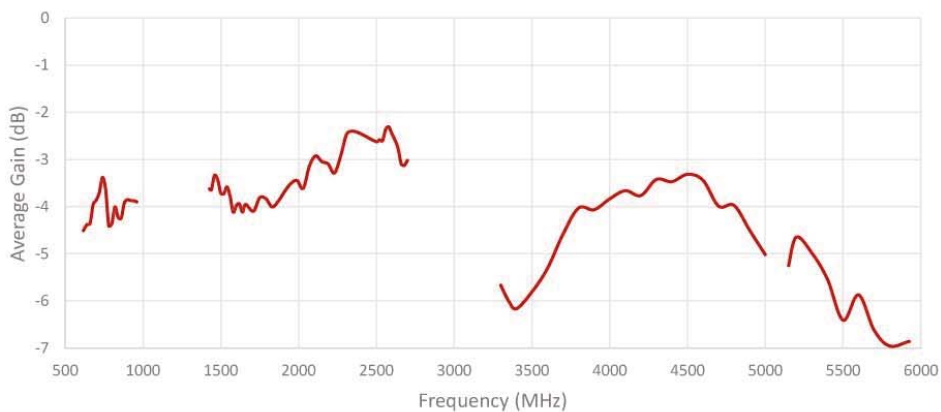
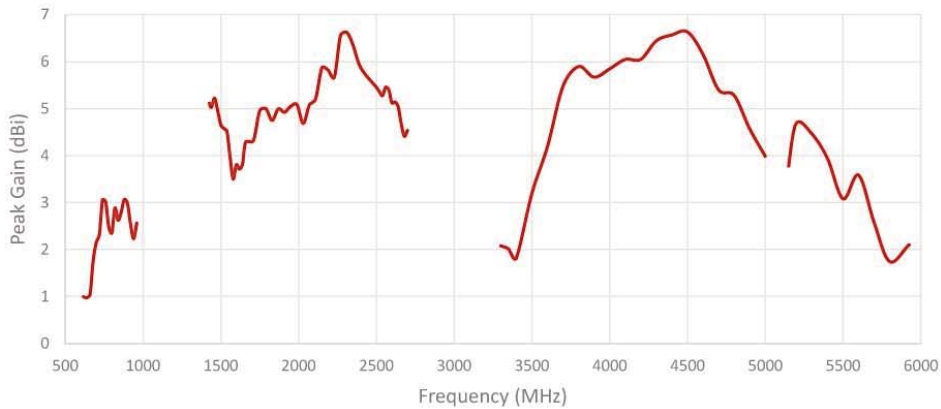
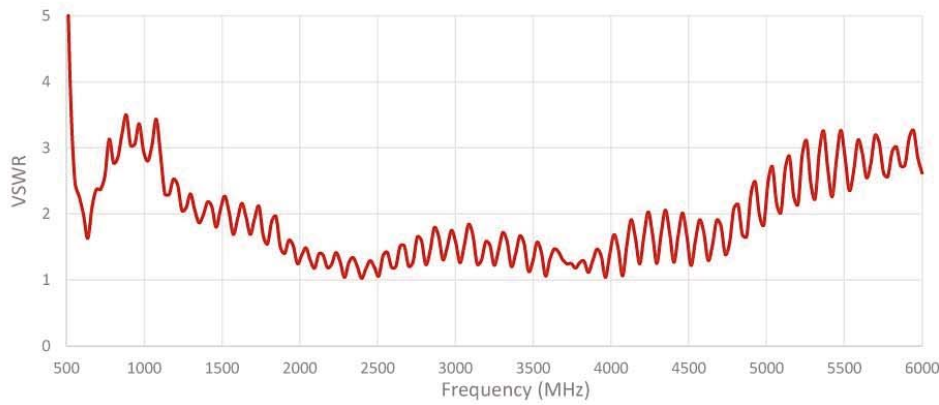
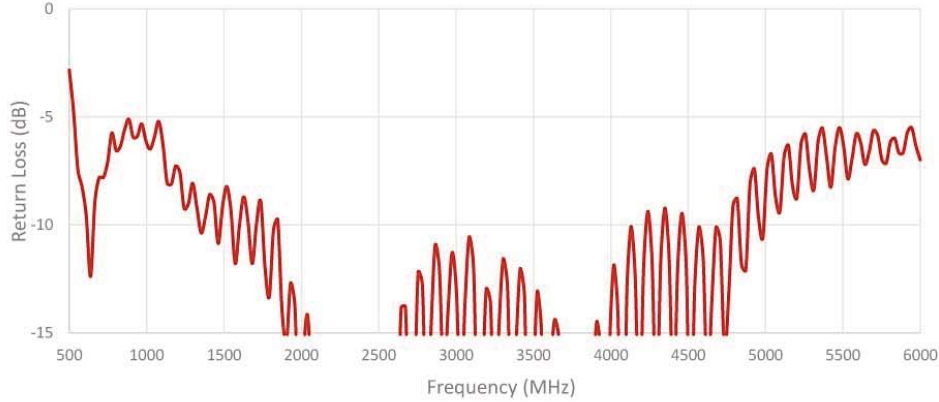
CONNECTION 3	
2.4 / 5.0 / 6.0 GHz ISM	
Standards	WiFi, Bluetooth® ZigBee, ISM, SigFox, LoRa
Frequency	2410-2490, 4920-5925, 5925-7125
VSWR	~1.5:1, ~1.3:1, ~1.8:1
Efficiency (%)	~50.2, ~48.2, ~32.1
Peak Gain (dBi)	~4.2, ~6.4, ~5.3
Impedance (Ohm)	50
Polarisation	Linear
Max. Input Power (W)	25

