PulseLARSEN Antennas

TECHNICAL DATA SHEET

Series: Jaguar

Description: 2xLTE, WiFi, GNSS Multiband Vehicular Antenna

PART NUMBER: GPSLPMB401



Features:

- 2xMiMo 698-960/1710-2690MHz
- WiFi 2400-2500/4900-5900MHz
- Active GNSS:
  - GPS, Galileo, Glonass, Beidou
  - LNA Gain 30dB
- Size 145x135x25mm
- Adhesive mount on plastic and glass fiber surfaces
- Mounting accessory for metallic surfaces

Applications:

- Vehicle mount multiband antenna
- High Speed LTE data and WiFi
- Tracking, Navigation
- Fleet management
- Utility Vans (Gas, Water, Electricity)

All dimensions are in mm / inches

Issue: 1720

RoHS COMPLIANT

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For more information:

Pulse Worldwide Headquarters
15255 Innovation Drive #100
San Diego, CA 92128
USA
Tel:1-858-674-8100

Pulse/Larsen Antennas
18110 SE 34th St Bldg 2 Suite 250
Vancouver, WA 98683
USA
Tel: 1-360-944-7551

Europe Headquarters
Pulse GmbH & Do, KG
Zeppelinstrasse 15
Herrenberg, Germany
Tel: 49 7032 7806 0

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

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ELECTRICAL SPECIFICATIONS

LTE		
Frequency	698-960/1710-2690	MHz
Nominal Impedance	50	Ω
VSWR	2.2	Max
Average Efficiency(698-960MHz)	72	%
Average Efficiency(1710-2690MHz)	68	%
Peak Gain (698-960MHz)	4.4	dBi
Peak Gain (1710-2690MHz)	5.4	dBi
WIFI		
Frequency	2400-2500/4900-5900	MHz
Nominal Impedance	50	Ω
VSWR @2400-2500MHz	4	Max
VSWR @4900-5900MHz	3	Max
Average Efficiency(2400-2500MHz)	46	%
Average Efficiency(4900-5900MHz)	64	%
Peak Gain (2400-2500MHz)	4.5	dBi
Peak Gain (4900-5900MHz)	6.7	dBi

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ELECTRICAL SPECIFICATIONS

GPS			
Frequency	1561.098±2.046/ 1575.42±1.023/ 1602.5625±4		MHz
Nominal Impedance		50	Ω
VSWR		2:1	
Gain (Radiating element)		1 dBic +/- 1 dB	
Gain (LNA gain) 30 dB +/- 2 dB			
Polarization		RHCP	
Out of Band Rejection			
		698 MHz >70 dB	
		960MHz >65 dB	
		1710MHz >60 dB	
		2170MHz >65 dB	
		2400MHz >65 dB	
Noise Figure		<2.4	dB
Operating Voltage		3.3-5	Vdc±0.5V
Current Consumption		<11	mA

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Description: 2xLTE, WiFi, GNSS Multiband Vehicular Antenna

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ELECTRICAL SPECIFICATIONS

Cable and Connector type

Item	GPSLPMB403 RF Cables	Cable Type	Cable Length	Connector
1	LTE-1	LMR195	3 meters [118.11"]	SMA Male
2	WiFi	LMR195		RP-SMA Male
3	GPS	LMR100		SMA Male
4	LTE-2	LMR195		SMA Male

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MECHANICAL SPECIFICATIONS

Plastic radome	SABIC PC943
Color	Black
Ingress Protection	IP67
Weight	400 g
Cable retention: Pull off	30N mini
Fixing system	3M VHB4959 （T=3mm）

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40 ~ +85 ° C

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PulseLARSEN Antennas

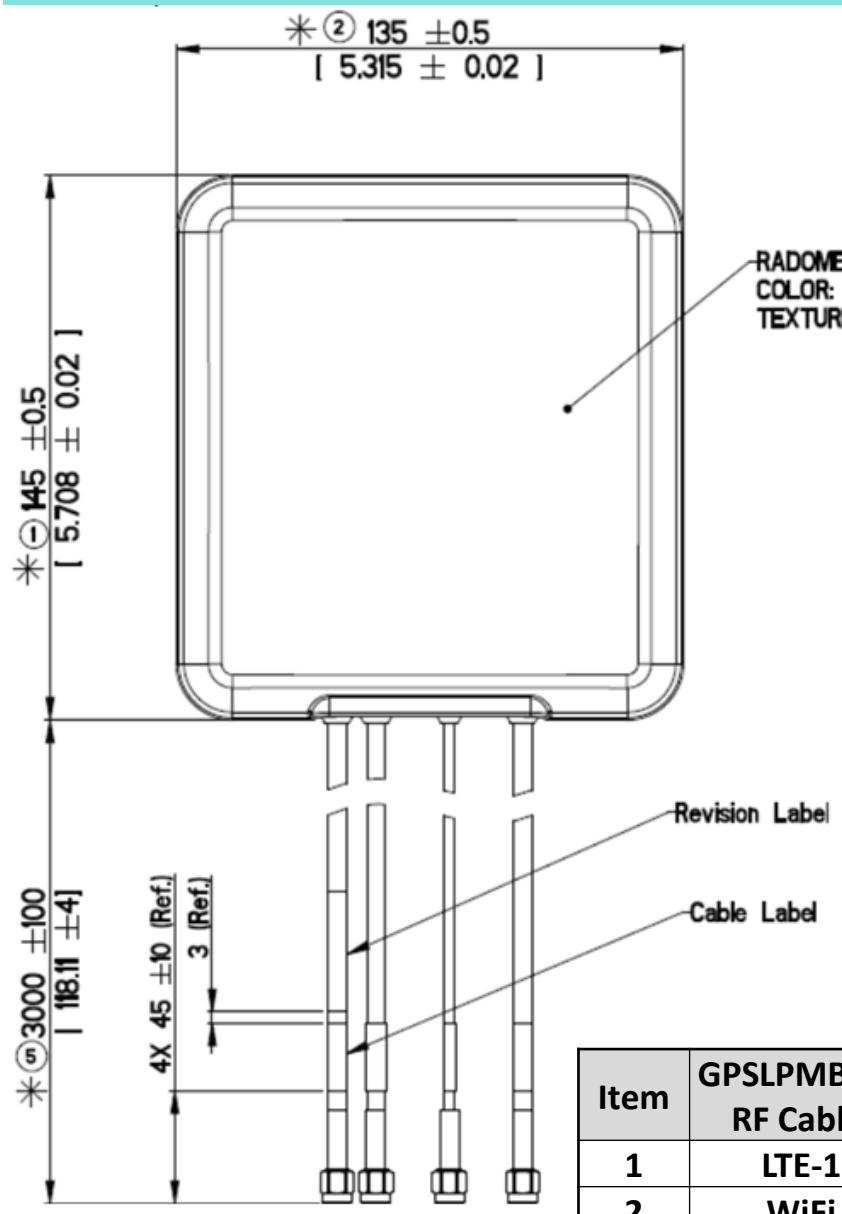
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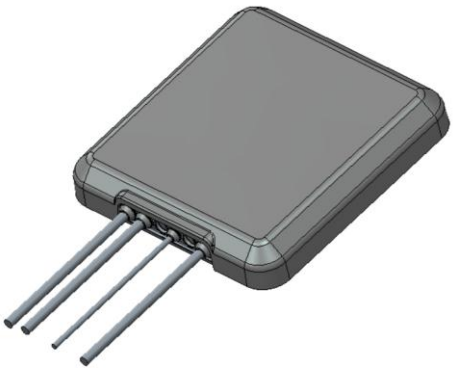
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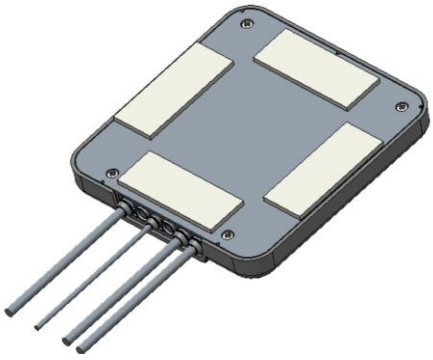
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MECHANICAL DRAWING







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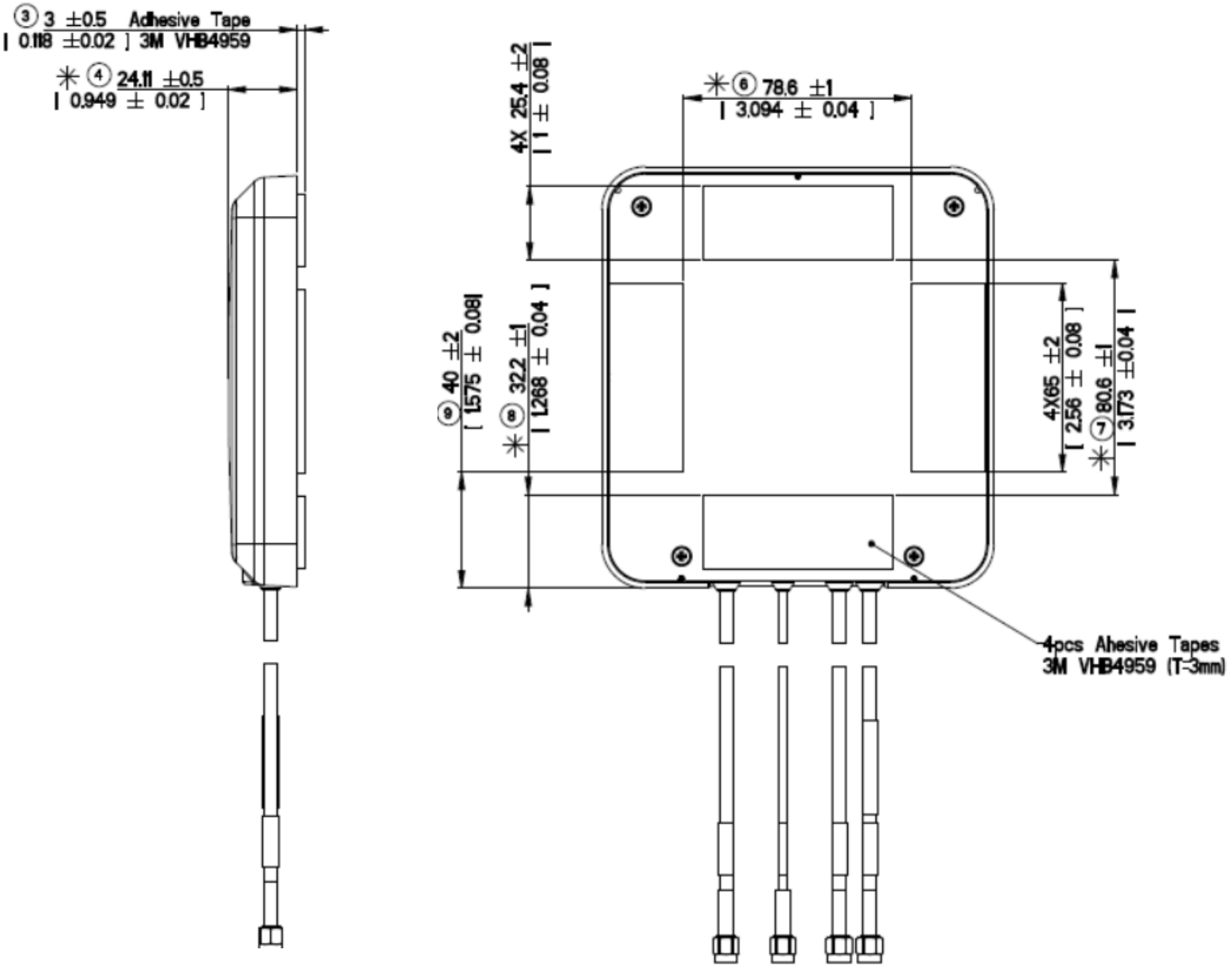
RoHS COMPLIANT

Series: Jaguar

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MECHANICAL DRAWING



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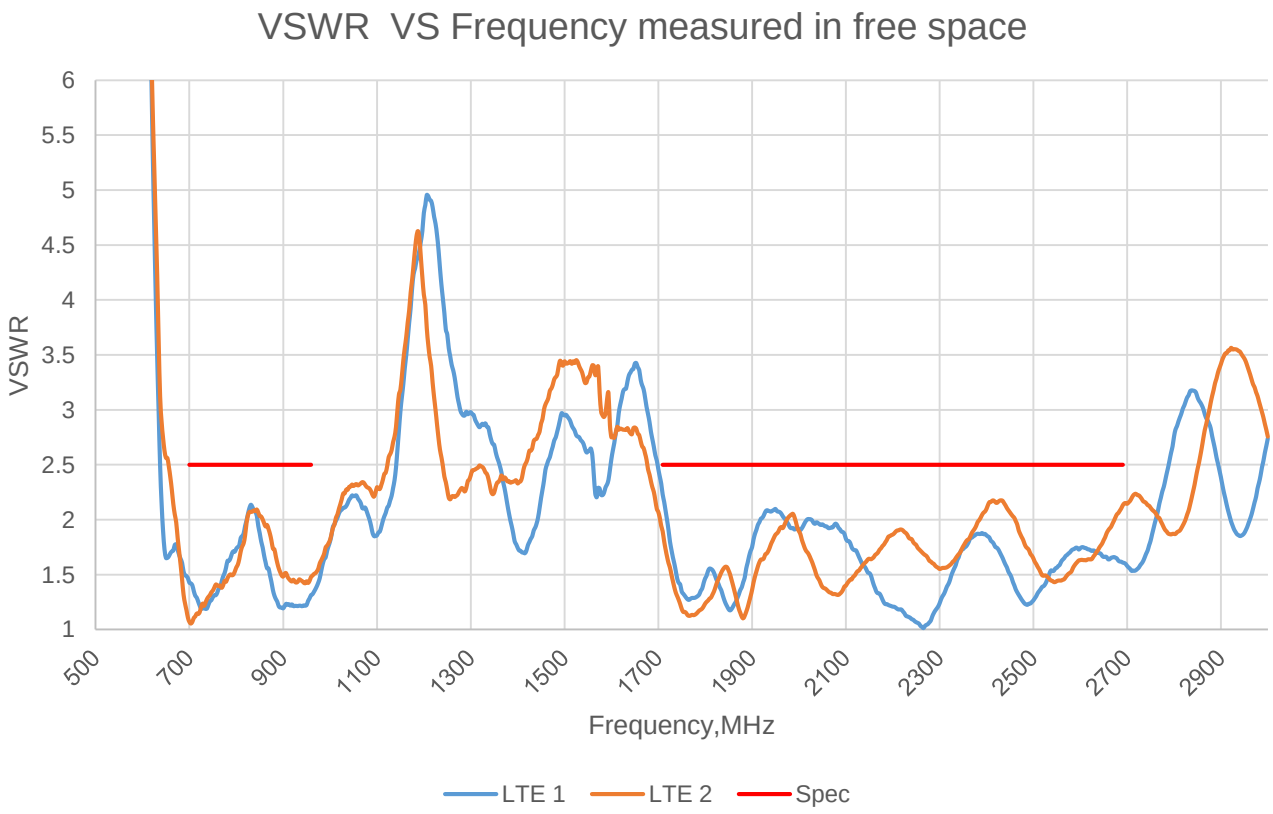
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CHARTS

