



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Series: RAZORBACK

PART NUMBER: RAZ32011MM, RAZ32012MM, RAZ42111MM,  
RAZ42112MM, RAZ52211MM, RAZ52212MM, RAZ62311MM, RAZ62312MM



RAZ62311MM (Black)



RAZ62312MM (White)

### Features:

- 2x LTE 644-2700MHz (MiMo)
- 0, 1x, 2x or 3x WiFi 2.4/5GHz
- DSRC
- GNSS Active:
  - Beidou, GPS, Glonass
  - RHCP polarization
  - Amplifier Gain 30dBi
- Size: 89.2 x 195.1 x 94.7mm  
3.51 x 7.68 x 3.73 in
- Power withstanding 45W
- Available Models
  - RAZ32011MM = 3 Cable, Black
  - RAZ32012MM = 3 Cable, White
  - RAZ42111MM = 4 Cable, Black
  - RAZ42112MM = 4 Cable, White
  - RAZ52211MM = 5 Cable, Black
  - RAZ52212MM = 5 Cable, White
  - RAZ62311MM = 6 Cable, Black
  - RAZ62312MM = 6 Cable, White

### Applications:

- Vehicular use Telematics
- Fleet management
- Trucking
- Navigation, GIS and survey
- Public safety
- Search and Rescue
- Metering, Utility boxes

Issue: 1742

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Suzhou New District  
Jiangsu Province, Suzhou 215009 PR China  
Tel: 86 512 6807 9998



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**ELECTRICAL SPECIFICATIONS**

Antenna Type	Monopole, measured on Ø1.02m (40") ground plane
Frequency (2x LTE)	644-960/1710-2700 MHz
Frequency (1x, 2x or 3x WiFi)	2400-2500/4900-5925 MHz
Nominal Impedance	50 Ω
VSWR	2:1
Radiation Pattern	Omni
HPBW / Vertical Plane (LTE, 644-960)	42°
HPBW / Vertical Plane (LTE, 1710-2700)	31°
HPBW / Vertical Plane (WIFI, 2400-2500)	25°
HPBW / Vertical Plane (WIFI, 4900-5925)	20°
Polarization	Vertical
Average Peak Gain (LTE, 644-960) (LTE, 1710-2700)	4.6/4.9 dBi
Average Peak Gain (WIFI, 2400-2500) (WIFI, 4900-5925)	6/6.6 dBi
Isolation (LTE1 to LTE2)	<-13
Isolation (WiFi1/2, WiF2/3 & WiFi1/3)	<-13
Average Efficiency (LTE)	67 %
Average Efficiency (WiFi)	57 %
Power Withstanding	45 W
GNSS Beidou-GPS-Glonass	
Frequency	1561.098±2.046,1575.42±1.023,1602.5625±4 MHz
VSWR	2:1
Nominal Impedance	50 Ω
Gain (Radiating element)	1 dBic +/- 1dB
Gain (LNA gain)	30 dB +/- 2 dB
Polarization	RHCP

**Description:** GNSS / 2x LTE / 0, 1x, 2x or 3x WiFi  
Magnetic Mount

**Series:** RAZORBACK

**PART NUMBER:** RAZ32011MM, RAZ32012MM, RAZ42111MM,  
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### ELECTRICAL SPECIFICATIONS

Out of Band Rejection	960MHz >65 dB, 1710MHz >60 dB, 2170MHz >65 dB, 2400MHz >65 dB
Noise Figure	< 2.4dB
Operating Voltage	3.3 - 5 Vdc ± 0.5 V
Current Consumption	< 11 mA

### MECHANICAL SPECIFICATIONS

Length/Height/Width	195.1mm (7.68")/94.7 (3.73")/89.2mm (3.51")
Weight	856 g (1.9 lbs)
Antenna Color / Material	Black or White / PC/ABS, UV protected
Cable / Connector	2x LTE, 5.2m (17') LMR-195/SMA-Male 1x, 2x or 3x WiFi, 5.2m (17') LMR-195/RP-SMA-Male GNSS, 5.2m (17') RG-174/SMA-Male
Mounting Configuration	Magnetic Mount

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40/+85° C
Ingress Protection	IP67
RoHS Compliant	Yes

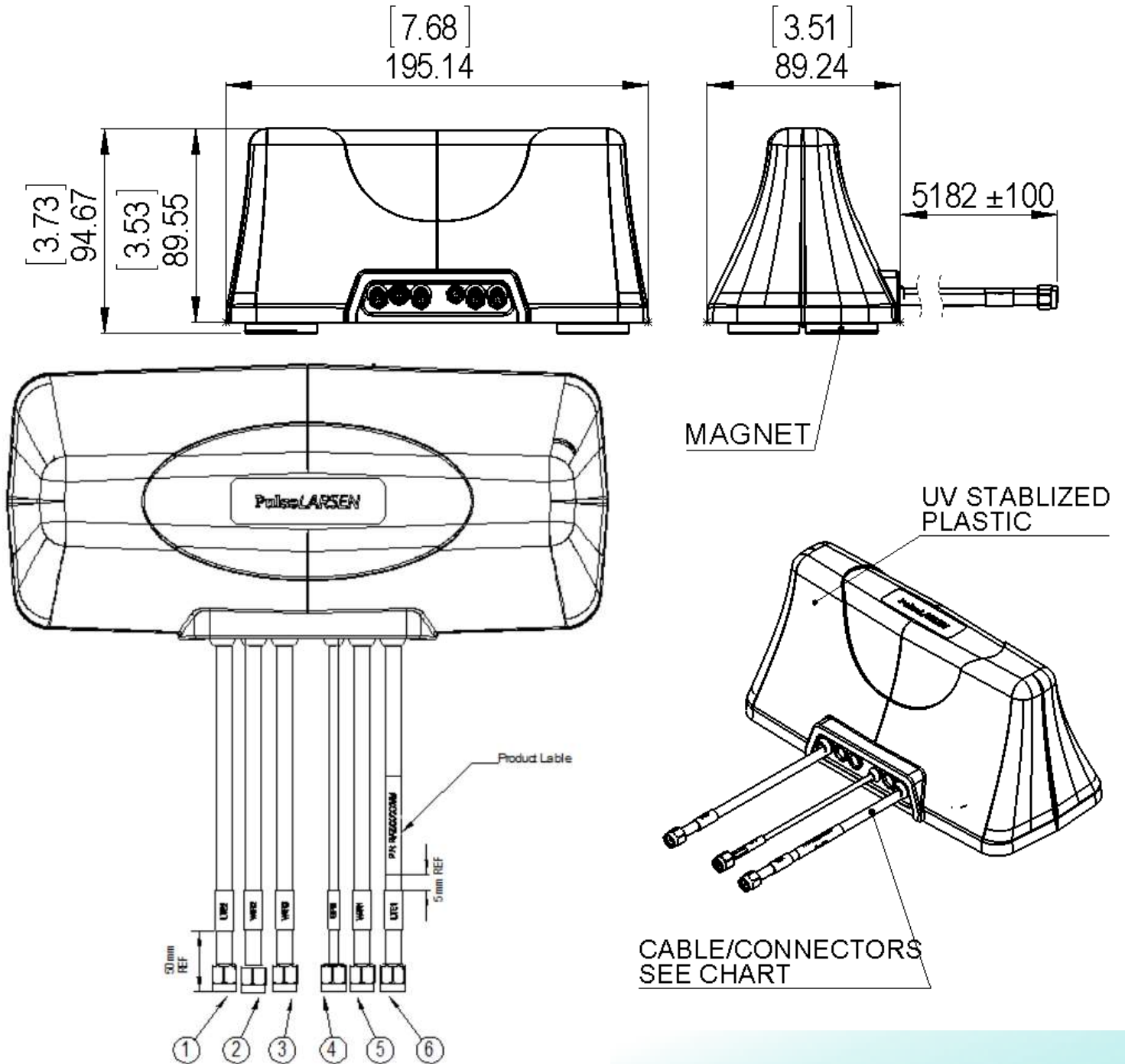
### OTHER SPECIFICATIONS

Total cable assembly loss for 5.2m (17') LMR-195 @ 850MHz	2.1 dB
Total cable assembly loss for 5.2m (17') RG-174 @ 1575MHz	6.0 dB
Total cable assembly loss for 5.2m (17') LMR-195 @ 1930MHz	3.2 dB
Total cable assembly loss for 5.2m (17') LMR-195 @ 2500MHz	3.7 dB
Total cable assembly loss for 5.2m (17') LMR-195 @ 2450MHz	3.6 dB
Total cable assembly loss for 5.2m (17') LMR-195 @ 5350MHz	5.5 dB