CONNECTION 4	
GPS / GLONASS	
Standards	GPS/GLONASS/QZSS/Galileo
Frequency	1575.42, 1598-1610
VSWR	<=1.4:1
Impedance (Ohm)	50
Polarisation	RHCP
Radiation Pattern	Hemispherical
Voltage Range (V)	1.5 - 3.6
Active Gain (dB)	28 @ 2.7 V
Noise Figure (dB)	1.5 @ 2.7 V
Current Consumption (mA)	9 @ 2.7 V
Saw Filter Type	Pre-Filter
ESD Protection (KV)	2

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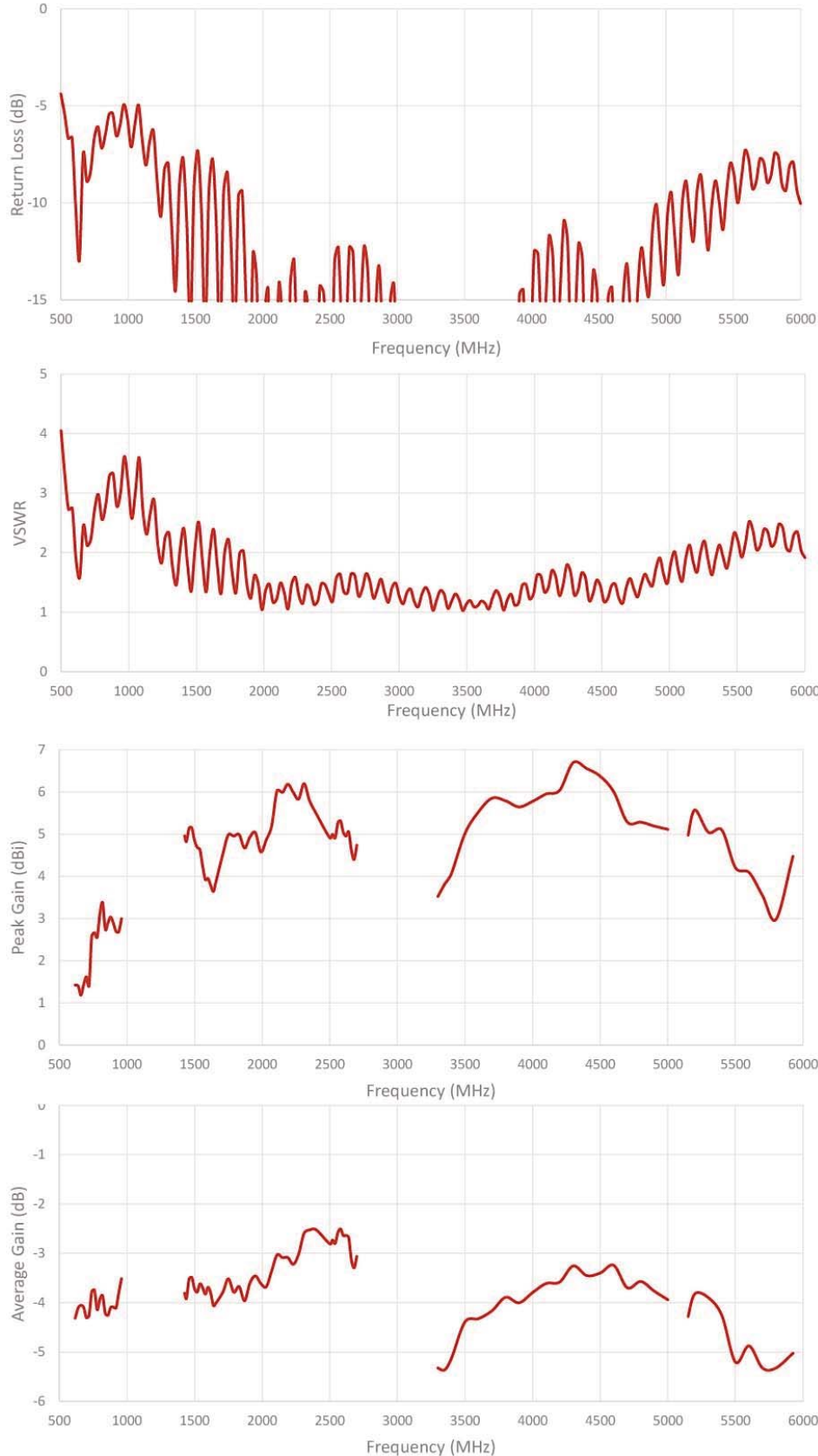
Cable 1: 5GNR



