

RAZ32012DM Datasheet

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DiGi Electronics Part Number	RAZ32012DM-DG
Manufacturer	Pulse Electronics
Manufacturer Product Number	RAZ32012DM
Description	RF ANT 802MHZ/1.582GHZ MOD PANEL
Detailed Description	802MHz, 1.582GHz, 2.2GHz GPS, LTE Module RF Antenna 644MHz ~ 960MHz, 1.559GHz ~ 1.606GHz, 1.71GHz ~ 2.69GHz 4.6dBi, 4.9dBi, 6dBi, 6.6dBi SMA Male (3) Panel Mount

This model RAZ32012DM is available at DiGi Electronics.

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Purchase and inquiry

Manufacturer Product Number:

RAZ32012DM

Series:

RAZORBACK

RF Family/Standard:

Cellular, Navigation

Frequency (Center/Band):

802MHz, 1.582GHz, 2.2GHz

Antenna Type:

Module

VSWR:

2

Gain:

4.6dBi, 4.9dBi, 6dBi, 6.6dBi

Features:

Cable - 5.18m, LNA

Ingress Protection:

IP67

Height (Max):

3.644" (92.55mm)

Manufacturer:

Pulse Electronics

Product Status:

Active

Frequency Group:

Wide Band

Frequency Range:

644MHz ~ 960MHz, 1.559GHz ~ 1.606GHz, 1.71GHz ~ 2.69GHz

Number of Bands:

3

Return Loss:

-

Power - Max:

45 W

Termination:

SMA Male (3)

Mounting Type:

Panel Mount

Applications:

GPS, LTE

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8529.10.9100

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

7A994



RAZ52211DM (Black)



RAZ52212DM (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: 88.5 x 195.1 x 92.6mm
3.48 x 7.68 x 3.65 in
- Power withstanding 45W
- Available Models
 - RAZ32011DM = 3 Cable, Black
 - RAZ32012DM = 3 Cable, White
 - RAZ42111DM = 4 Cable, Black
 - RAZ42112DM = 4 Cable, White
 - RAZ52211DM = 5 Cable, Black
 - RAZ52212DM = 5 Cable, White
 - RAZ62311DM = 6 Cable, Black
 - RAZ62312DM = 6 Cable, White

Applications:

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

Issue: 1827

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Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998



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

Series: RAZORBACK

PART NUMBER: RAZ32011DM, RAZ32012DM, RAZ42111DM,
RAZ42112DM, RAZ52211DM, RAZ52212DM, RAZ62311DM, RAZ62312DM

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

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

Series: RAZORBACK

PART NUMBER: RAZ32011DM, RAZ32012DM, RAZ42111DM,
RAZ42112DM, RAZ52211DM, RAZ52212DM, RAZ62311DM, RAZ62312DM

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 \pm 0.5 V
Current Consumption	< 11 mA

MECHANICAL SPECIFICATIONS

Length/Height/Width	195.1mm (7.68")/92.6 (3.65")/88.5mm (3.48")
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	Ø22.3mm (7/8") Hole required

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

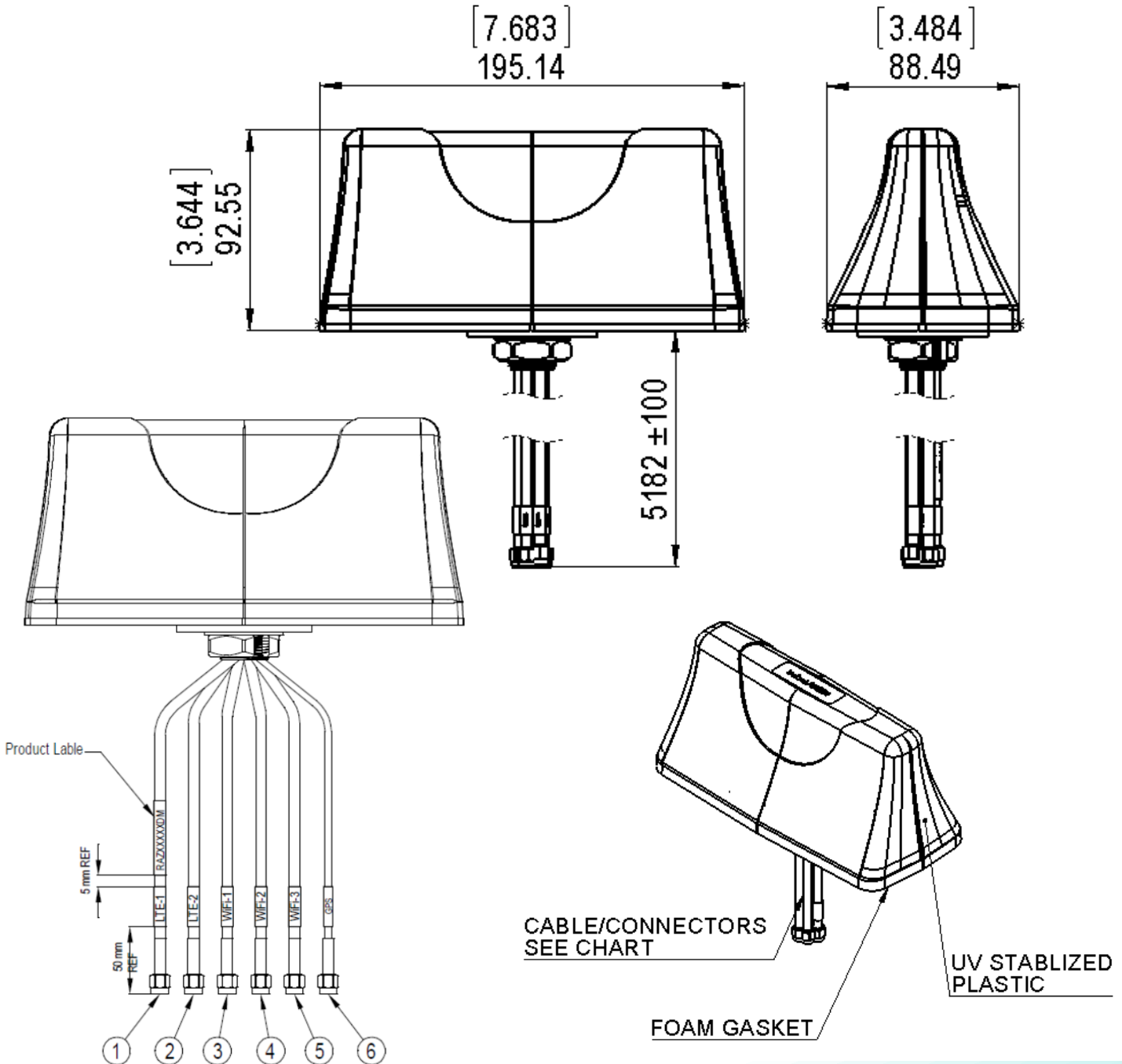
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MECHANICAL DRAWING



All dimensions are in mm / inches

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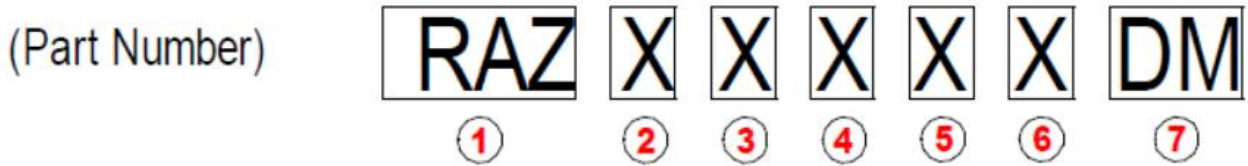
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MECHANICAL DRAWING

Vehicular Multiband Antenna with Direct Mount



①	Product ID: RAZORBACK
②	Total Number of Cable leads
③	Total Number of LTE Cable Leads
④	Total Number of WiFi Cable Leads
⑤	Total Number of GPS Cable Leads
⑥	The Color of the Plastic Housing 1=Black; 2= White
⑦	Mounting: Direct Mount; 7/8" Hole Required

