

Description: 2xLTE, WiFi, GNSS Multiband
Vehicular Antenna

Series: Low Profile MB

PART NUMBER: GPSPMB403



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: 1717

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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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ELECTRICAL SPECIFICATIONS

Cable and Connector type

| Item | GPSPMB403 RF Cables | Text on Label | Cable Type | Cable Length | Connector |
|------|---------------------|---------------|------------|----------------------|-------------|
| 1 | LTE-1 | Cell - 1 | LMR195 | 600mm [23.622"] | TNC Male |
| 2 | WiFi | WiFi | LMR195 | | RP-TNC Male |
| 3 | GPS | GNSS | LMR100 | | SMA Male |
| 4 | LTE-2 | Cell - 2 | LMR195 | | RP-SMA Male |

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MECHANICAL SPECIFICATIONS

| | |
|---------------------------|--------------------|
| Plastic radome | SABIC PC943 |
| Color | Black |
| Ingress Protection | IP67 |
| Weight | 310 g |
| Cable retention: Pull off | 30N mini |
| Fixing system | 3M VHB4959 (T=3mm) |

ENVIRONMENTAL SPECIFICATIONS

| | |
|-----------------------|---------------|
| Operating temperature | -40 ~ +85 ° C |
|-----------------------|---------------|

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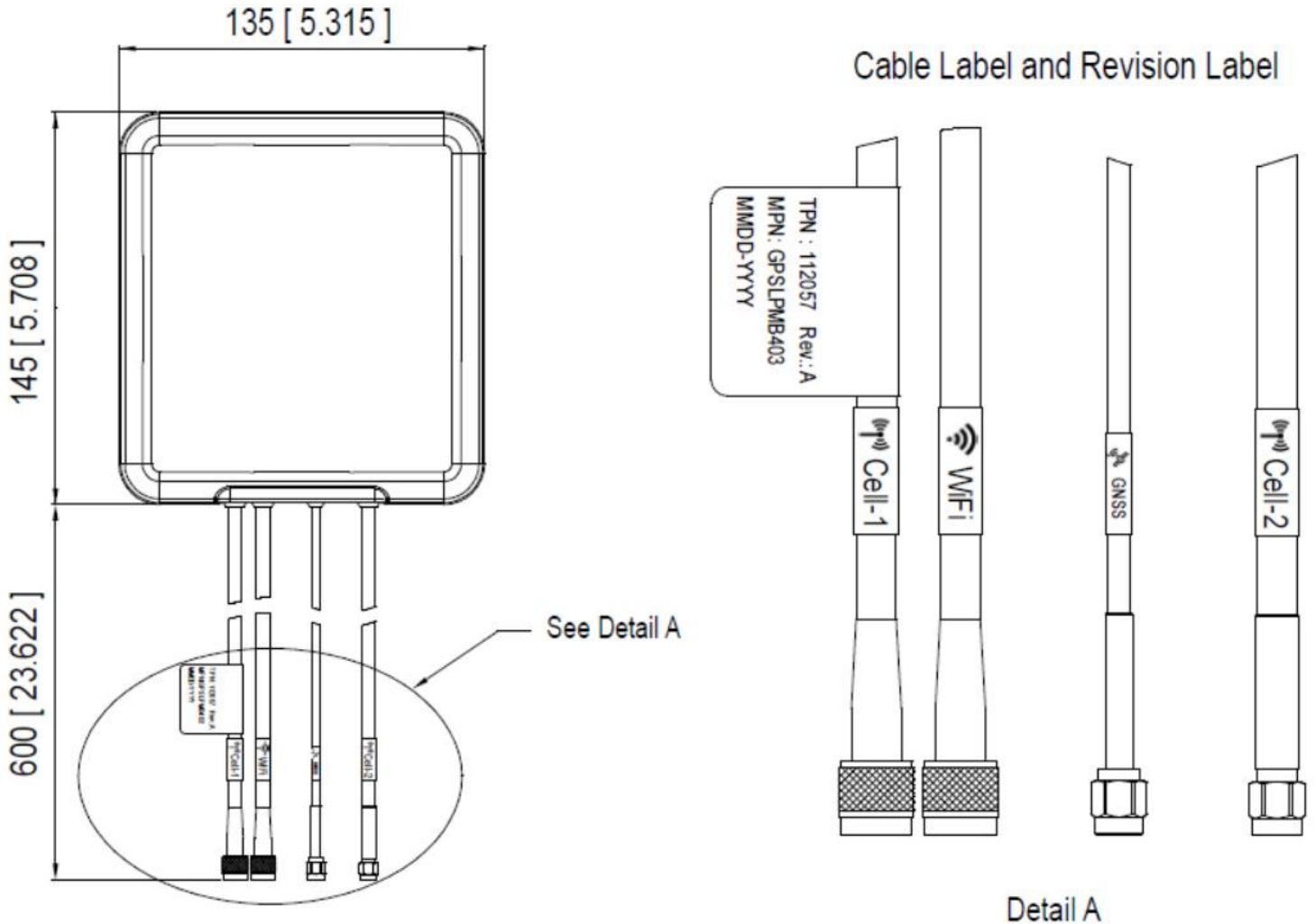


