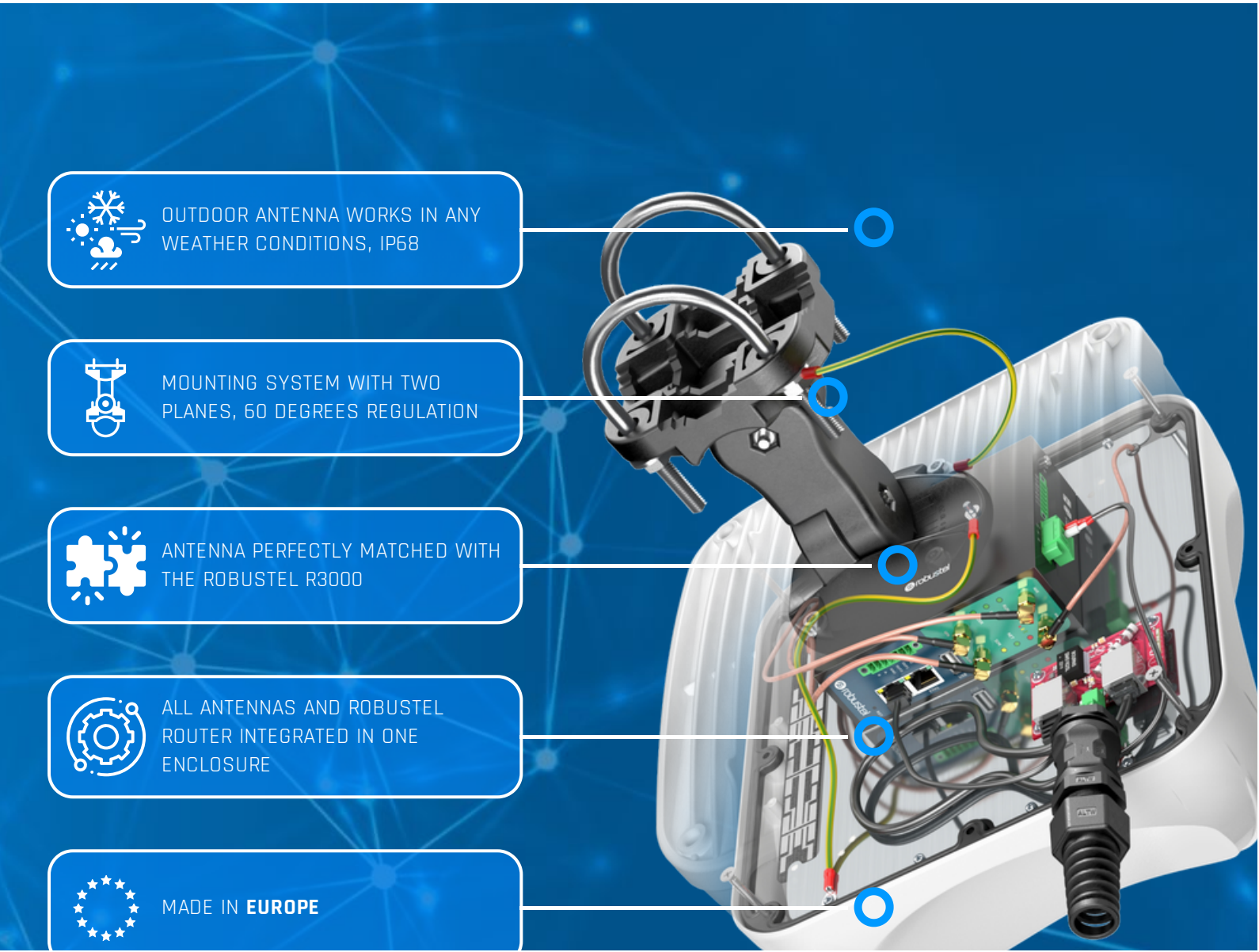
# QuMax for Robustel R3000

## INTEGRATED MULTI-BAND 5G DIRECTIONAL ANTENNA + WI-FI 6E OMNI ANTENNA + GPS ANTENNA + POE SPLITTER + PLACE TO INSTALL ROBUSTEL R3000 (ALL-IN-ONE)

QuMax antenna for Robustel R3000 router is a perfect outdoor device for improving the signal in rural/suburban and locations where the mobile signal is weak. It has embedded directional 5G, omni Wi-Fi 6E and GPS antenna. If you use R3000 with QuMax antenna, you get an integrated complete solution with embedded router and multi band antennas in one enclosure.
Wi-Fi 6E support!
The set contains a Passive PoE splitter, allowing you to split data and power from a single Ethernet cable and maintain gigabit transfer speeds while protecting the LAN port from damage caused by overvoltage, short circuit or improper connection.

5G | BAND 71 | 2x2 MIMO | 617-6500MHz | 8 dBi | Wi Fi 6E | DIRECTIONAL | IP 68 | -40° TO +80°



# 5G / LTE ANTENNA SPECIFICATION

| | |
|---|---|
| FREQUENCY | 0.617 - 1.0 GHz<br>1.0 - 3.08 GHz<br>3.3 - 5.0 GHz<br>5.0 - 6.5 GHz |
| MAX. GAIN | 0.617 - 1.0 GHz : 6 dBi<br>1.0 - 3.08 GHz : 8 dBi<br>3.3 - 5.0 GHz : 6.8 dBi<br>5.0 - 6.5 GHz : 5.5 dBi |
| SUPPORTED LTE BANDS | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 65, 66, 67, 68, 69, 70, 71, 74, 75, 76, 85, 103, 106, 111, 252, 253, 254, 255, 256 |
| SUPPORTED 5G BANDS | n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n24, n25, n26, n28, n29, n30, n34, n38, n39, n40, n41, n46, n47, n48, n50, n51, n53, n54, n65, n66, n67, n68, n70, n71, n74, n75, n76, n77, n78, n79, n80, n81, n82, n83, n84, n85, n86, n89, n90, n91, n92, n93, n94, n95, n97, n98, n99, n100, n101, n102, n106, n109, n110, n250, n251, n252, n253, n254, n255, n256 |
| VSWR | <2.00, max <3.00 |
| BEAMWIDTH | 80°/80° ±15° |
| POLARIZATION | X (+-45degrees) |
| IMPEDANCE | 50 Ω |