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

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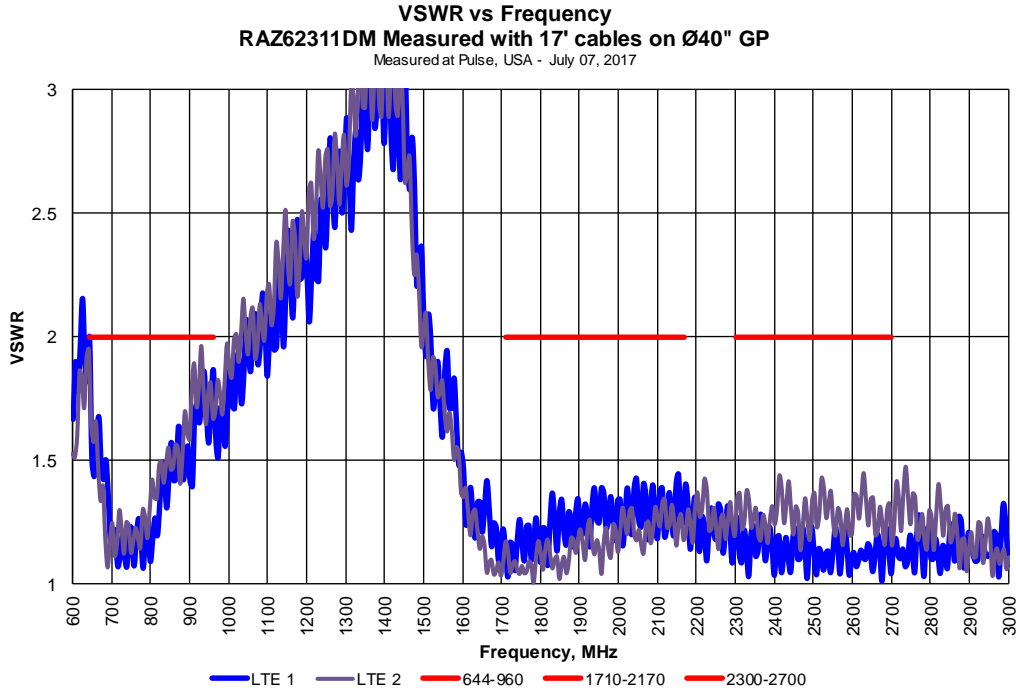
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Direct Mount

Series: RAZORBACK

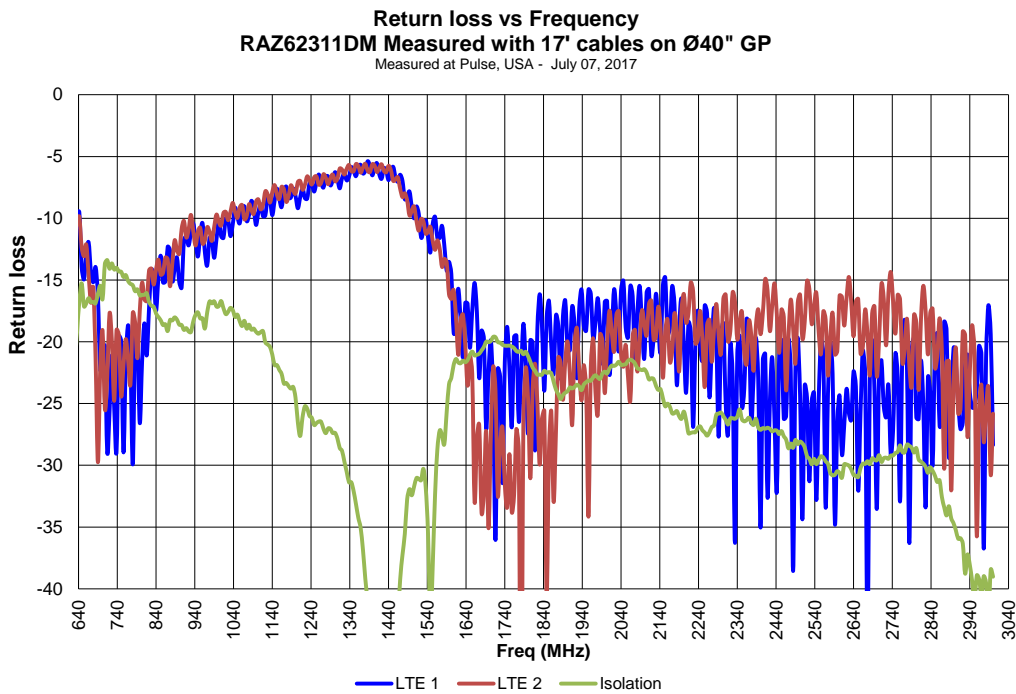
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CHARTS

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



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



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Direct Mount

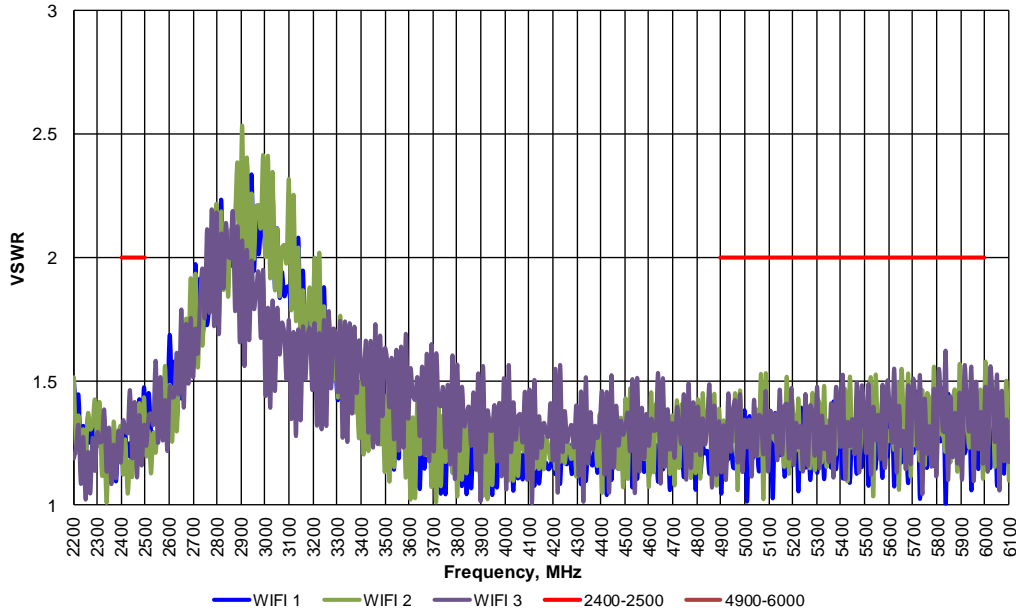
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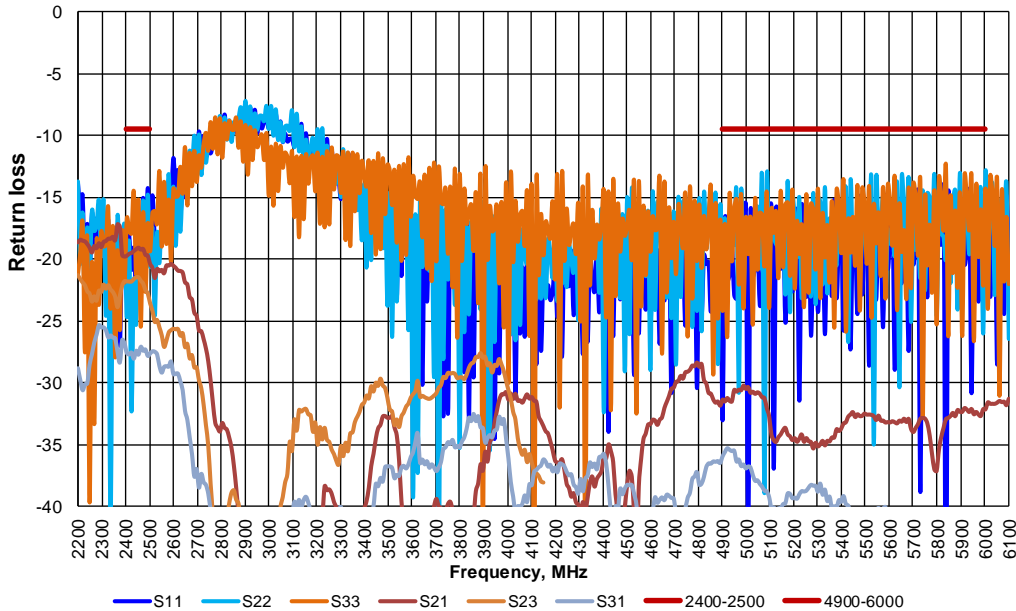
WiFi 1, 2 & 3
Measured with 5.2m
(17') cable

VSWR vs Frequency
RAZ62311DM 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
RAZ62311DM Measured with 17' cables on Ø40" GP (WiFi 1, 2 & 3)
Measured at Pulse, USA - July 07, 2017