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MECHANICAL DRAWING



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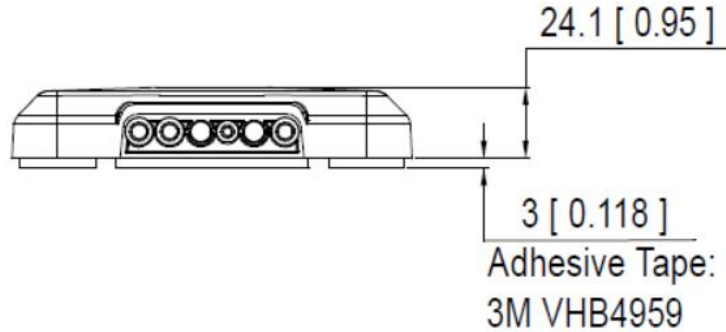


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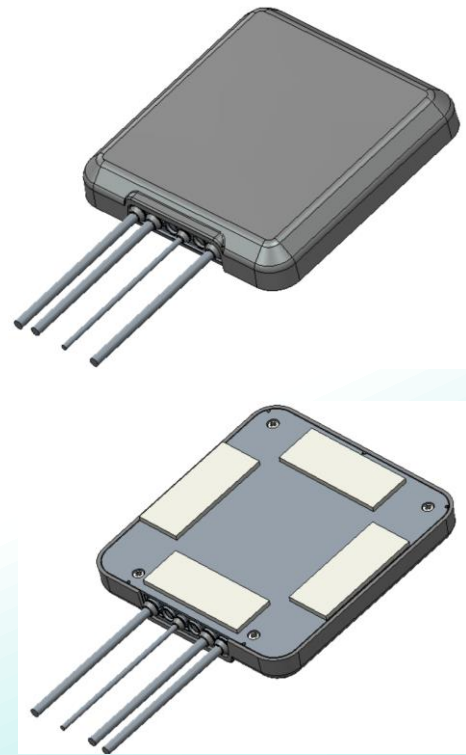
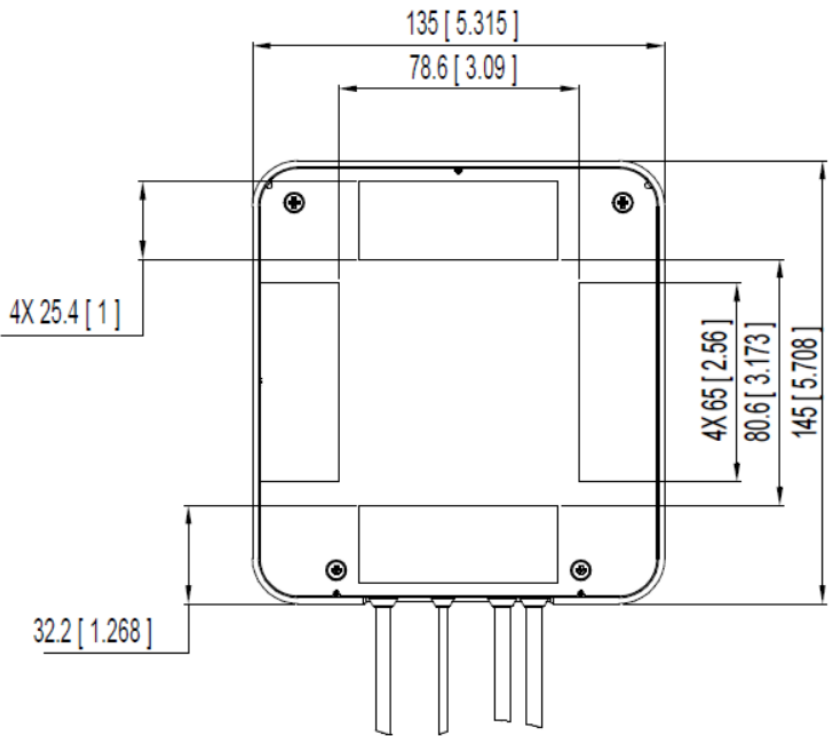
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MECHANICAL DRAWING



