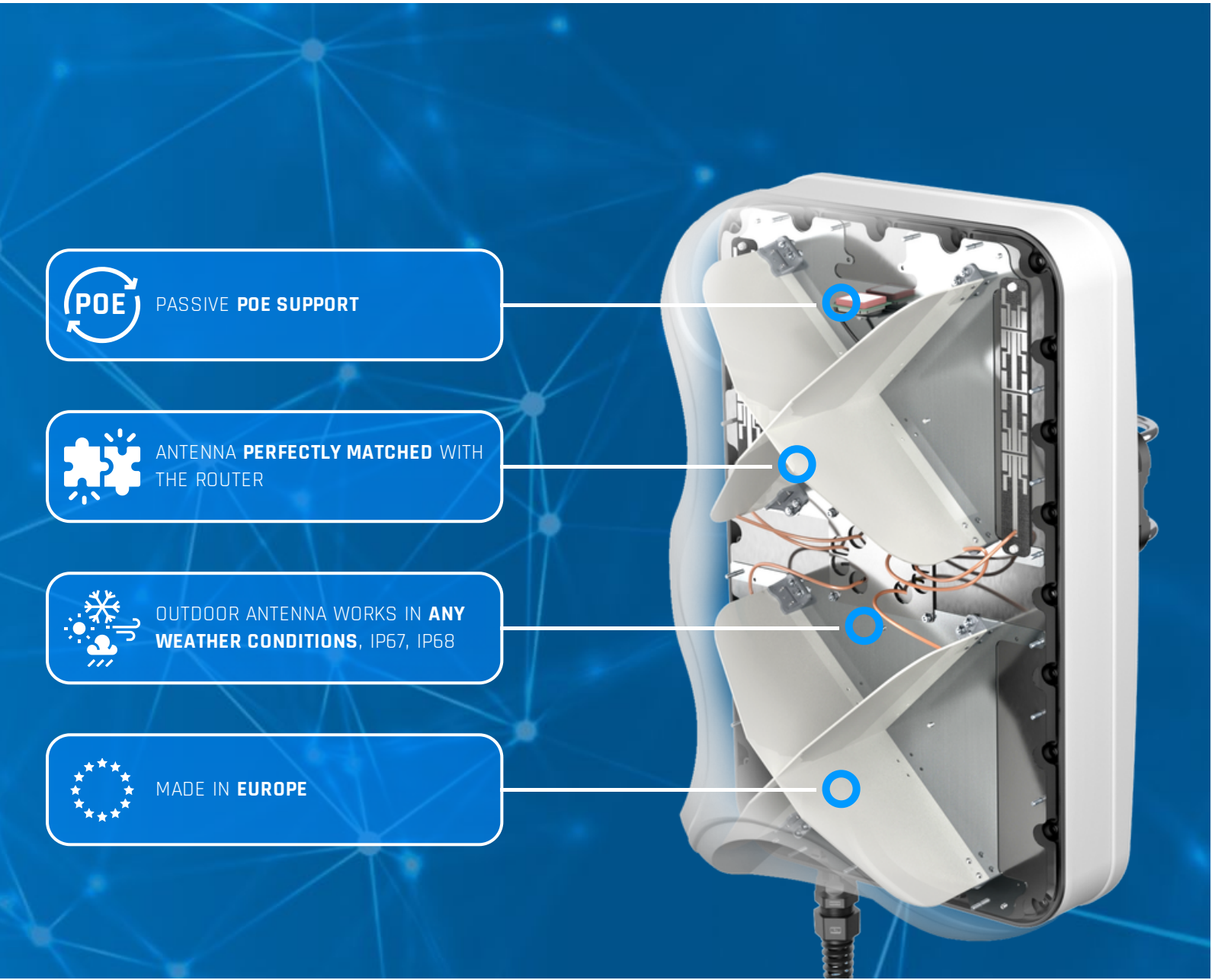
QuMax for Teltonika RUTX50/RUTM51

INTEGRATED MULTI-BAND LTE & 5G PANEL ANTENNA + WI-FI OMNI ANTENNA + GPS + PLACE TO INSTALL TELTONIKA RUTX50/RUTM51 (ALL-IN-ONE)

QuMax for RUTX50/RUTM51 is a high performance directional antenna designed for use in a variety of wireless communication applications. This all-in-one product consists of multi-band 5G, Wi-Fi and GPS antennas integrated in IP68 (IP67) enclosure. It offers 7.5 dBi gain and wide beamwidth, which makes it suitable for use in both urban and rural environments.
Combining QuMax with RUTX50 or RUTM51 inside the antenna housing gives you complete outdoor solution with mulitple use scenarios such as transportation public, energy, mining IoT and more.

5G | BAND 71 | Wi Fi DUALBAND | GPS | 617-6000MHz | 7 dBi | DIRECTIONAL | IP 67 | -40° TO +80°



5G / LTE ANTENNA SPECIFICATION

FREQUENCY	0.617 - 0.96 GHz 1.7 - 2.7 GHz 3.3 - 4.6 GHz 4.7 - 6.0 GHz
GAIN	0.617 - 0.96 GHz: 6 dBi 1.7 - 2.7 GHz: 7 dBi 3.3 - 4.6 GHz: 7 dBi 4.7 - 6.0 GHz: 5.5 dBi
SUPPORTED LTE BANDS	1, 2, 3, 4, 5, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 22, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 49, 52, 53, 65, 66, 67, 68, 69, 71, 85, 103, 106
SUPPORTED 5G BANDS	n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n34, n38, n39, n40, n41, n46, n47, n48, n53, n65, n66, n67, n71, n77, n78, n80, n81, n82, n83, n84, n85, n86, n89, n90, n95, n97, n98, n100, n101, n256
VSWR	<2.00, max <3.00
BEAMWIDTH	80°/80° ±15°
POLARIZATION	X (+-45degrees)
IMPEDANCE	50 Ω
CONNECTOR	4x SMA
CABLE TYPE	RG316