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MECHANICAL DRAWING



All dimensions are in mm / inches

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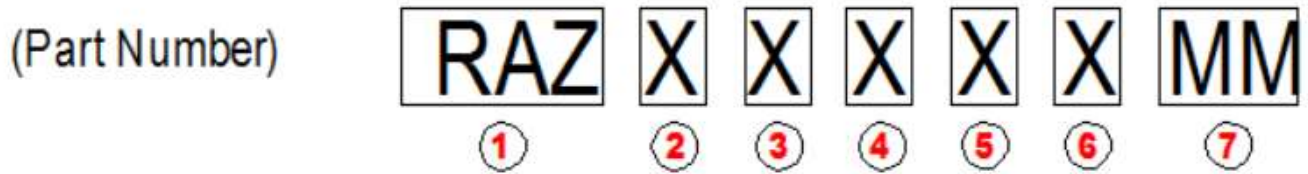
Description: GNSS / 2x LTE / 0, 1x, 2x or 3x WiFi  
Magnetic Mount

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MECHANICAL DRAWING

Vehicular Multiband Antenna with Magnet Mount



<span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">1</span>	Product ID: RAZORBACK
<span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">2</span>	Total Number of Cable leads
<span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">3</span>	Total Number of LTE Cable Leads
<span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">4</span>	Total Number of WiFi Cable Leads
<span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">5</span>	Total Number of GPS Cable Leads
<span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">6</span>	The Color of the Plastic Housing 1=Black; 2=White
<span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">7</span>	Mounting: Magnet Mount

RAZXXXXMM		CABLE	CABLE LENGTH	CONNECTOR
1	LTE-2 Cable Assy	LMR195	5181 mm / 204" / 17 FT	SMA Male
2	WiFi-2 Cable Assy			RP-SMA Male
3	WiFi-3 Cable Assy			SMA Male
4	GPS Cable Assy	RG-174		RP-SMA Male
5	WiFi-1 Cable Assy	LMR195		SMA Male
6	LTE1 Cable Assy			SMA Male

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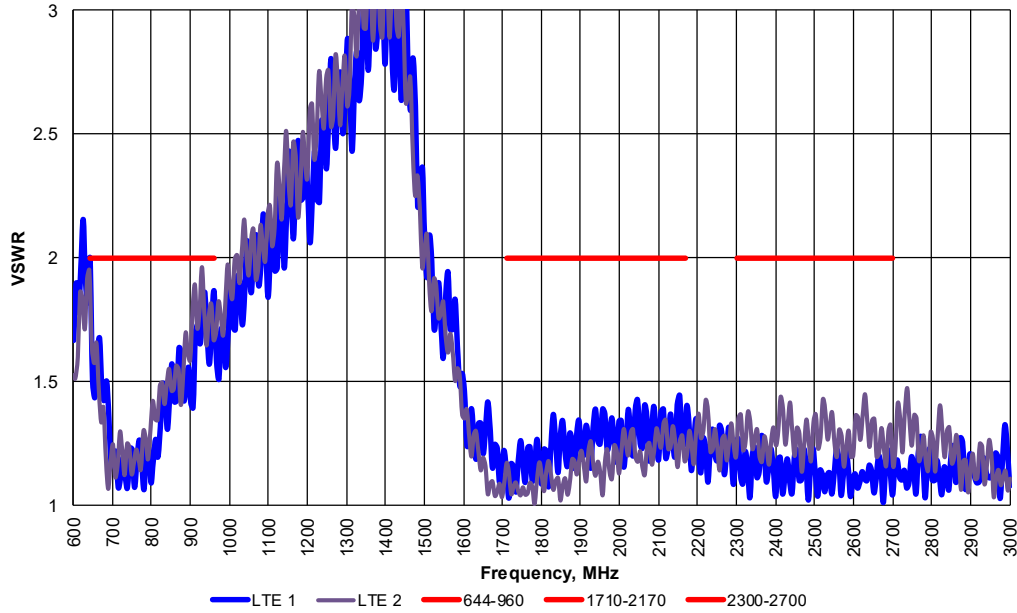
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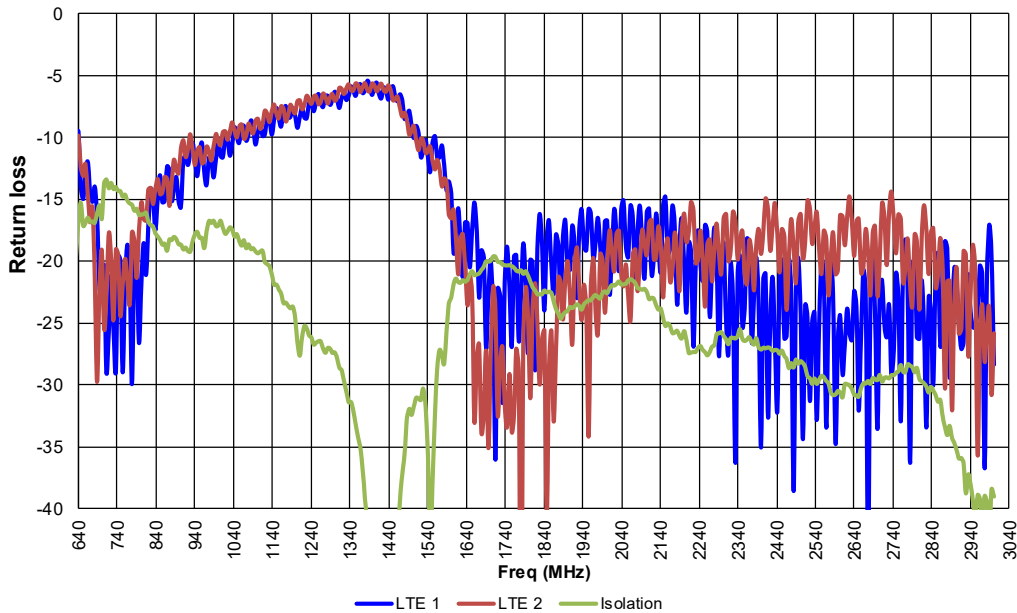
CHARTS

VSWR vs Frequency  
RAZ62311MM Measured with 17' cables on Ø40" GP  
Measured at Pulse, USA - July 07, 2017



LTE 1 & 2  
Measured with 5.2m  
(17') cable

Return loss vs Frequency  
RAZ62311MM Measured with 17' cables on Ø40" GP  
Measured at Pulse, USA - July 07, 2017



LTE 1 & 2  
Measured with 5.2m  
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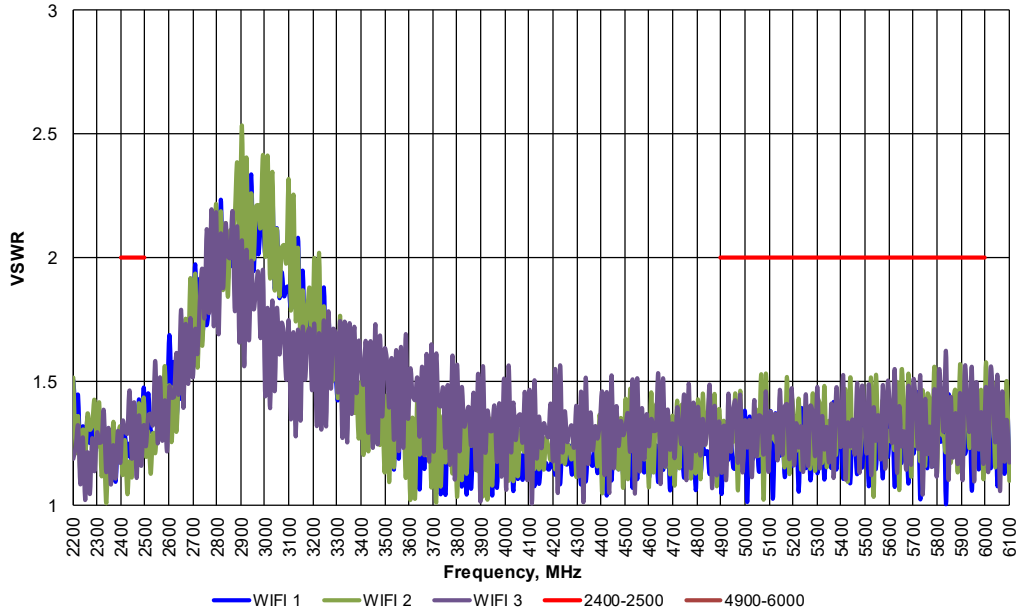
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CHARTS