Adhesive Tape Placement



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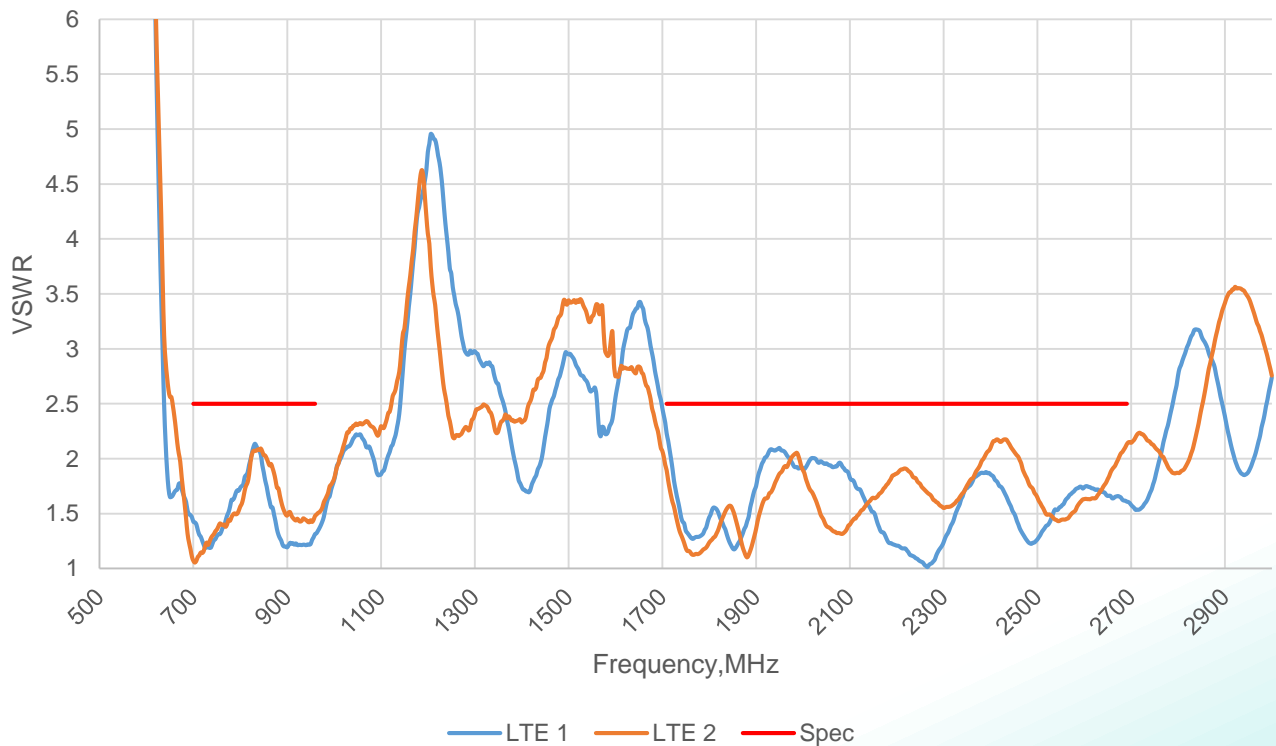
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CHARTS