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# WI-FI ANTENNA SPECIFICATION

| | |
|---|---|
| FREQUENCY | 2.4 - 2.5 GHz<br>5.0 - 7.2 GHz |
| MAX. GAIN | 2.4 - 2.5 GHz: 6dBi<br>5 GHz: 7.5dBi<br>7 GHz: 7.5dBi |
| VSWR | < 1.50, max < 2.00 |
| BEAMWIDTH | 360°/25° |
| POLARIZATION | Vertical |
| IMPEDANCE | 50 Ω |

# MECHANICAL SPECIFICATION

| | |
|---|---|
| MATERIALS | ASA, aluminum, PTFE, fiberglass |
| CONNECTOR TYPE | RJ45 |
| INGRESS PROTECTION | IP68 |
| DIMENSIONS | 26.9 x 26.95 x 17.7 cm<br>10.6 x 10.6 x 7 inch |
| WEIGHT | 2.8 kg<br>6.17 lbs |
| OPERATING TEMPERATURE | From -40°C to 80°C<br>From -40°F to 176°F |
| ENCLOSURE RECOMMENDED TIGHTENING TORQUE | 0.6 - 0.8 Nm |


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| | |
|---|---|
| **MAST DIAMETER** | 25-66mm<br>0.98-2.60 inch |

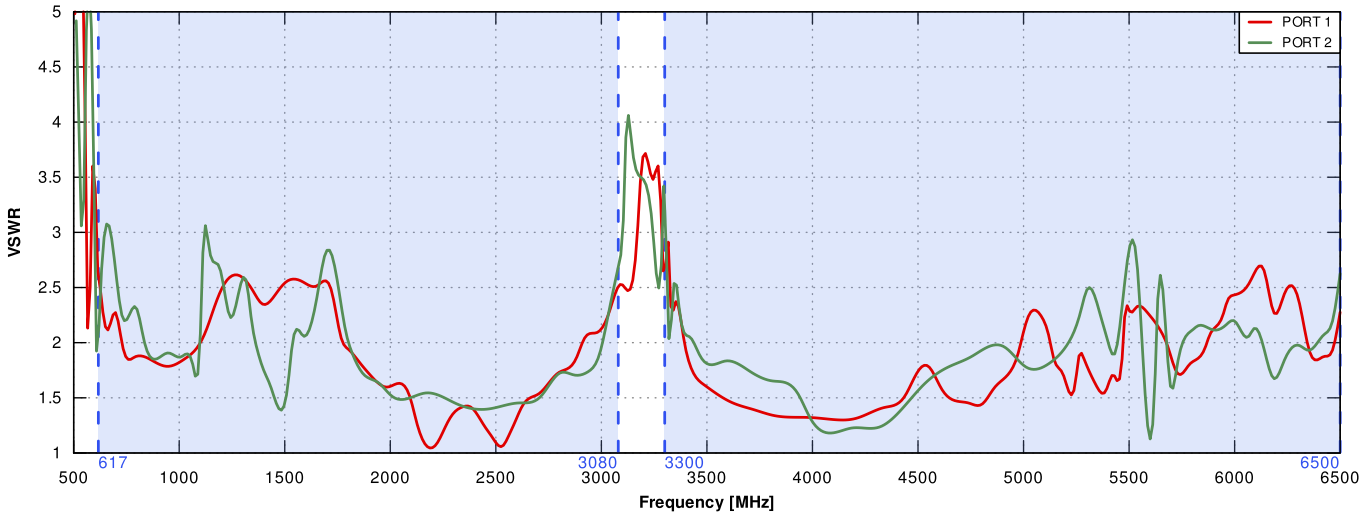
# FREQUENCY BANDS

| | |
|---|---|
| **LTE / 4G** | 617 MHz<br>1 2 3 4 5 7 8<br>9 10 12 13 14 17 18<br>19 20 22 25 26 27 28<br>29 30 33 34 35 36 37<br>38 39 40 41 42 43 44<br>46 47 48 49 52 53 65<br>66 67 68 69 71 85 103<br>106<br>6000 MHz |
| **5G** | 617 MHz<br>n1 n2 n3 n5 n7 n8 n12<br>n13 n14 n18 n20 n25 n26 n28<br>n29 n30 n34 n38 n39 n40 n41<br>n46 n47 n48 n53 n65 n66 n67<br>n71 n77 n78 n79 n80 n81 n82<br>n83 n84 n85 n86 n89 n90 n95<br>n97 n98 n100 n101 n256<br>6000 MHz |