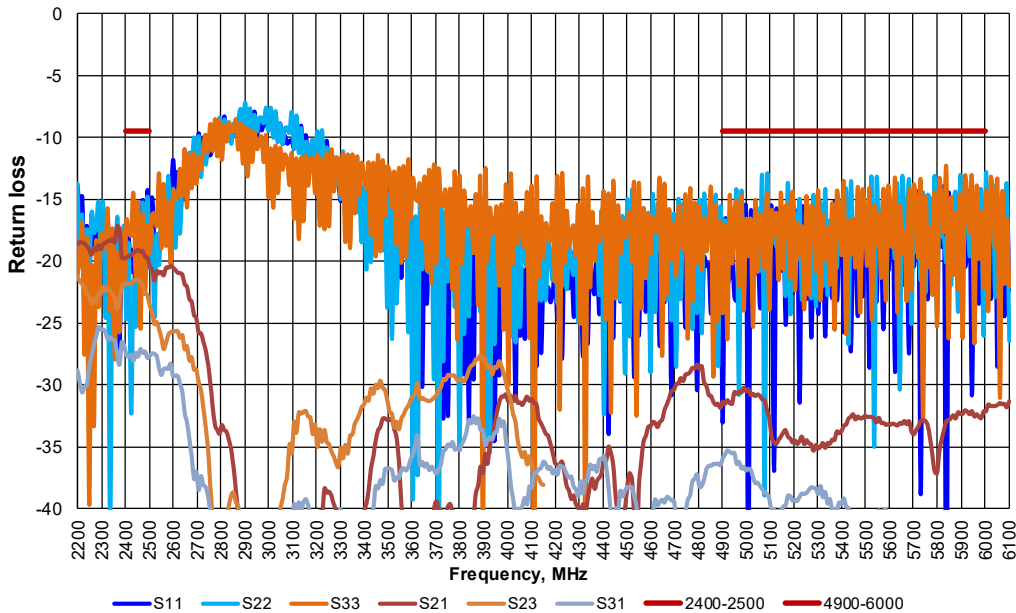
WiFi 1, 2 & 3  
Measured with 5.2m  
(17') cable

VSWR vs Frequency  
RAZ62311MM Measured with 17' cables on Ø40" GP (WiFi 1, 2 & 3)  
Measured at Pulse, USA - July 07, 2017



WiFi 1, 2 & 3  
Measured with 5.2m  
(17') cable

Return loss vs Frequency  
RAZ62311MM Measured with 17' cables on Ø40" GP (WiFi 1, 2 & 3)  
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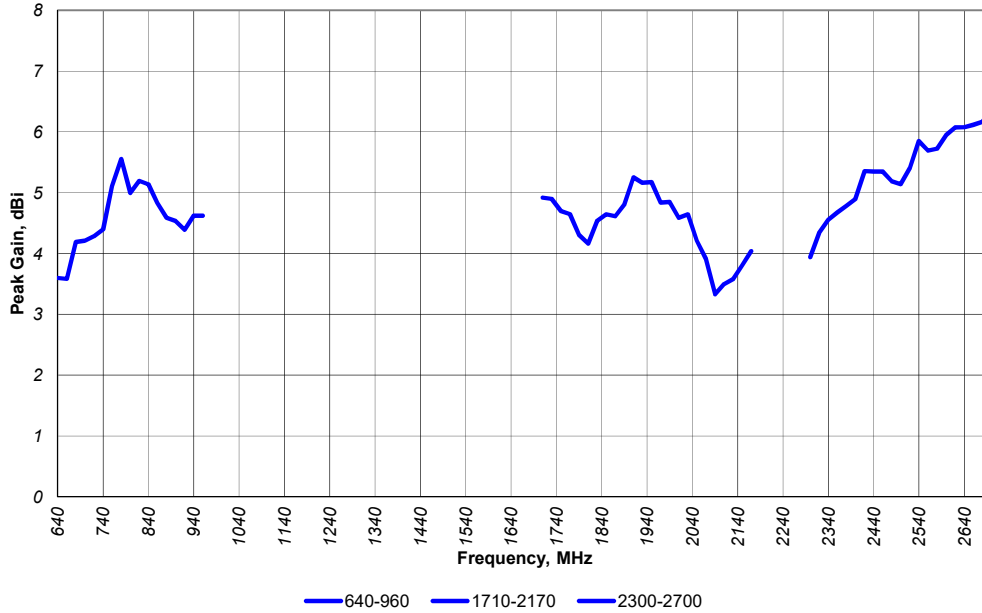


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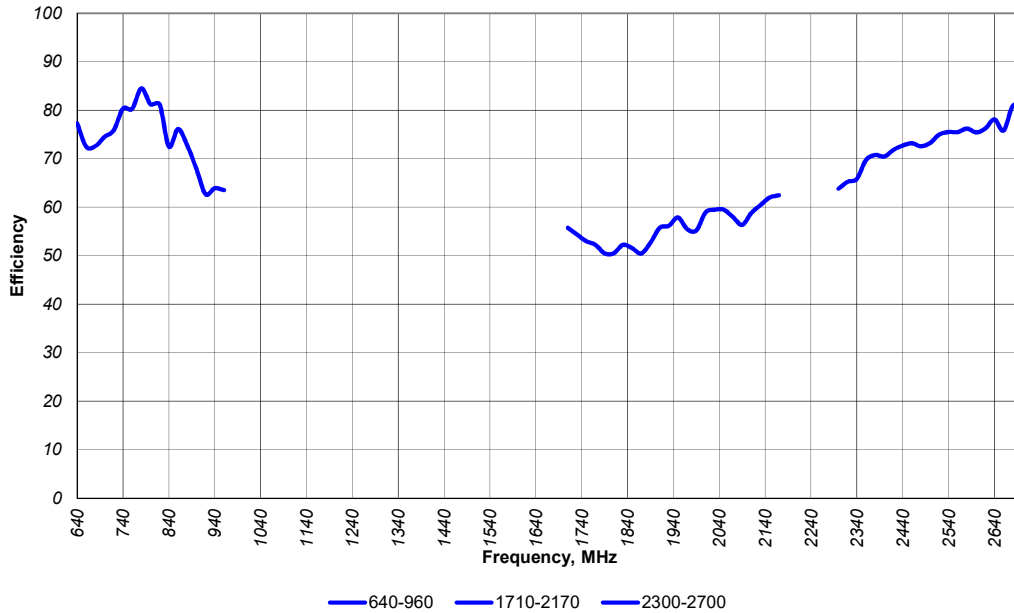
CHARTS

Peak Gain vs Frequency  
RAZ62311MM Measured with 3ft cables on Ø40" GP (LTE 1)  
Measured at Pulse, USA - July 07, 2017



LTE 1  
Measured with  
914mm (36") cable

Efficiency vs Frequency  
RAZ62311MM Measured with 3ft cables on Ø40" GP (LTE 1)  
Measured at Pulse, USA - July 07, 2017



LTE 1  
Measured with  
914mm (36") cable

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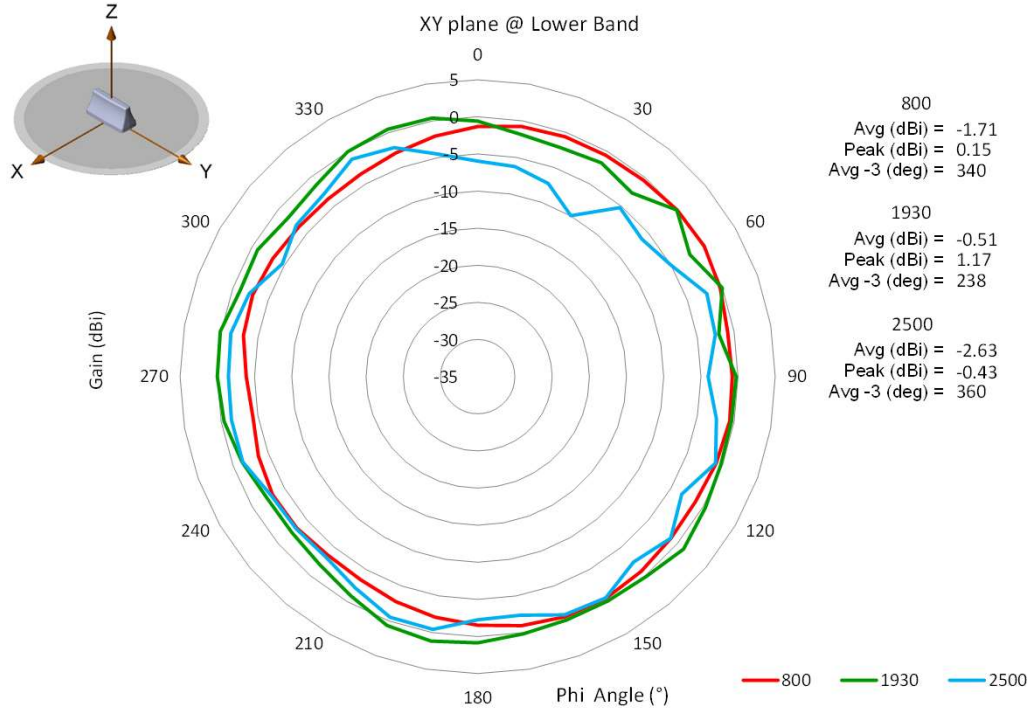
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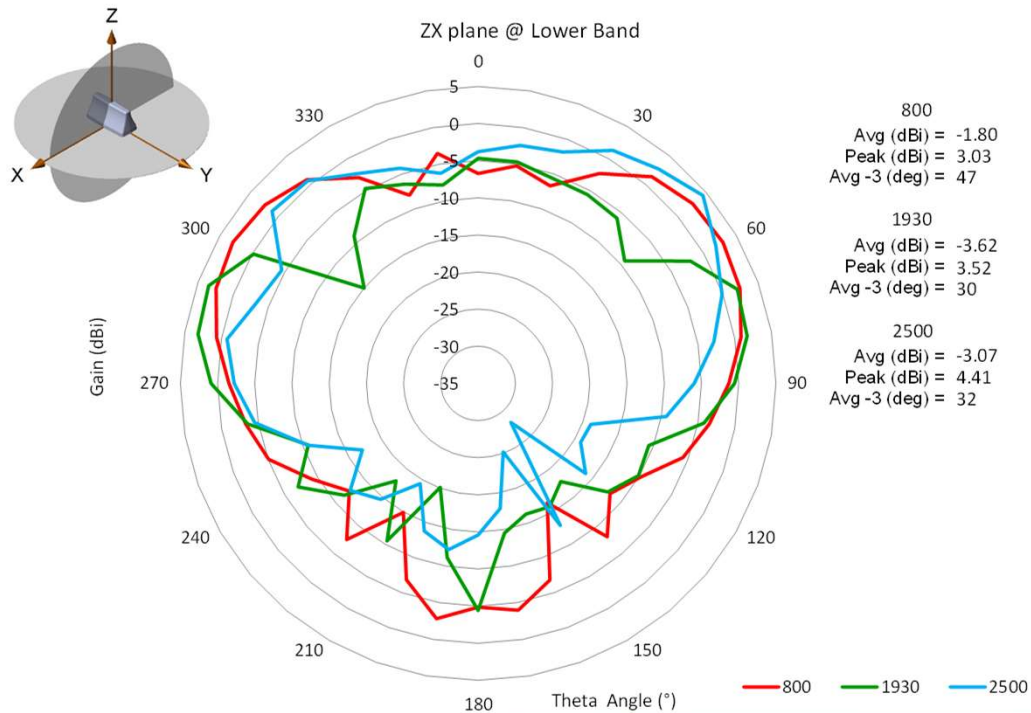
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CHARTS