LTE 1 and LTE2 VSWR

VSWR VS Frequency measured in free space



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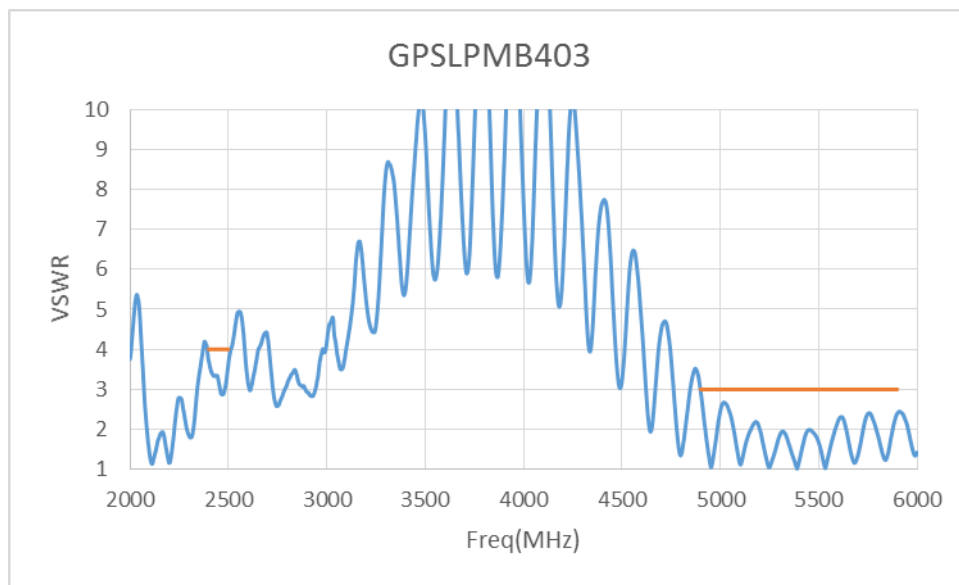
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CHARTS

WiFi VSWR*



* Test on bracket and diameter is 500mm ground plane

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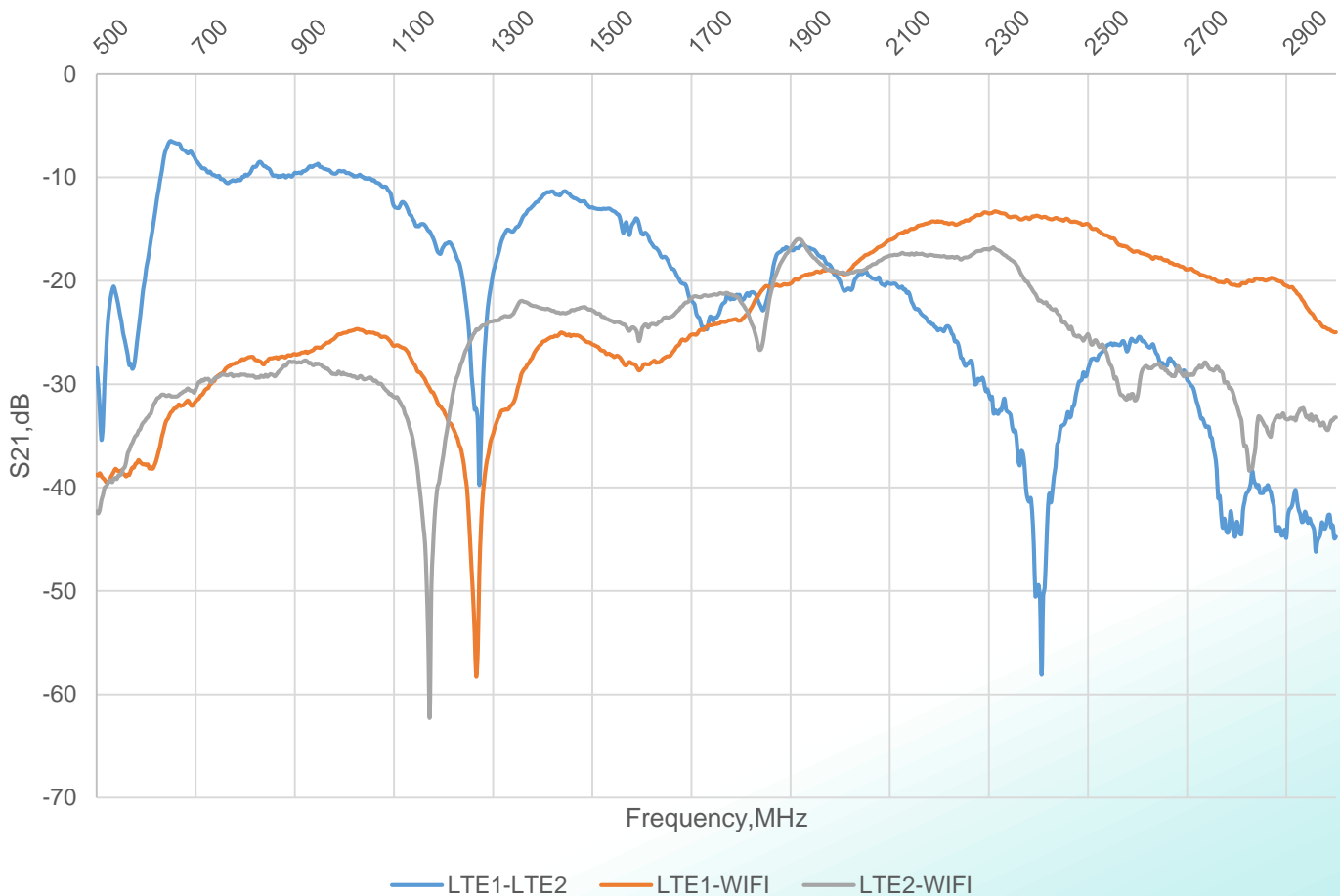
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CHARTS

