# QuShell 22G

**QuShell 5G/LTE 2x2MIMO, 2x2 MIMO WiFi 6e is a high performance mobility antenna providing performance connectivity across diverse frequencies and applications for 5G/4G/LTE.**

QuShell 5G/LTE 2x2MIMO, 2x2 MIMO WiFi 6e is a high performance mobility antenna providing performance connectivity across diverse frequencies and applications for **5G/4G/LTE**. It offers optional GPS/GNSS and up to 2x2 MIMO/Diversity configurations at 2.4/5.0/7.2GHz for Wi-Fi. The optional high-performance GPS/GNSS antenna features an integrated 18dB gain LNA.
It comes with **2x 5G/LTE, 1x GPS/GNSS** and **2x Wi-Fi** antennas.
It covers a wide range from **580 to 6350 MHz** for 5G/LTE bands and additionally dual-band Wi-Fi 6e antennas provide concurrent **2.4 GHz and 5 to 7.2 GHz**.
The QuShell 5G/LTE finds its place in public **sector industry** (busses, firetrucks, ambulances), marine environments, tourism and various IoT systems.
The set consists of marine, surface and **pole/wall mounting brackets** allowing to install QuShell on a roof, mast, pole, wall or other flat surfaces.
Standard cable length is 50cm. For other variants please contact your local reseller or account manager.
**Optional roof mounting is not included** in standard set. Please notify us whether you would like to order the roof mounting version.






# WI-FI SPECIFICATION

| | |
|---|---|
| FREQUENCY | 2.4 - 2.5 GHz<br>5 - 7.2 GHz |
| MAX. GAIN | 2.4 - 2.5 GHz: 2dBi<br>5 - 7.2 GHz: 5dBi |
| VSWR | < 2.50 |
| BEAMWIDTH | 360°/25° |
| POLARIZATION | Vertical |
| IMPEDANCE | 50 Ω |
| MAX INPUT POWER | 50W |
| DC GROUND | Yes |

# 5G/LTE SPECIFICATION

| | |
|---|---|
| FREQUENCY | 0.58 - 2.0 GHz<br>2.0 - 3.5 GHz<br>3.5 - 5.0 GHz<br>5.0 - 6.35 GHz |
| MAX. GAIN | 0.58 - 2.0 GHz : 2 dBi<br>2.0 - 3.5 GHz : 3.2 dBi<br>3.5 - 5.0 GHz : 3.1 dBi<br>5.0 - 6.35 GHz : 3.8 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, 107, 111, 252, 253, 254, 255, 256 |


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| | |
|---|---|
| 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, n105, n106, n109, n110, n250, n251, n252, n253, n254, n255, n256 |
| VSWR | <2.50, max <3.00 |
| BEAMWIDTH | 360°/35° ±5° |
| POLARIZATION | Vertical |
| IMPEDANCE | 50 Ω |

## MECHANICAL SPECIFICATION

| | |
|---|---|
| MATERIAL | ASA |
| CONNECTOR | 2xRPSMA & 3xSMA |
| OUTER DIMENSIONS | 160 x 160 x 90 mm<br>6.3 x 6.3 x 3.54 inch |
| WEIGHT | 1.5 kg |
| OPERATING TEMPERATURE | -40°C to 80°C<br>-40°F to 176°F |
| CABLE TYPE | RG174 |


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# MOUNTING KIT

| | |
|---|---|
| MATERIAL | Galvanized steel |
| WEIGHT | 0.4kg |
| MOUNTING PLACE | Wall or mast |
| MAST DIAMETER | 25-66 mm<br>0.98-2.60 inch |

# COMPATIBLE ROUTERS

## VARIANT: ASL22G

| | |
|---|---|
| TELTONIKA | RUT204, RUT271, RUT276, RUT976, RUTC41 |
| ROBUSTEL | EG5200, R1511, R201x, R2120 5G RedCap |
| ANYBUS | WLAN Access Point IP30 |
| COMSET | CM210A-W, CM210Q-W, CM510Q-W, CM550W, CM580W, CM685V-1, CM685V-4, CM685V-6, CM685V-6-G, CM685VX, CM820Q-4, CM820Q-6, CM950W |
| DIGI | TX64 |
| ERICSSON (CRADLEPOINT) | E300, R500 |
| FOUR-FAITH | 5G Industrial Router F-NR100, 5G SIM WiFi Router F-NR120, 5G Smart Light Pole Gateway F-G300, Edge Computing Gateway F-G100 |
| INHAND | IR315 |
| PEPLINK | Balance 310 5G |