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WI-FI ANTENNA SPECIFICATION

FREQUENCY	2.40 - 2.50 GHz 5.0 - 7.125 GHz
GAIN	2.40 - 2.50 GHz : 6 dBi 5.0 - 7.125 GHz : 7.5 dBi
VSWR	<1.70, max <2.00
BEAMWIDTH	360°/25° ±5°
POLARIZATION	Vertical
IMPEDANCE	50 Ω
CONNECTOR	2x RPSMA
CABLE TYPE	RG316

GPS ACTIVE ANTENNA SPECIFICATION

FREQUENCY	1.56 – 1.61 GHz
VSWR	< 2
GAIN	3 dBi
GAIN 3V	28 dBi
DC POWER INPUT	2.5 V ~ 6.5 V
POWER CONSUMPTION	2.5-6.5mA
IMPEDANCE	50 Ω
POLARIZATION	RHCP (right hand circularly polarized)

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CONNECTOR	1x SMA
CABLE TYPE	RG174

MECHANICAL SPECIFICATION

MATERIALS	ABS, aluminum, PTFE, Fiberglass
CONNECTOR TYPE	RJ45
INGRESS PROTECTION	IP67 IP68
DIMENSIONS	486.0 x 292.2 x 210.0 mm 19.13 x 11.50 x 8.27 inch
WEIGHT	2.8 kg 6.17 lbs
OPERATING TEMPERATURE	From -40°C to 80°C From -40°F to 176°F

MOUNTING KIT

DIMENSIONS	9.9 x 10.5 x 14.8 cm 3.9 x 4.13 x 5.83 inch
REGULATION RANGE	+/- 30°
MAST DIAMETER RANGE	25 - 60mm 0.98-2.36 inch
MATERIAL	Polyamide with fiberglass + galvanized steel U-Bolts
MOUNTING PLACE	Wall or ceiling or mast

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FREQUENCY BANDS

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

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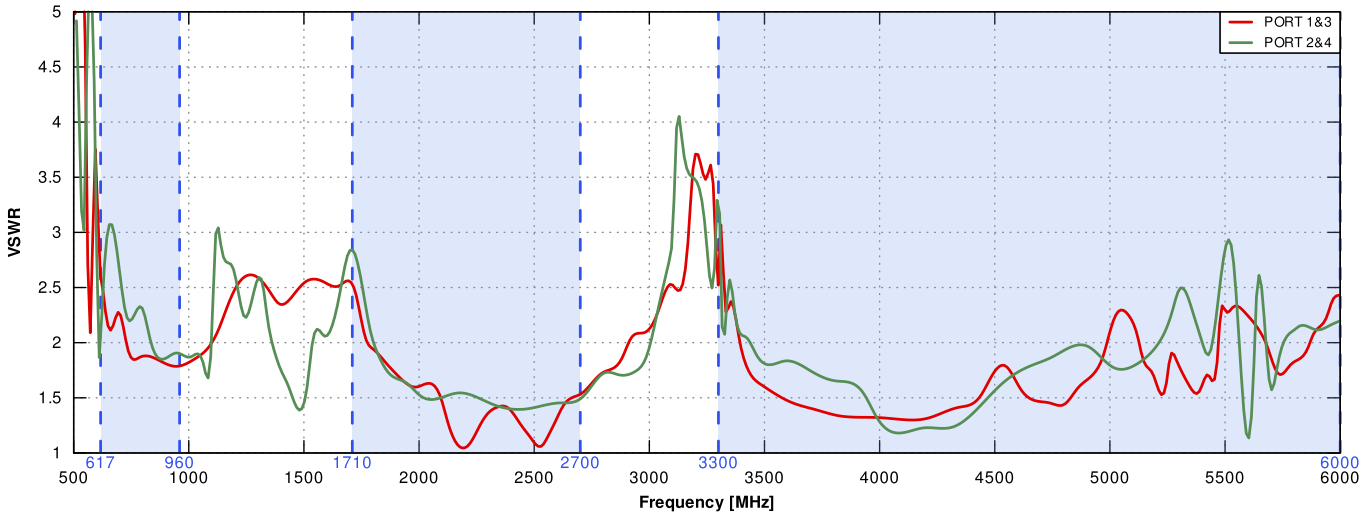
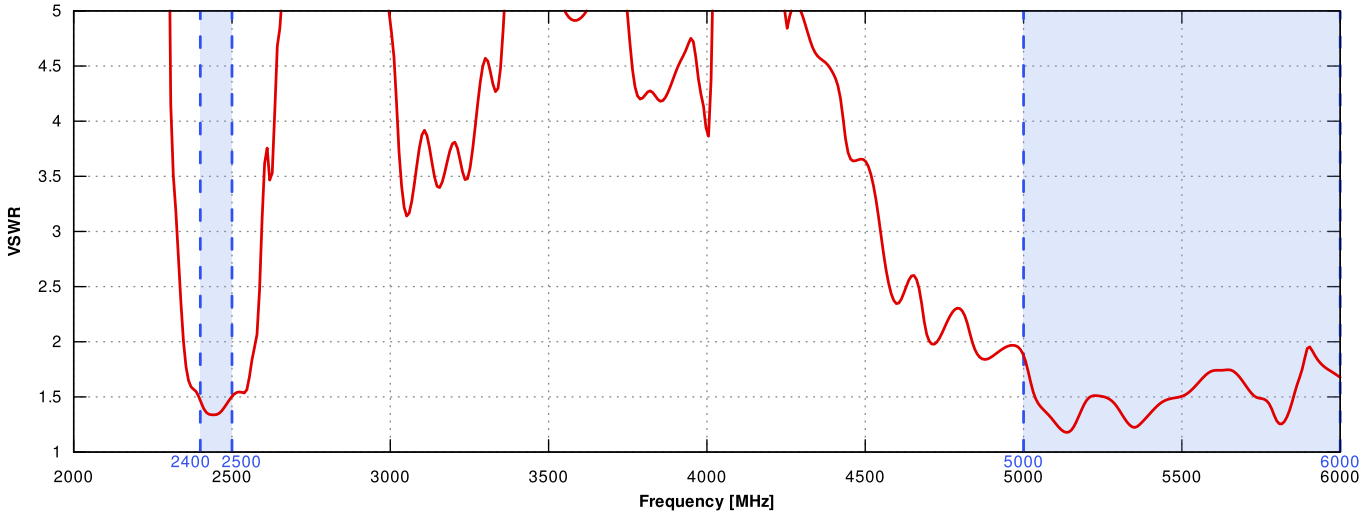
PLOTS