Isolation

Isolation vs Frequency measured in free space



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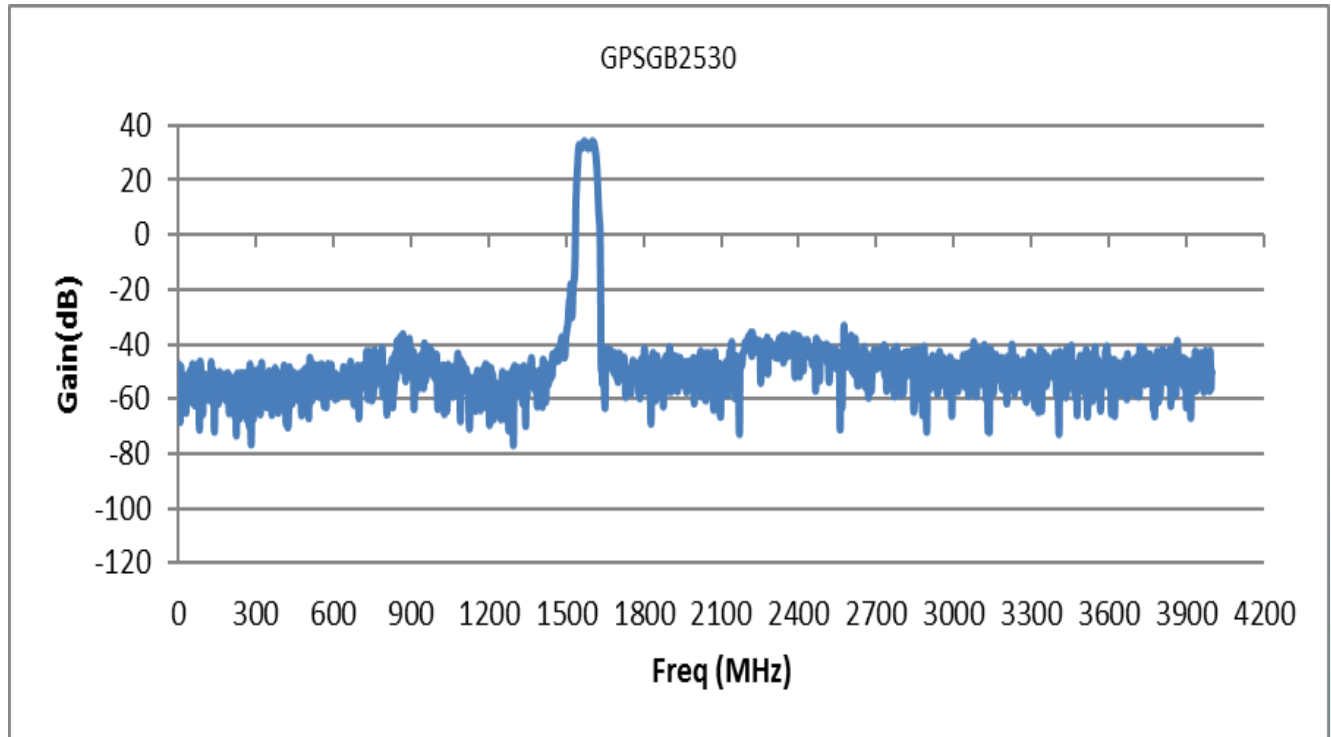
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CHARTS