LTE 1  
Measured with  
914mm (36") cable



LTE 1  
Measured with  
914mm (36") cable



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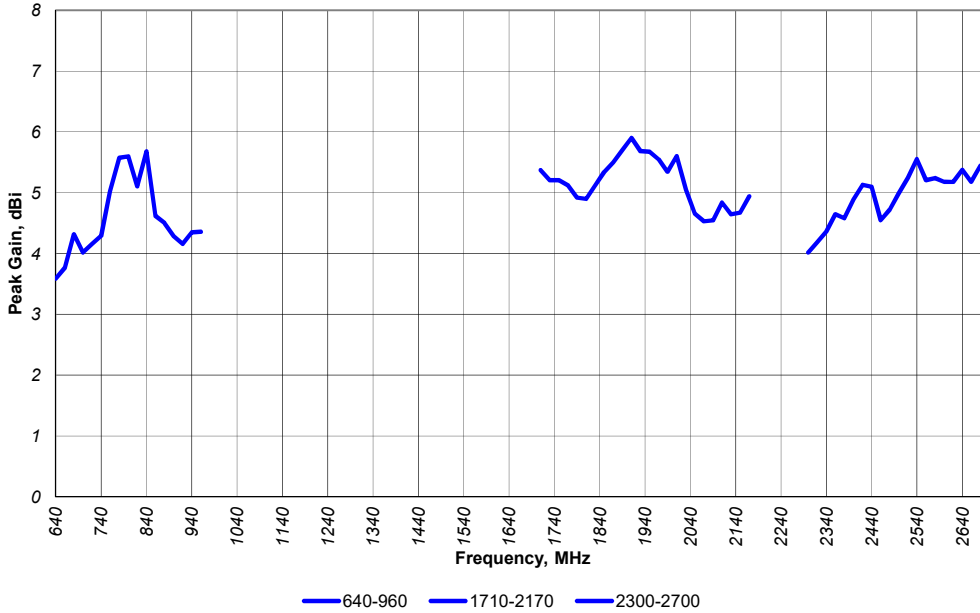
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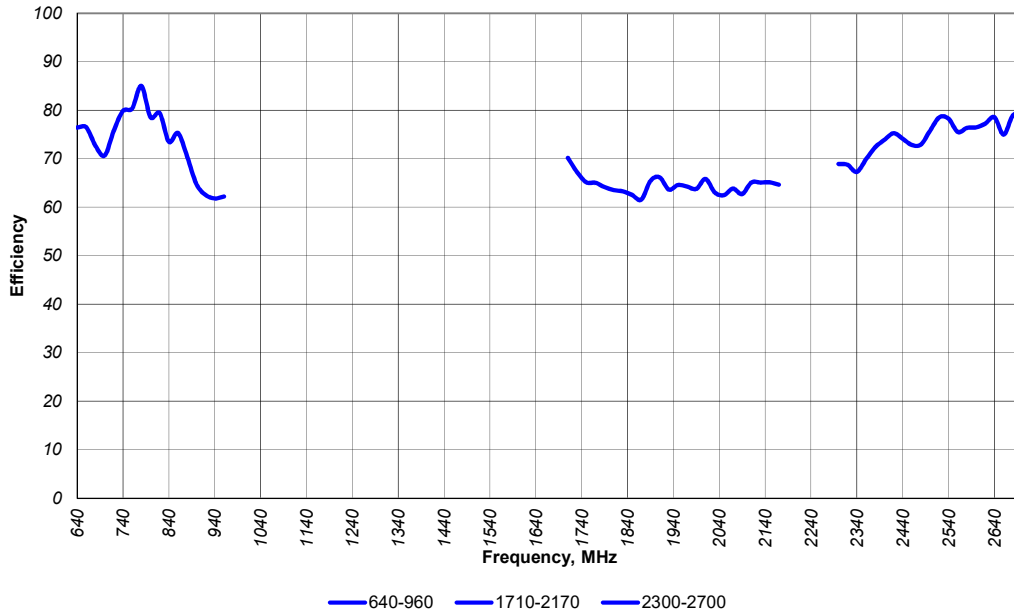
CHARTS

Peak Gain vs Frequency  
RAZ62311MM Measured with 3ft cables on Ø40" GP (LTE 2)  
Measured at Pulse, USA - July 07, 2017



LTE 2  
Measured with  
914mm (36") cable

Efficiency vs Frequency  
RAZ62311MM Measured with 3ft cables on Ø40" GP (LTE 2)  
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LTE 2  
Measured with  
914mm (36") cable

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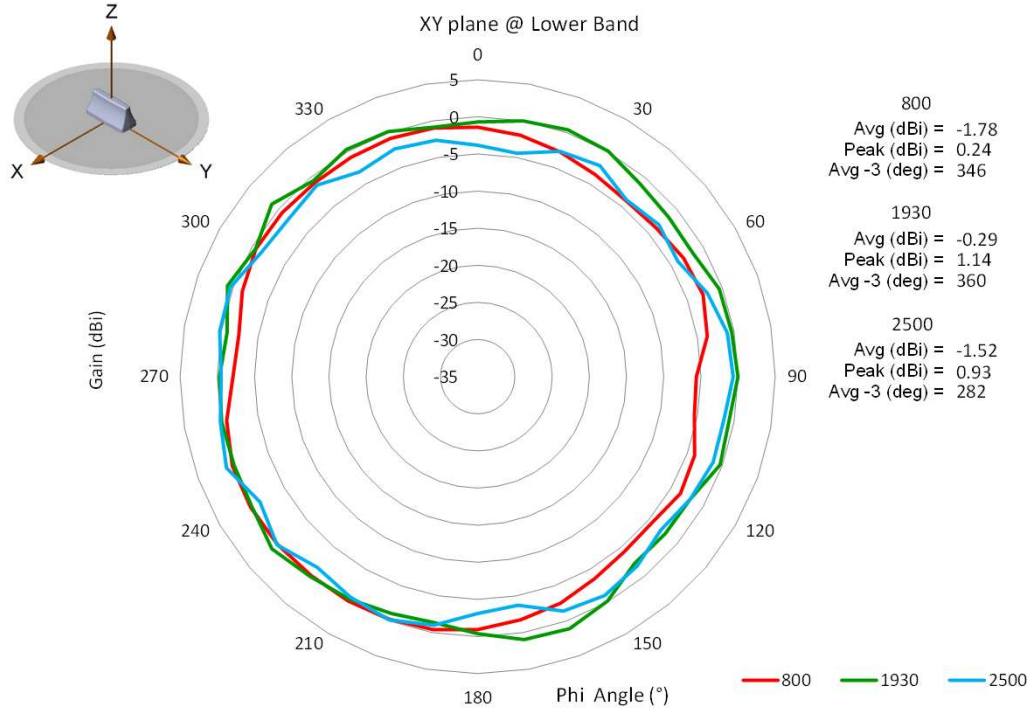
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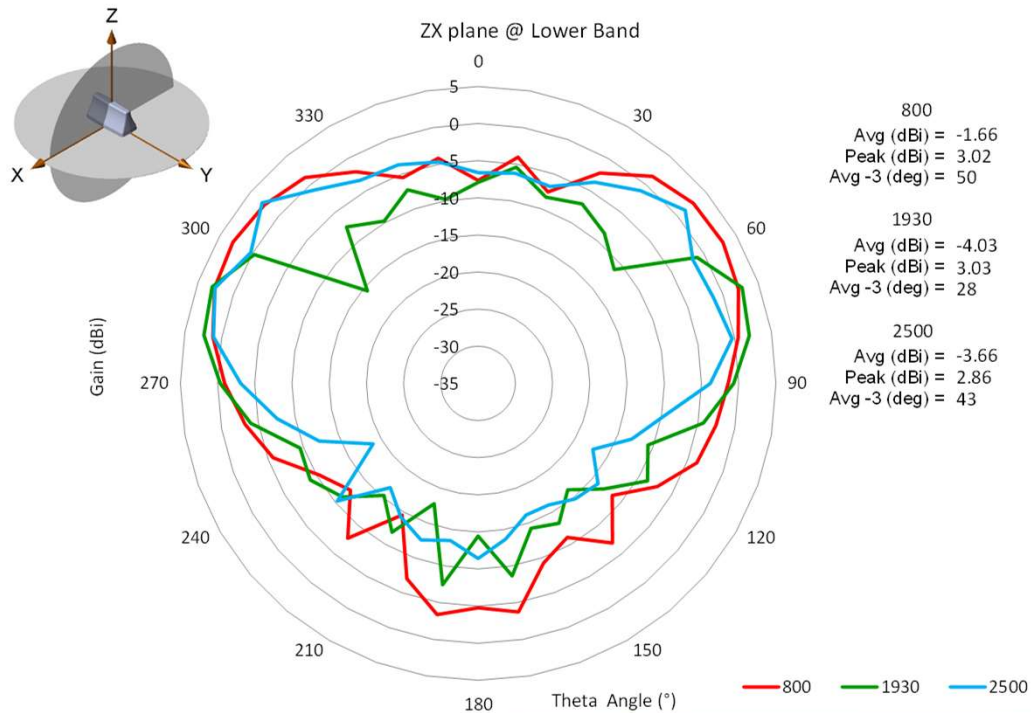
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CHARTS