VSWR for 5G/LTE antenna



VSWR for Wi-Fi antenna



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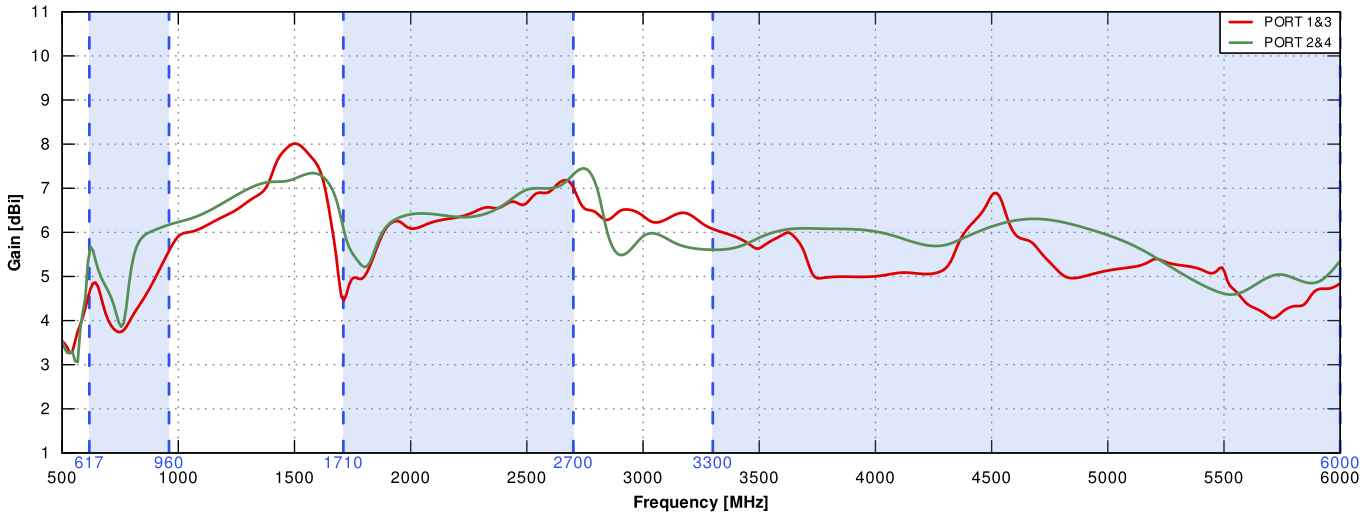
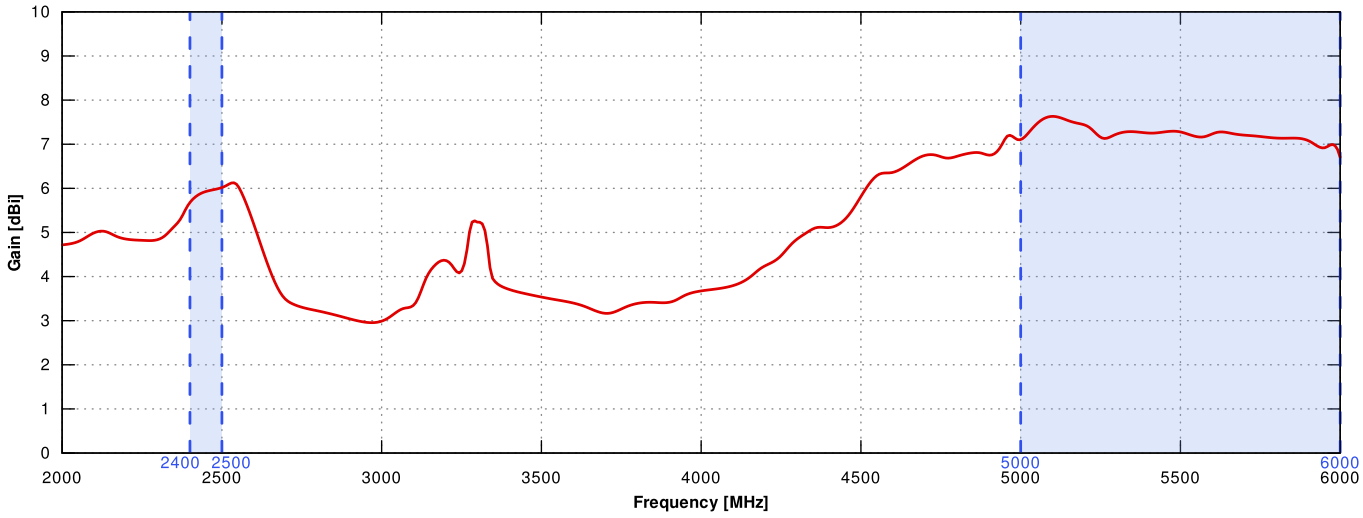
Gain for 5G/LTE antenna



Gain for Wi-Fi antenna



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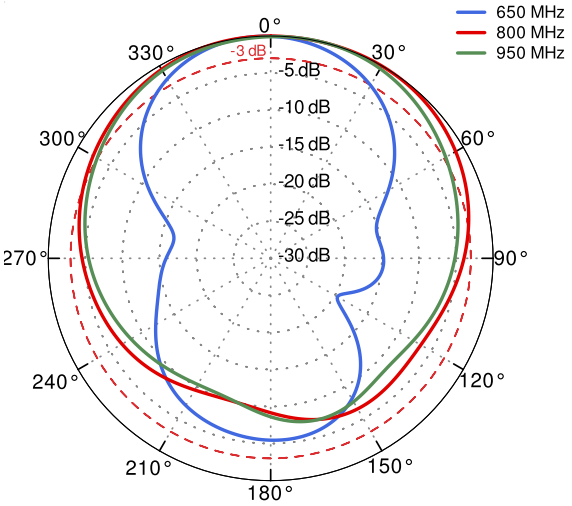
PORT 1&3 - 5G/LTE from 650MHz to 950MHz