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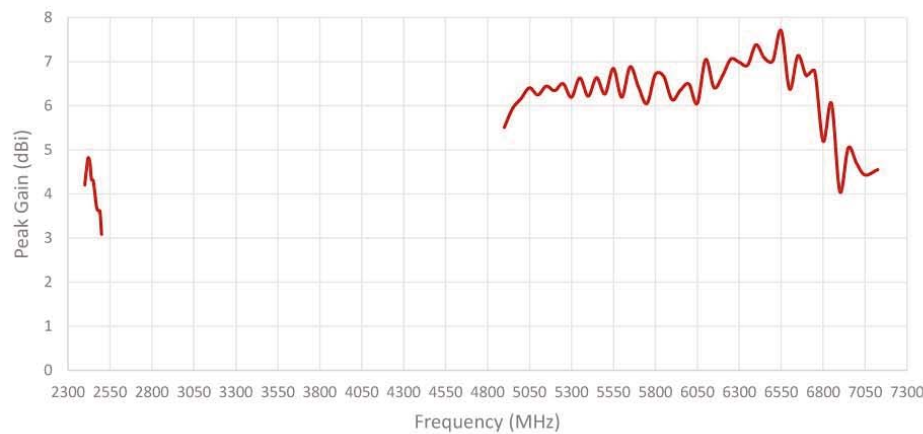
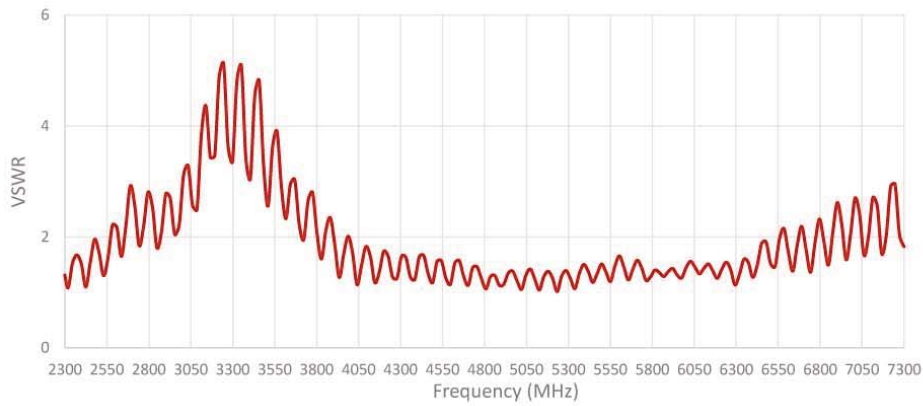
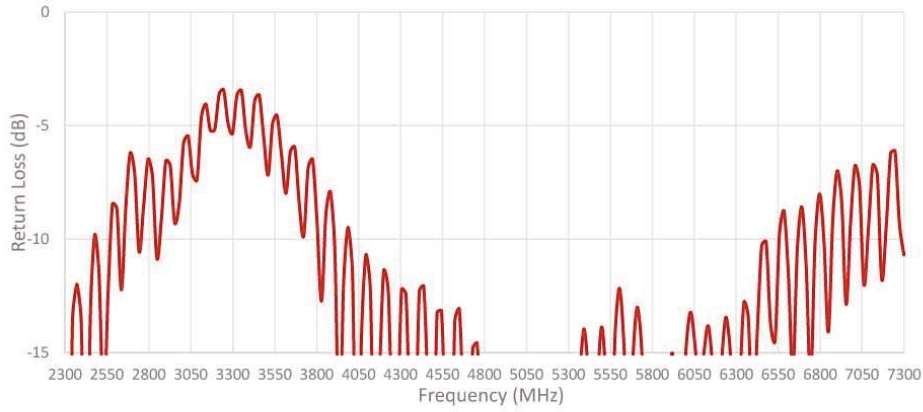
Cable 2: 5GNR