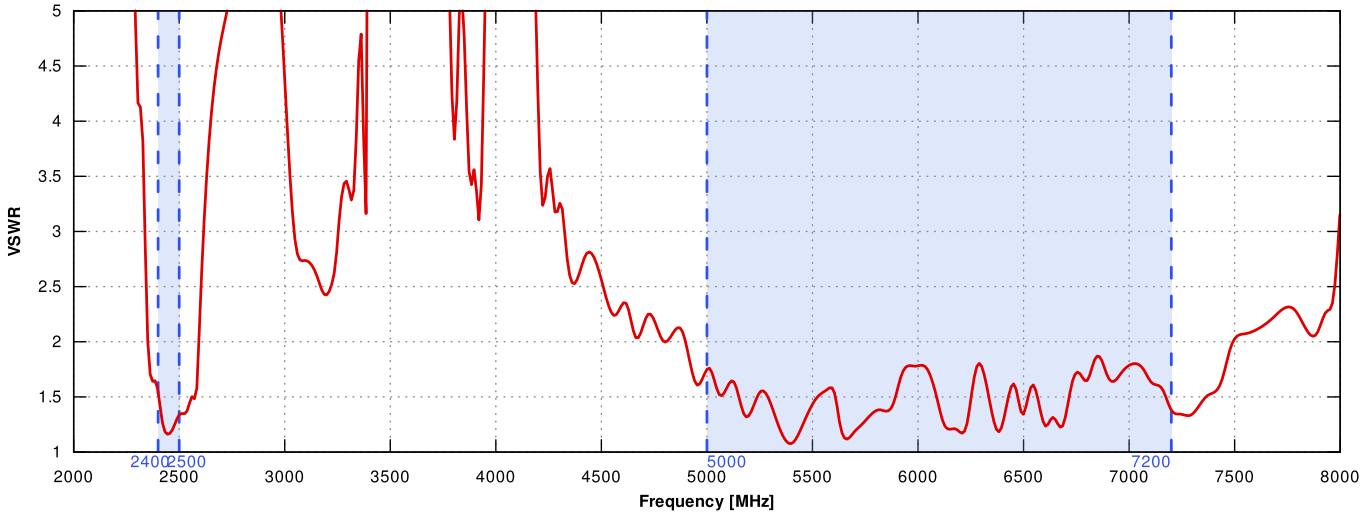

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# PLOTS

## 5G/LTE VSWR



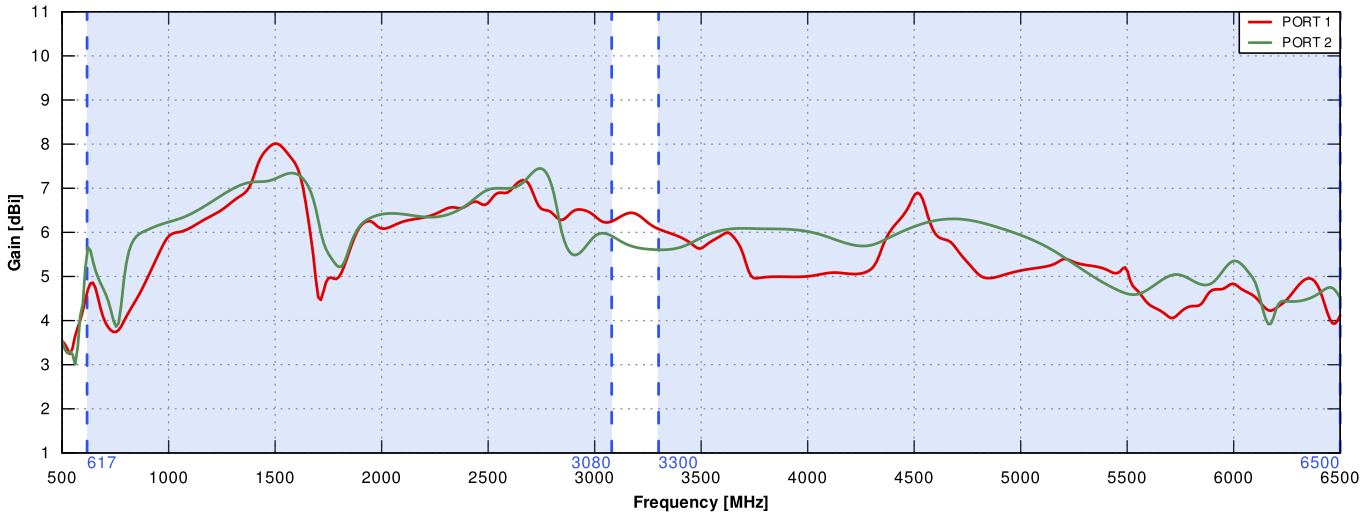

## WI-FI VSWR



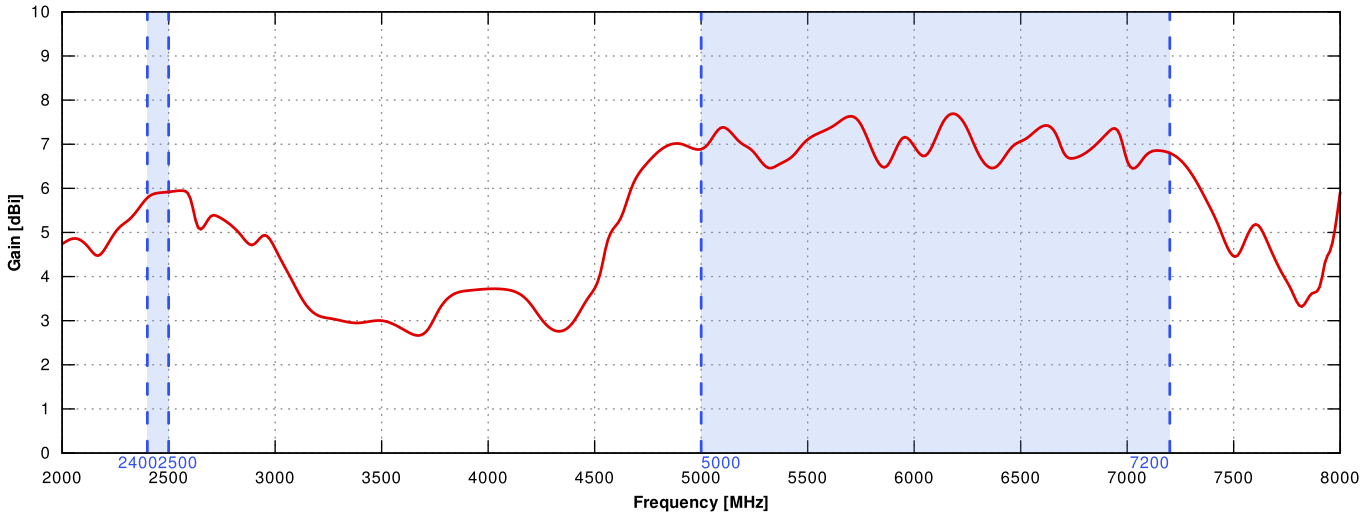