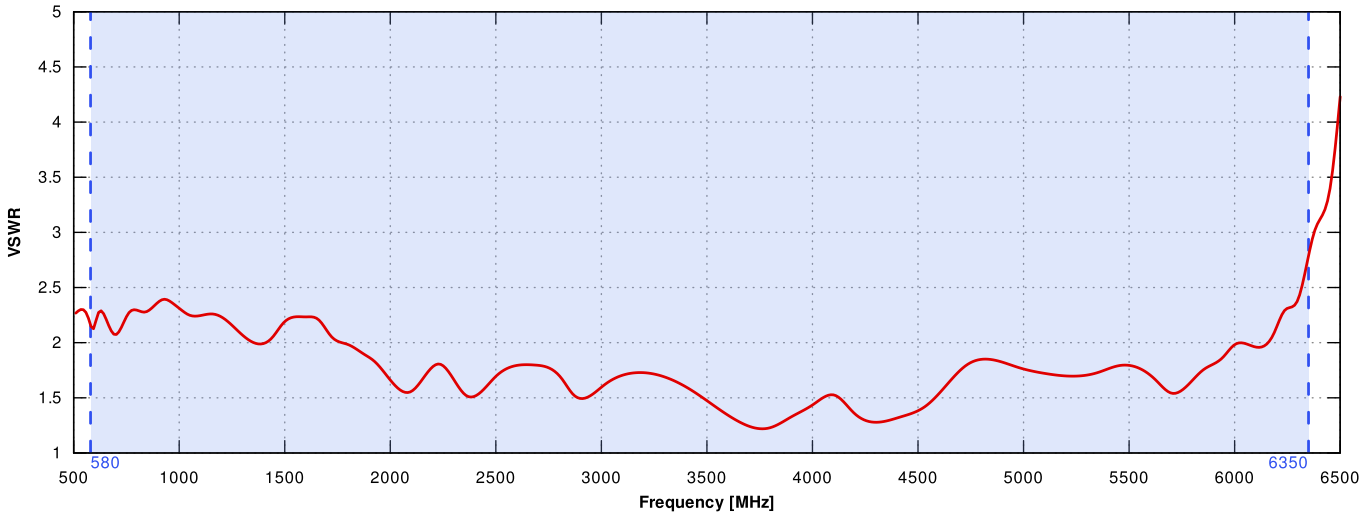

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| | |
|---|---|
| **PERLE** | IRG5410, IRG5520, IRG5521, IRG5540, IRG5541 |
| **PROROUTE** | H685 LTE 4G CAT6 Router, H685 WRT M2M 5G Router, H900 5G Router |
| **QUECLINK** | WR220 |
| **ROBUSTEL** | EG5200, R1511, R201x, R2120 5G RedCap |
| **SEMTECH (SIERRA WIRELESS)** | AirLink EX400, AirLink RX400 |
| **SIEMENS** | 6GK5763-1AL00-7DA0, 6GK5763-1AL00-3AA0, 6GK5763-1AL00-3DA0, 6GK5763-1AL00-7DB0, Scalance W734 RJ45, Scalance W774 M12 EEC, Scalance W774 RJ45, SCALANCE W786 |
| **TELTONIKA** | RUT204, RUT271, RUT276, RUT976, RUTC41 |
| **WAVETEL** | W4600, W4600-NR 5G, W4600-S2 |
| **WLINK** | G510, G520, R220, R520 |
| **ZYXEL** | LTE3301-PLUS, NR5101 |
| **OTHER** | 2 * SMA |