LTE 2  
Measured with  
914mm (36") cable



LTE 2  
Measured with  
914mm (36") cable



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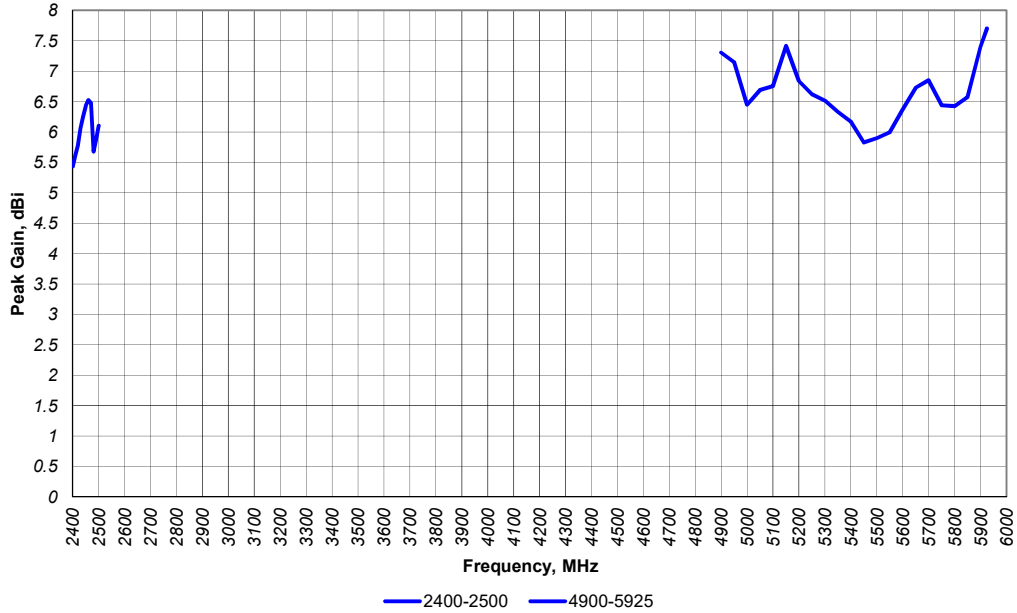
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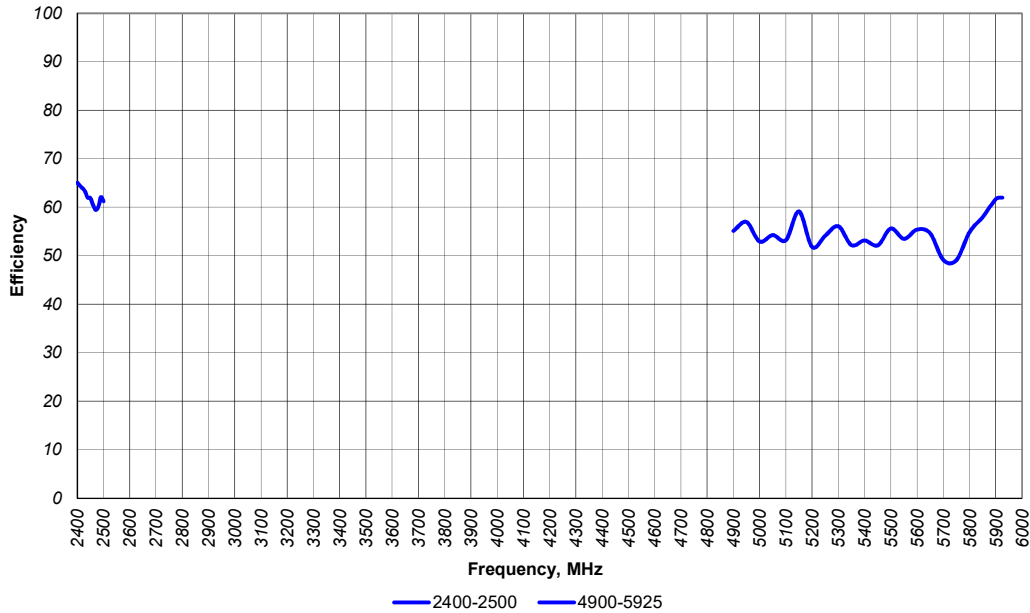
CHARTS

Peak Gain vs Frequency  
RAZ62311MM Measured with 3ft cables on Ø40" GP (WiFi 1)  
Measured at Pulse, USA - July 07, 2017



WiFi 1  
Measured with  
914mm (36") cable

Efficiency vs Frequency  
RAZ62311MM Measured with 3ft cables on Ø40" GP (WiFi 1)  
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WiFi 1  
Measured with  
914mm (36") cable

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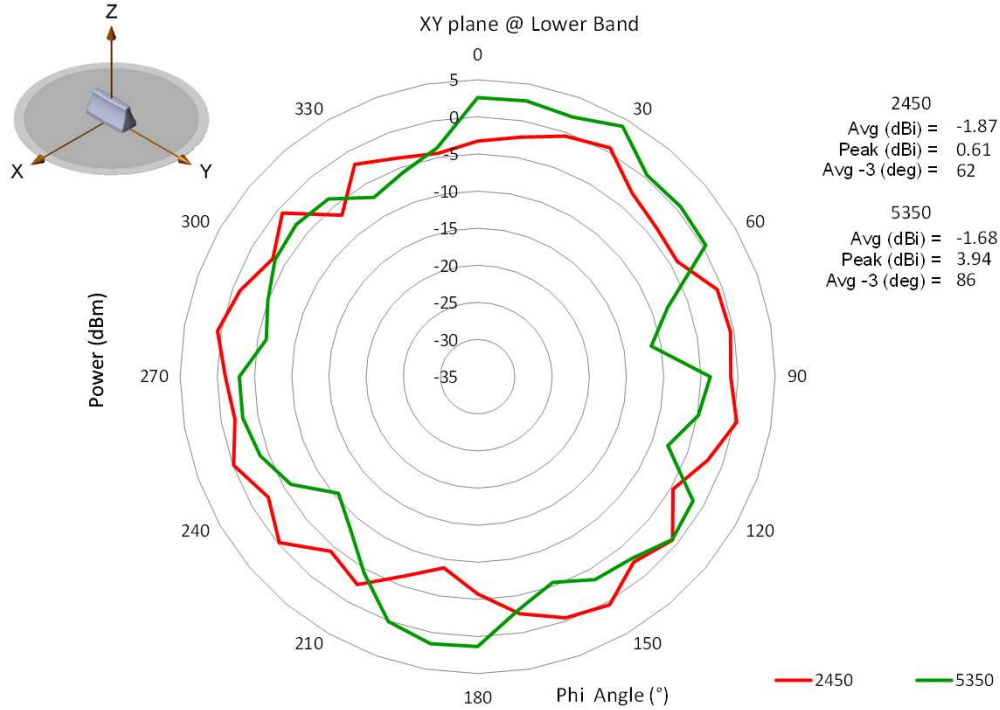
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CHARTS