LTE 1 and LTE2 VSWR



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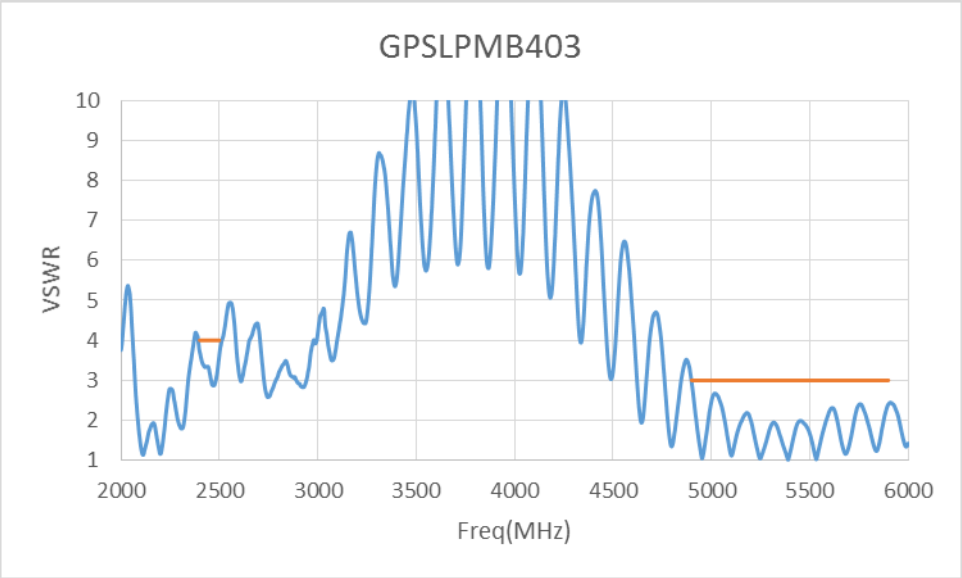
Series: Jaguar

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CHARTS

WiFi VSWR*



* Test on bracket and diameter is 500mm ground plane

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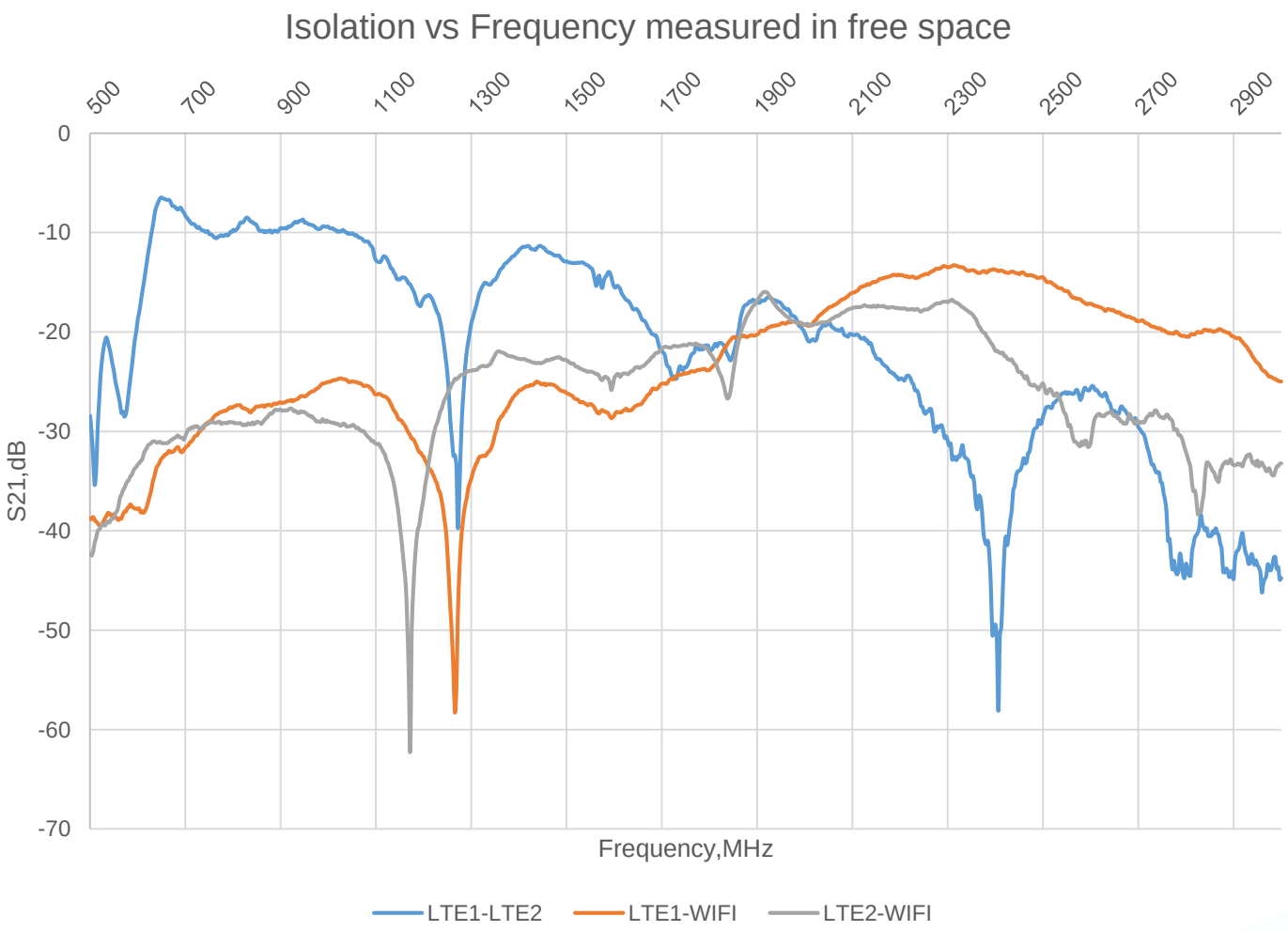
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CHARTS

Isolation



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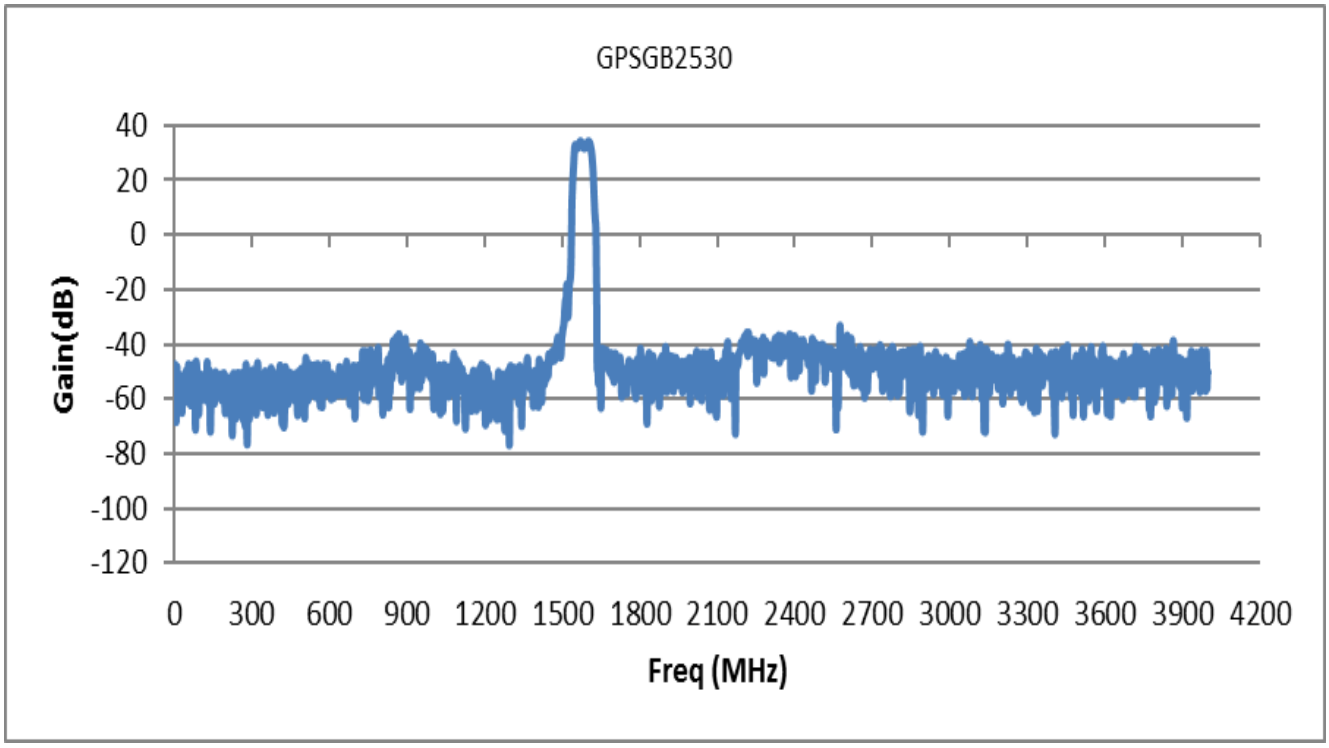
Description: 2xLTE, WiFi, GNSS Multiband Vehicular Antenna

Series: Jaguar

PART NUMBER: GPSLPMB401

CHARTS

GPS LNA Gain and out-of-band rejection



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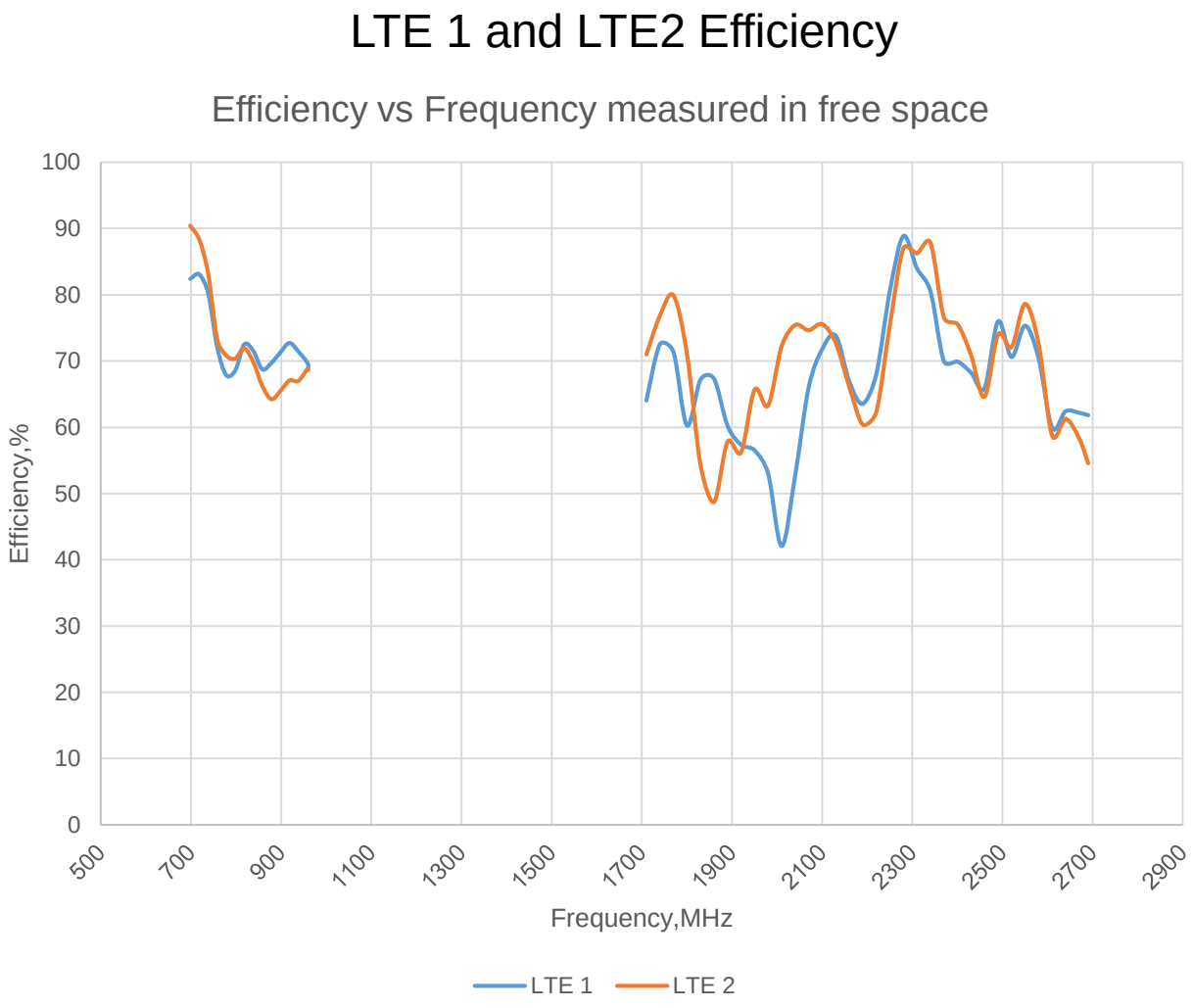
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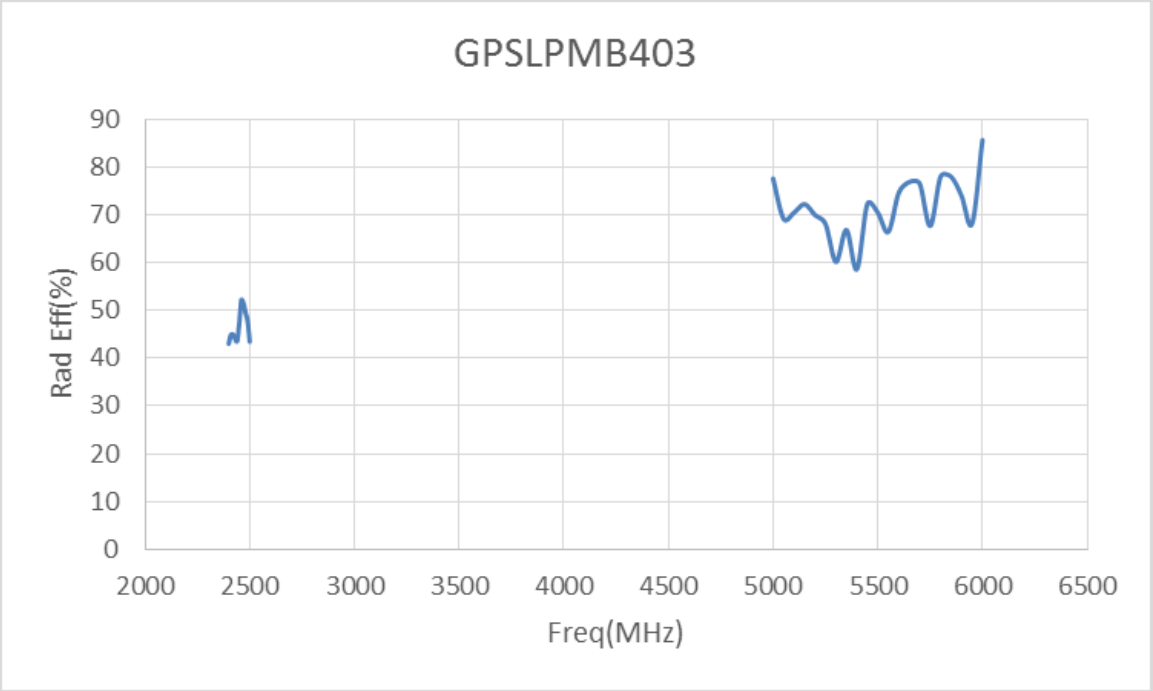
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CHARTS