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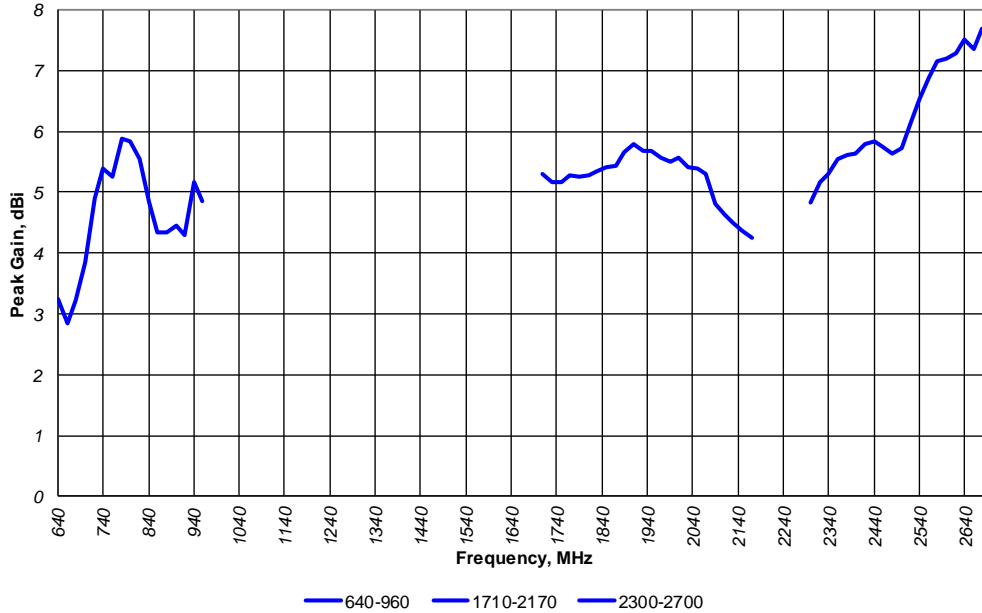
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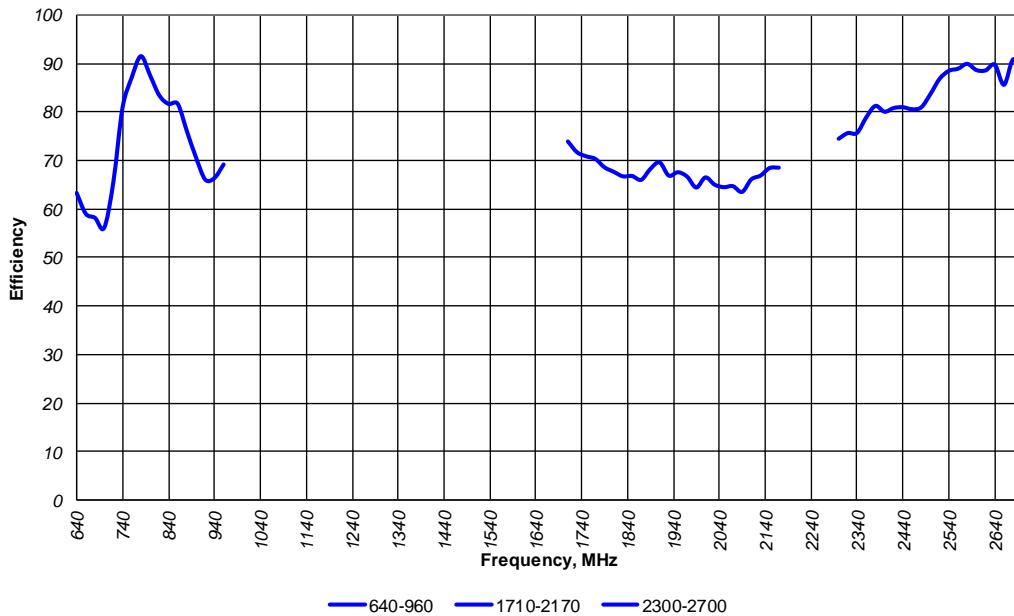
CHARTS

Peak Gain vs Frequency
RAZ62311DM Measured with 4" cables on Ø40" GP (LTE 1)
Measured at Pulse, USA - Aug 04, 2017



LTE 1
Measured with
102mm (4") cable

Efficiency vs Frequency
RAZ62311DM Measured with 4" cables on Ø40" GP (LTE 1)
Measured at Pulse, USA - aUG 04, 2017



LTE 1
Measured with
102mm (4") cable

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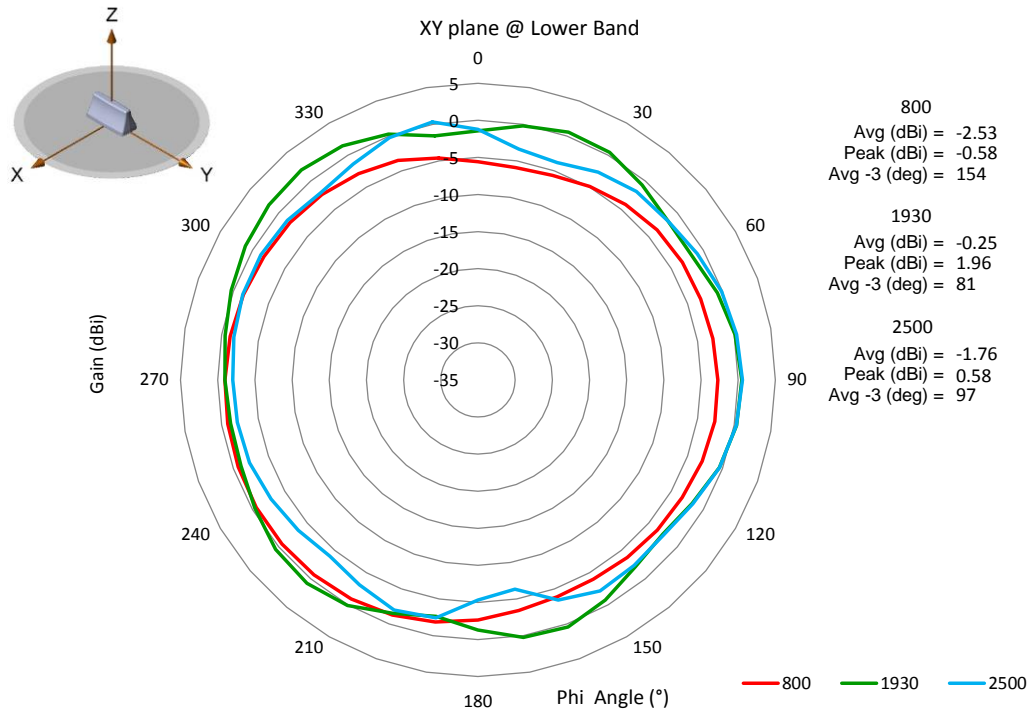
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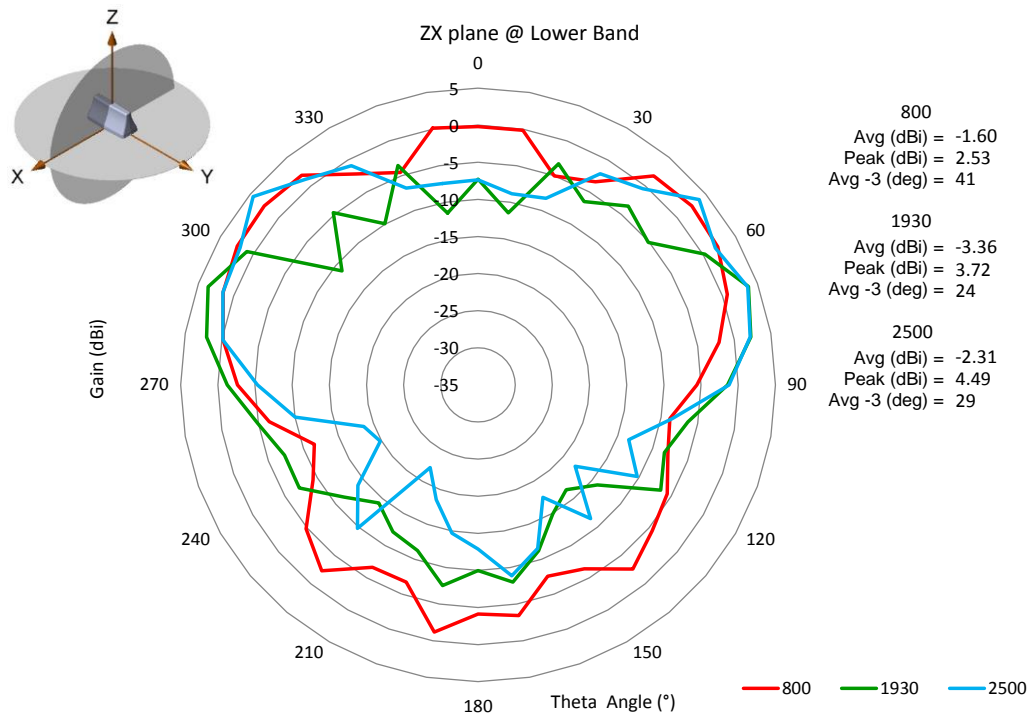