ELEVATION



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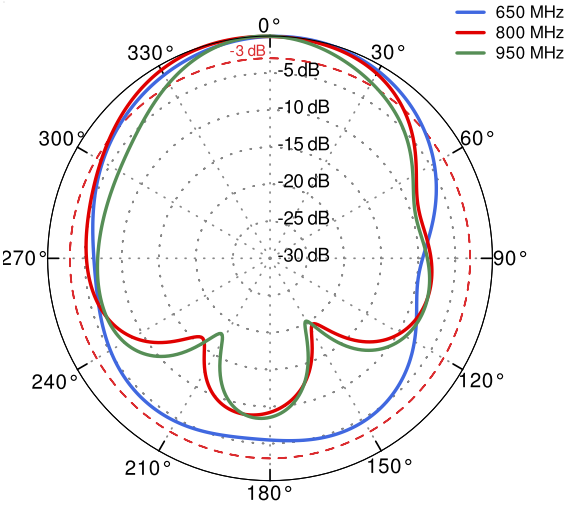
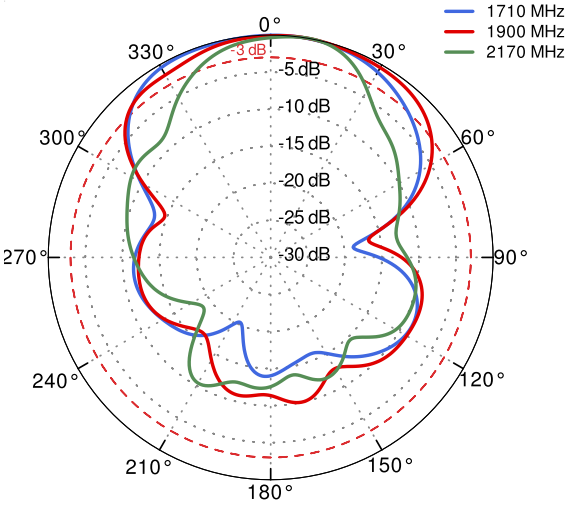


PORT 1&3 - 5G/LTE from 1.71GHz to 2.17GHz

ELEVATION



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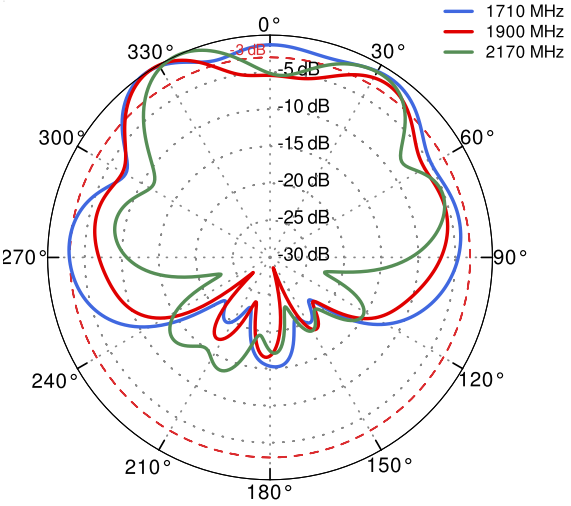

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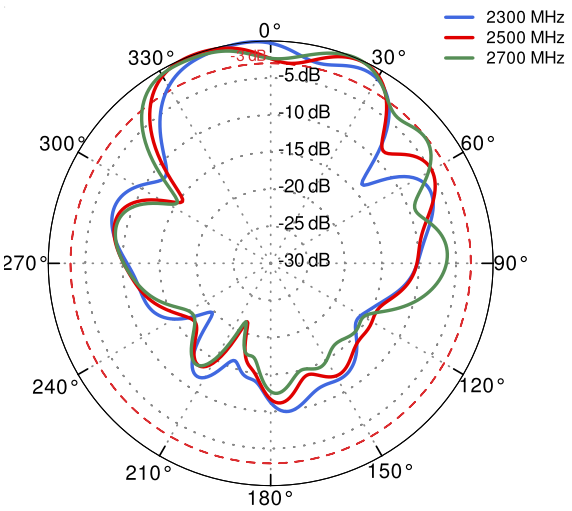
PORT 1&3 - 5G/LTE from 2.3GHz to 2.7GHz

ELEVATION



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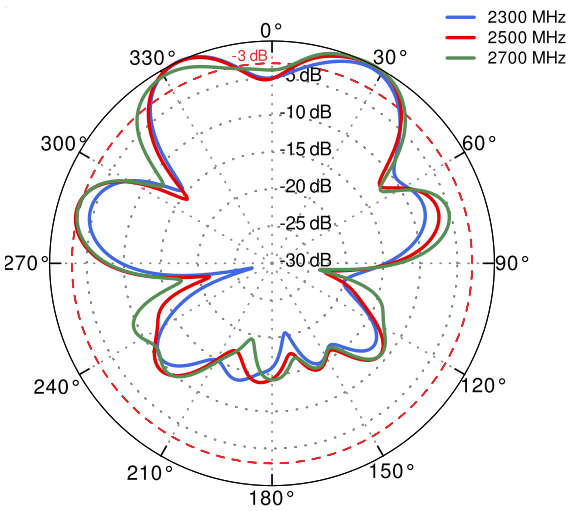
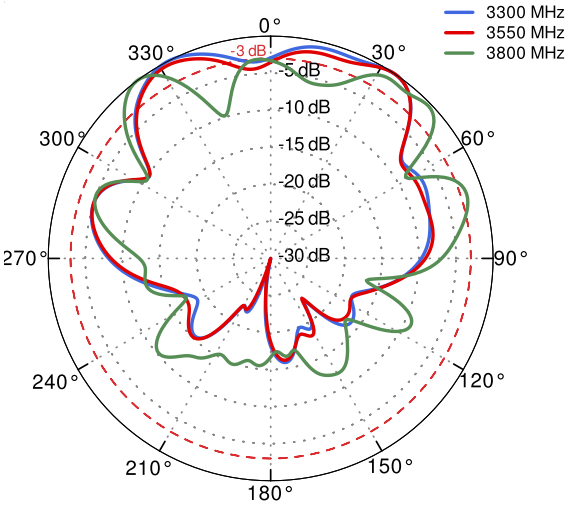