GPS LNA Gain and out-of-band rejection



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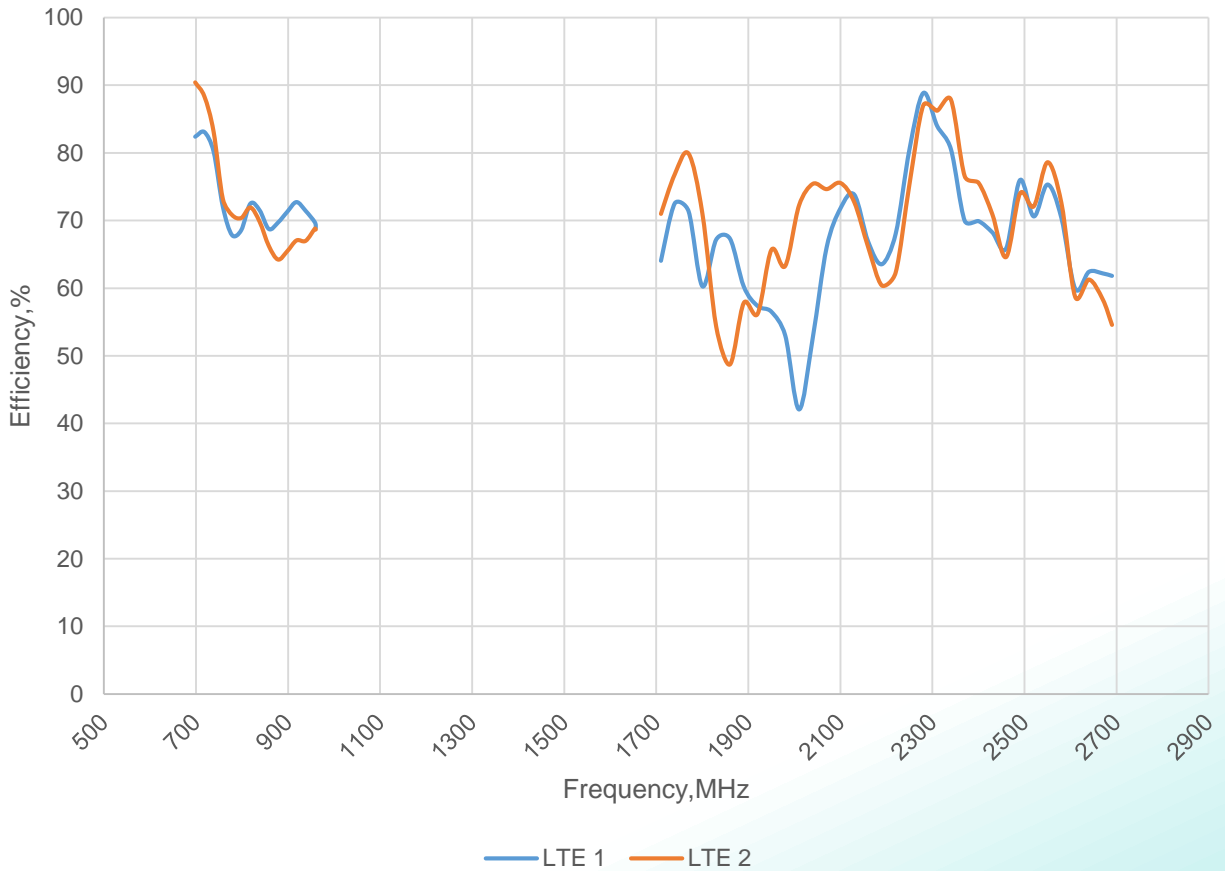
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CHARTS