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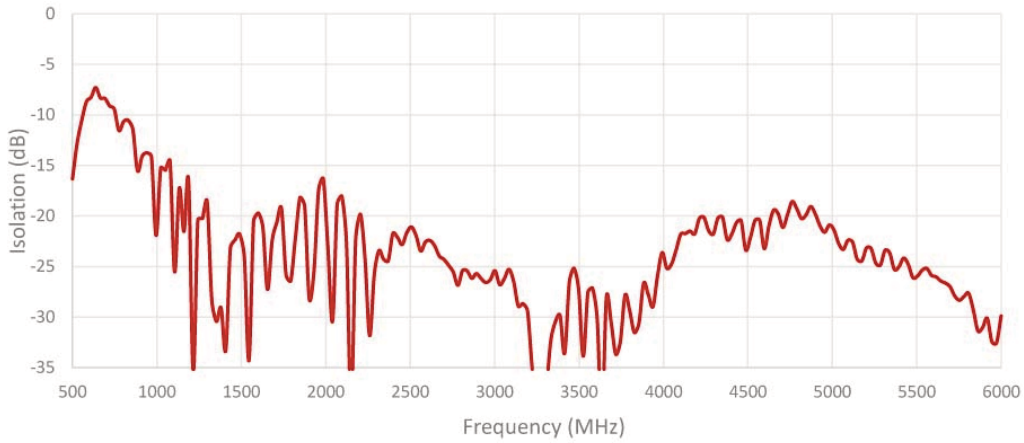
Cable 3: 2.4/5.0/6.0 GHz ISM



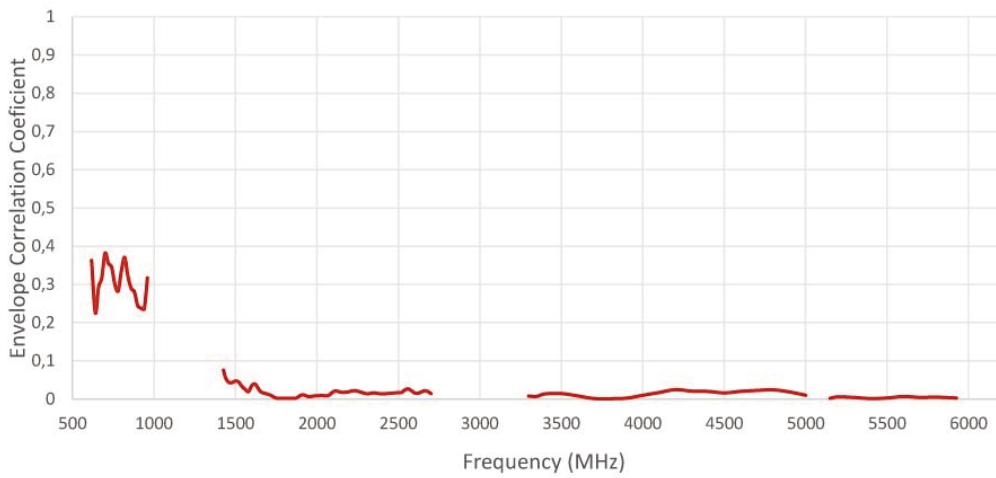
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ISOLATION FOR CABLES 1 AND 2



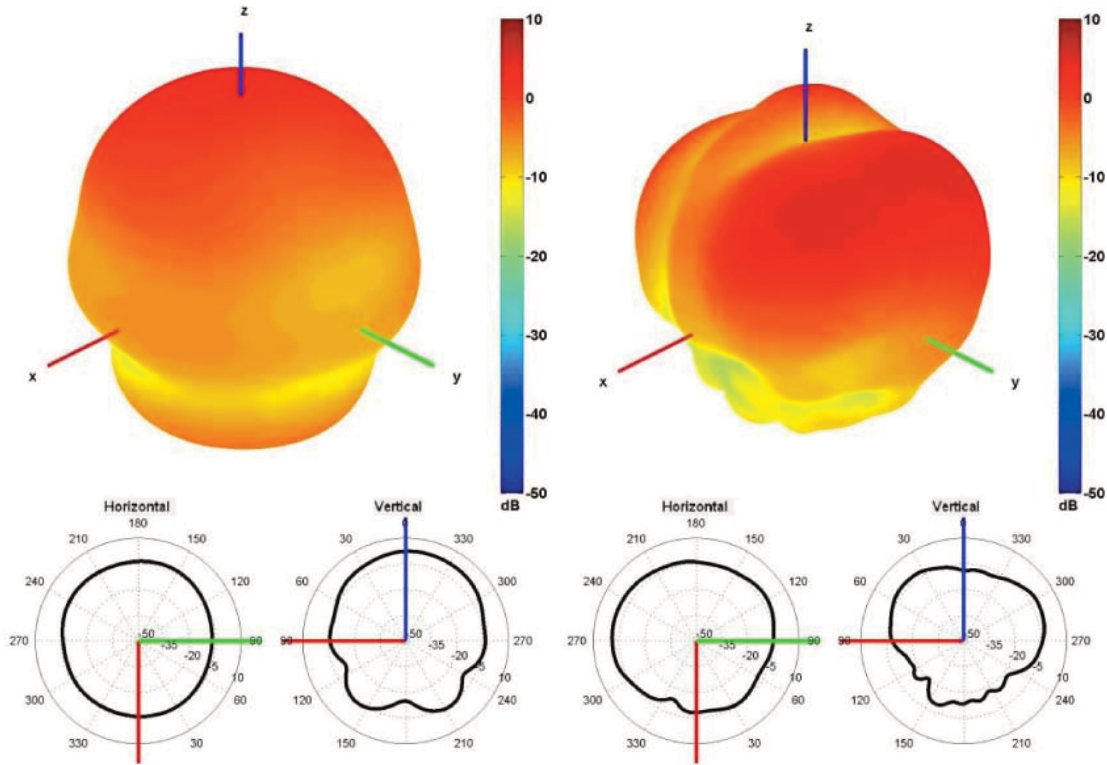
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2