PORT 1&3 - 5G/LTE from 3.3GHz to 3.8GHz

ELEVATION



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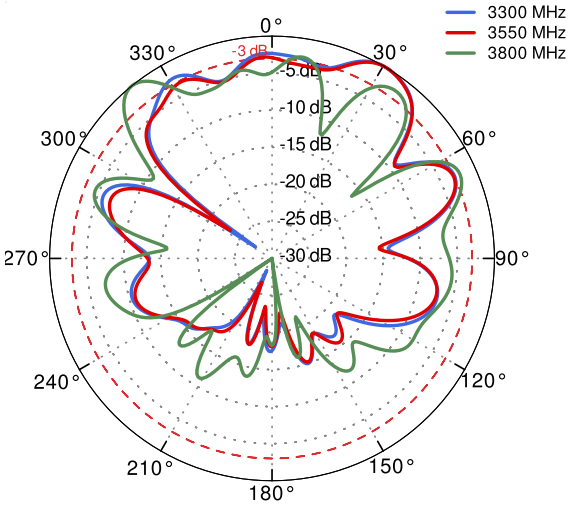

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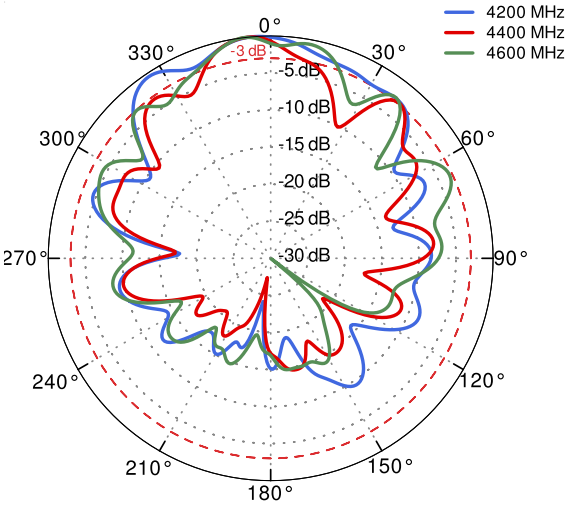
PORT 1&3 - 5G/LTE from 4.2GHz to 4.6GHz

ELEVATION



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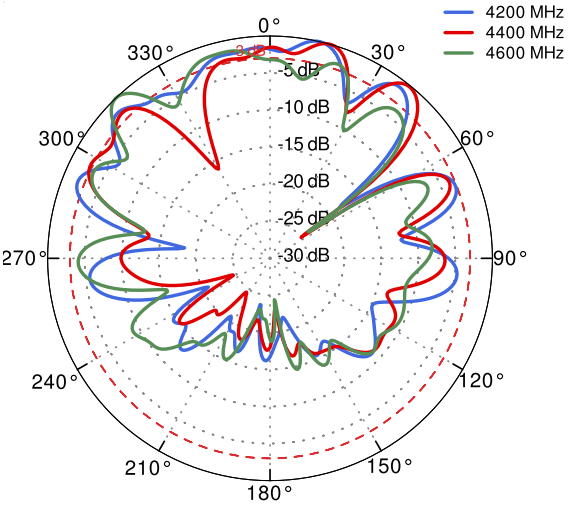
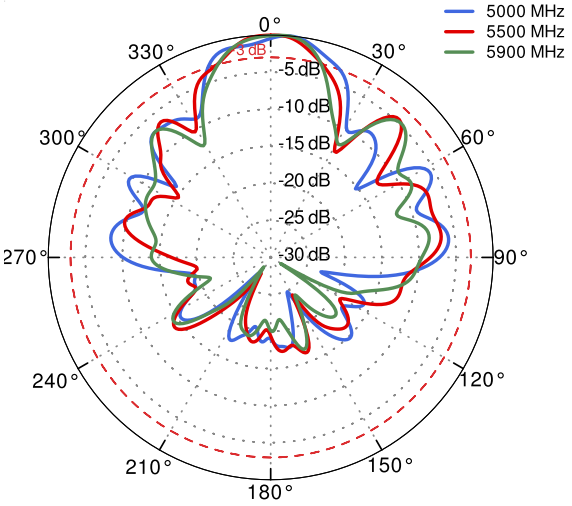


PORT 1&3 - 5G/LTE from 5.0GHz to 5.9GHz

ELEVATION



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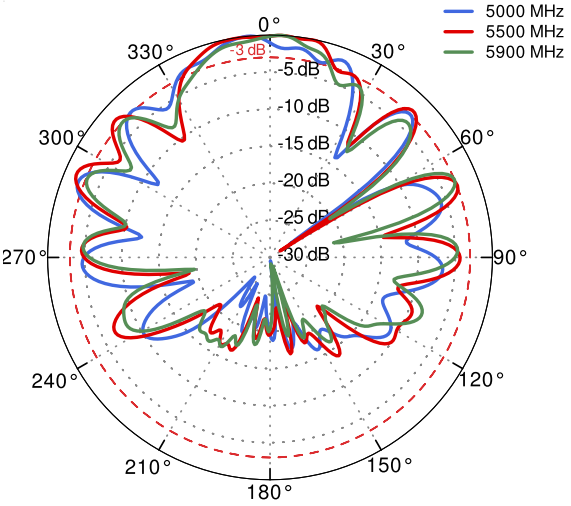