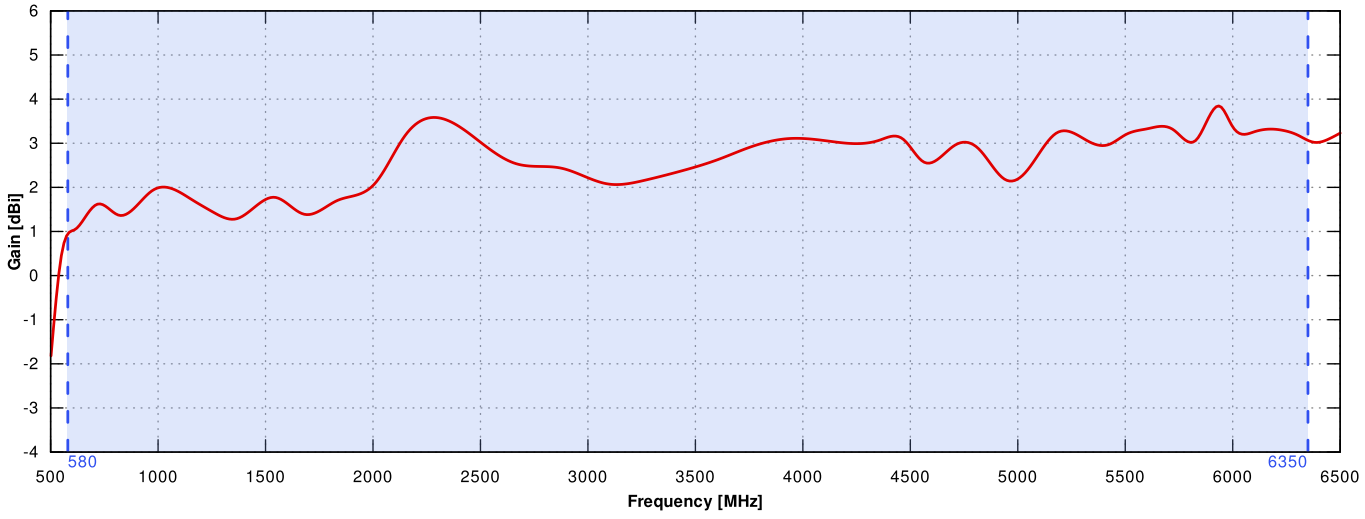

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# PLOTS

## 5G/LTE VSWR



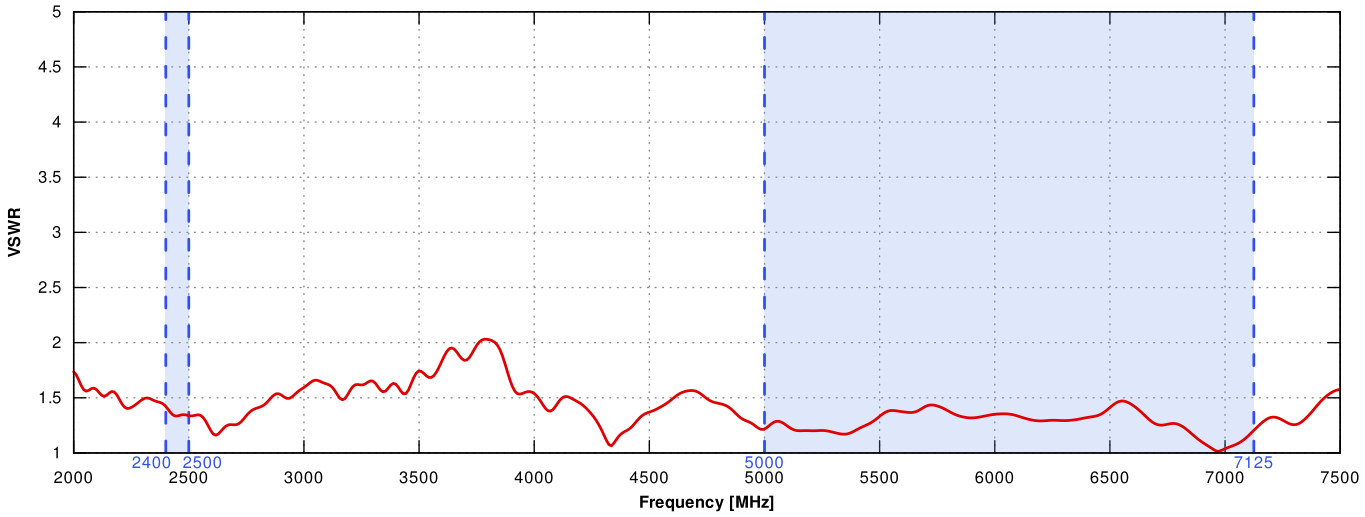

## 5G/LTE GAIN



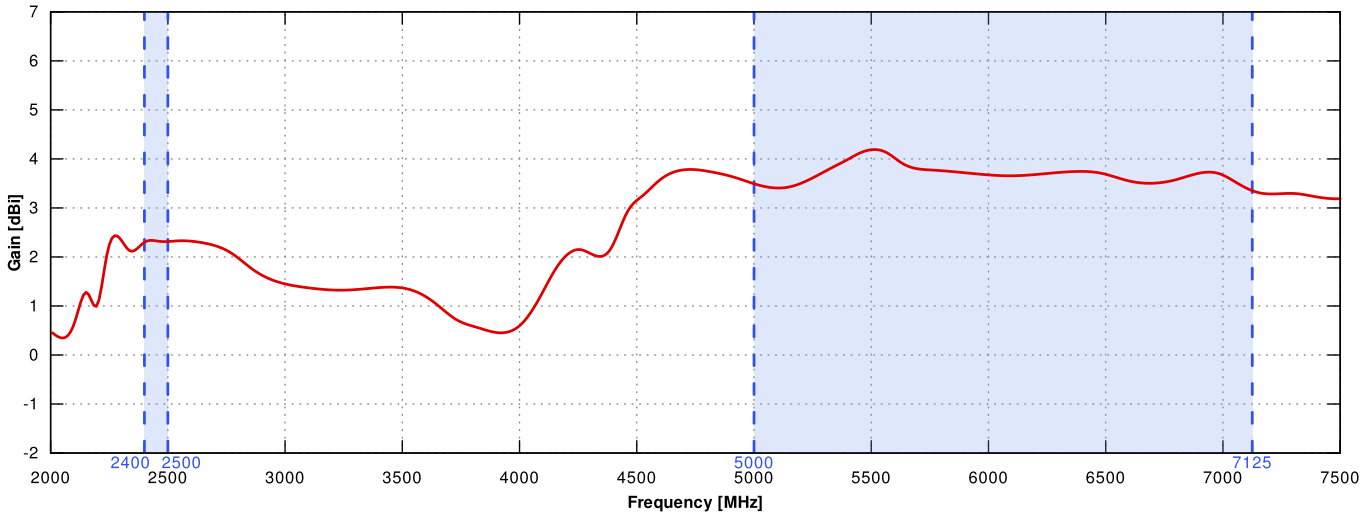