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## 5G/LTE Gain




## WI-FI Gain

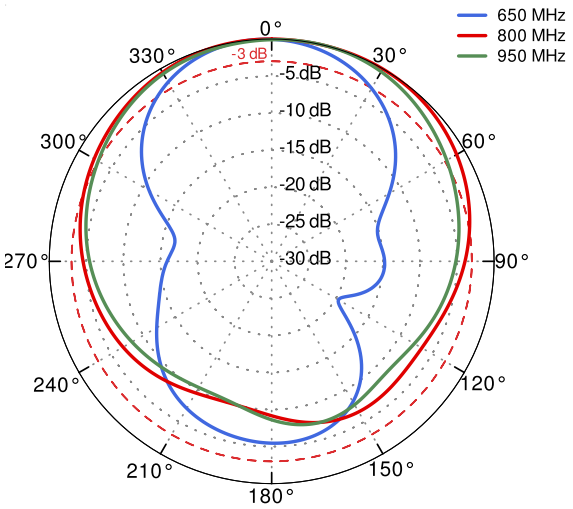




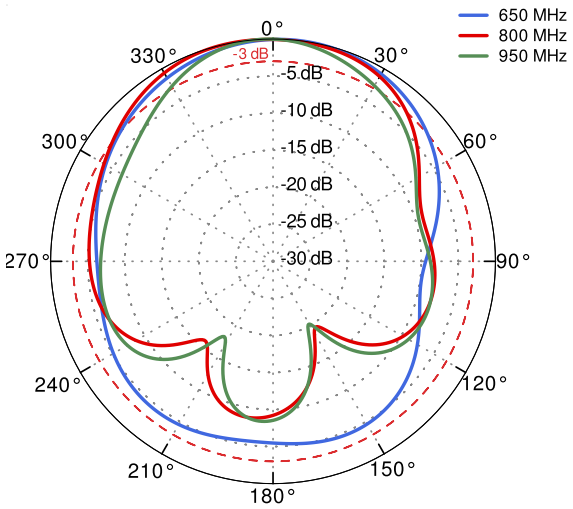

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## PORT 1 - 5G/LTE From 650MHz to 950MHz