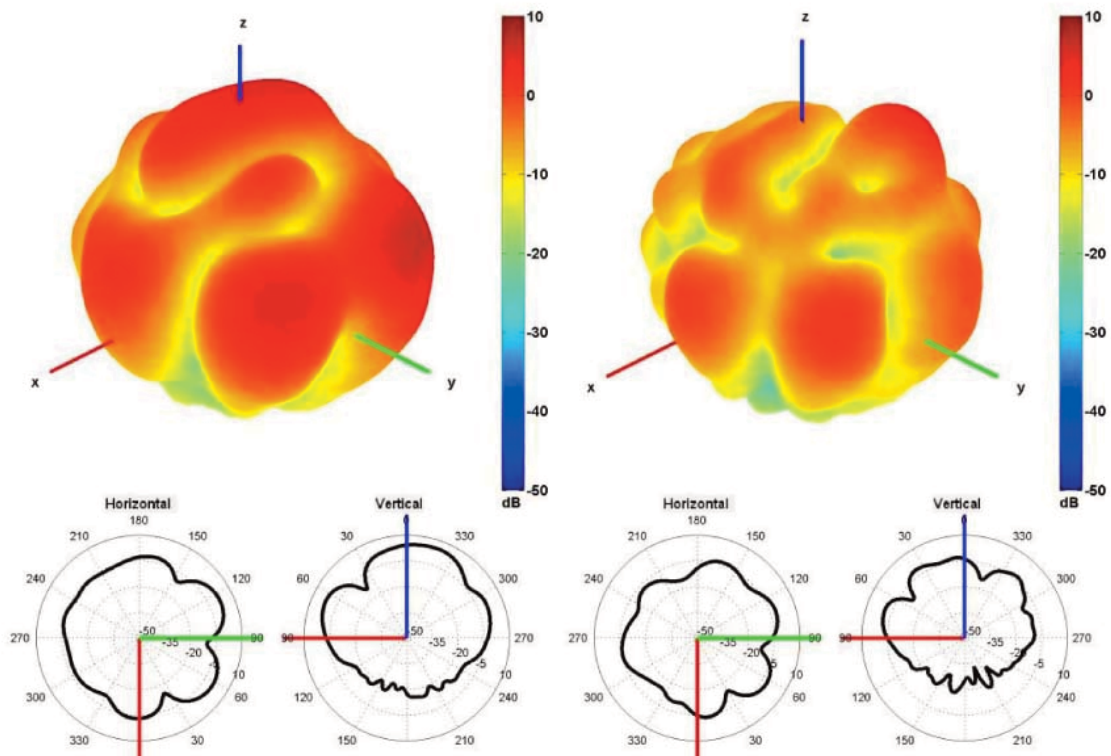
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Cable 1: 5GNR