CHARTS

LTE 1
Measured with
102mm (4") cable



LTE 1
Measured with
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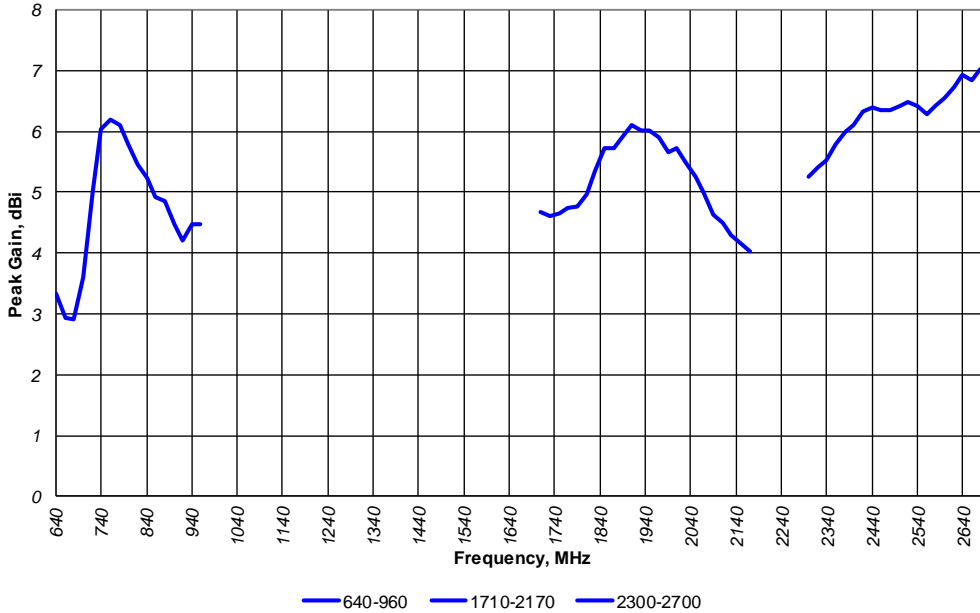
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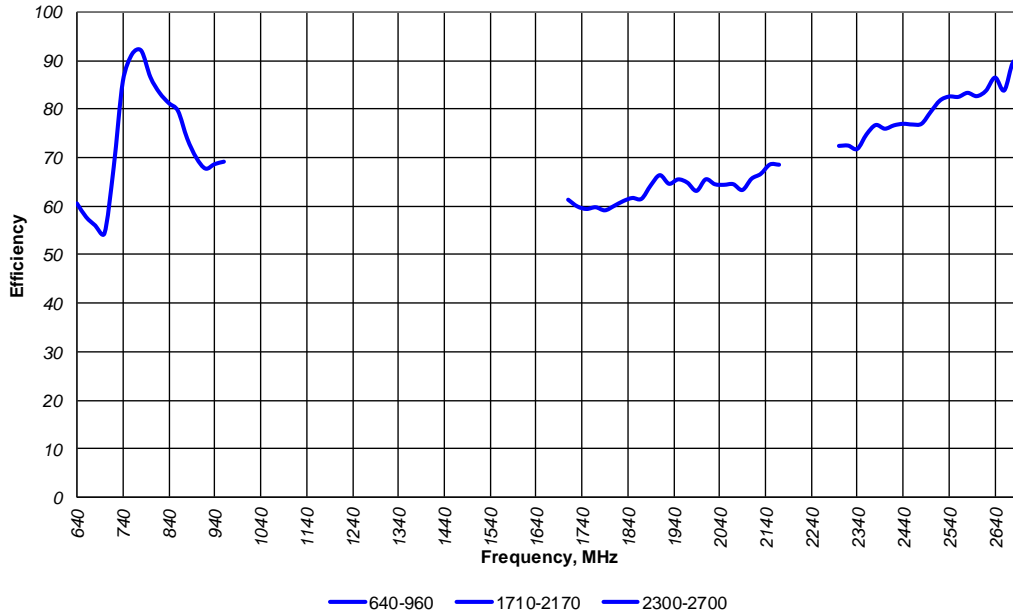
CHARTS

Peak Gain vs Frequency
RAZ62311DM Measured with 4" cables on Ø40" GP (LTE 2)
Measured at Pulse, USA - Aug 04, 2017



LTE 2
Measured with
102mm (4") cable

Efficiency vs Frequency
RAZ62311DM Measured with 4" cables on Ø40" GP (LTE 2)
Measured at Pulse, USA - aUG 04, 2017



LTE 2
Measured with
102mm (4") cable

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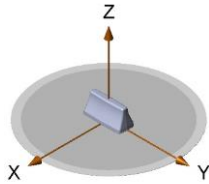
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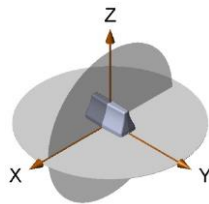
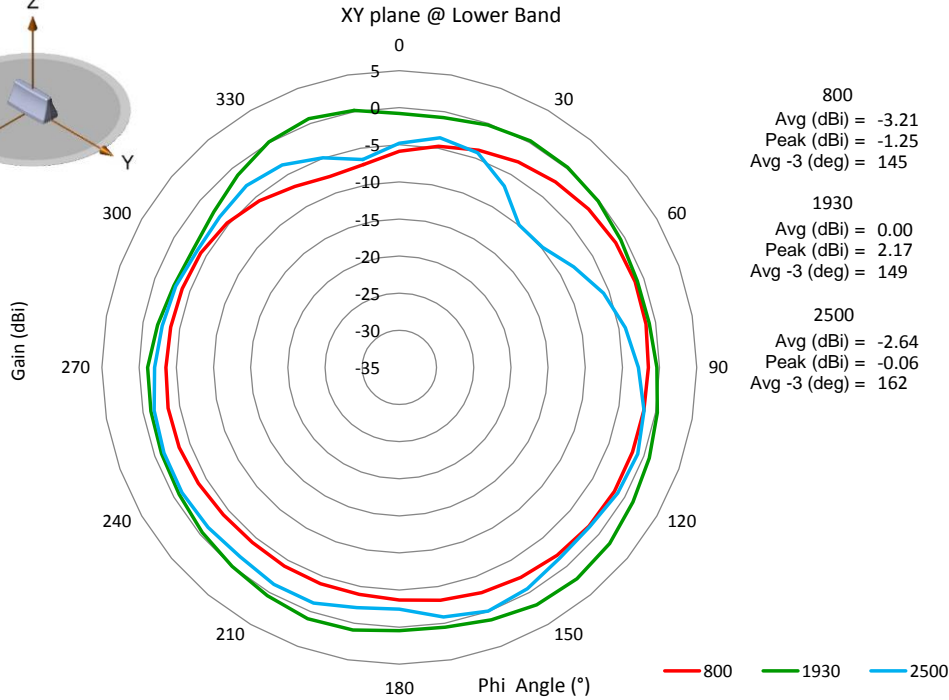
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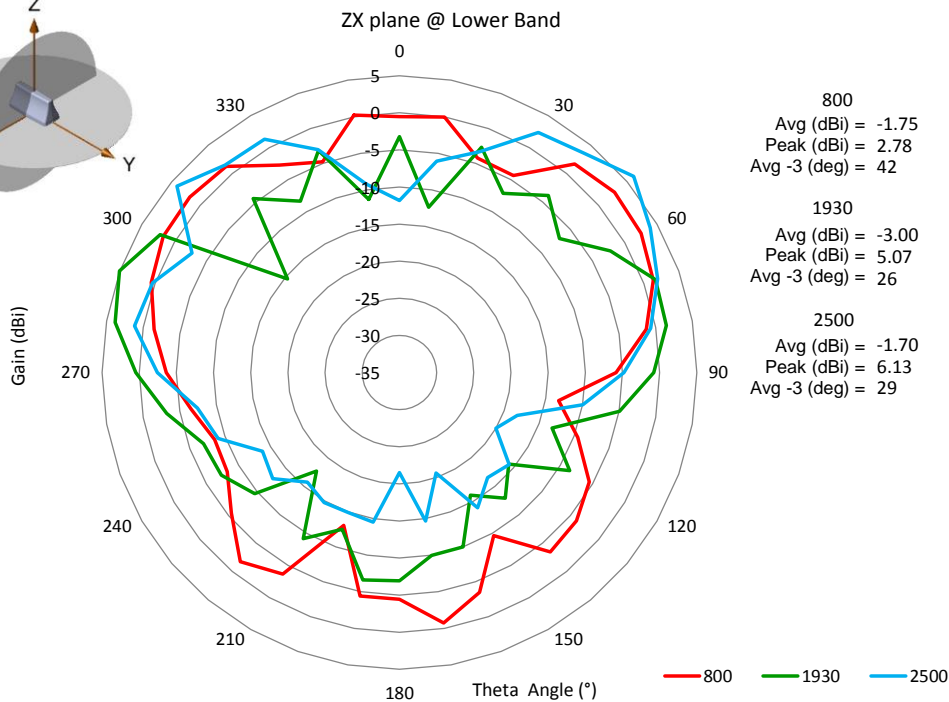
CHARTS