WiFi Efficiency*



* Test on bracket and diameter is 500mm ground plane

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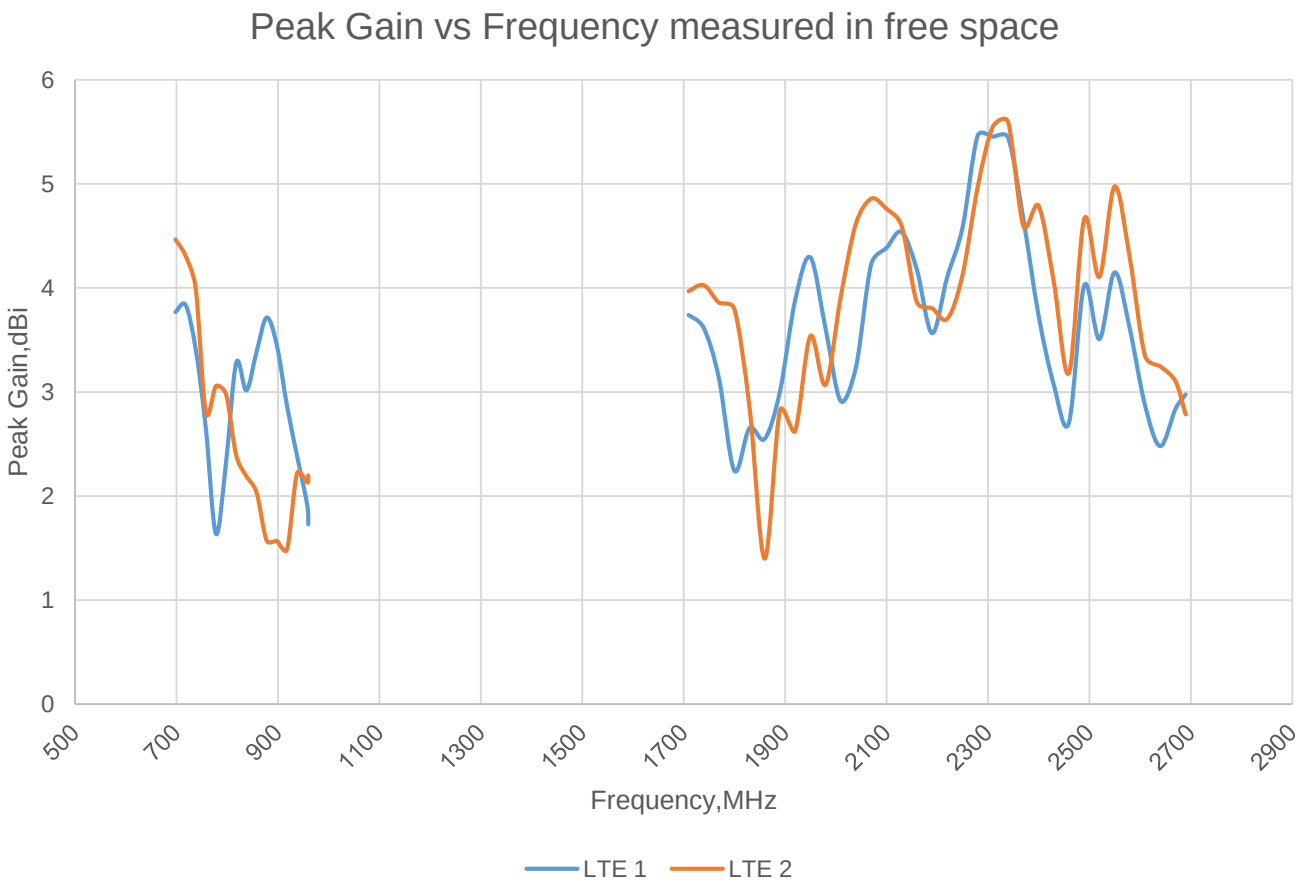
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CHARTS

LTE1 and LTE2 Peak Gain



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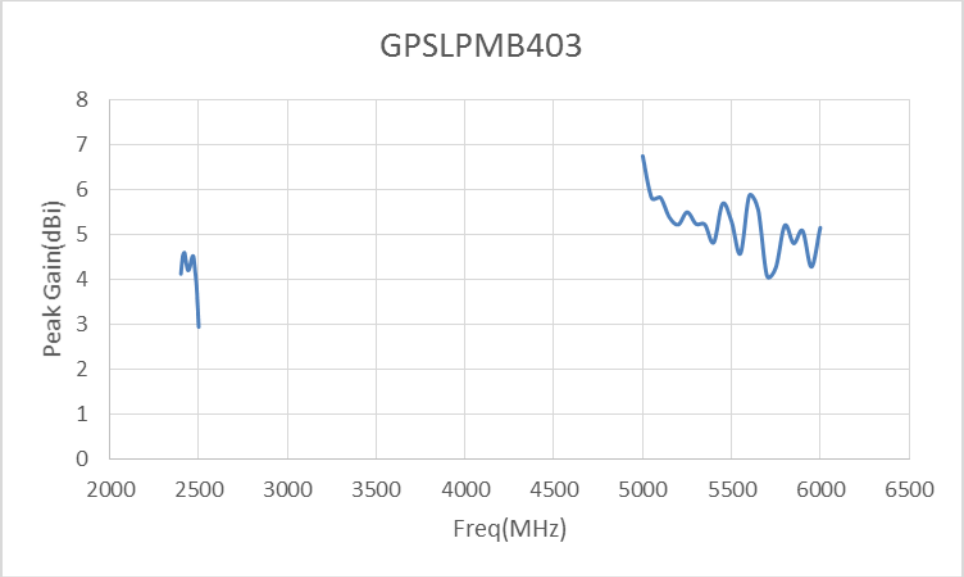
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CHARTS

WiFi Peak Gain*



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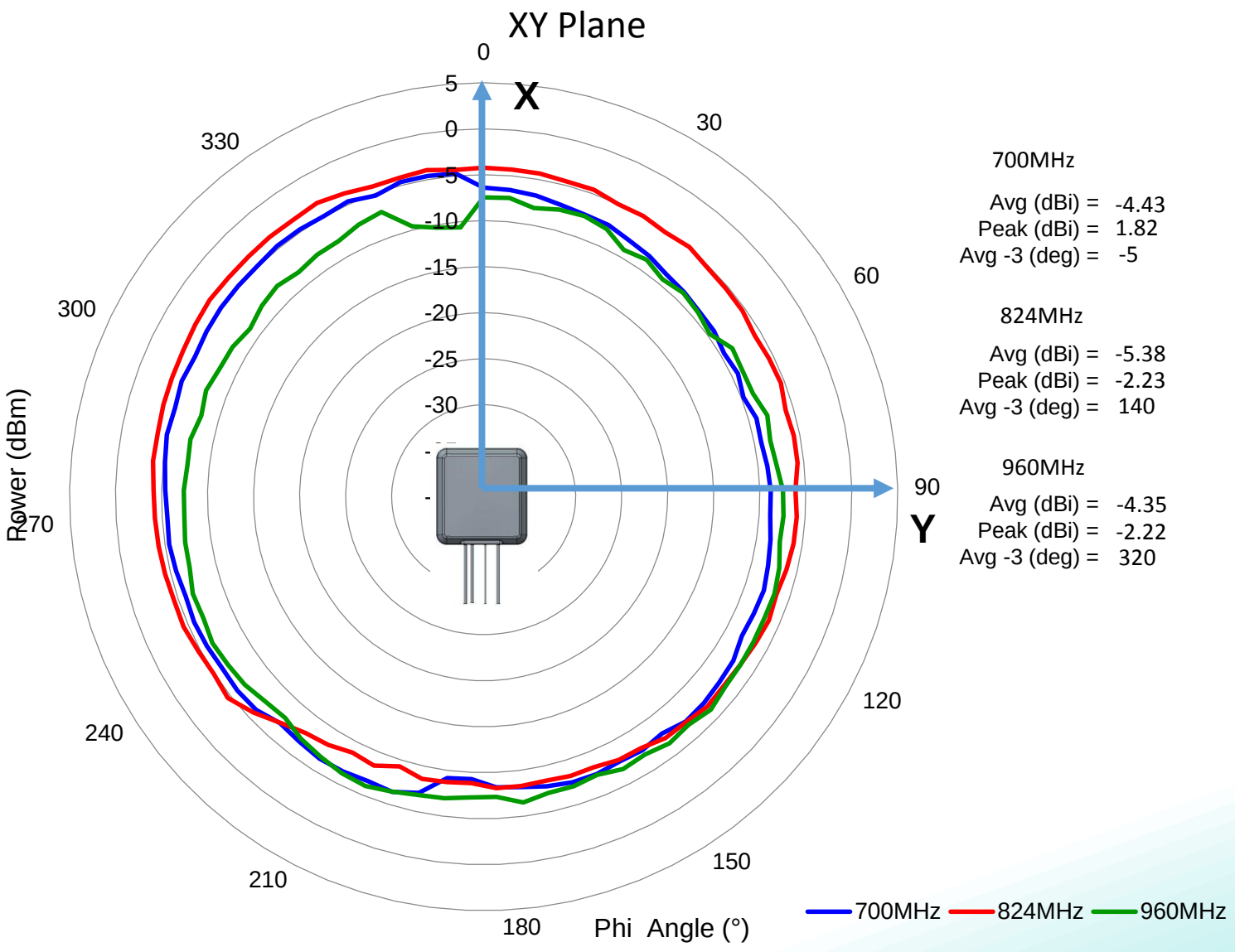
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CHARTS

Gain Plots LTE1



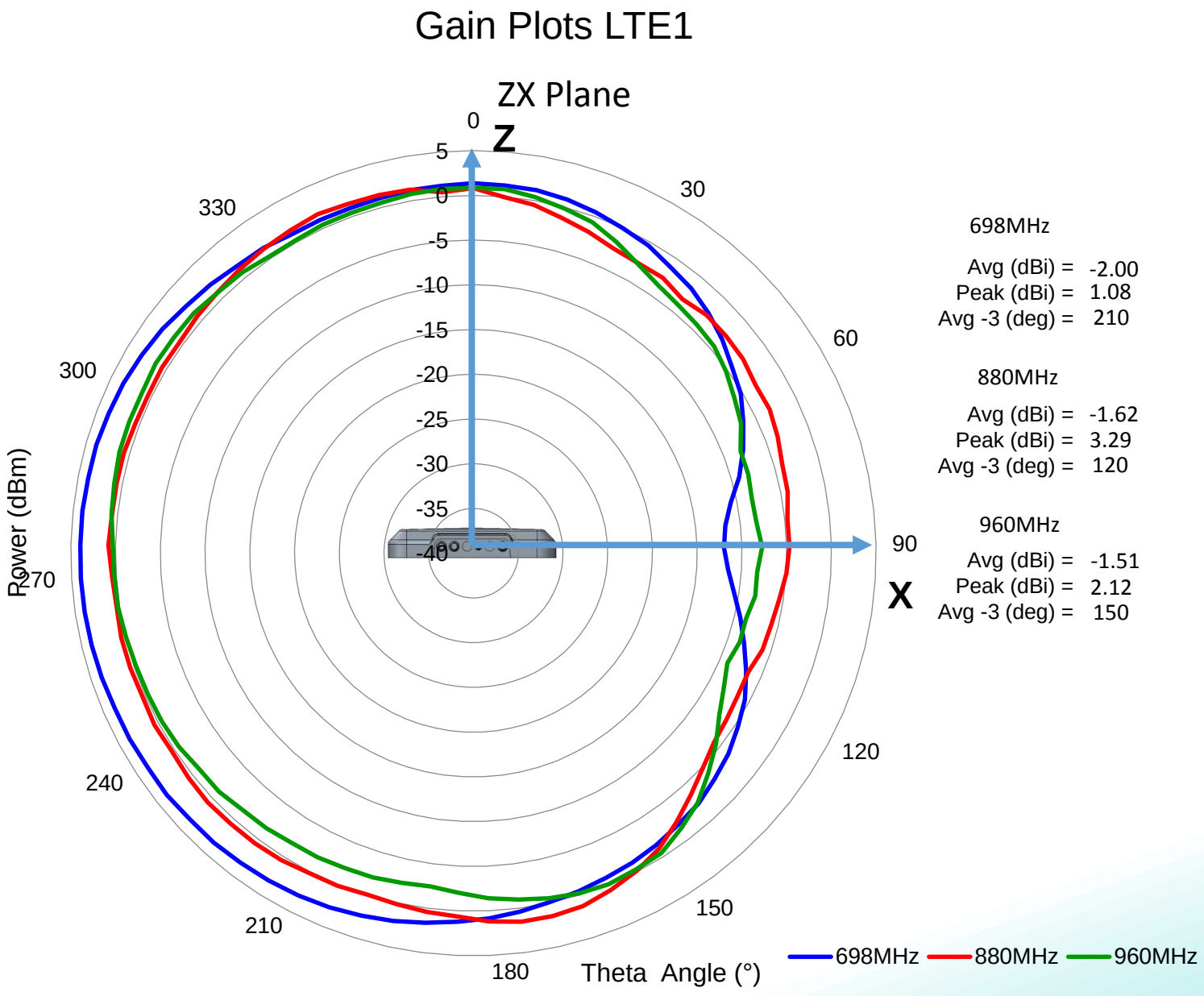
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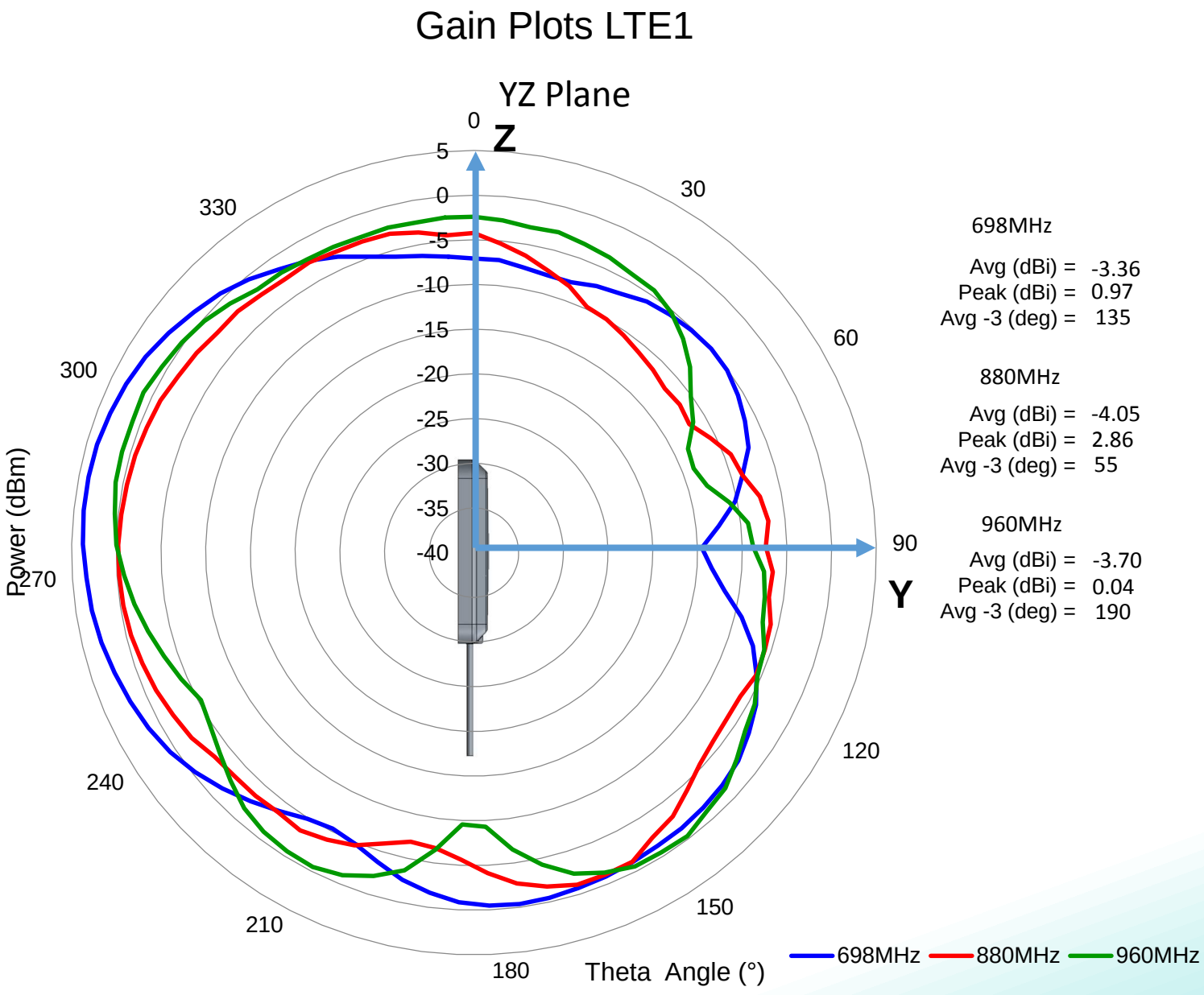
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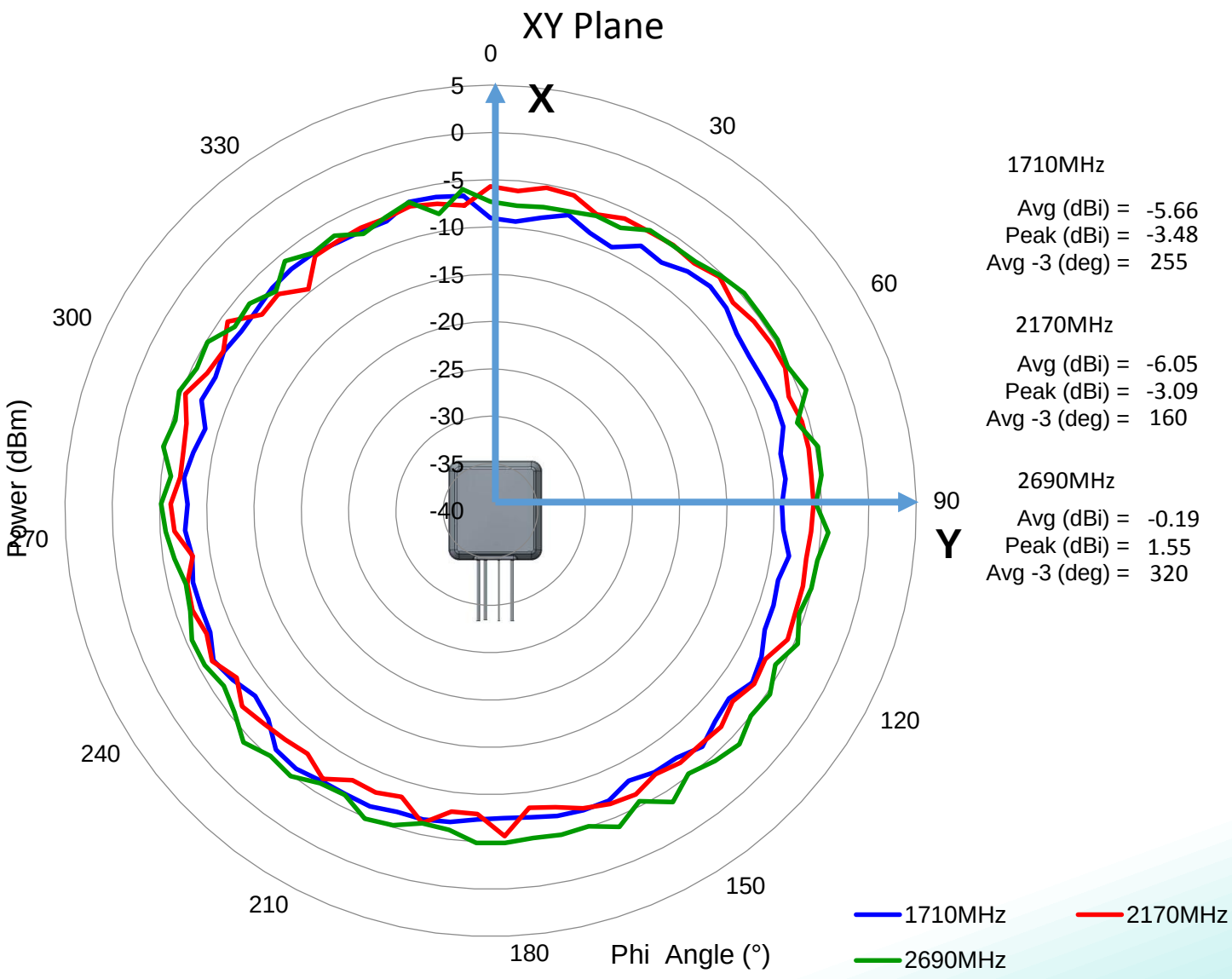
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CHARTS