740 and 2500 MHz Radiation pattern

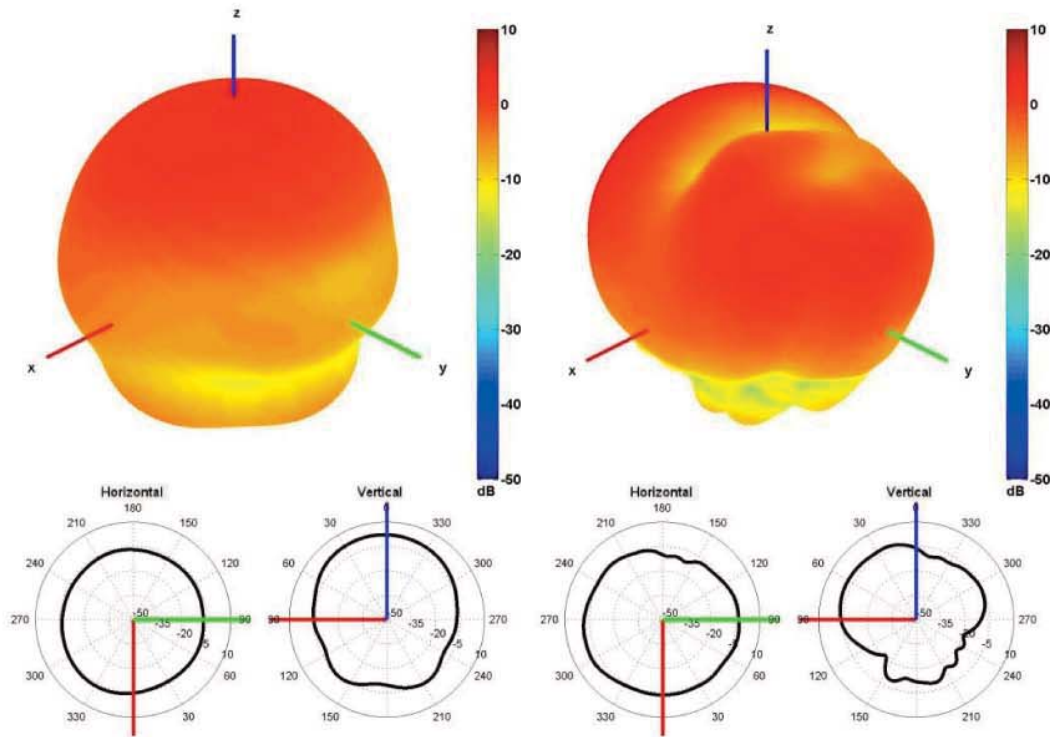


4500 and 5500 MHz Radiation pattern

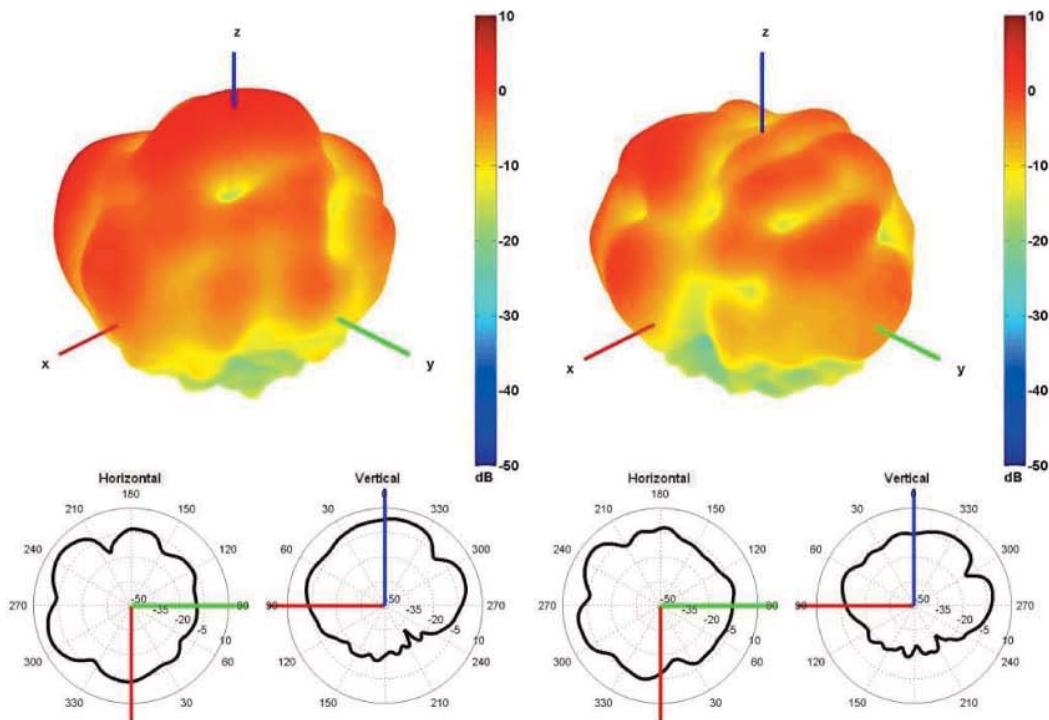
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Cable 2: 5GNR