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## WiFi - V VSWR




## WiFi - V GAIN

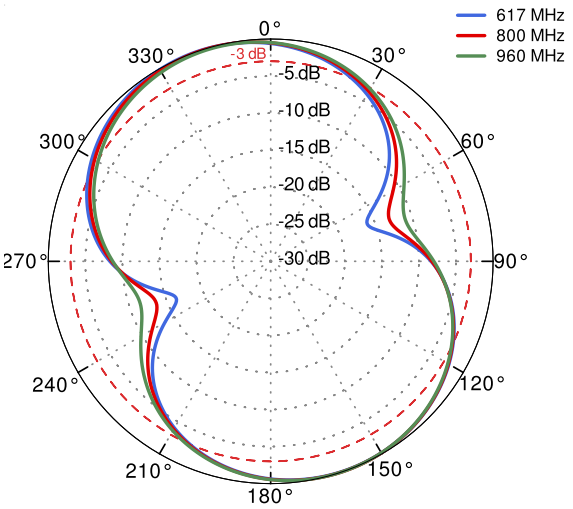




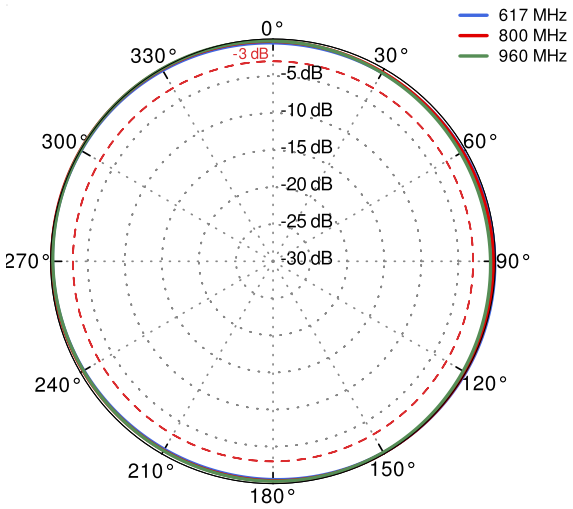

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## 5G/LTE from 617MHz to 960MHz