ELEVATION

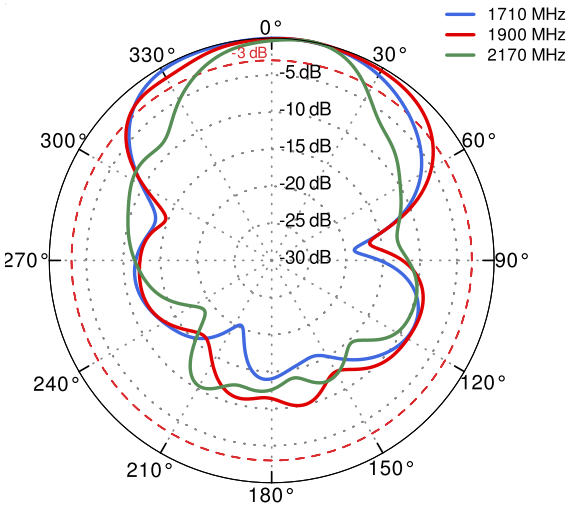



AZIMUTH

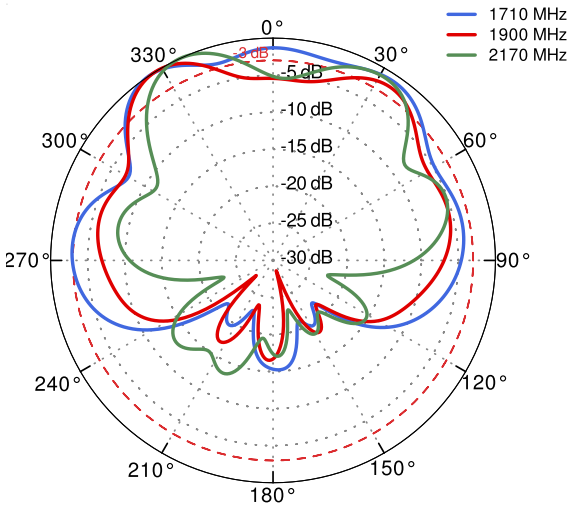



## PORT 1 - 5G/LTE From 1710MHz to 2170MHz

ELEVATION




AZIMUTH

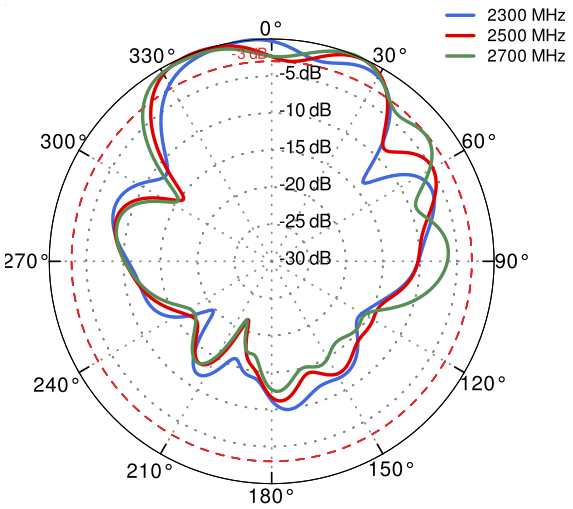




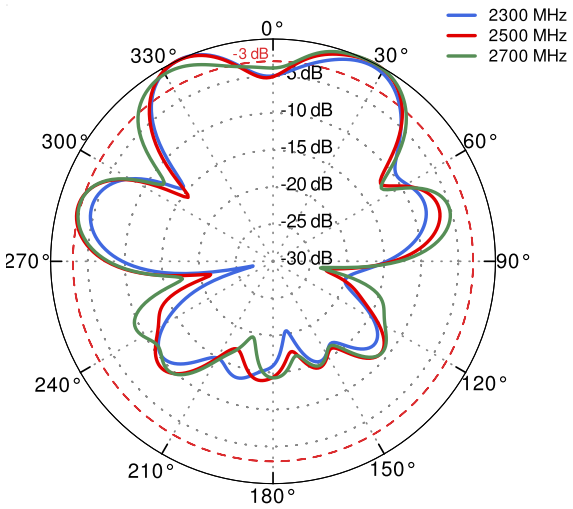
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## PORT 1 - 5G/LTE From 2300MHz to 2700MHz

ELEVATION

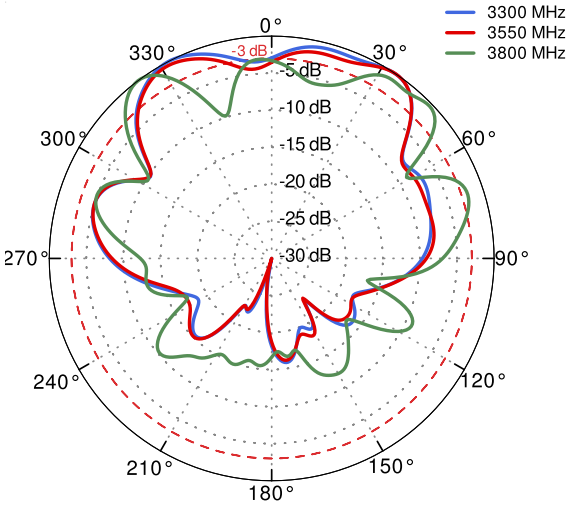



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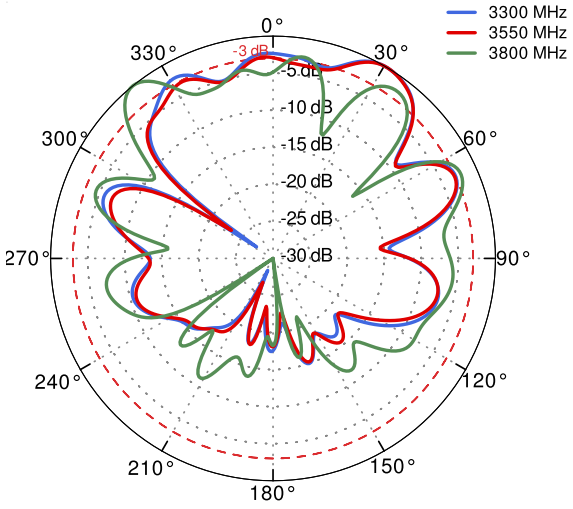



## PORT 1 - 5G/LTE From 3300MHz to 3800MHz

ELEVATION




AZIMUTH

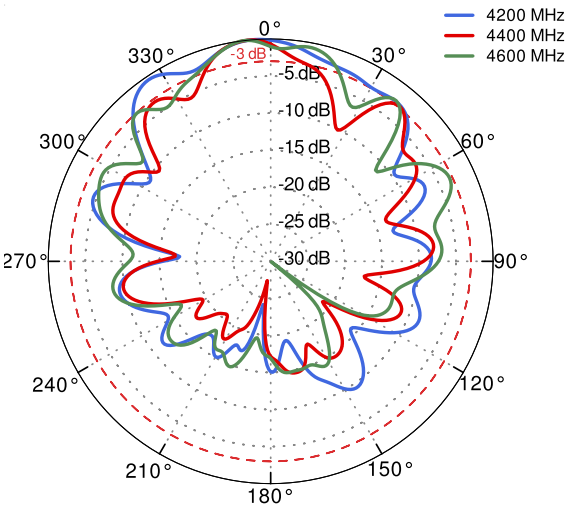




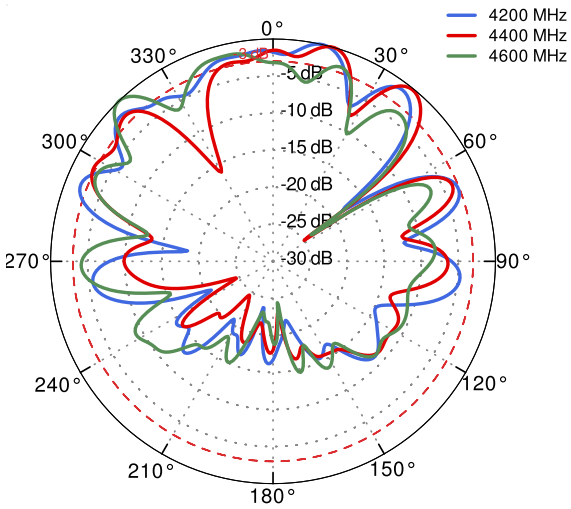
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## PORT 1 - 5G/LTE From 4200MHz to 4600MHz