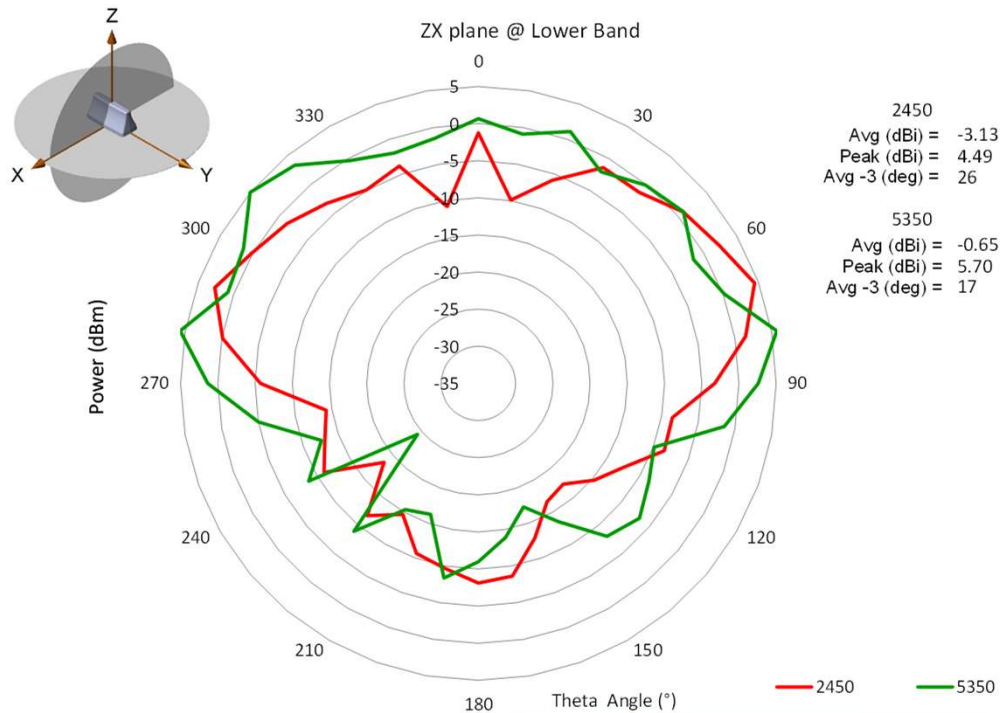
WiFi 1

Measured with 914mm (36") cable



WiFi 1

Measured with 914mm (36") cable



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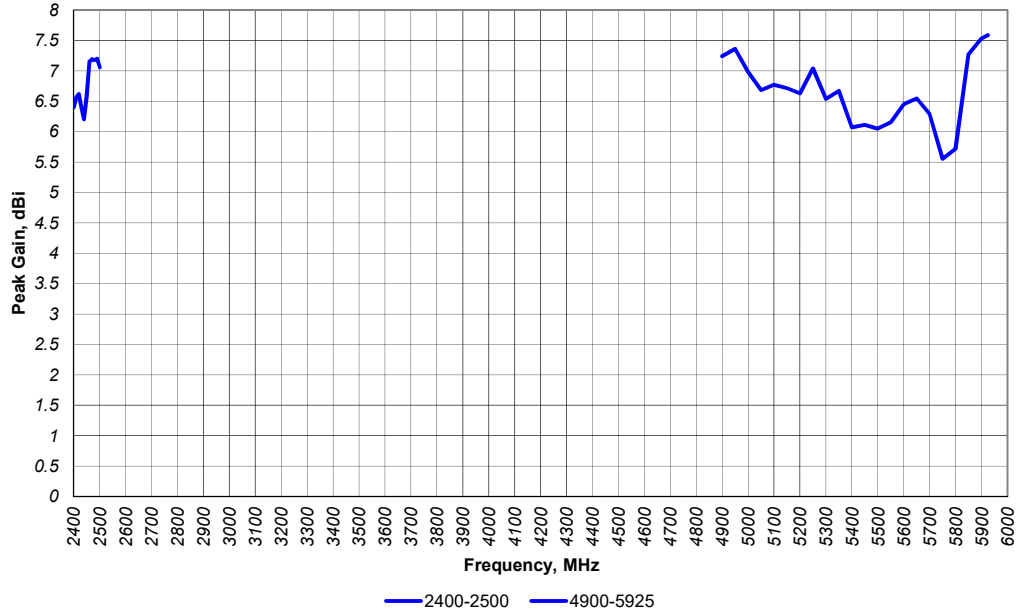
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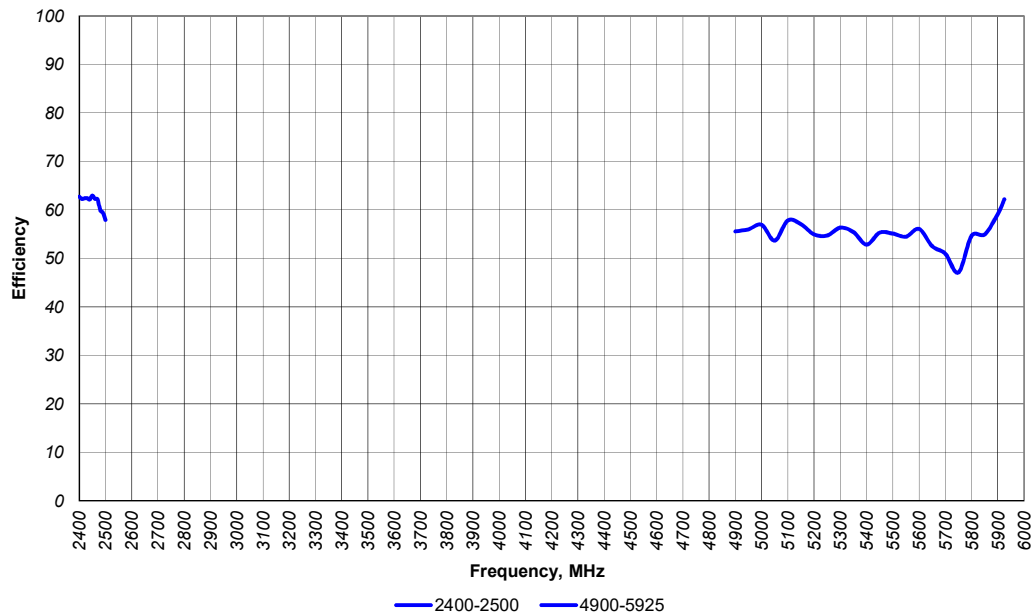
CHARTS

Peak Gain vs Frequency  
RAZ62311MM Measured with 3ft cables on Ø40" GP (WiFi 2)  
Measured at Pulse, USA - July 07, 2017



WiFi 2  
Measured with  
914mm (36") cable

Efficiency vs Frequency  
RAZ62311MM Measured with 3ft cables on Ø40" GP (WiFi 2)  
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WiFi 2  
Measured with  
914mm (36") cable