740 and 2500 MHz Radiation pattern

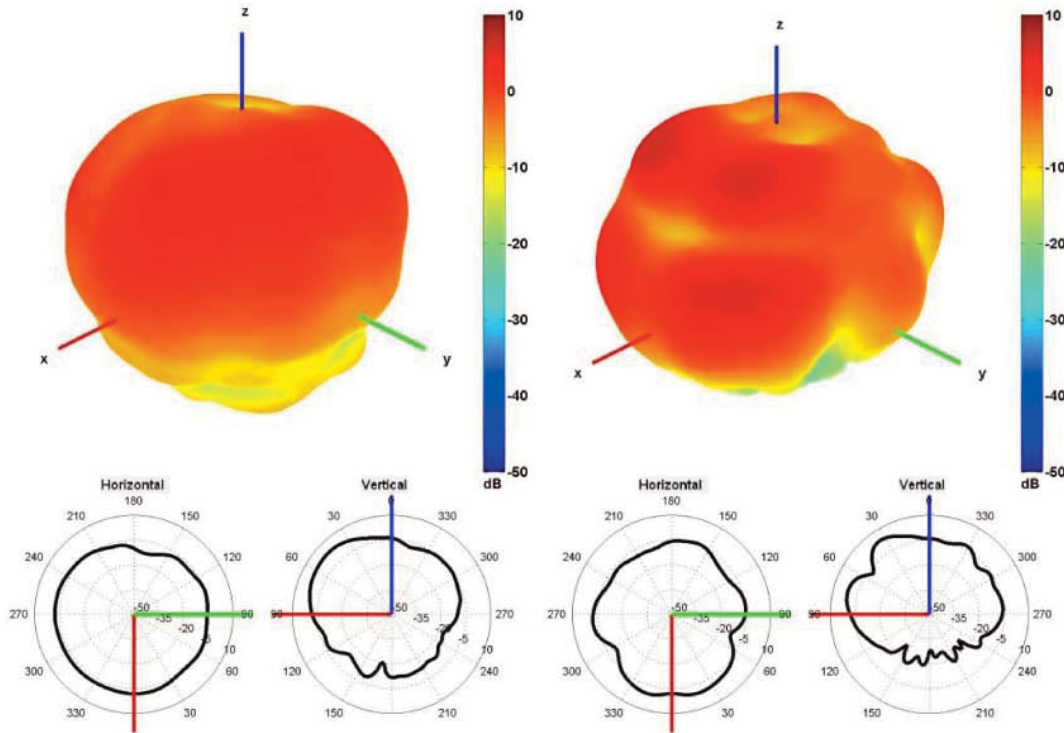


4500 and 5500 MHz Radiation pattern

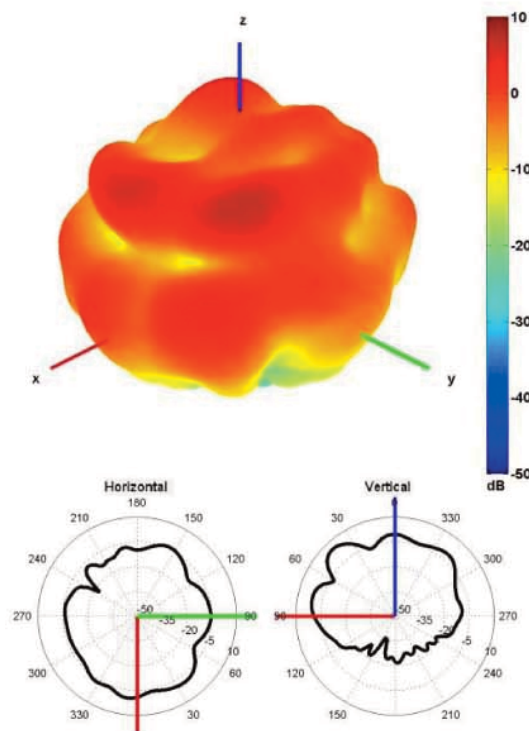
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Cable 3: 2.4/5.0/6.0 GHz ISM