LTE 2
Measured with
102mm (4") cable



LTE 2
Measured with
102mm (4") cable



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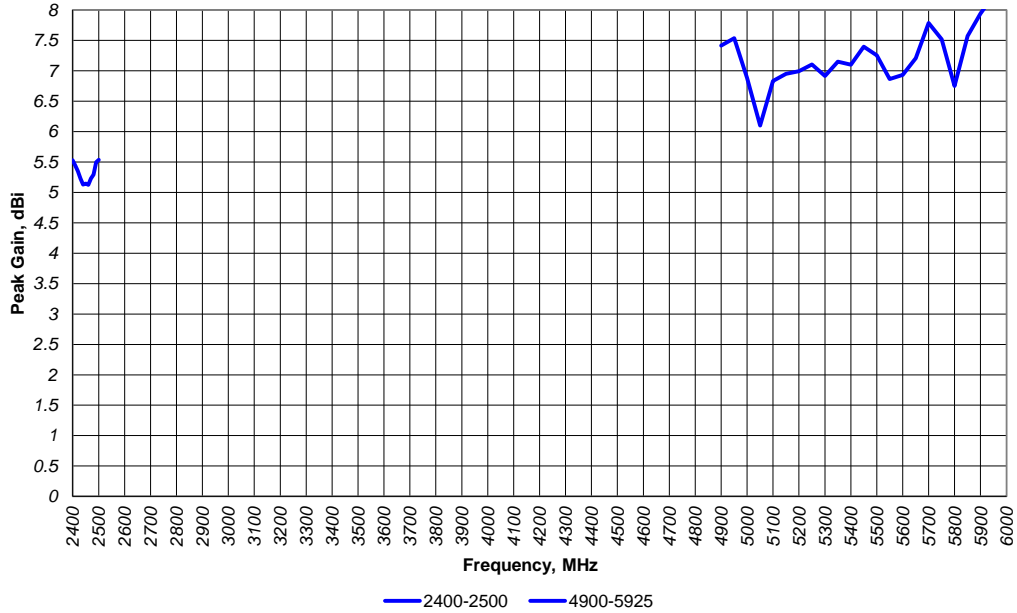
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Direct Mount

Series: RAZORBACK

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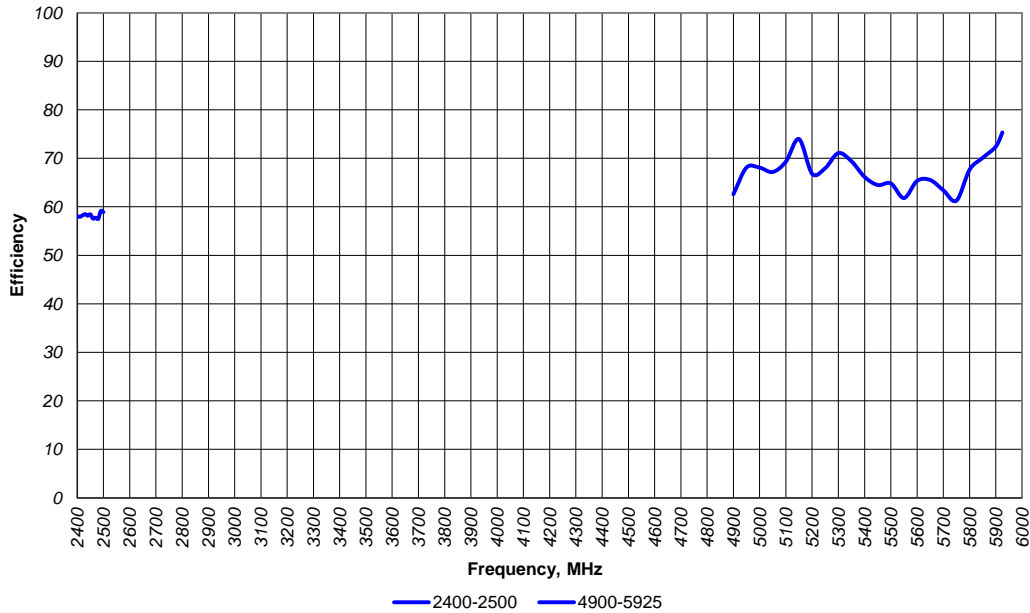
CHARTS

Peak Gain vs Frequency
RAZ62311DM Measured with 4" cables on Ø40" GP (WiFi 1)
Measured at Pulse, USA - Aug 04, 2017



WiFi 1
Measured with
102mm (4") cable

Efficiency vs Frequency
RAZ62311DM Measured with 4" cables on Ø40" GP (WiFi 1)
Measured at Pulse, USA - Aug 04, 2017



WiFi 1
Measured with
102mm (4") cable

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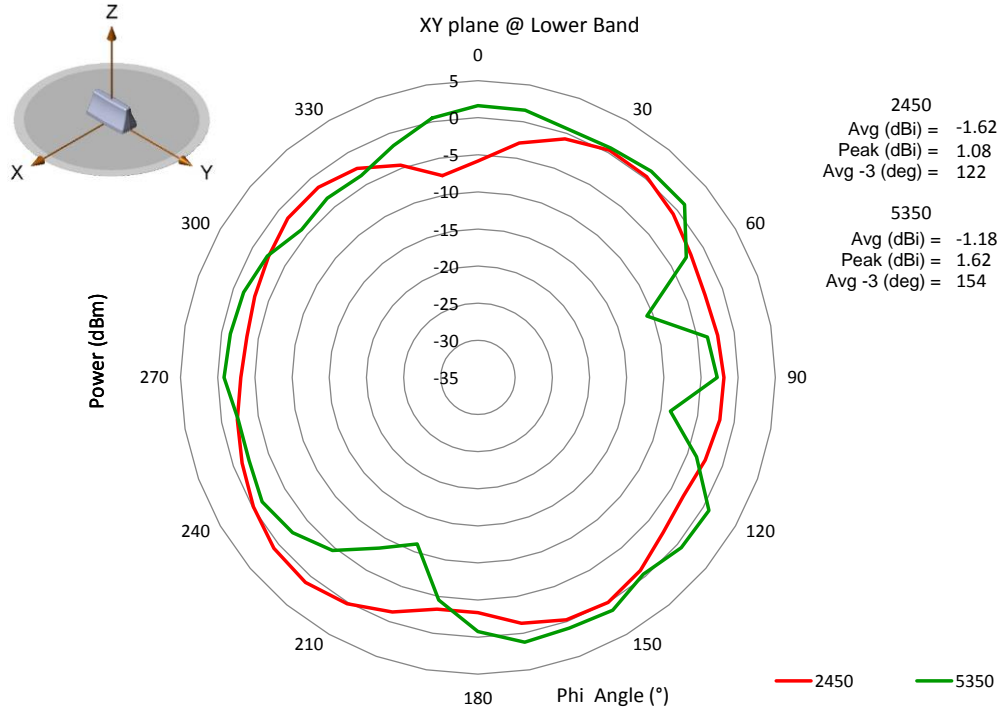
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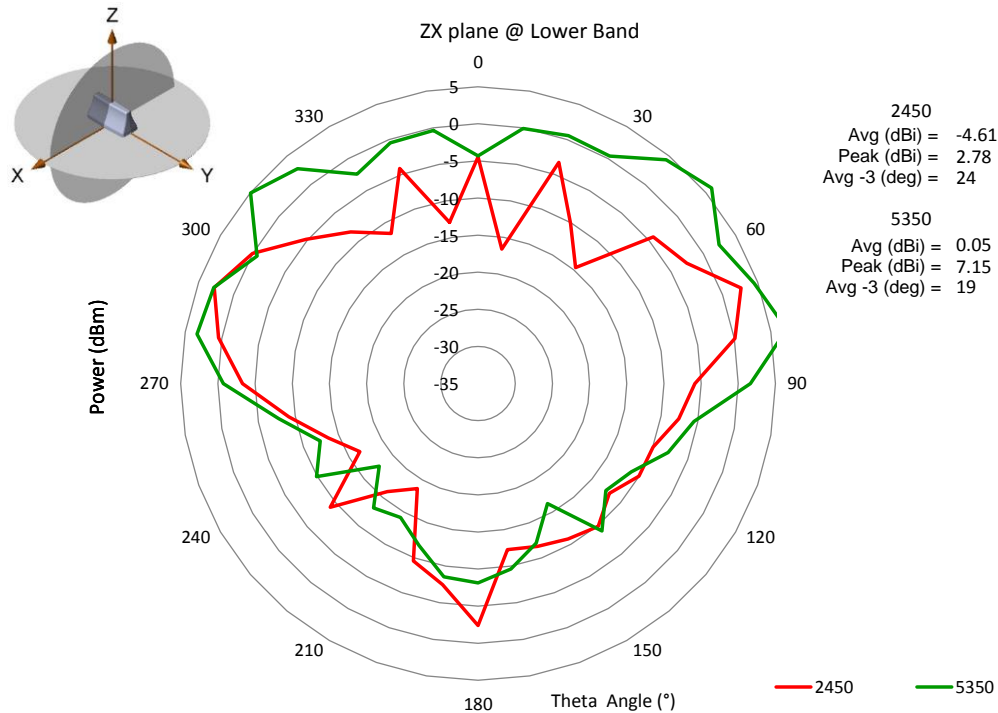
WiFi 1