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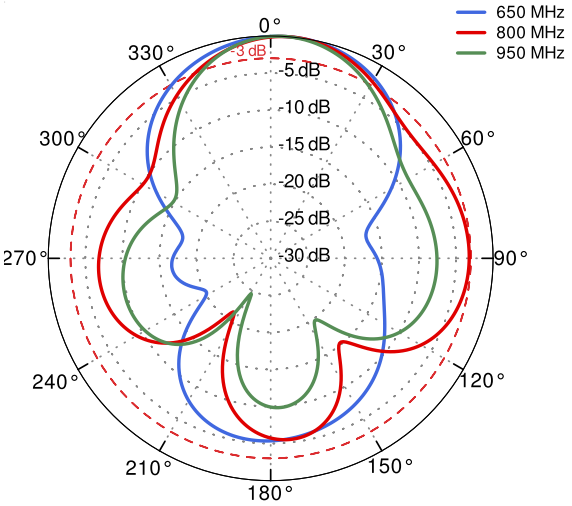
PORT 2&4 - 5G/LTE from 650MHz to 950MHz

ELEVATION



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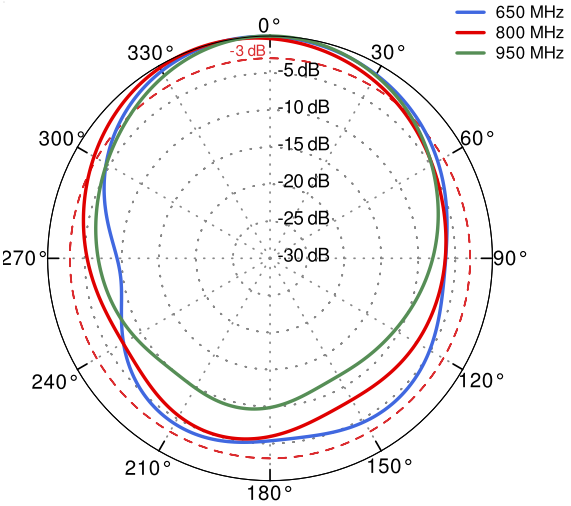
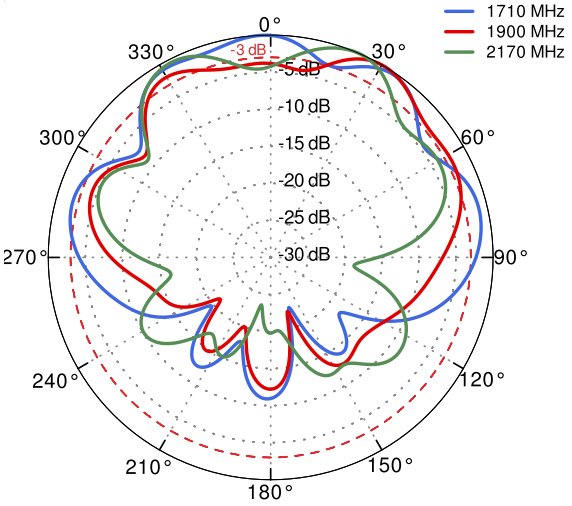


PORT 2&4 - 5G/LTE from 1.71GHz to 2.17GHz

ELEVATION



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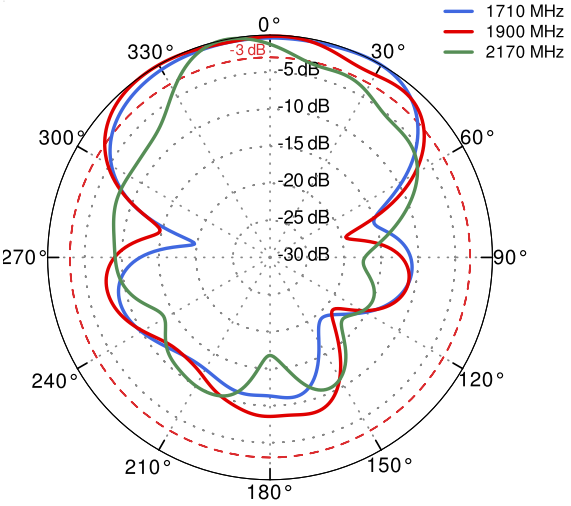

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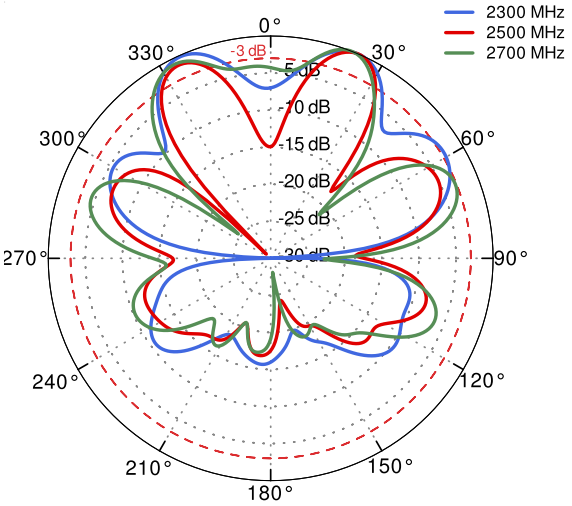
PORT 2&4 - 5G/LTE from 2.3GHz to 2.7GHz