Gain Plots LTE1



1710MHz

Avg (dBi) = -5.66
Peak (dBi) = -3.48
Avg -3 (deg) = 255

2170MHz

Avg (dBi) = -6.05
Peak (dBi) = -3.09
Avg -3 (deg) = 160

2690MHz

Avg (dBi) = -0.19
Peak (dBi) = 1.55
Avg -3 (deg) = 320

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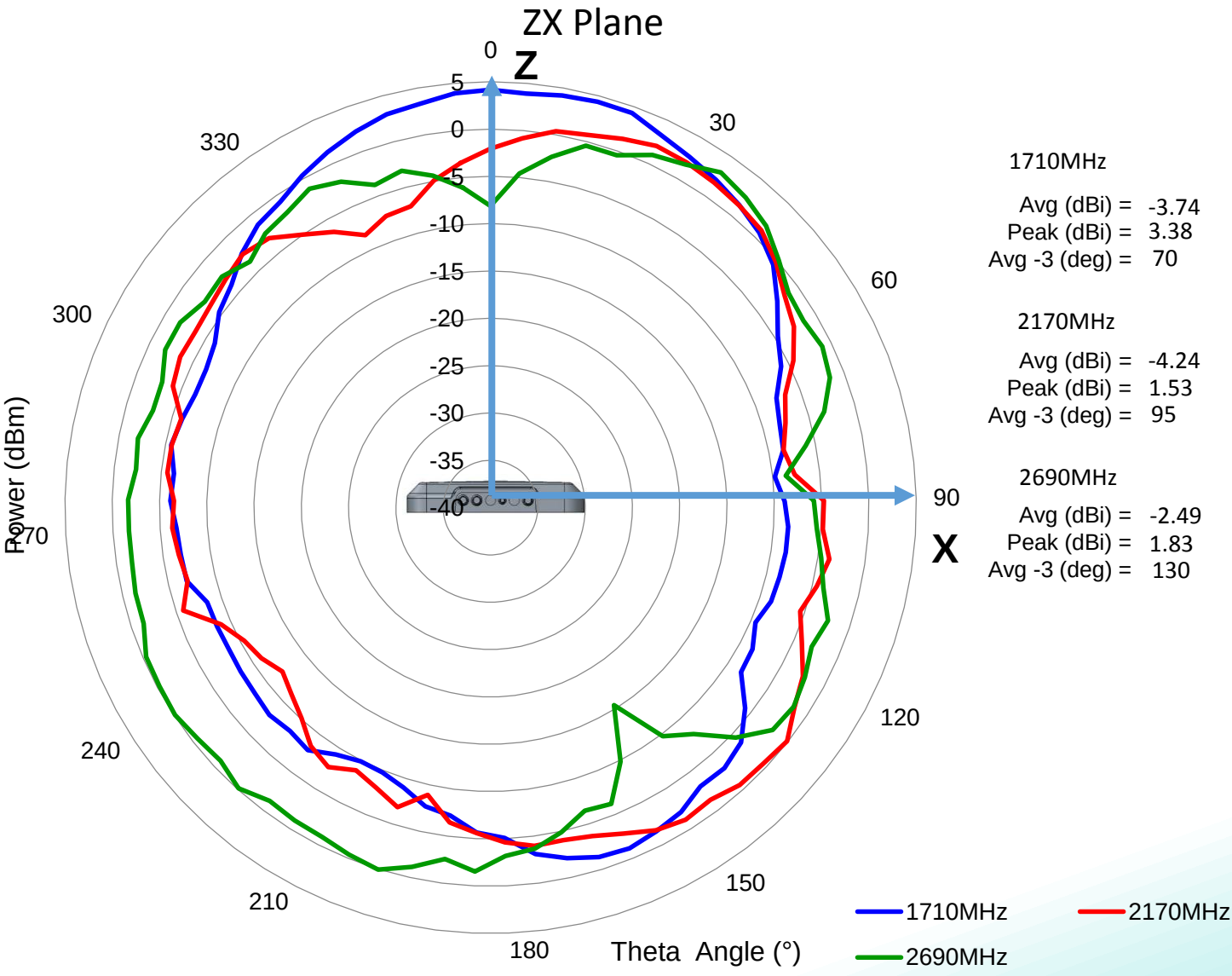
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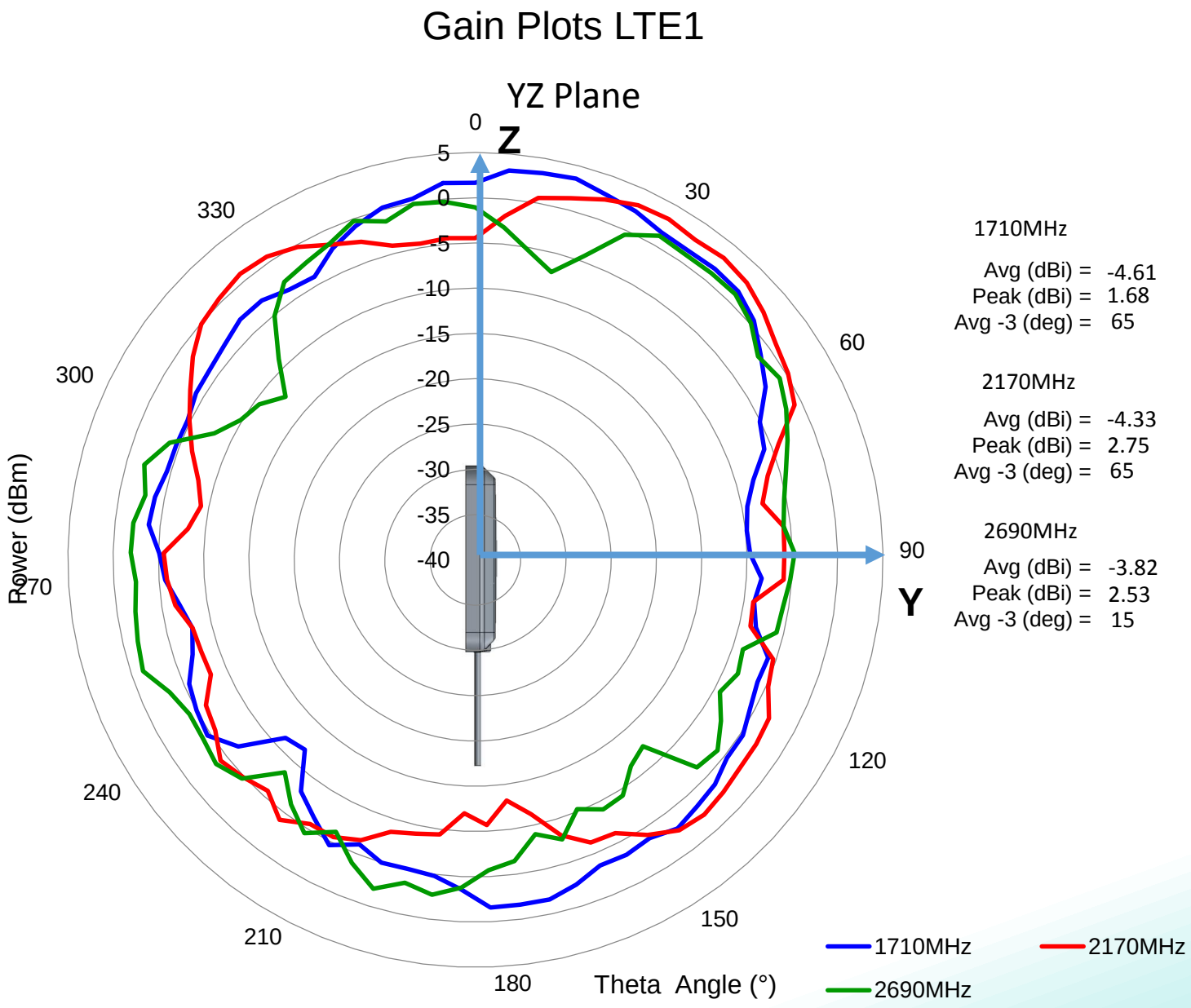
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Gain Plots LTE1



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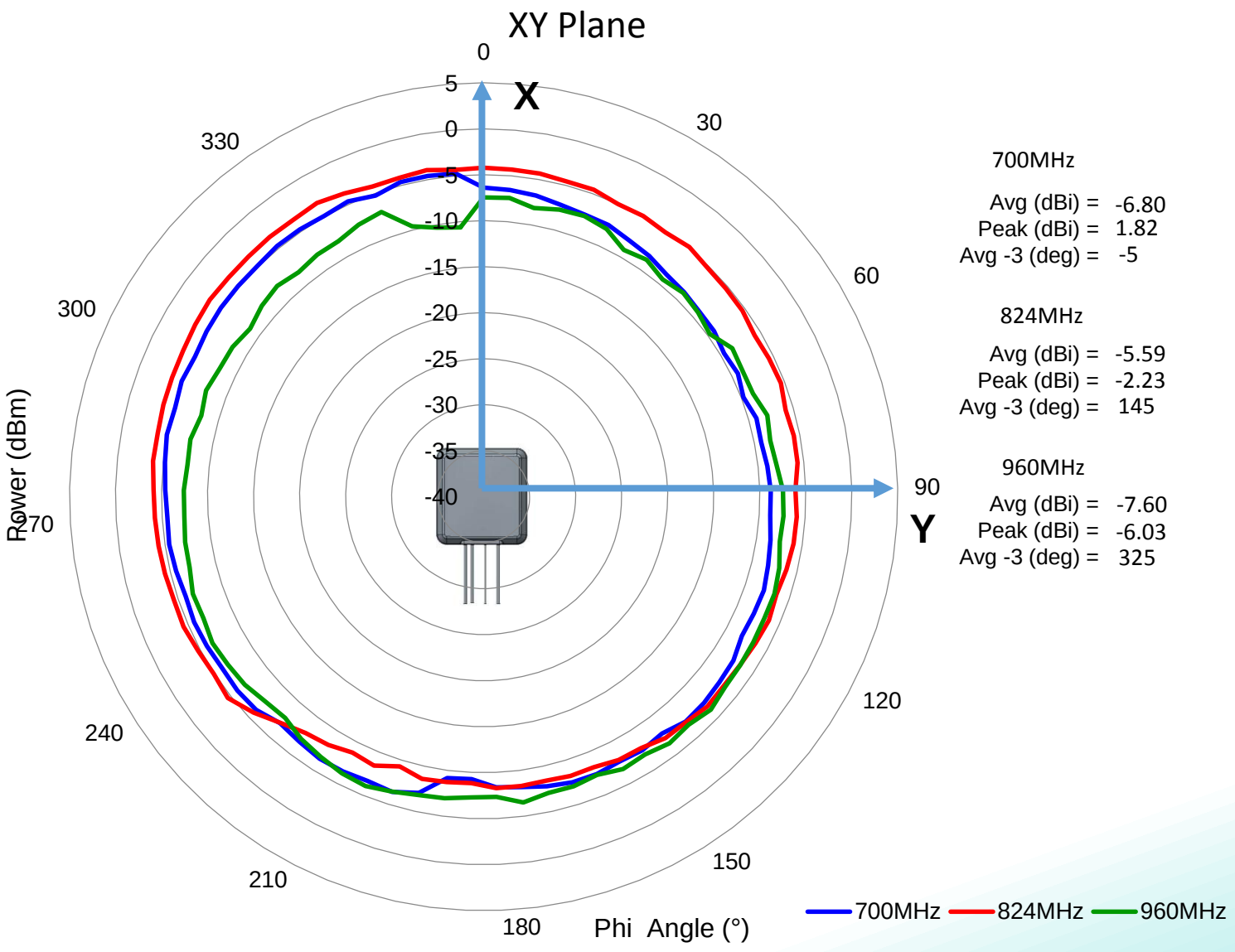
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CHARTS