ELEVATION

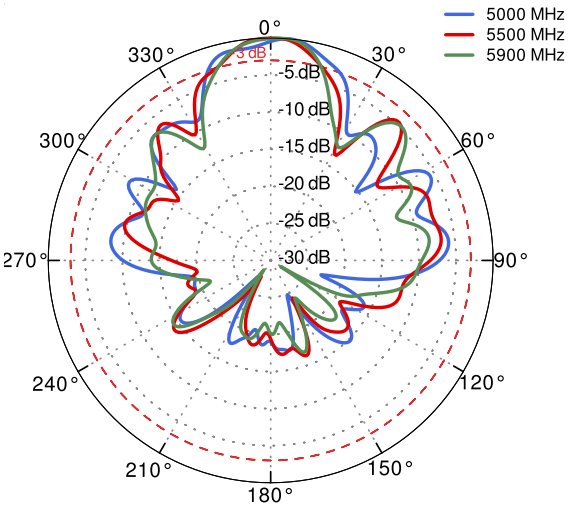



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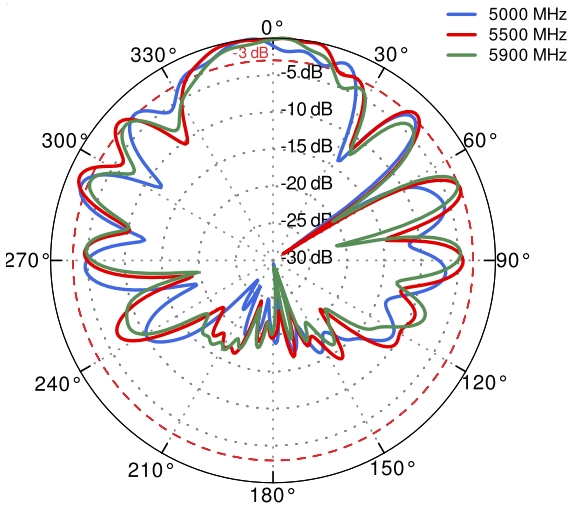



## PORT 1 - 5G/LTE From 5000MHz to 5900MHz

ELEVATION




AZIMUTH

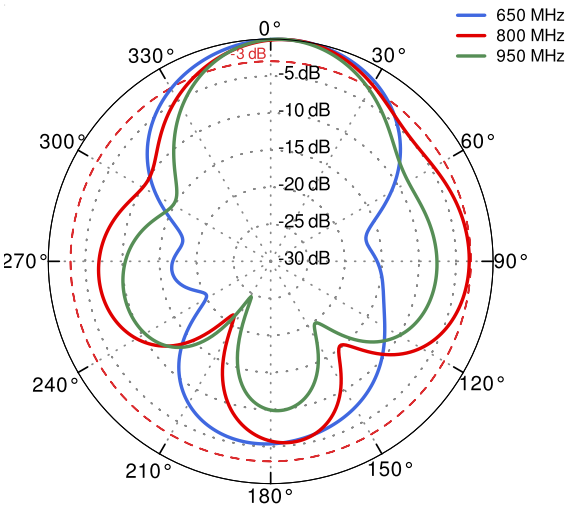




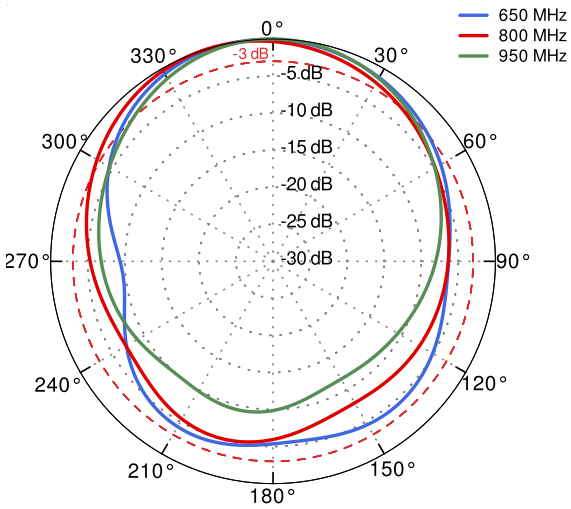
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## PORT 2 - 5G/LTE From 650MHz to 950MHz

ELEVATION

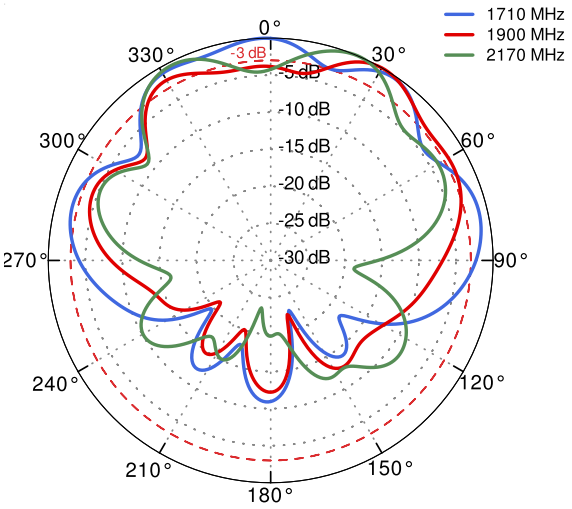



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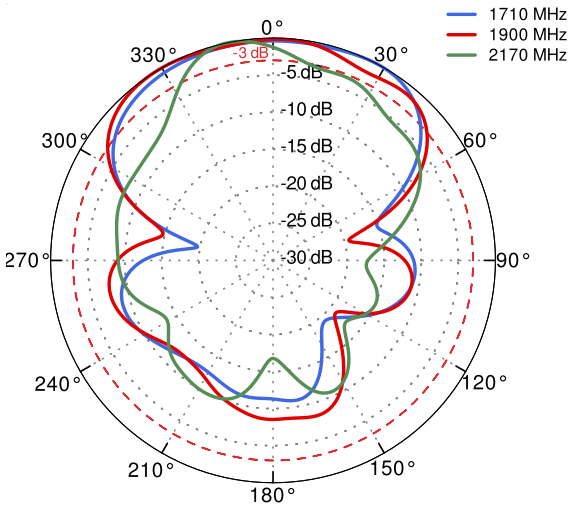