ELEVATION



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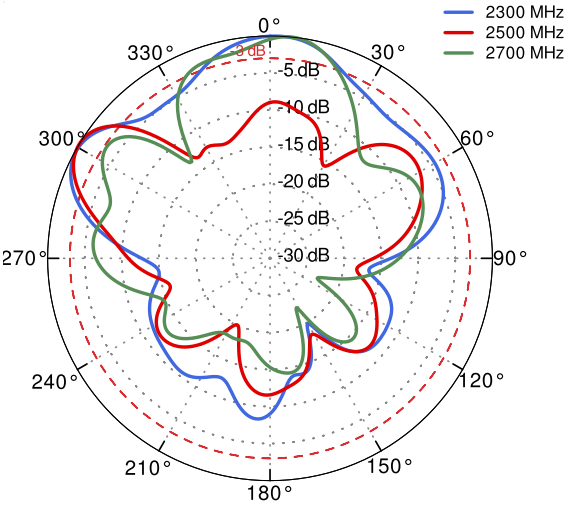
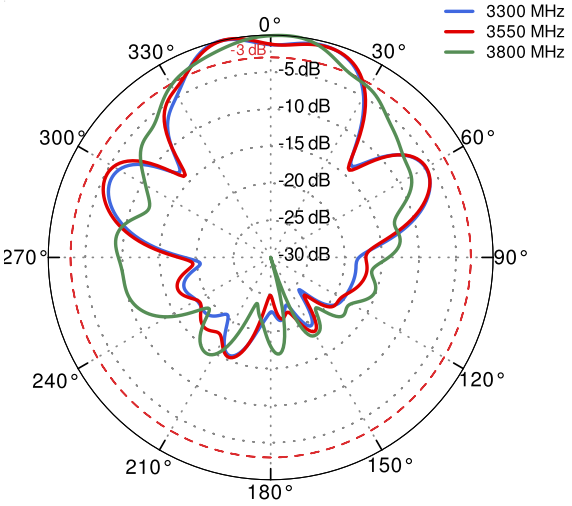


PORT 2&4 - 5G/LTE from 3.3GHz to 3.8GHz

ELEVATION



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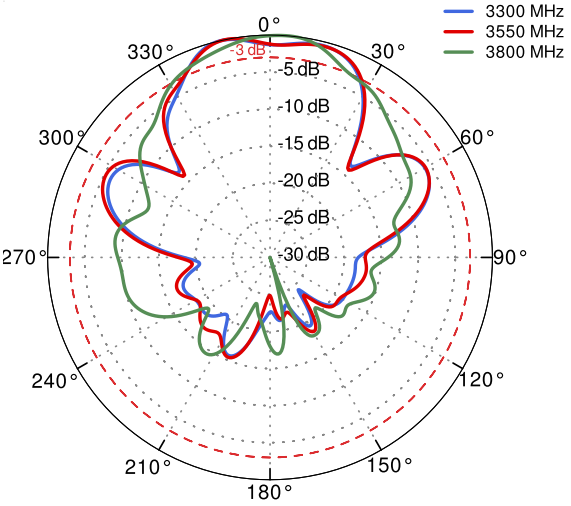

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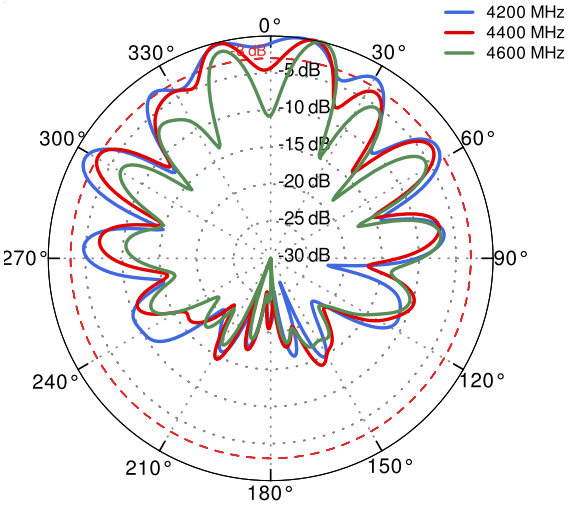
PORT 2 - 5G/LTE from 4.2GHz to 4.6GHz

ELEVATION



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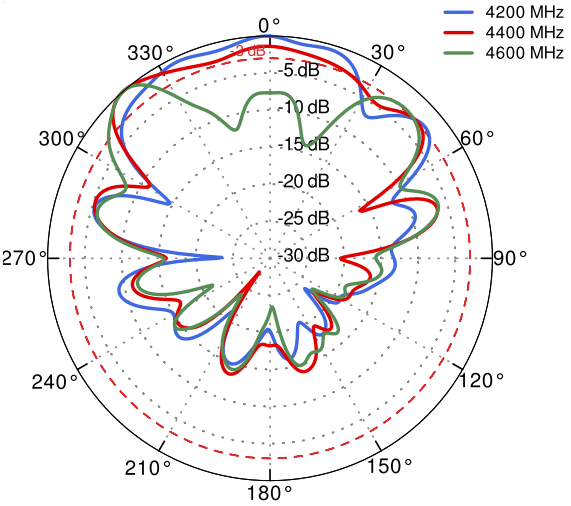
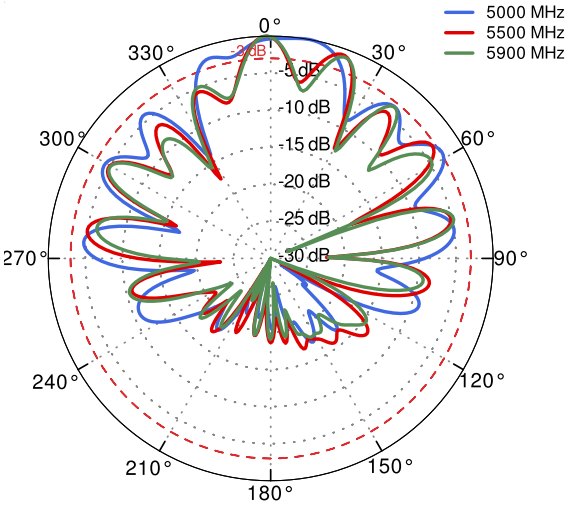