Gain Plots LTE2



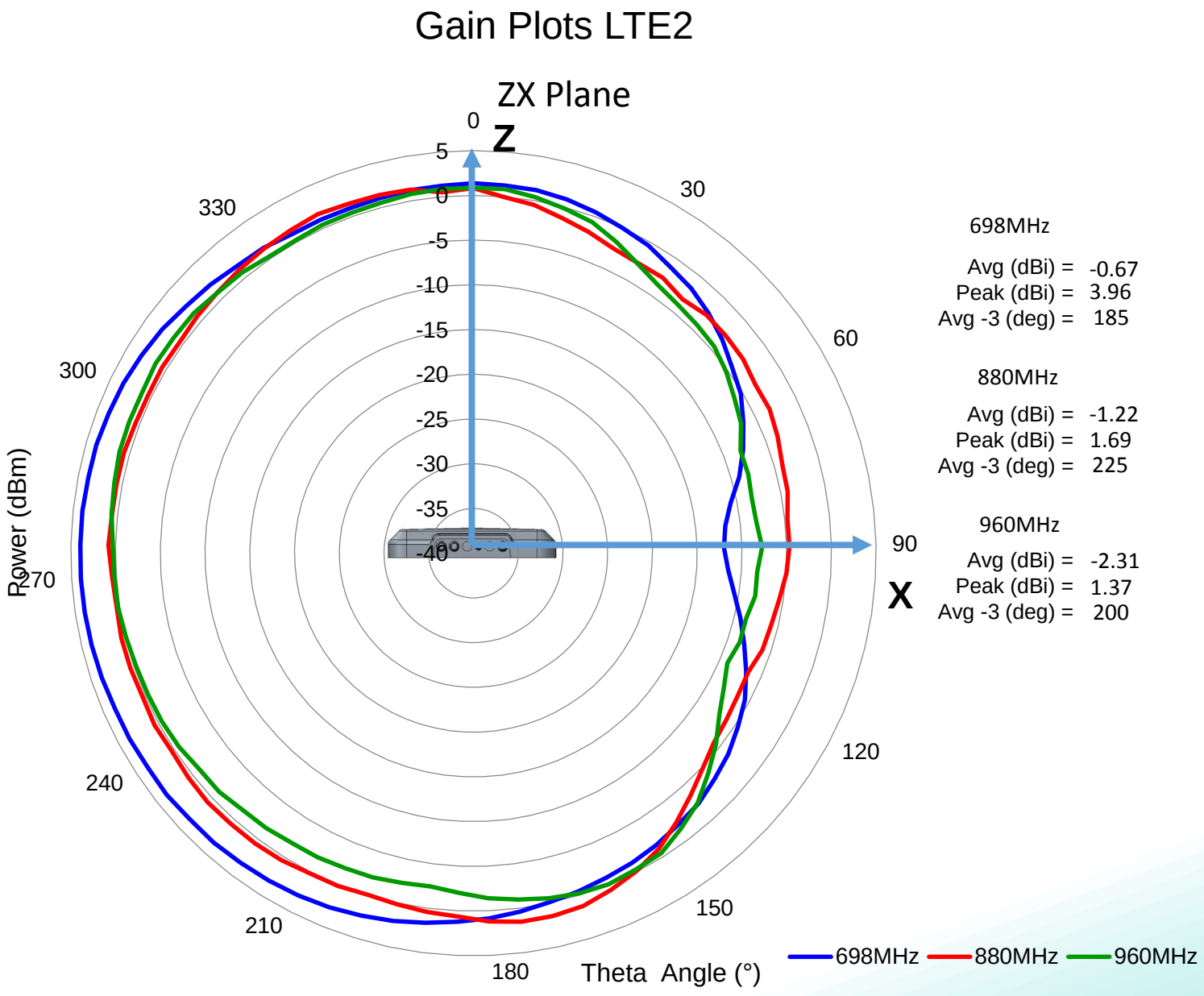
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CHARTS



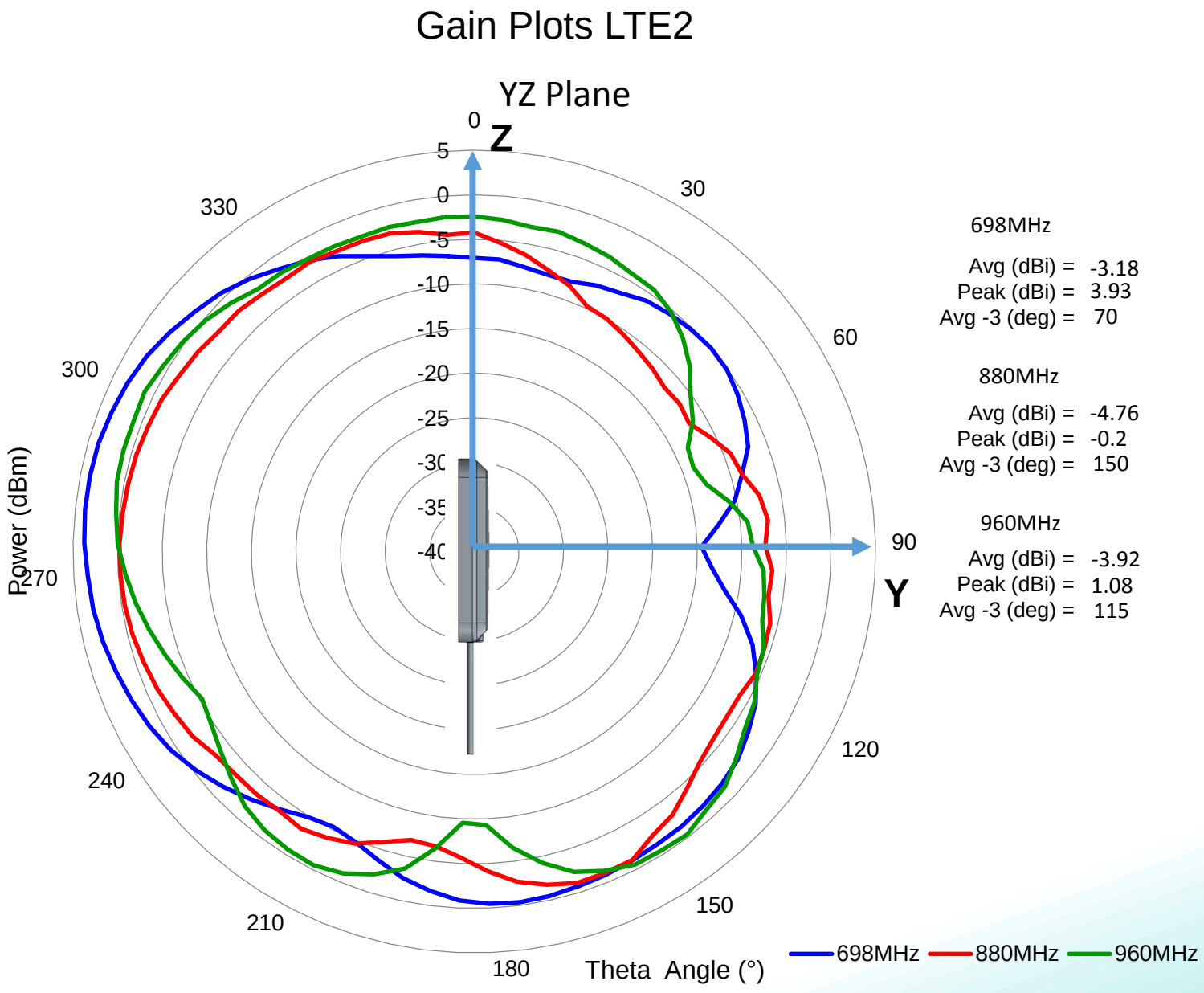
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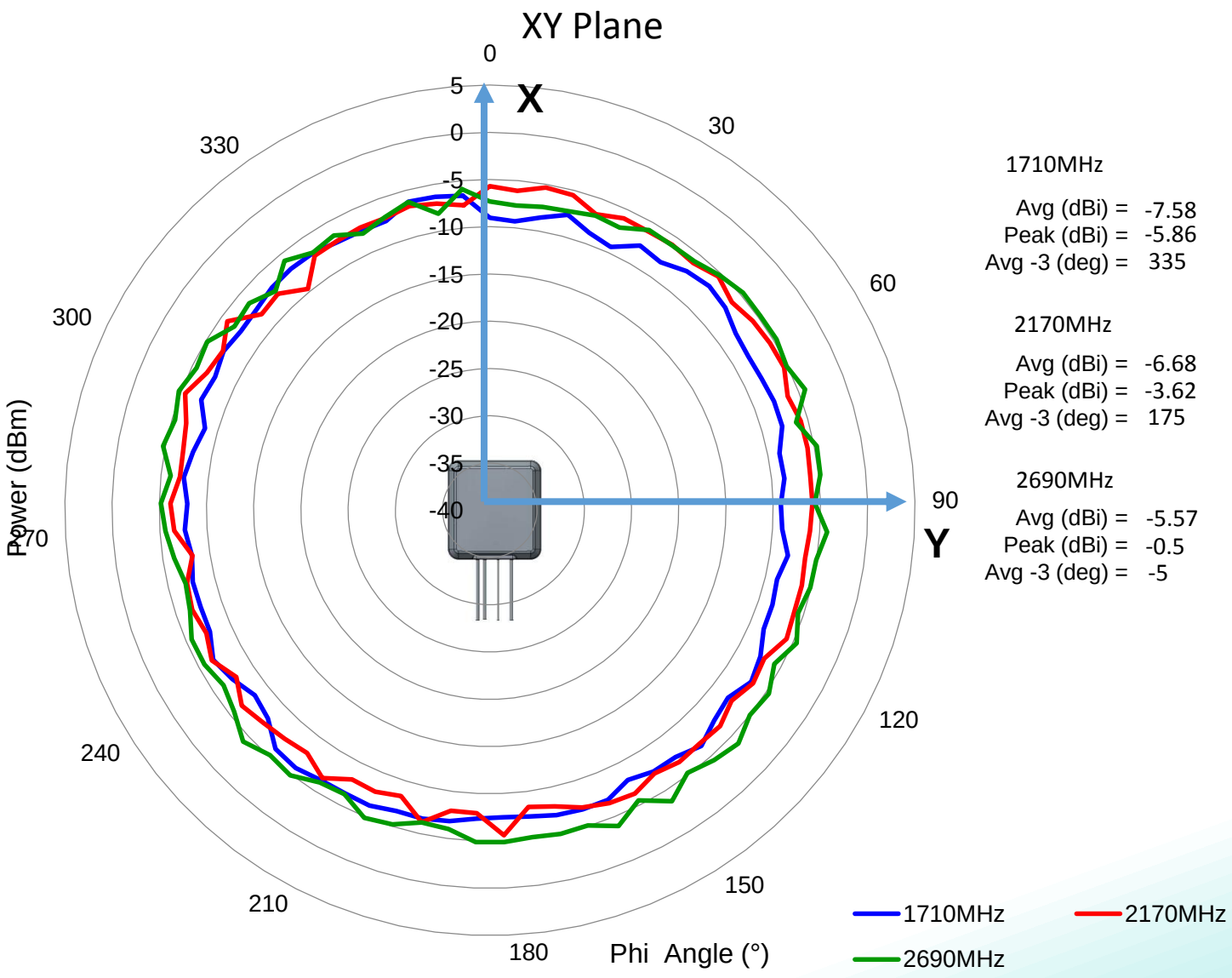
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CHARTS

Gain Plots LTE2



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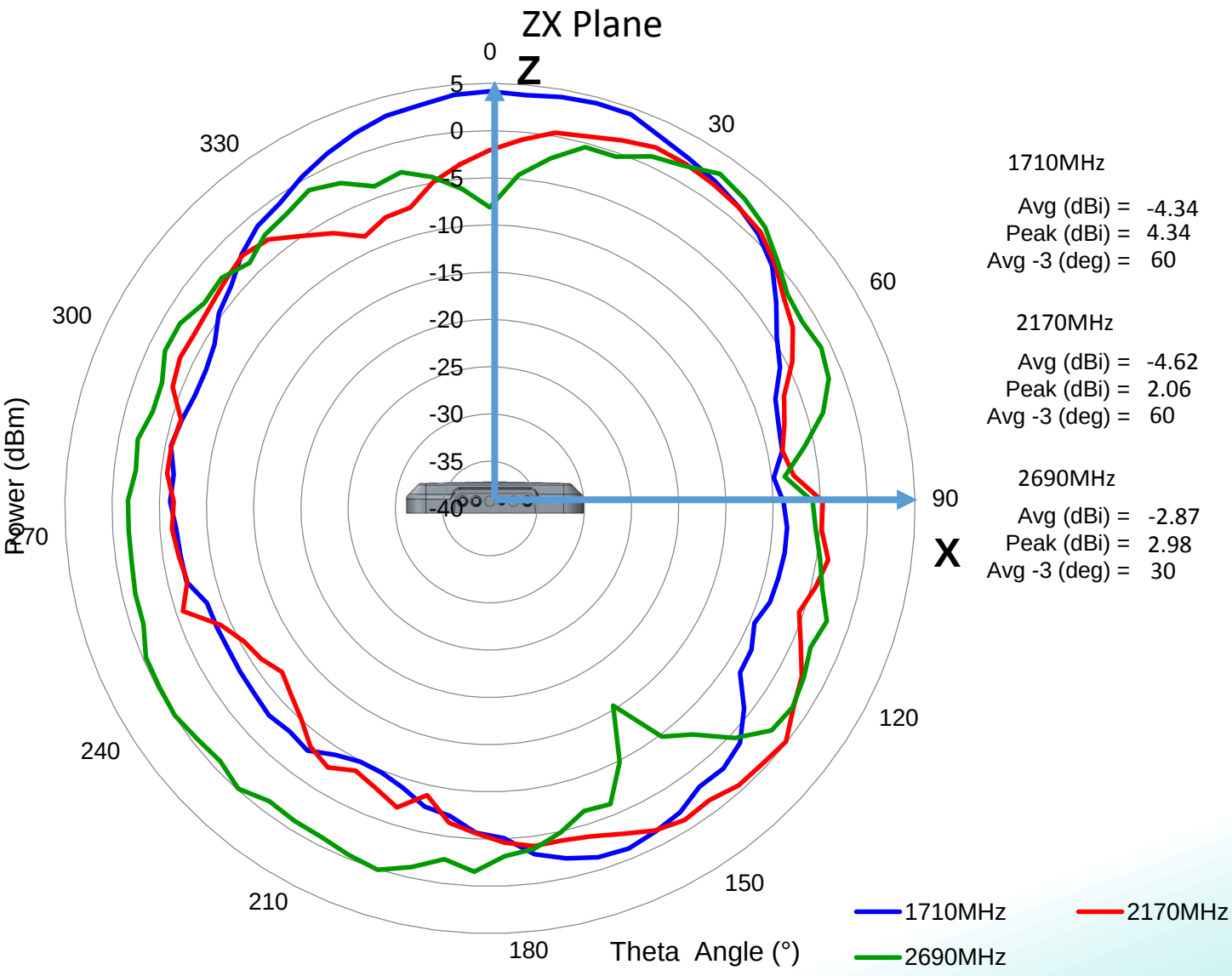
Series: Jaguar