## PORT 2 - 5G/LTE From 1710MHz to 2170MHz

ELEVATION




AZIMUTH

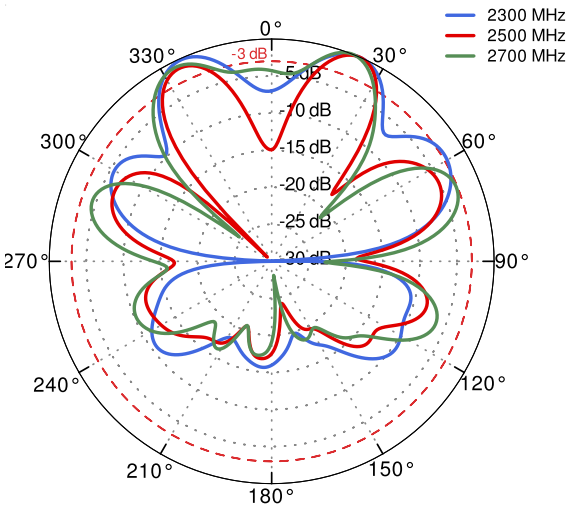




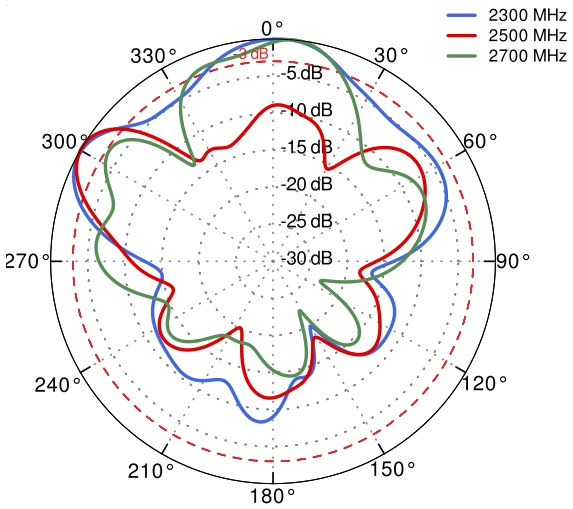
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## PORT 2 - 5G/LTE From 2300MHz to 2700MHz

ELEVATION

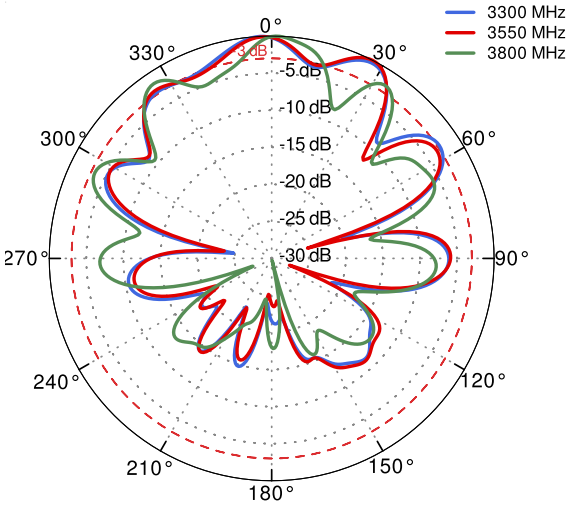



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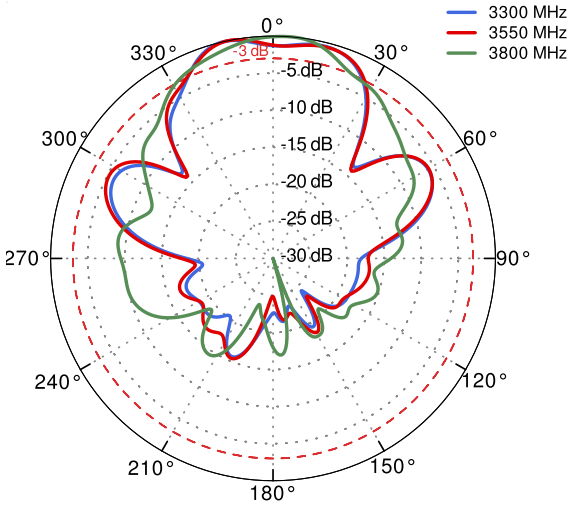



## PORT 2 - 5G/LTE From 3300MHz to 3800MHz

ELEVATION




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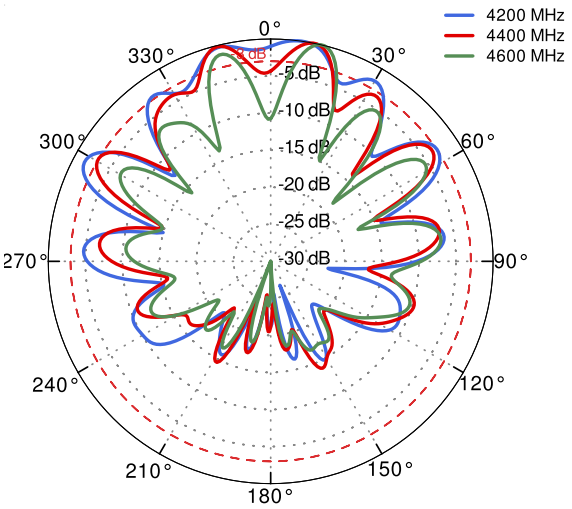