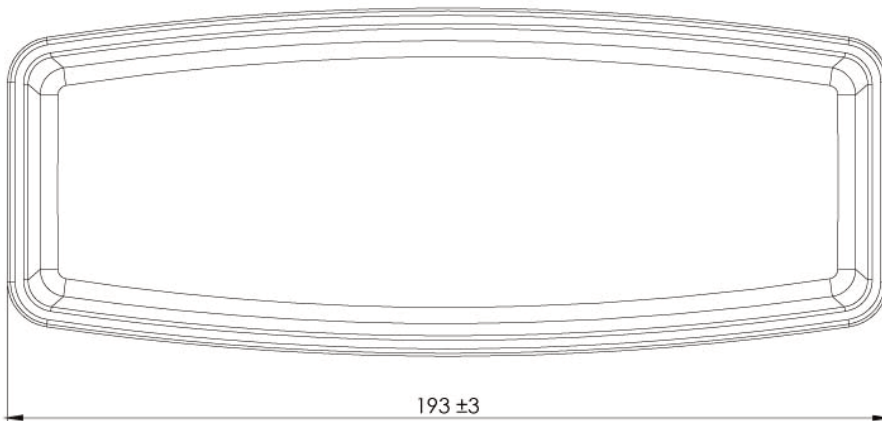
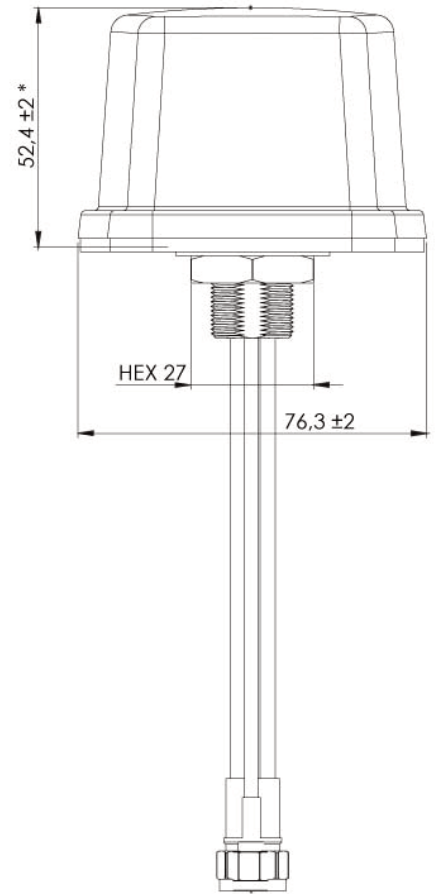
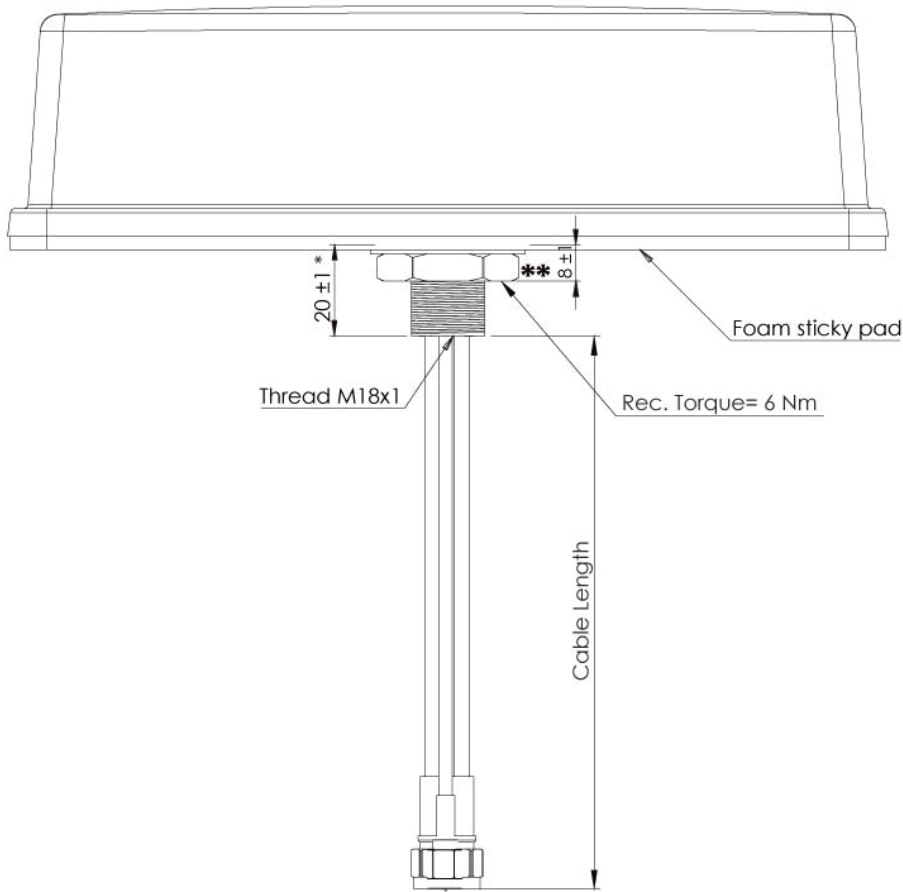


2450 and 5500 MHz Radiation pattern

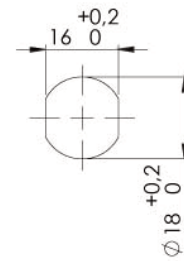


6500 MHz Radiation pattern

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Mounting hole



Max. mounting thickness 12mm
Note: Dimensions are in millimeters
***Dimensions are after mounting**
****Recommended Torque= 6 Nm**