PORT 2 - 5G/LTE from 5.0GHz to 5.9GHz

ELEVATION



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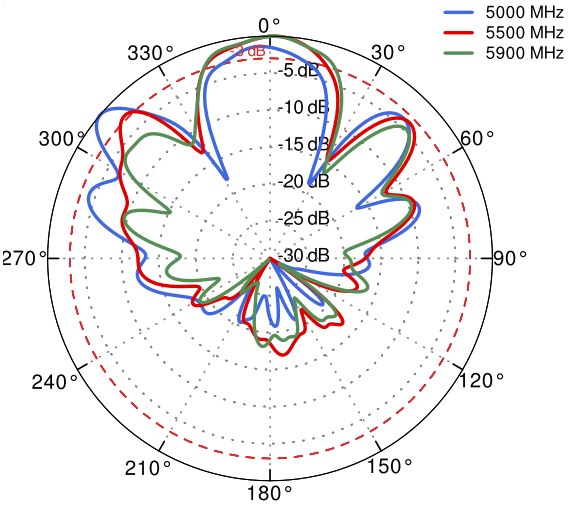

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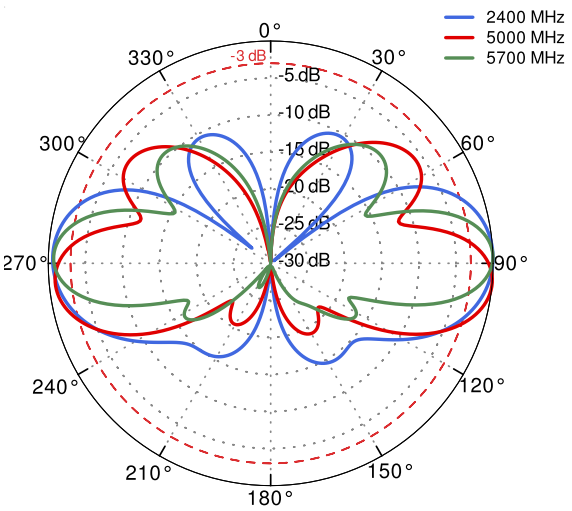
Wi-Fi 2.4GHz and 5GHz

ELEVATION



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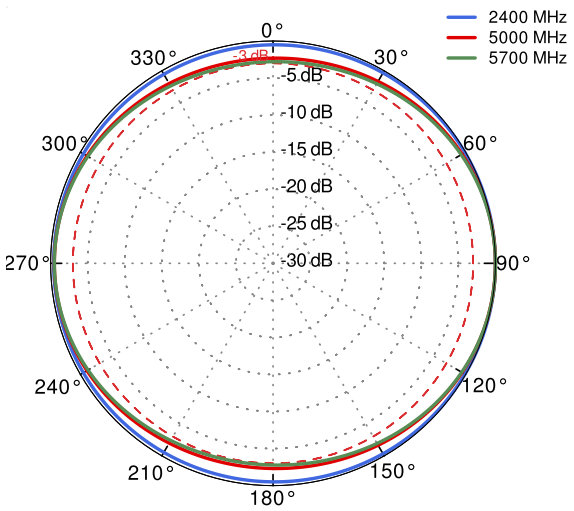
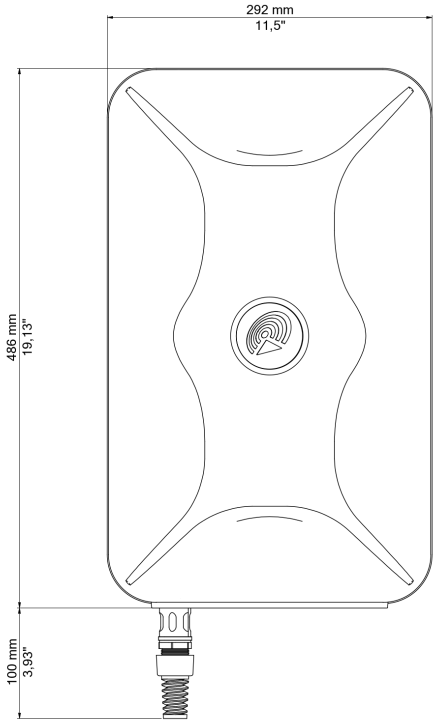
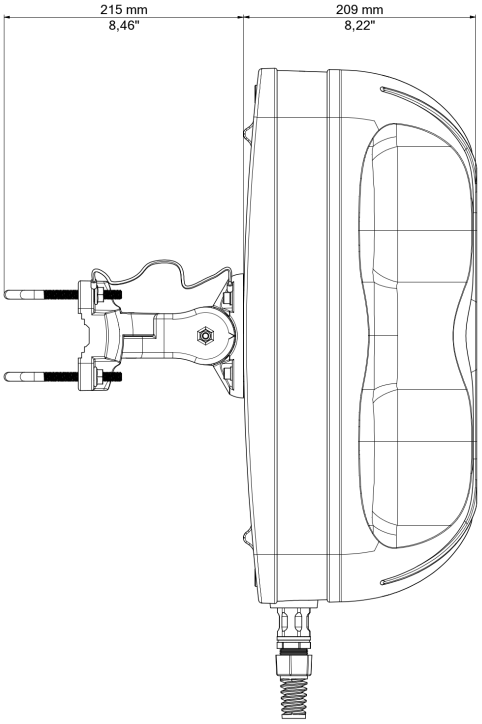


DIMENSIONS





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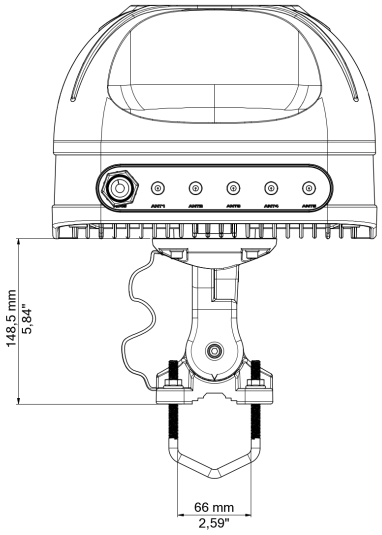

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