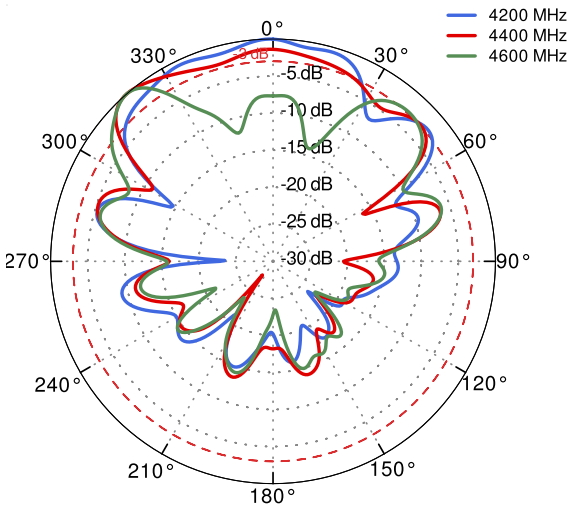
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## PORT 2 - 5G/LTE From 4200MHz to 4600MHz

ELEVATION

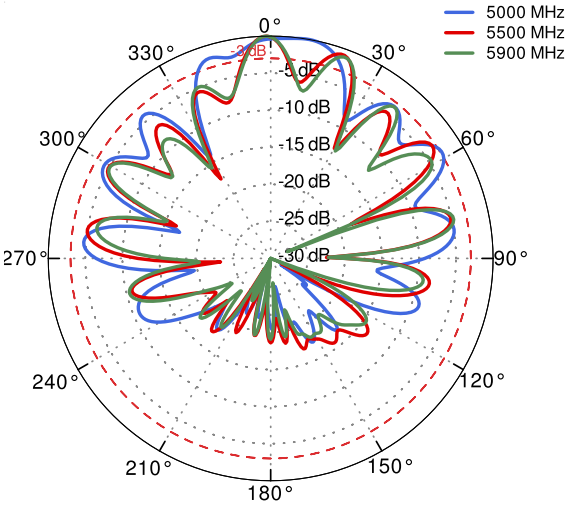



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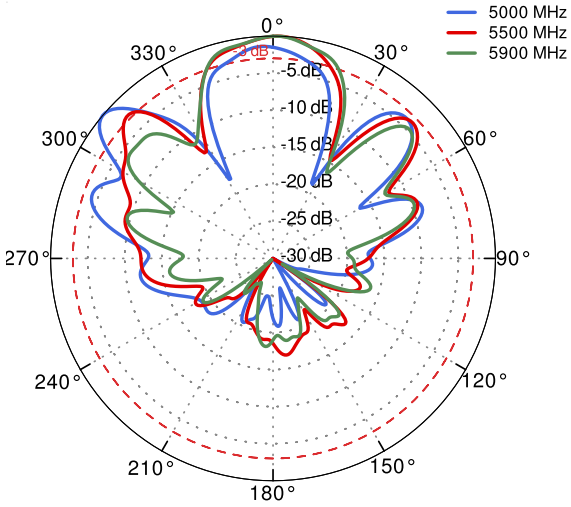



## PORT 2 - 5G/LTE From 5000MHz to 5900MHz

ELEVATION




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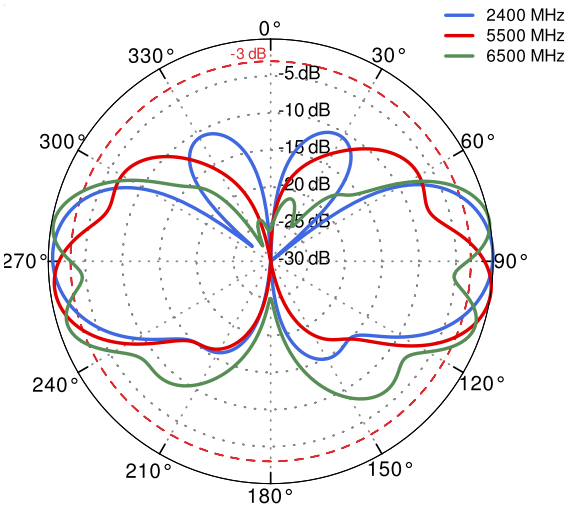




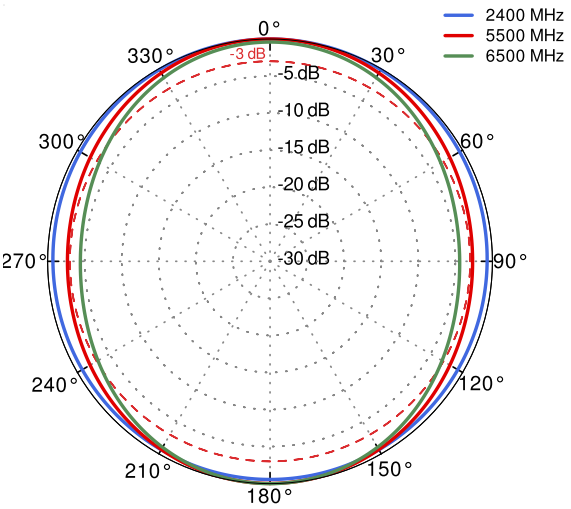
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## Wi-Fi From 2400MHz to 6500MHz

ELEVATION




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# DIMENSIONS




QuWireless
WWW.QUWIRELESS.COM

**Sales email:** sales@quwireless.com **Tel:** +48 513 900 416

**Support email:** support@quwireless.com **Website:** www.quwireless.com

**Address:** Wireless Instruments Sp. z o.o., ul. Kościuszki 27, 52-116 Iwiny, Poland

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