ELEVATION

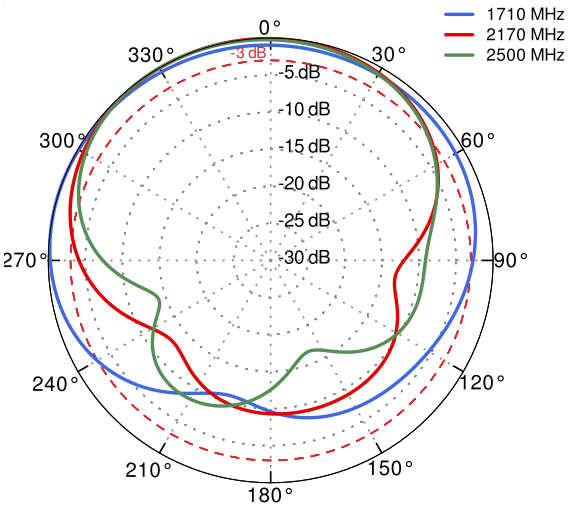



AZIMUTH

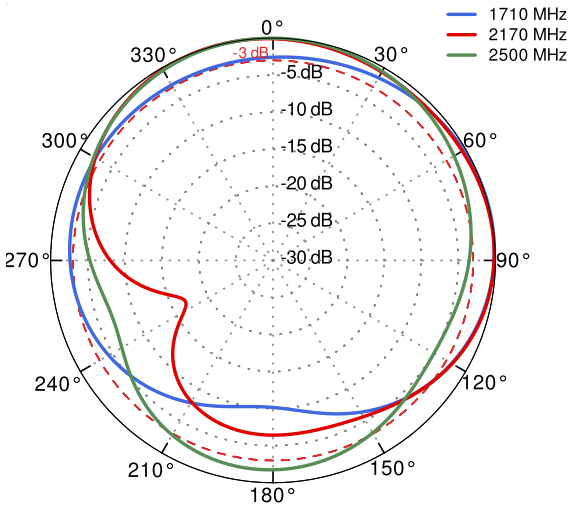



## 5G/LTE from 1.71GHz to 2.7GHz

ELEVATION




AZIMUTH

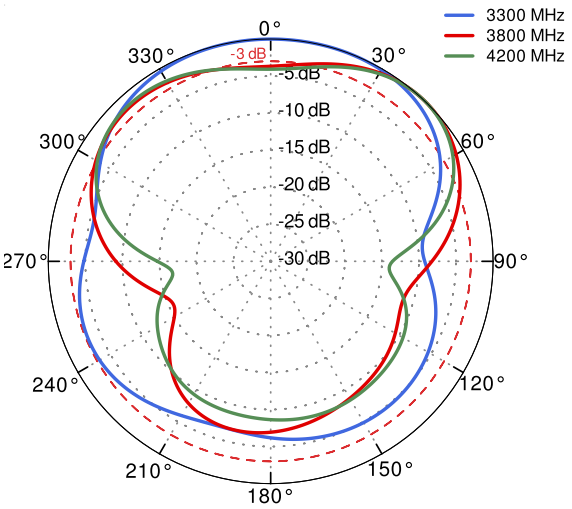




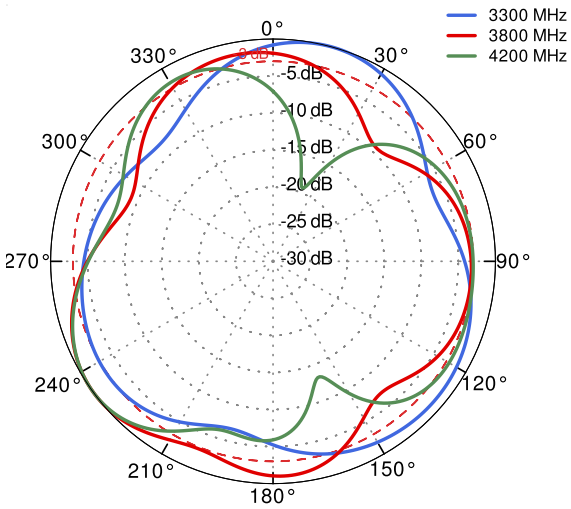
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## 5G/LTE from 3.3GHz to 4.2GHz