Measured with 102mm (4") cable



WiFi 1

Measured with 102mm (4") cable



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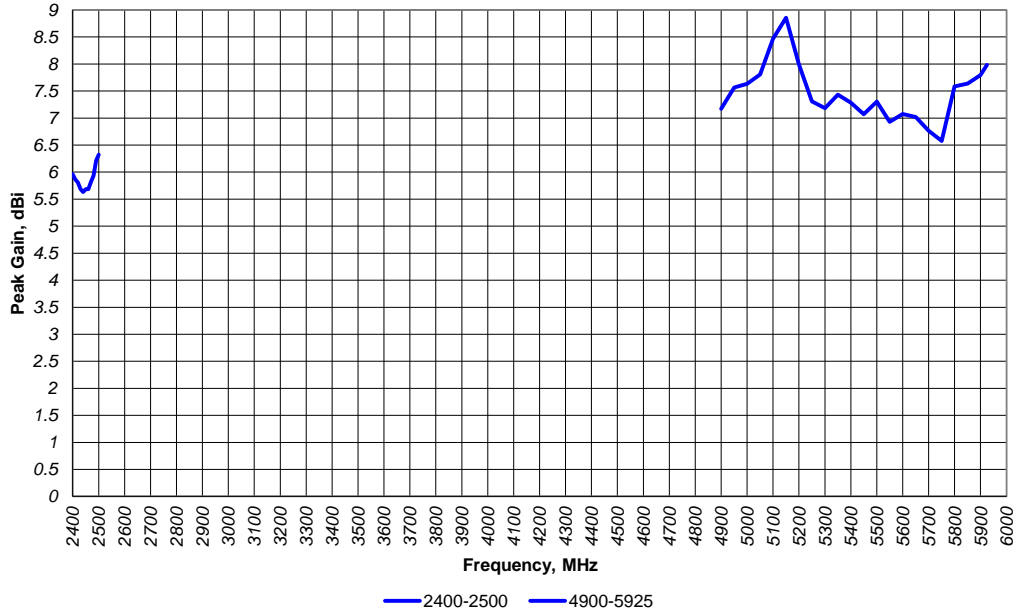
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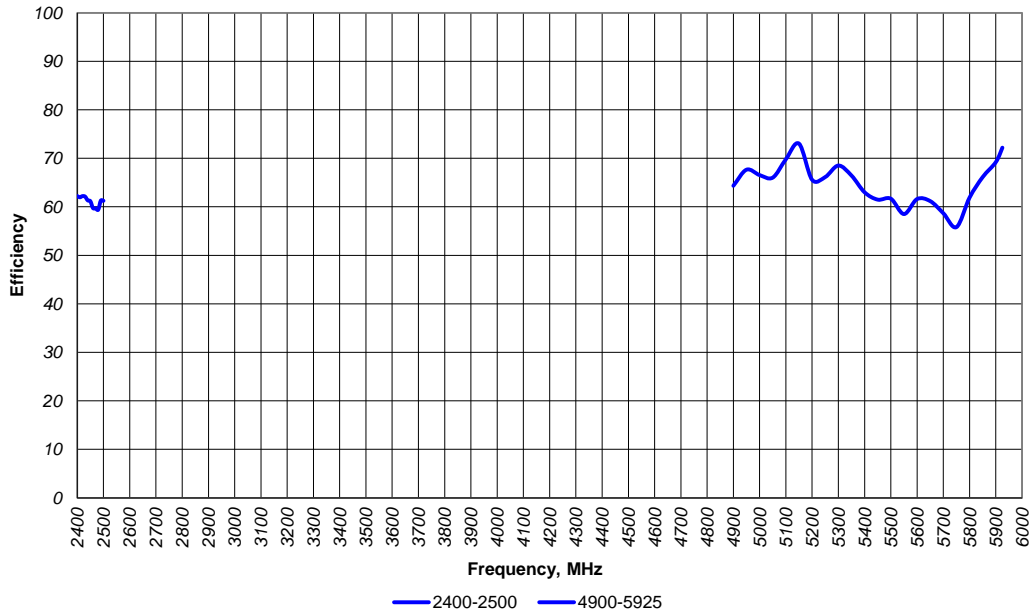
CHARTS

Peak Gain vs Frequency
RAZ62311DM Measured with 4" cables on Ø40" GP (WiFi 2)
Measured at Pulse, USA - Aug 04, 2017