LTE 1 and LTE2 Efficiency

Efficiency vs Frequency measured in free space



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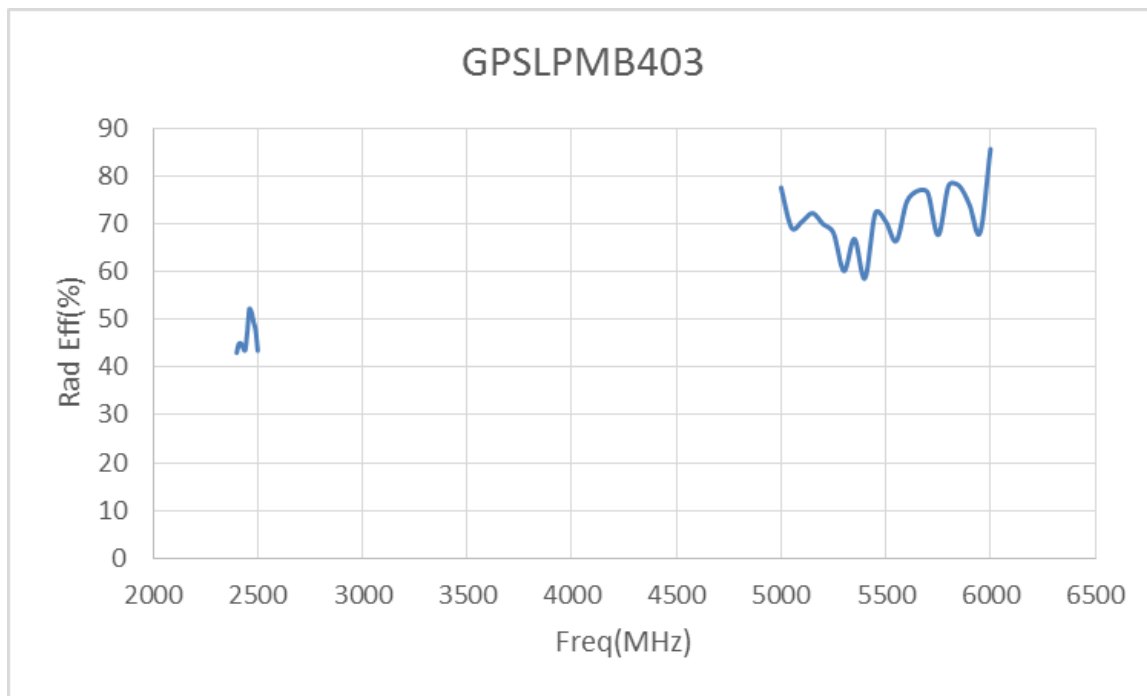
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CHARTS