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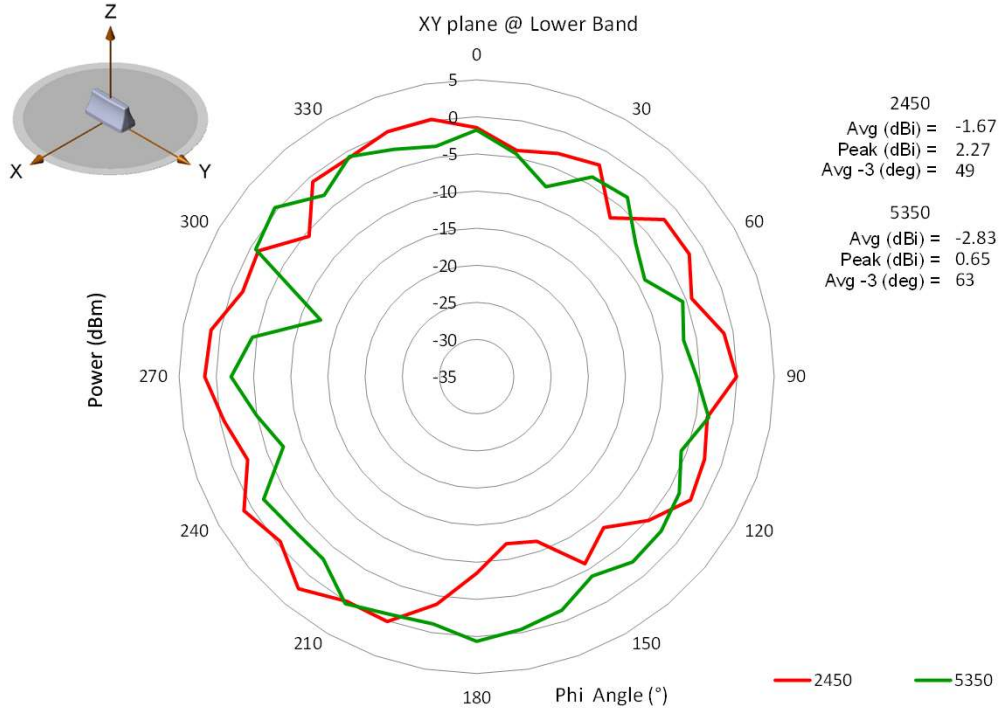
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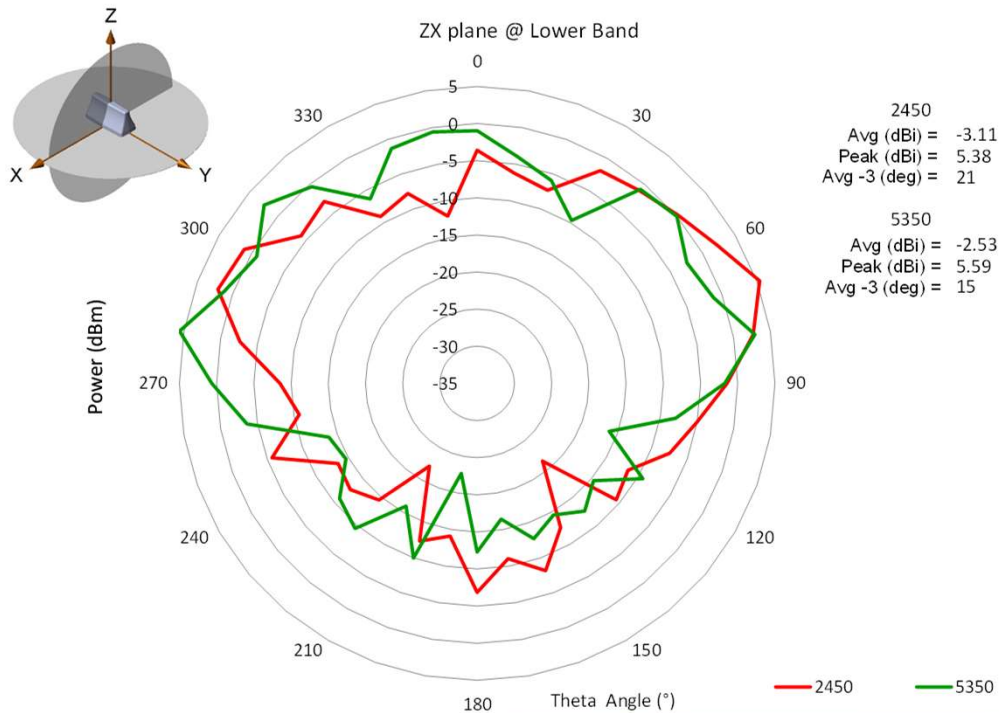
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CHARTS

WiFi 2  
Measured with  
914mm (36") cable



WiFi 2  
Measured with  
914mm (36") cable



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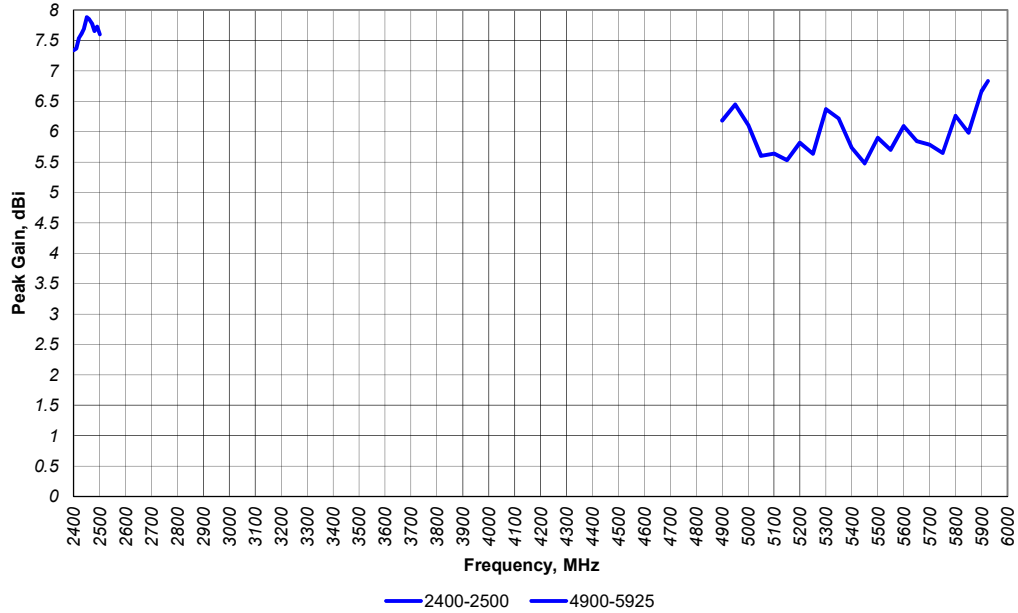


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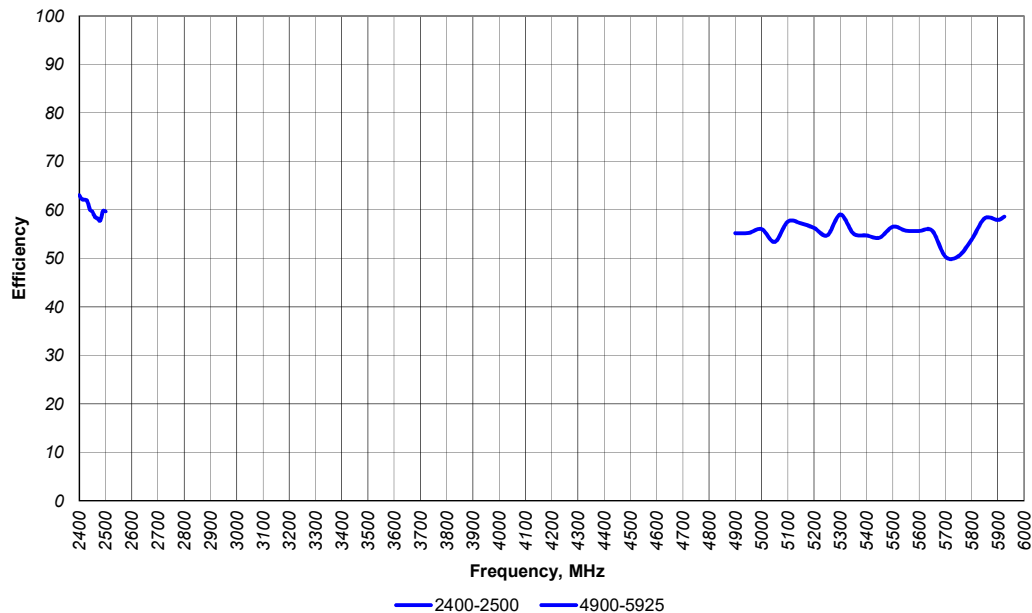
CHARTS

Peak Gain vs Frequency  
RAZ62311MM Measured with 3ft cables on Ø40" GP (WiFi 3)  
Measured at Pulse, USA - July 07, 2017



WiFi 3  
Measured with  
914mm (36") cable

Efficiency vs Frequency  
RAZ62311MM Measured with 3ft cables on Ø40" GP (WiFi 3)  
Measured at Pulse, USA - July 07, 2017



WiFi 3  
Measured with  
914mm (36") cable

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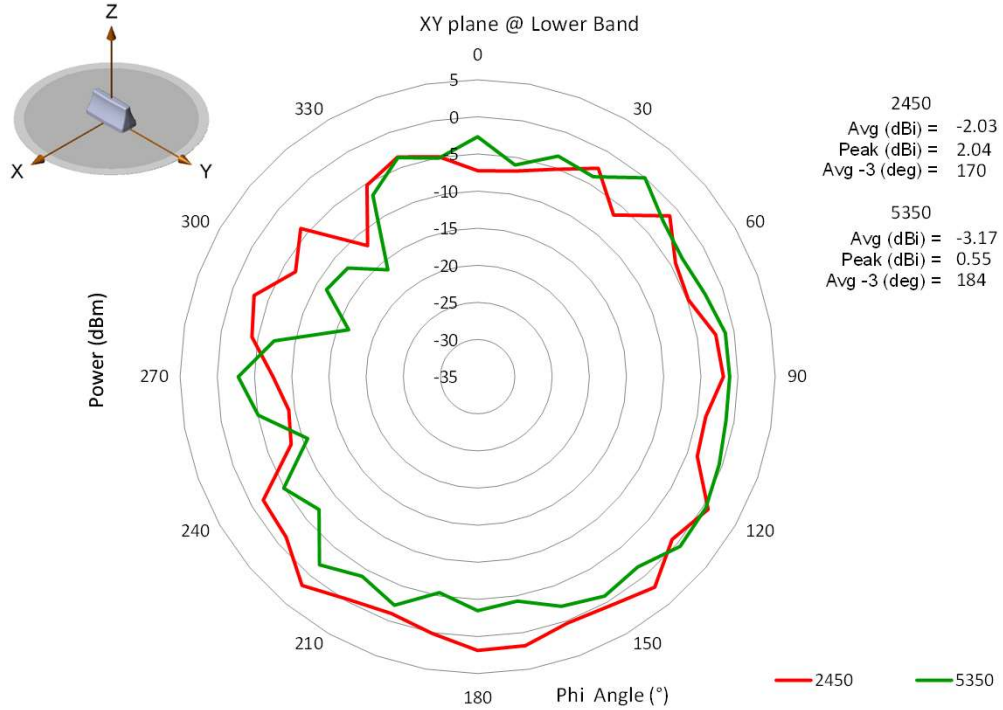
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Series: RAZORBACK