Description: 2xLTE, WiFi, GNSS Multiband Vehicular Antenna

PART NUMBER: GPSLPMB401

CHARTS

Gain Plots LTE2



1710MHz

Avg (dBi) = -4.34
Peak (dBi) = 4.34
Avg -3 (deg) = 60

2170MHz

Avg (dBi) = -4.62
Peak (dBi) = 2.06
Avg -3 (deg) = 60

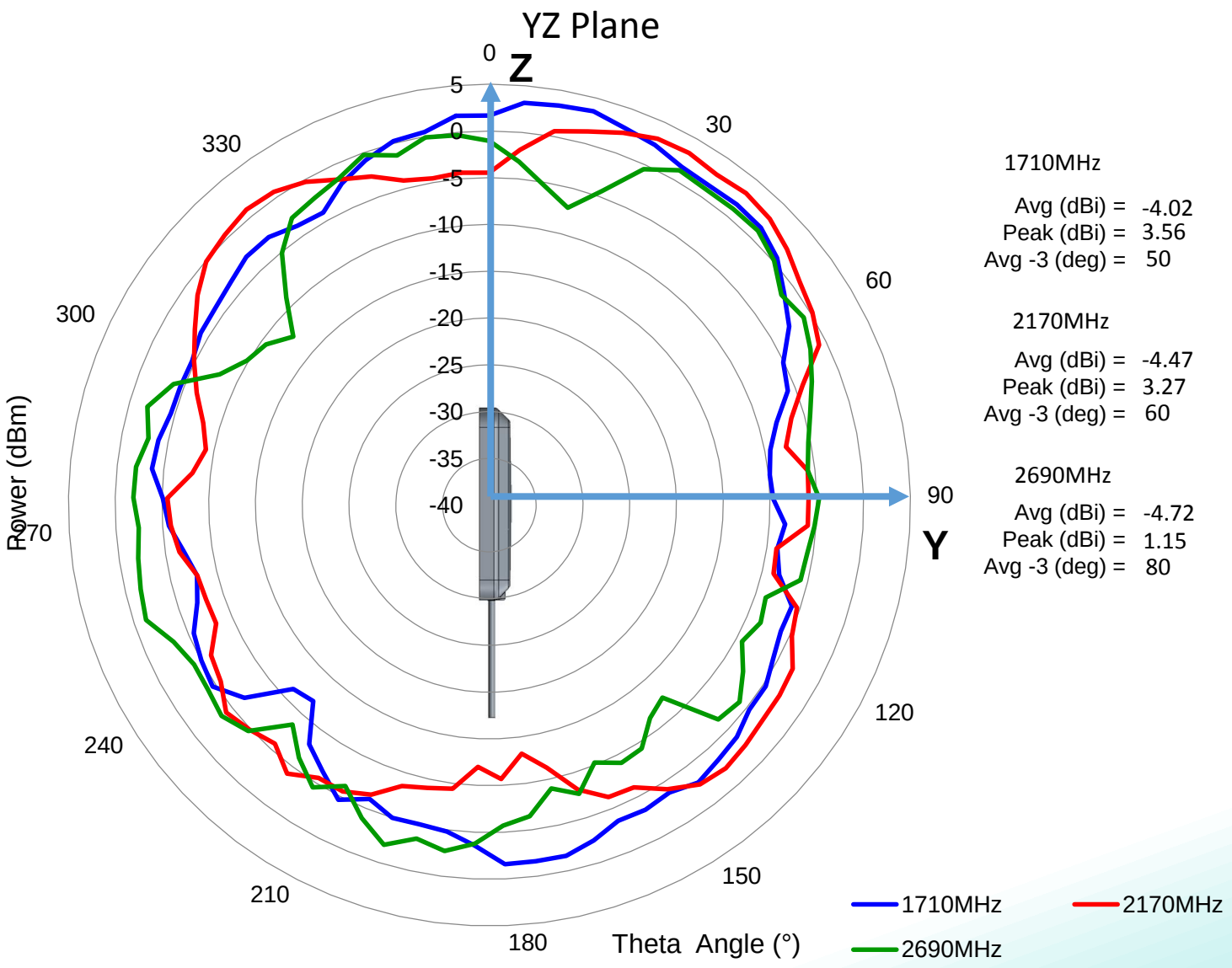
2690MHz

Avg (dBi) = -2.87
Peak (dBi) = 2.98
Avg -3 (deg) = 30

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CHARTS

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1710MHz

Avg (dBi) =	-4.02
Peak (dBi) =	3.56
Avg -3 (deg) =	50

2170MHz

Avg (dBi) =	-4.47
Peak (dBi) =	3.27
Avg -3 (deg) =	60

2690MHz

Avg (dBi) =	-4.72
Peak (dBi) =	1.15
Avg -3 (deg) =	80

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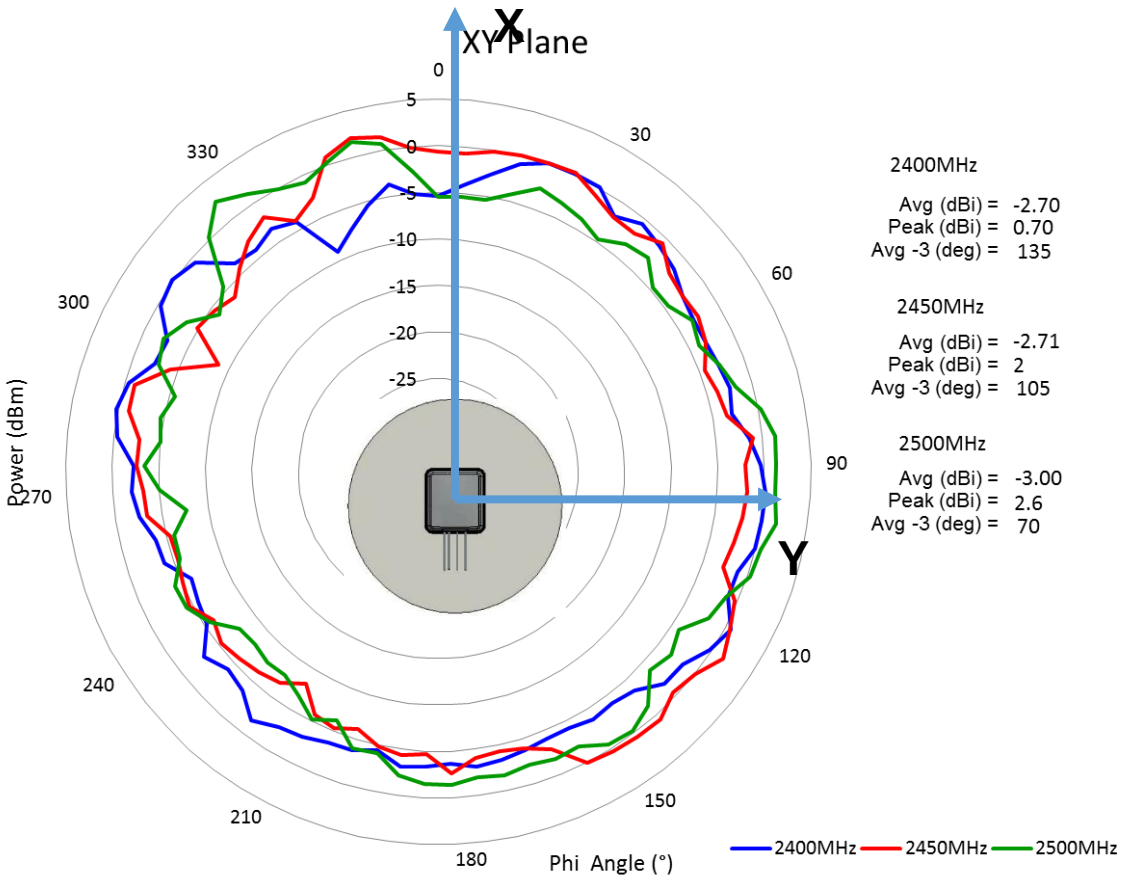
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CHARTS