ELEVATION

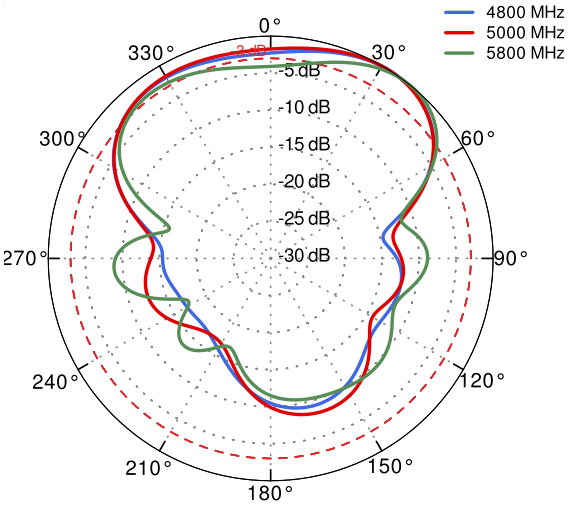



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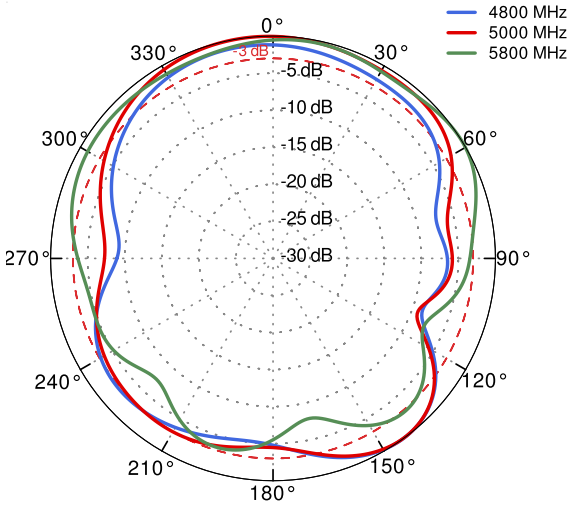



## 5G/LTE from 4.8GHz to 5.8GHz

ELEVATION




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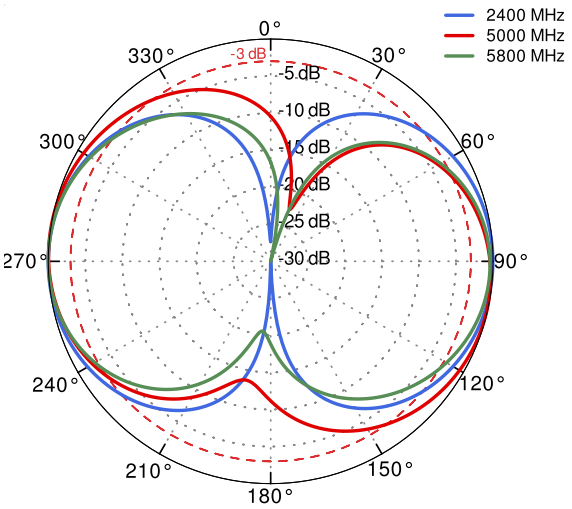




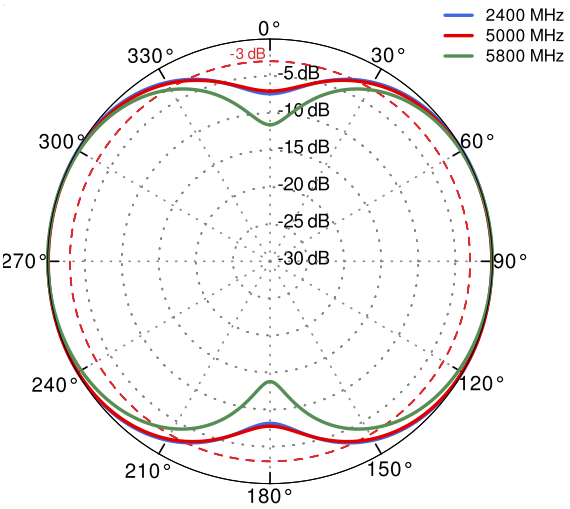
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## Wi-Fi V From 2.4 GHz to 6.5 GHz

ELEVATION




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