WiFi 2
Measured with
102mm (4") cable

Efficiency vs Frequency
RAZ62311DM Measured with 4" cables on Ø40" GP (WiFi 2)
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WiFi 2
Measured with
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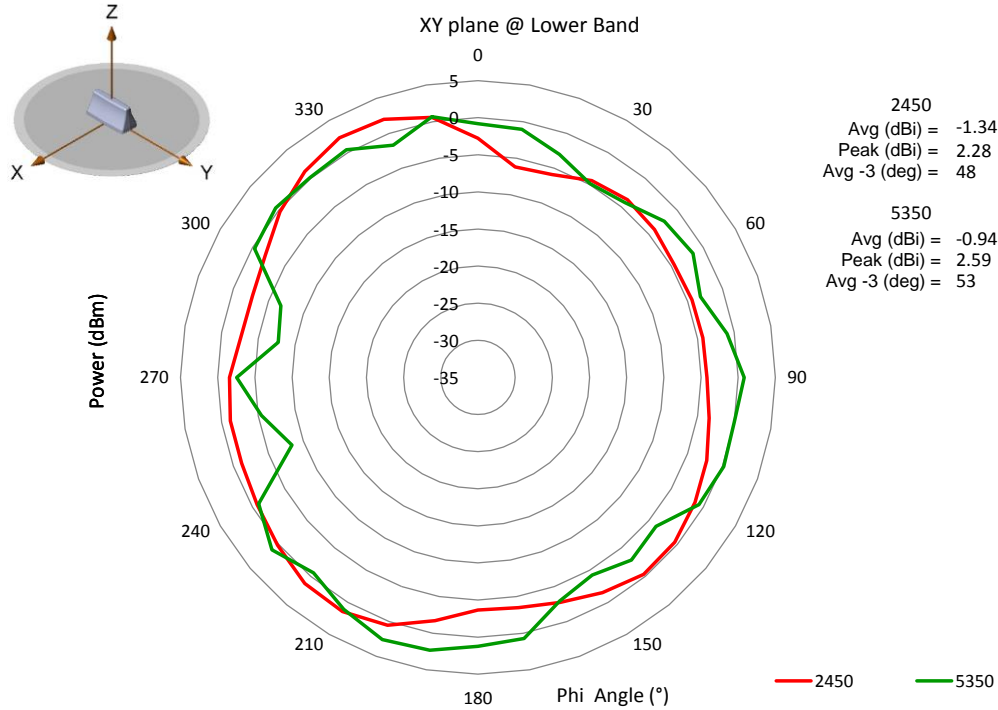
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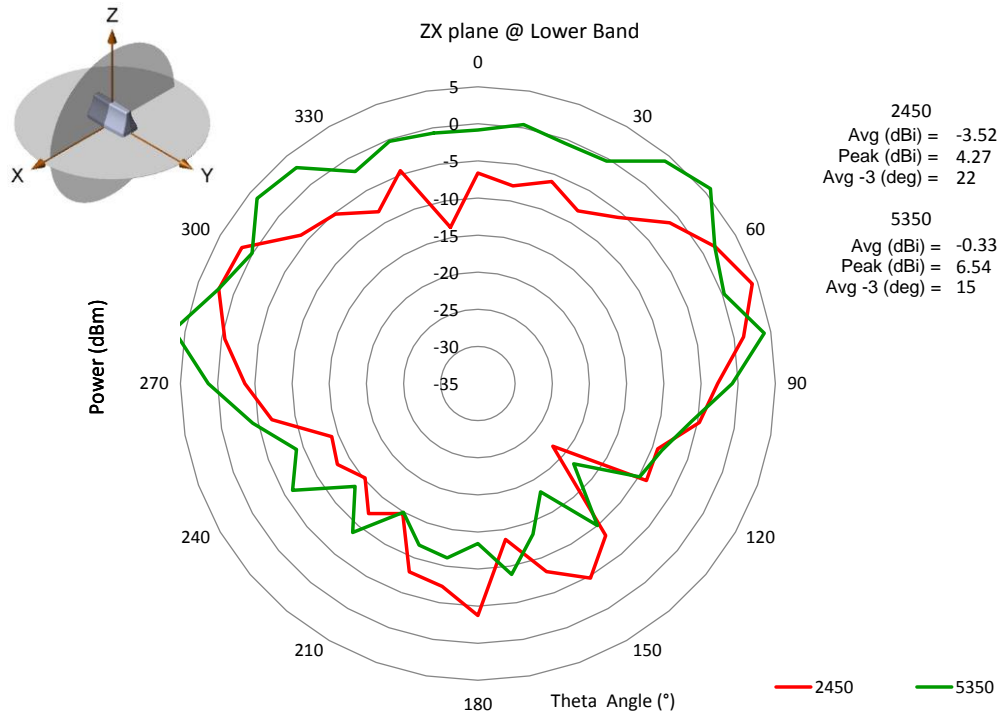
WiFi 2

Measured with 102mm (4") cable



WiFi 2

Measured with 102mm (4") cable



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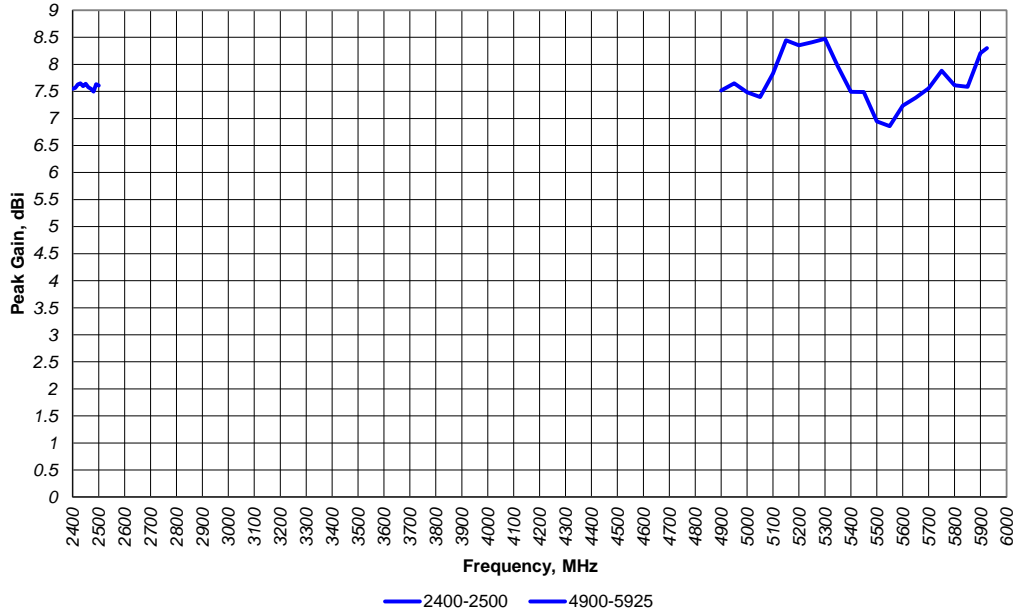
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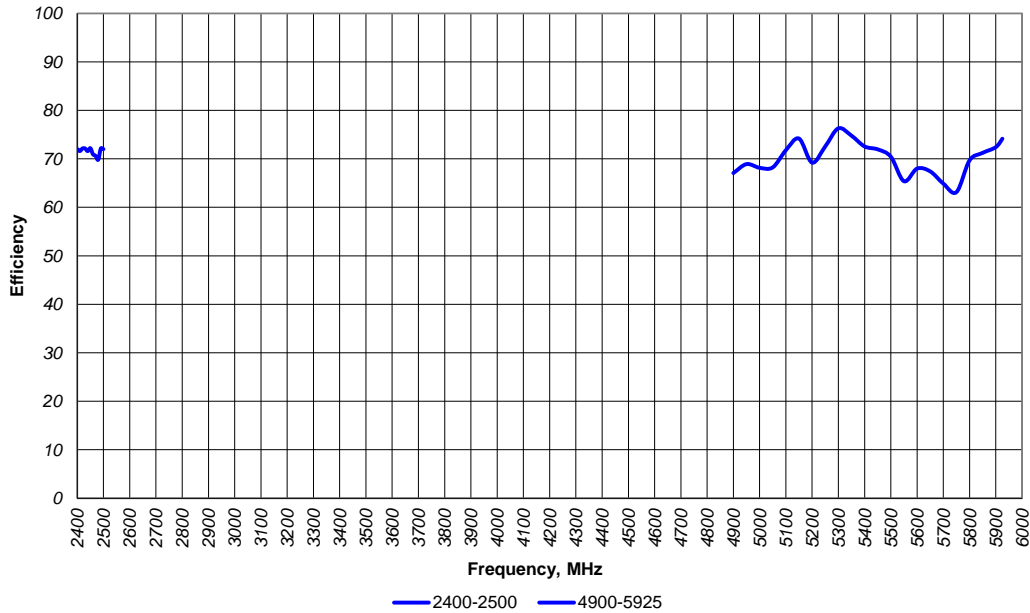
CHARTS

Peak Gain vs Frequency
RAZ62311DM Measured with 4" cables on Ø40" GP (WiFi 3)
Measured at Pulse, USA - Aug 04, 2017



WiFi 3
Measured with
102mm (4") cable

Efficiency vs Frequency
RAZ62311DM Measured with 4" cables on Ø40" GP (WiFi 3)
Measured at Pulse, USA - Aug 04, 2017