Gain Plots WIFI*



* Test on bracket and diameter is 500mm ground plane

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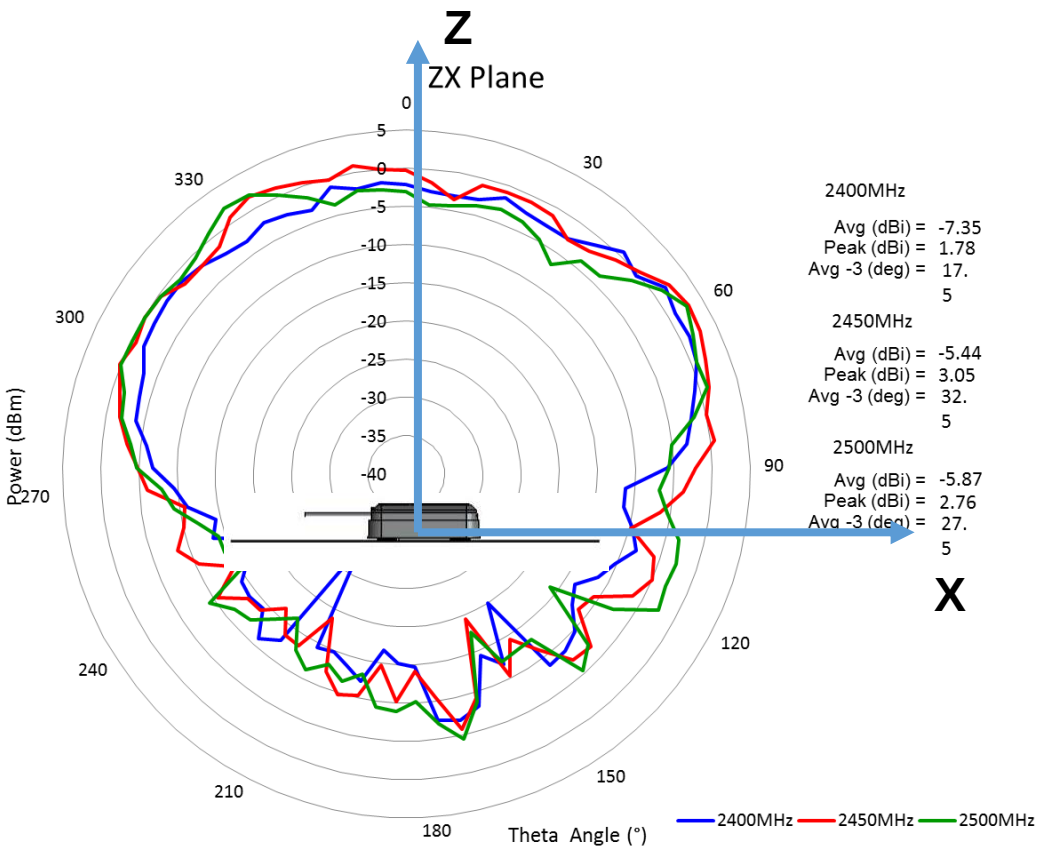
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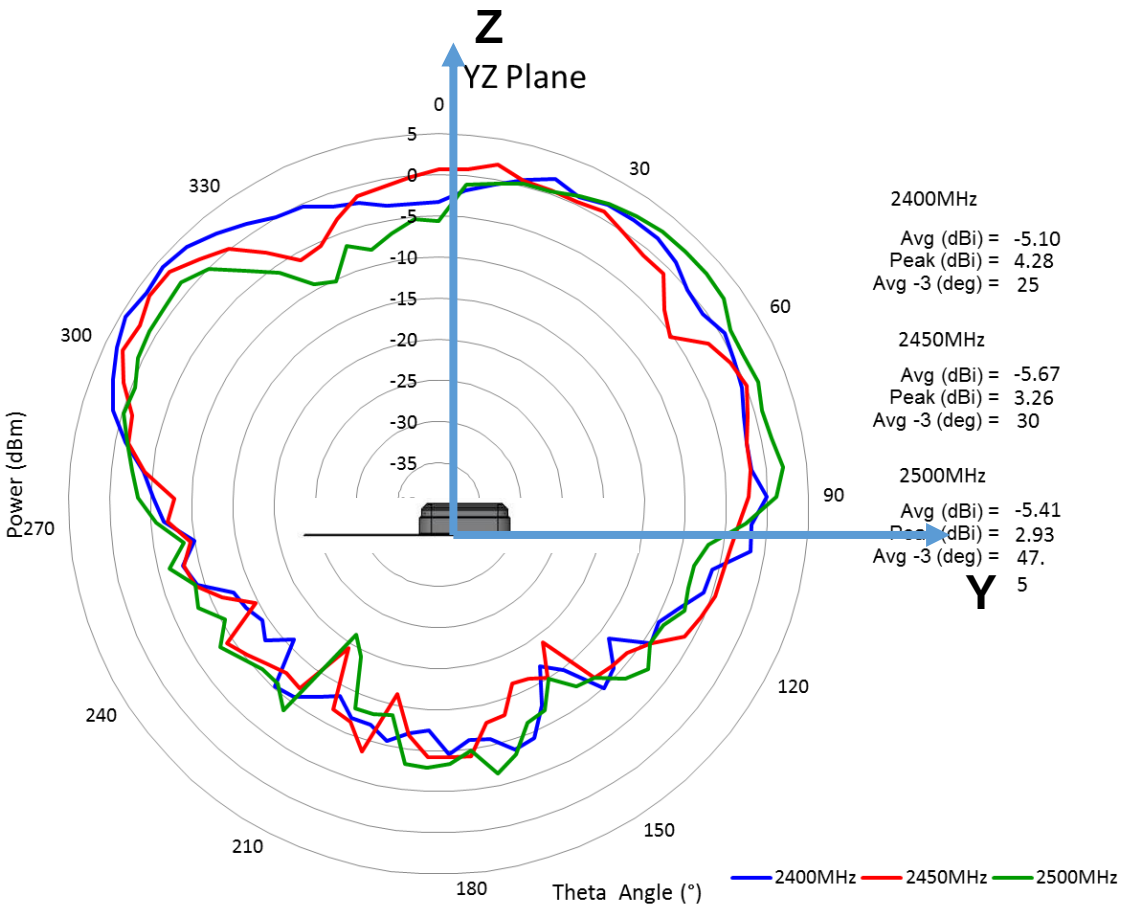
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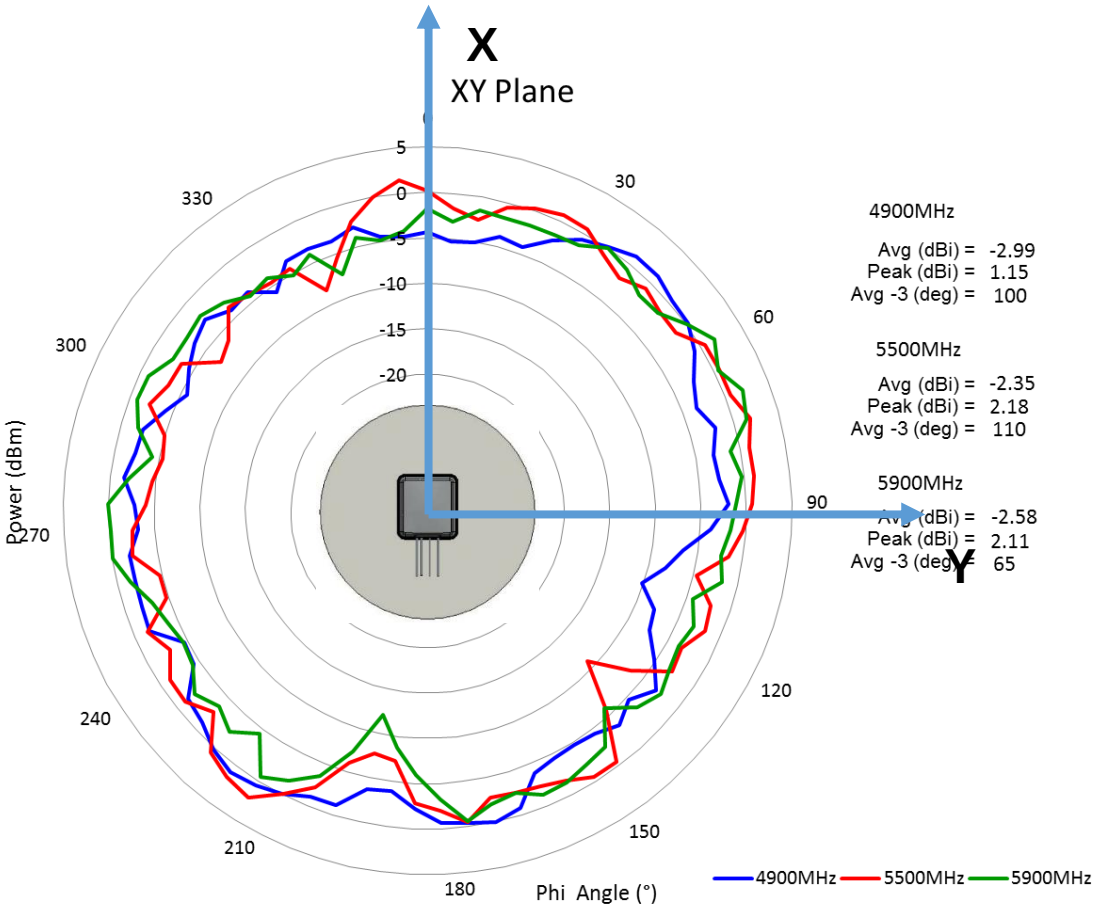
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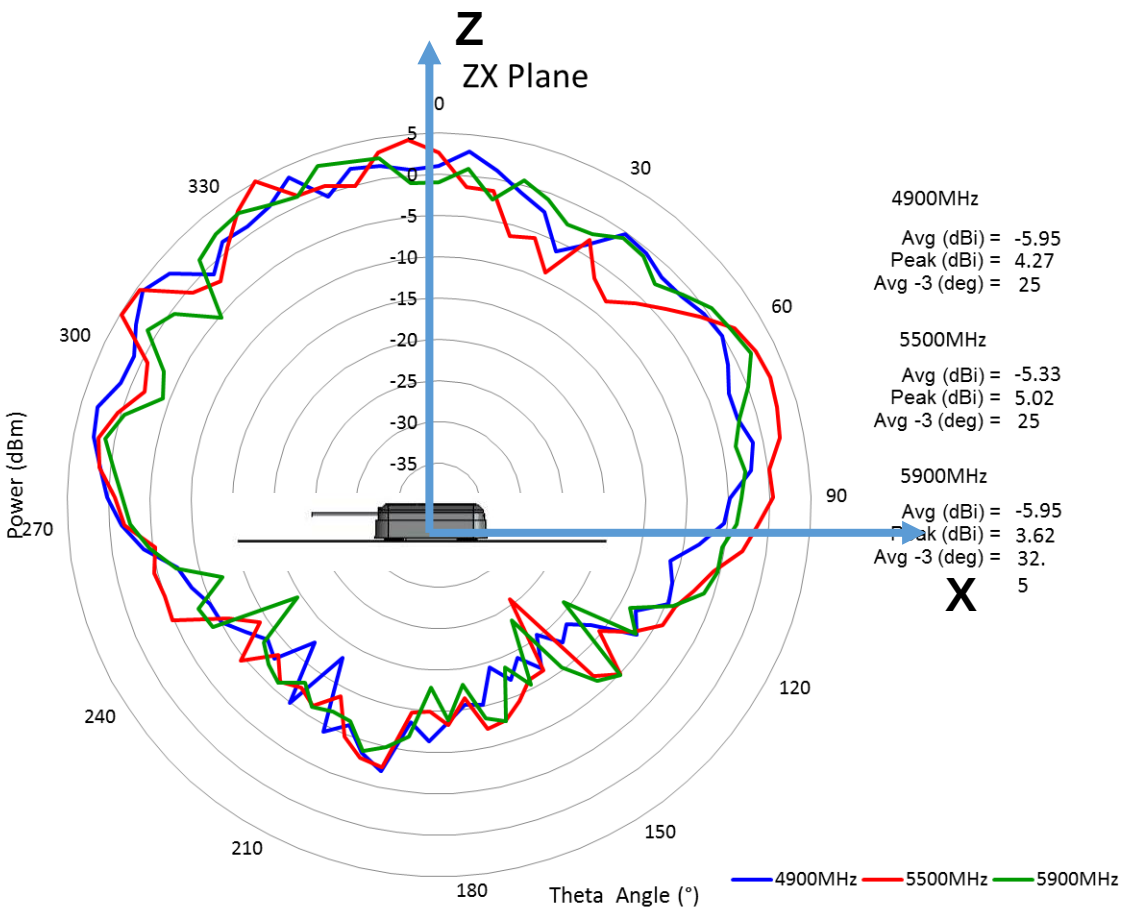
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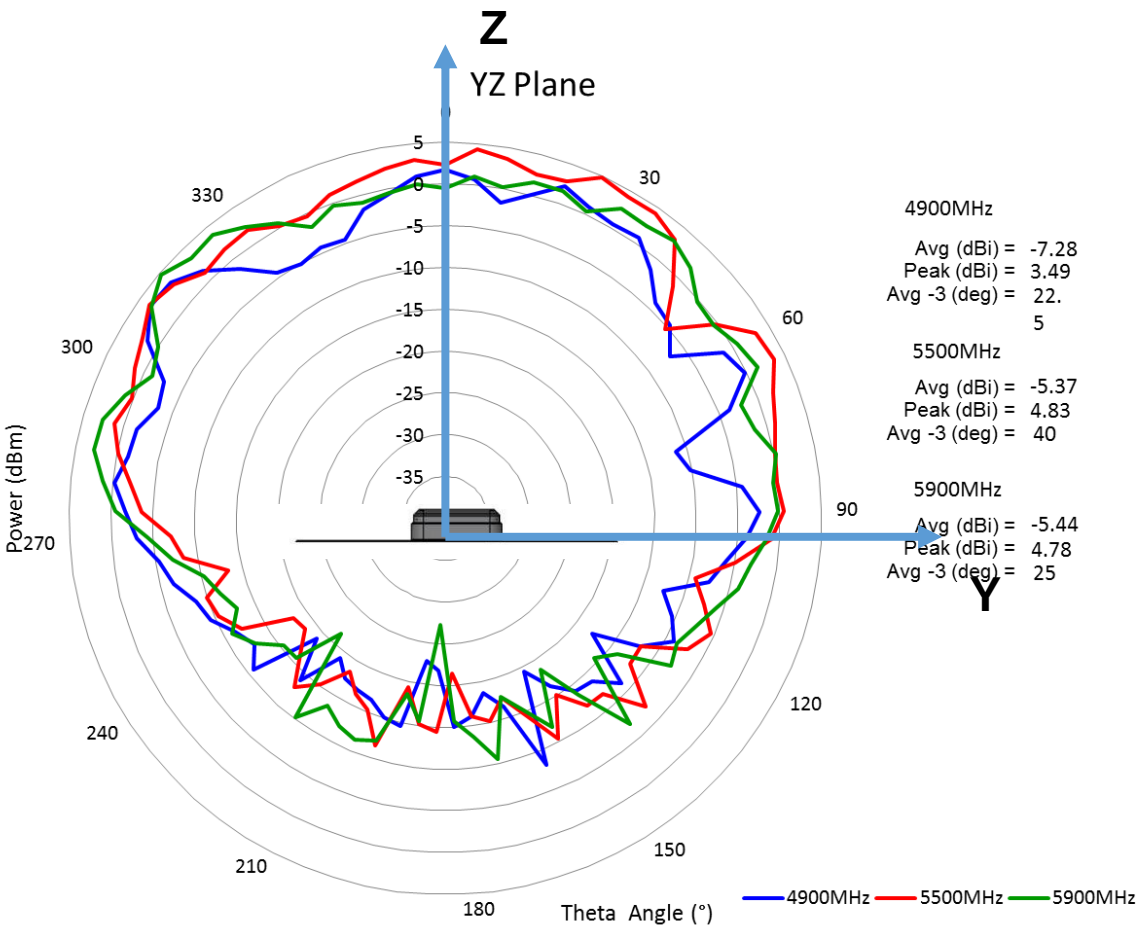
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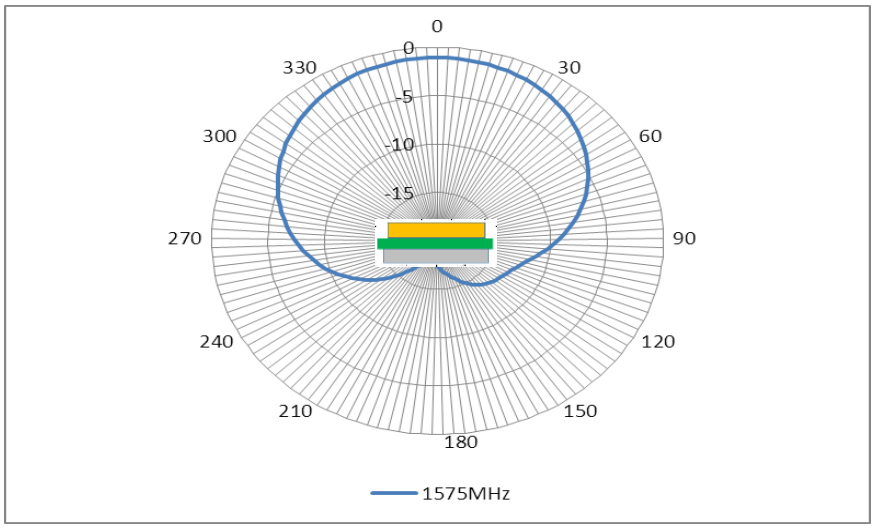
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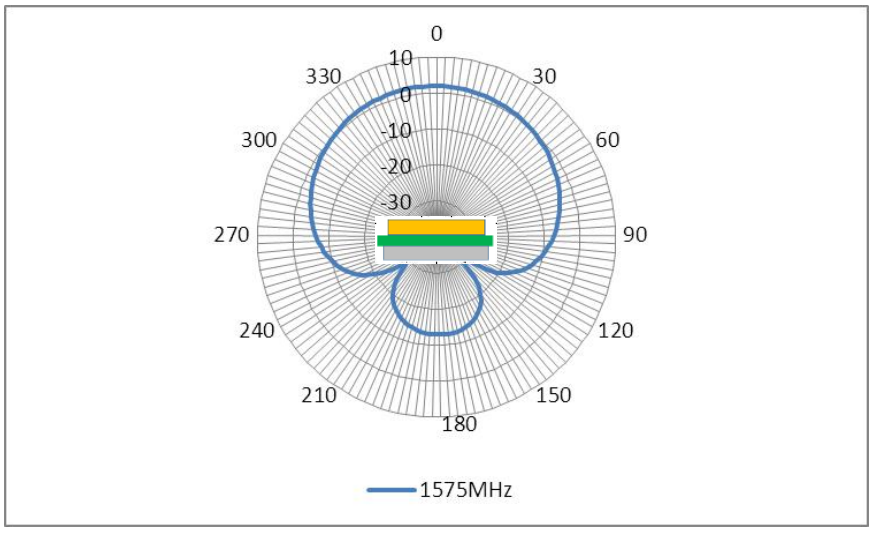
PART NUMBER: GPSLPMB401

CHARTS

Radiation Pattern (70mm x 70mm ground plane) GPS & Galileo



25 X 25 X 4mm Ceramic Antenna



25 X 25 X 4mm Ceramic Antenna

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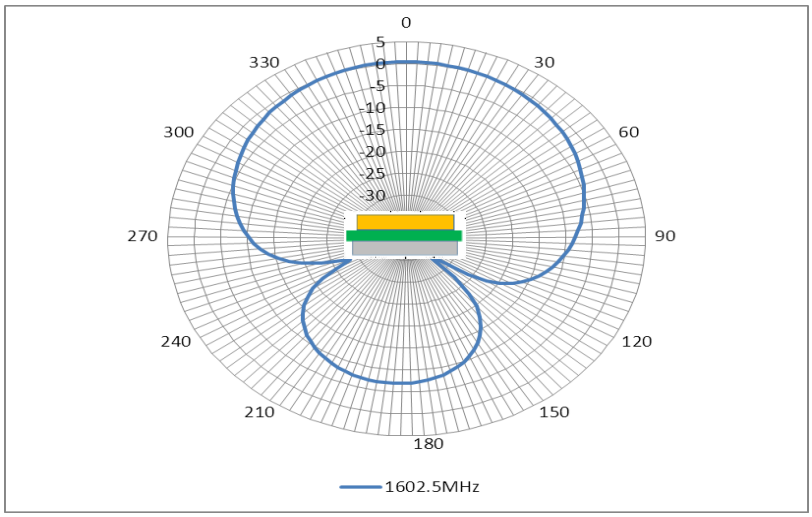
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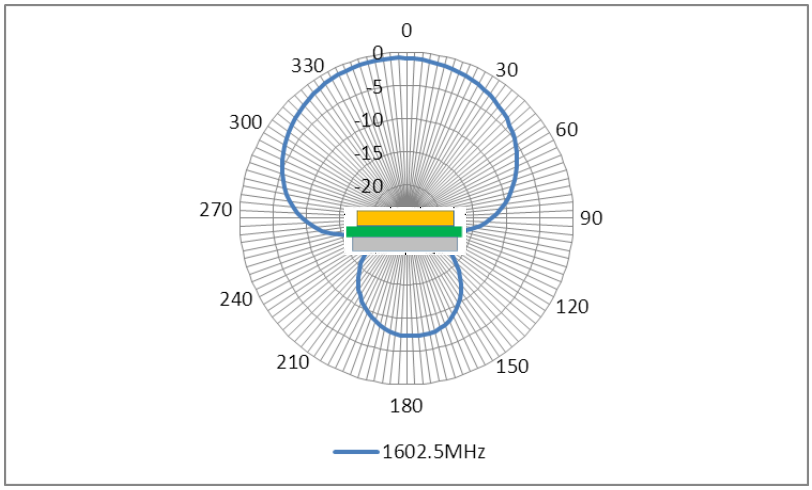
PART NUMBER: GPSLPMB401