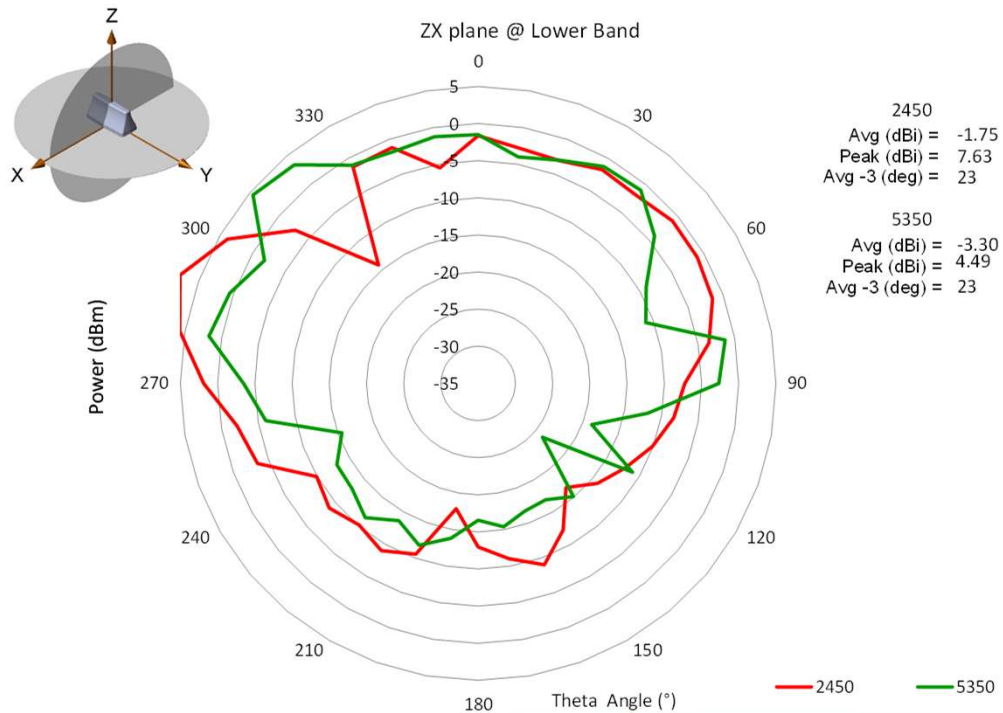
PART NUMBER: RAZ32011MM, RAZ32012MM, RAZ42111MM,  
RAZ42112MM, RAZ52211MM, RAZ52212MM, RAZ62311MM, RAZ62312MM

CHARTS

WiFi 3  
Measured with  
914mm (36") cable



WiFi 3  
Measured with  
914mm (36") cable



Issue: 1742

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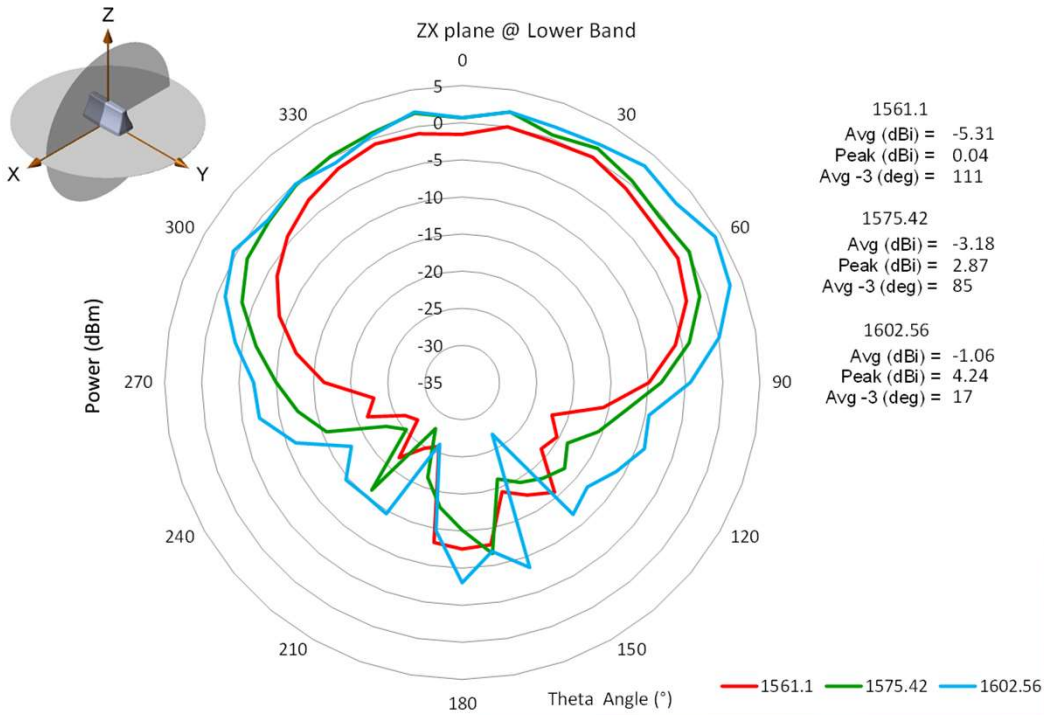
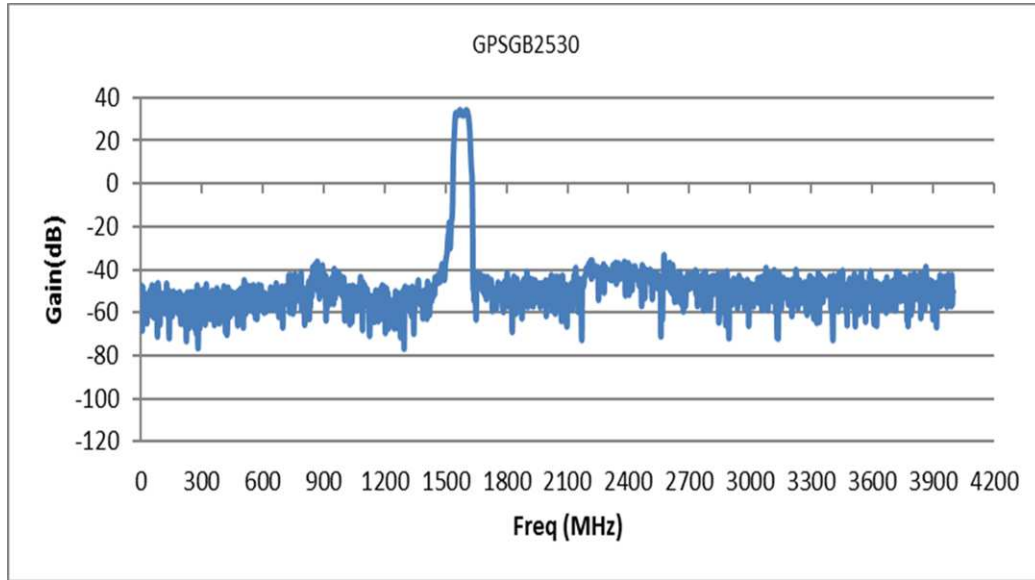
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Series: RAZORBACK

PART NUMBER: RAZ32011MM, RAZ32012MM, RAZ42111MM,  
RAZ42112MM, RAZ52211MM, RAZ52212MM, RAZ62311MM, RAZ62312MM

CHARTS

GNSS LNA Gain and out-of-band rejection



GNSS

Passive Measurement  
Measured with 152mm (6") cable

Issue: 1742

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**Description:** GNSS / 2x LTE / 0, 1x, 2x or 3x WiFi  
Magnetic Mount

**Series:** RAZORBACK

**PART NUMBER:** RAZ32011MM, RAZ32012MM, RAZ42111MM,  
RAZ42112MM, RAZ52211MM, RAZ52212MM, RAZ62311MM, RAZ62312MM

## PACKAGING

1pcs antennas per foam bag

6pcs antennas per package box

Total 6pcs antenna per package box

Package box: 558mm\*386mm\*210mm