WiFi 3
Measured with
102mm (4") cable

Issue: 1827

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

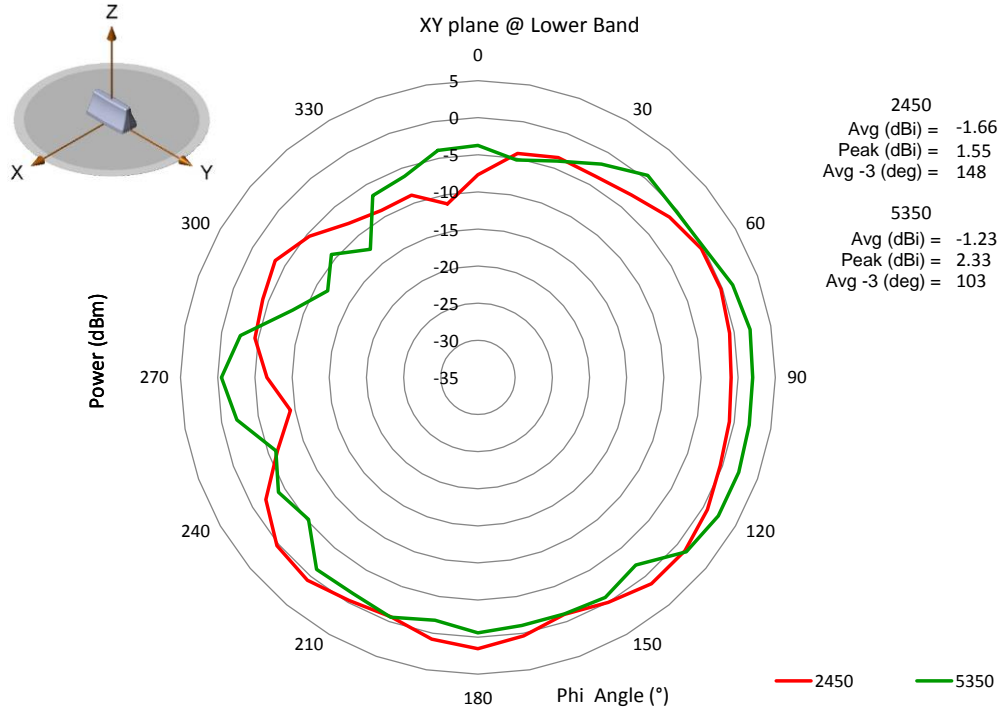
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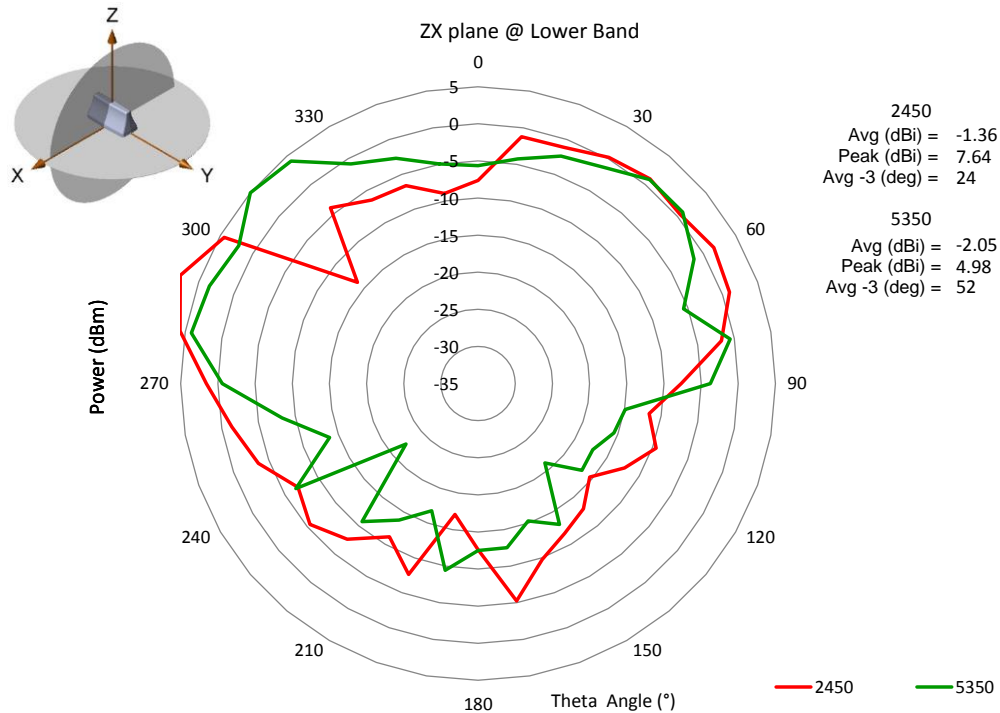


CHARTS

WiFi 3
Measured with
102mm (4") cable



WiFi 3
Measured with
102mm (4") cable



Issue: 1827

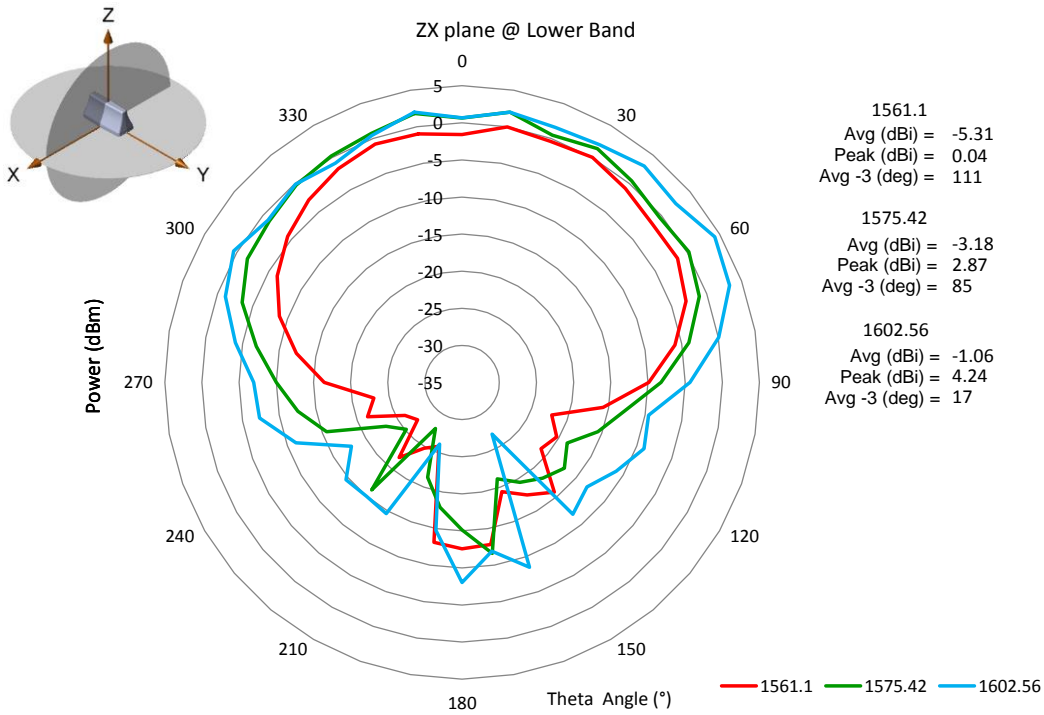
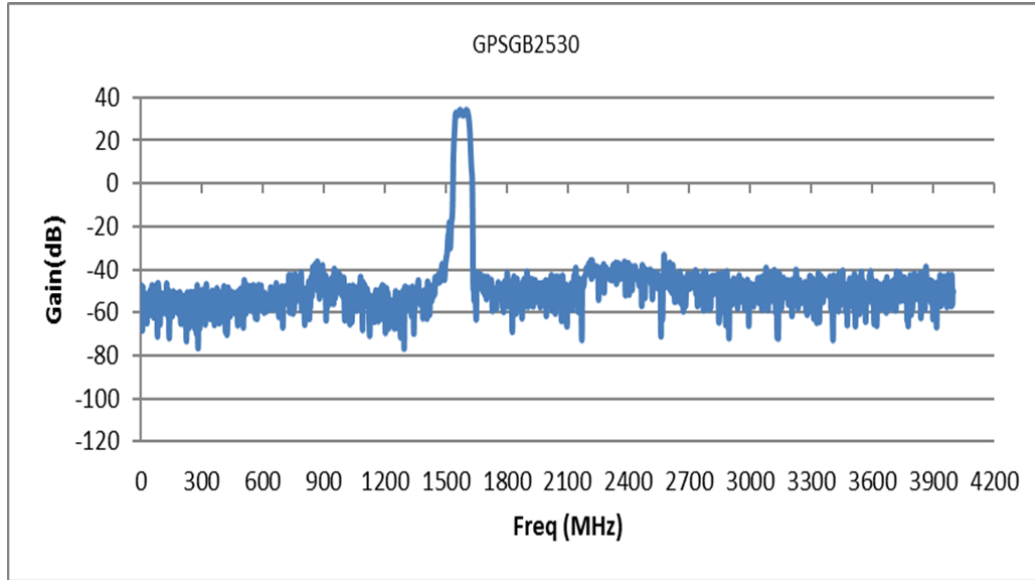
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CHARTS

GNSS LNA Gain and out-of-band rejection



GNSS

Passive Measurement
Measured with 152mm (6") cable

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TECHNICAL DATA SHEET

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

Series: RAZORBACK

PART NUMBER: RAZ32011DM, RAZ32012DM, RAZ42111DM,
RAZ42112DM, RAZ52211DM, RAZ52212DM, RAZ62311DM, RAZ62312DM

PACKAGING

1pcs antennas per foam bag

6pcs antennas per package box

Total 6pcs antenna per package box

Package box: 558mm*386mm*210mm

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