CHARTS

Radiation Pattern (70mm x 70mm ground plane) GLONASS



25 X 25 X 4mm Ceramic Antenna



25 X 25 X 4mm Ceramic Antenna

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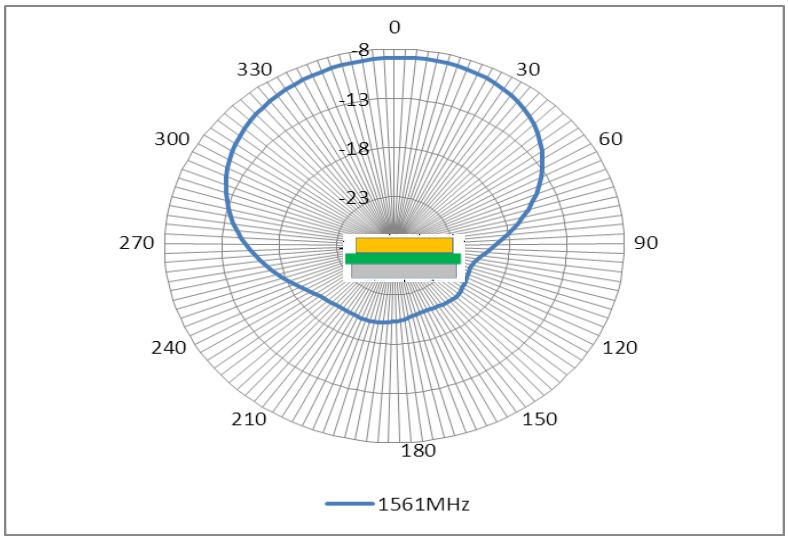
Description: 2xLTE, WiFi, GNSS Multiband Vehicular Antenna

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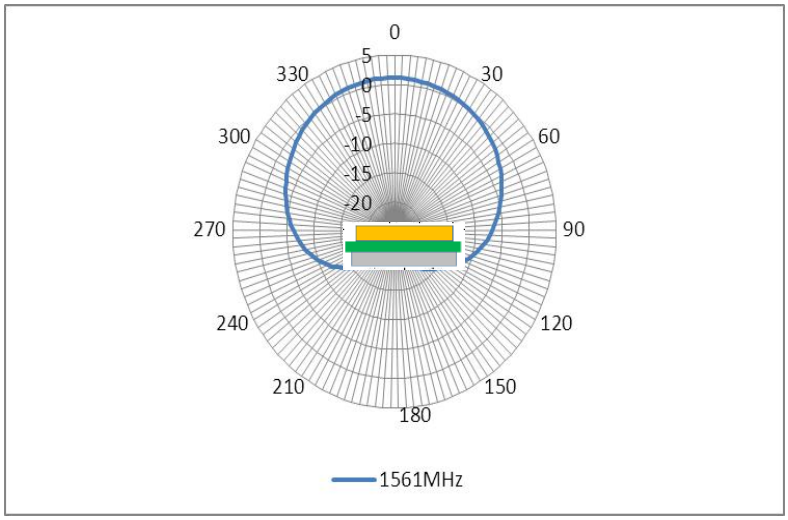
PART NUMBER: GPSLPMB401

CHARTS

Radiation Pattern (70mm x 70mm ground plane) BD2



25 X 25 X 4mm Ceramic Antenna



25 X 25 X 4mm Ceramic Antenna

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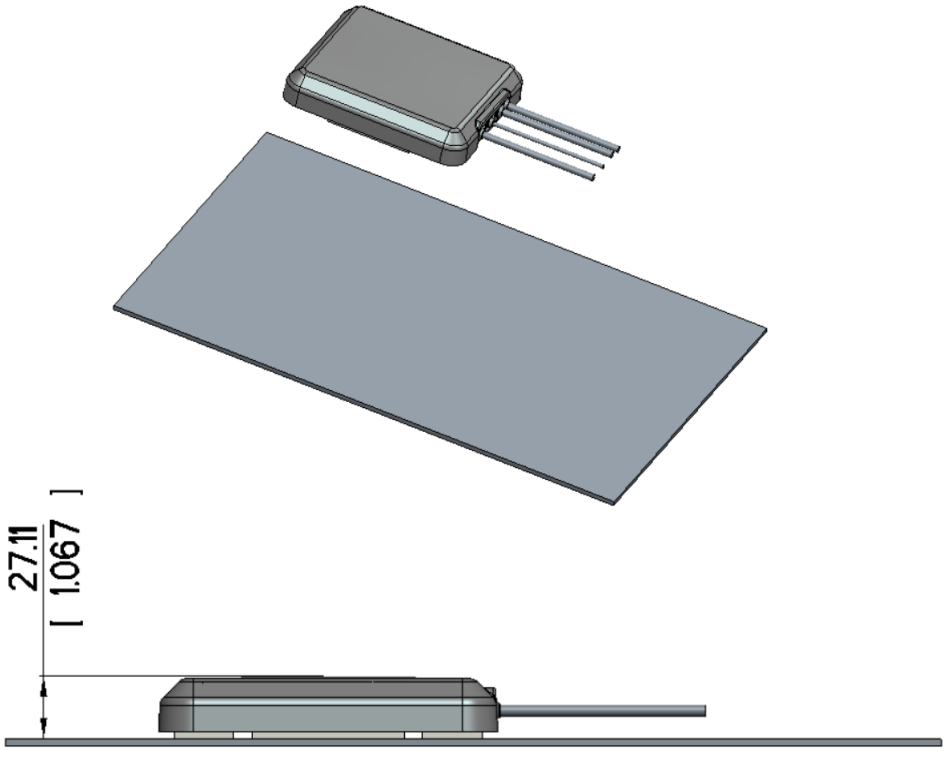
PART NUMBER: GPSLPMB401

PACKAGING

- Each antenna packed in a plastic bag
- 12 bags of antennas packed in a cardboard box.
- 1 label on each box with qty, part number, date code.

ASSEMBLY

When this antenna is applied to a non-metallic surface, like glass fiber or plastic material, it could be adhered on the surface directly.



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ASSEMBLY

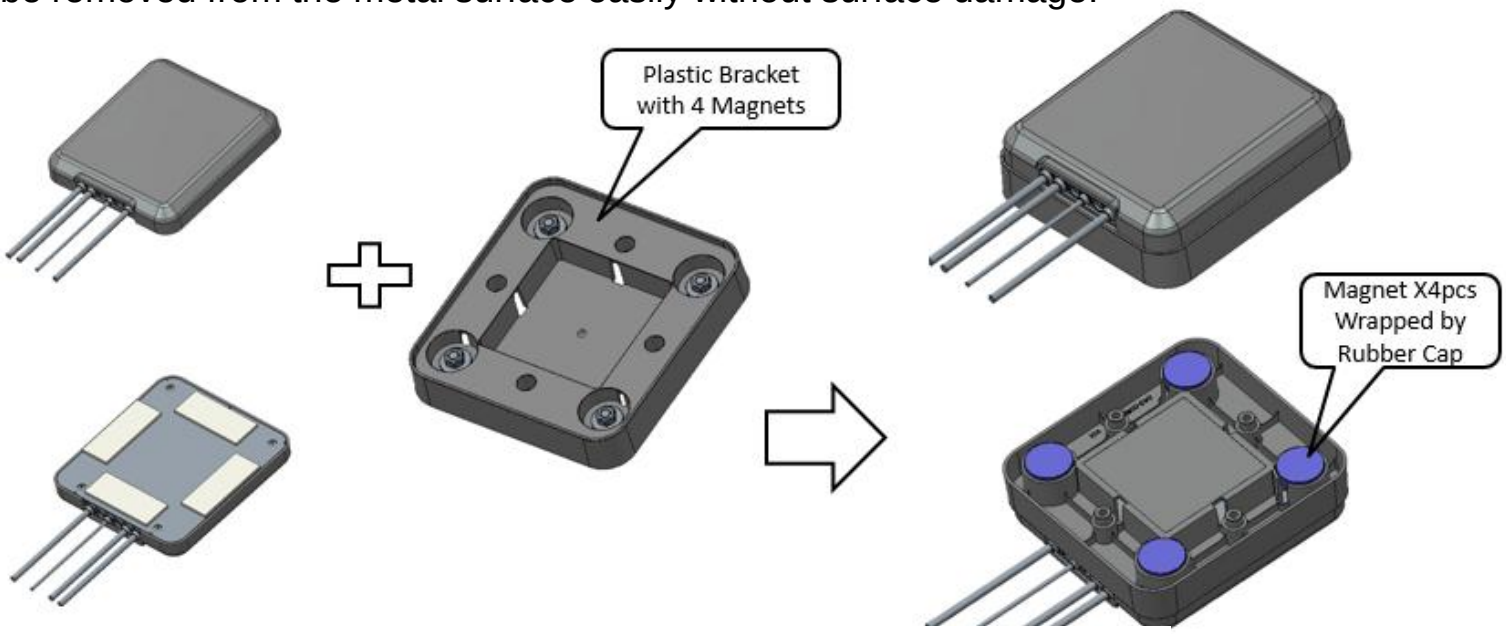
Mounting with a plastic bracket: When this antenna applied to the metal surface, a plastic bracket is needed to elevate the antenna 1" for the optimum RF performance.

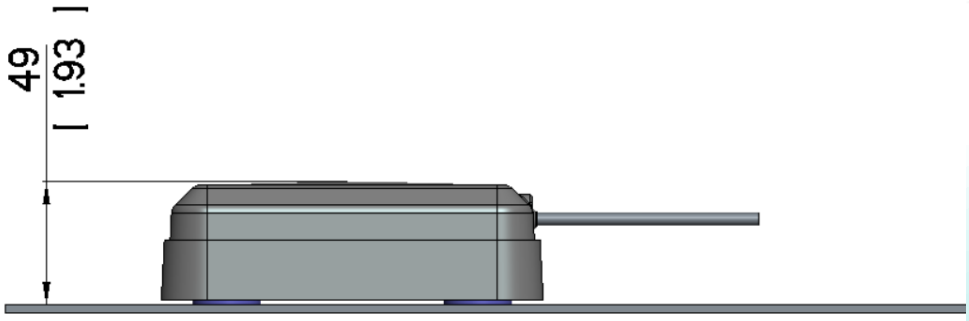
Option 1, LPMB4BRACKETMM Magnetic Mount

----Removable Mounting (No Surface damage)

The mounting surface is made of steel or iron.

Firstly, The antenna adhered on the plastic bracket with magnets by the adhesive tape. Then the whole assemble could be attached on the iron metals by magnets, and also could be removed from the metal surface easily without surface damage.



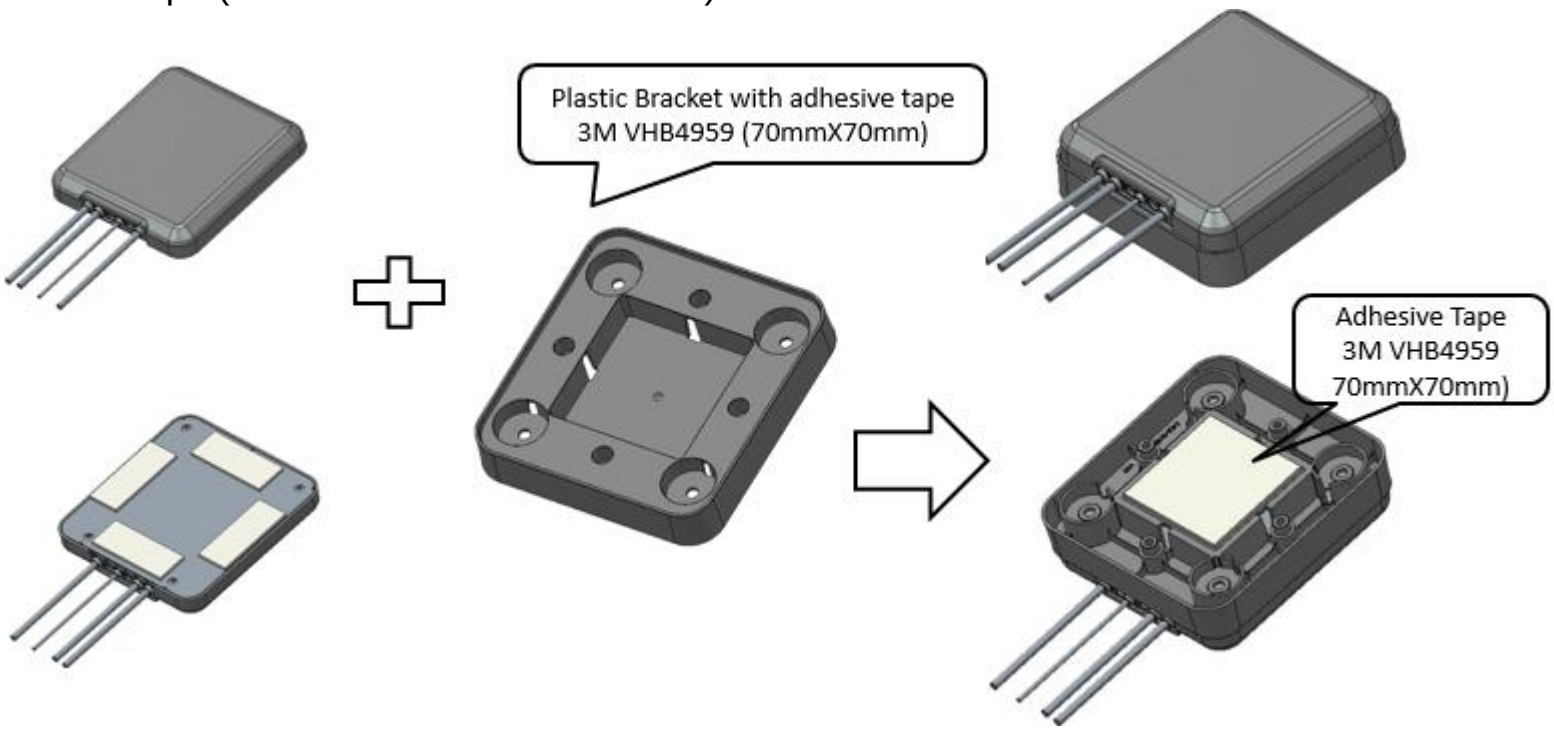


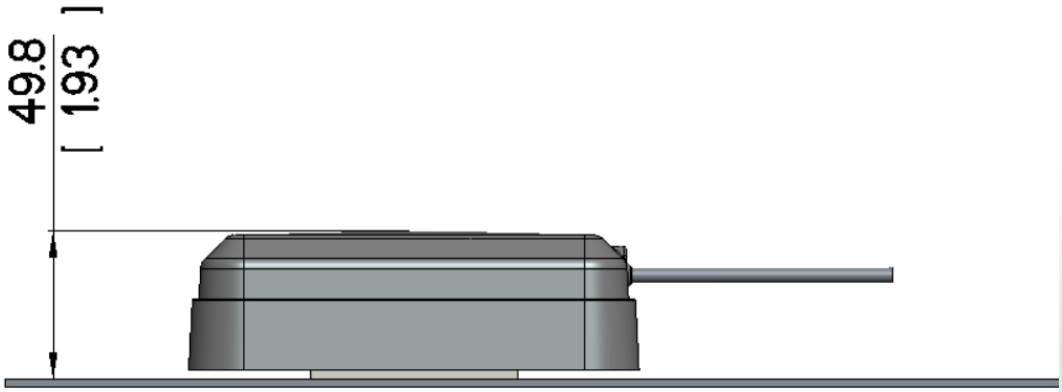
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ASSEMBLY

Option 2, LPMB4BRACKETAM Adhesive Mount -- Permanent Mount

Especially when the mounting surface is made of non-ferrum metals, like aluminum,
Firstly, the antenna adhered on the plastic bracket by the adhesive tape,
Then the whole assemble could adhere on the mounting surface by the 3MVHB adhesive tape (3M VHB4959 70mmX70mm).





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