WiFi Efficiency*



* Test on bracket and diameter is 500mm ground plane

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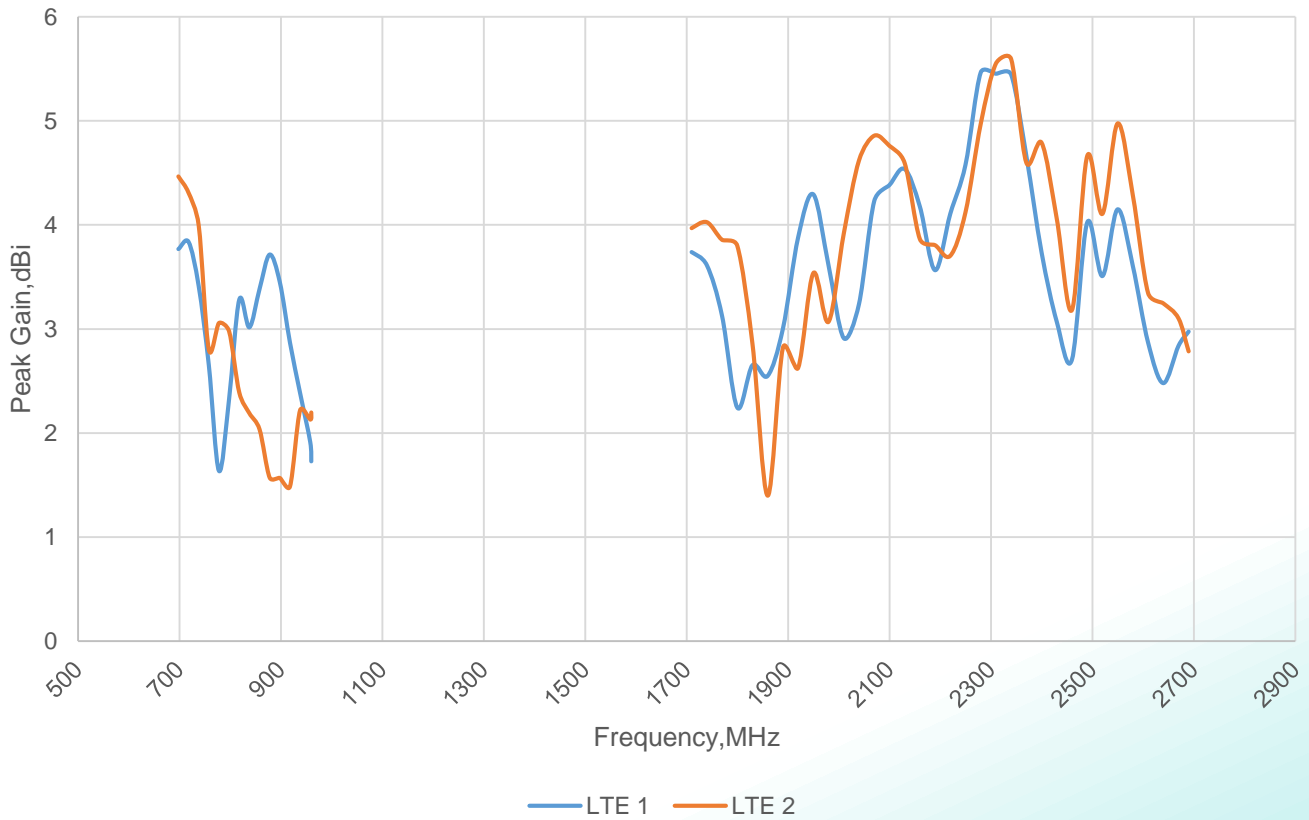
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CHARTS

LTE1 and LTE2 Peak Gain

Peak Gain vs Frequency measured in free space



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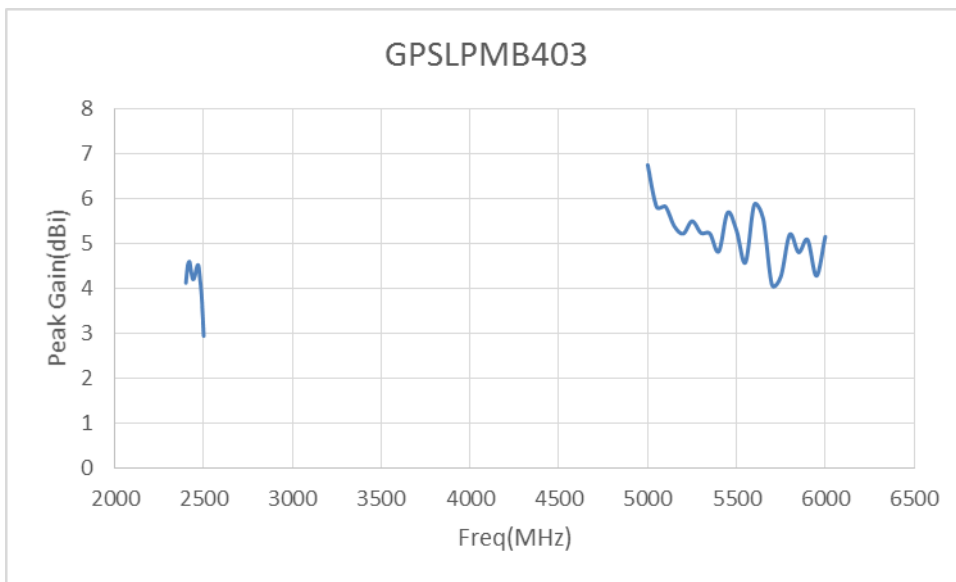
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WiFi Peak Gain*



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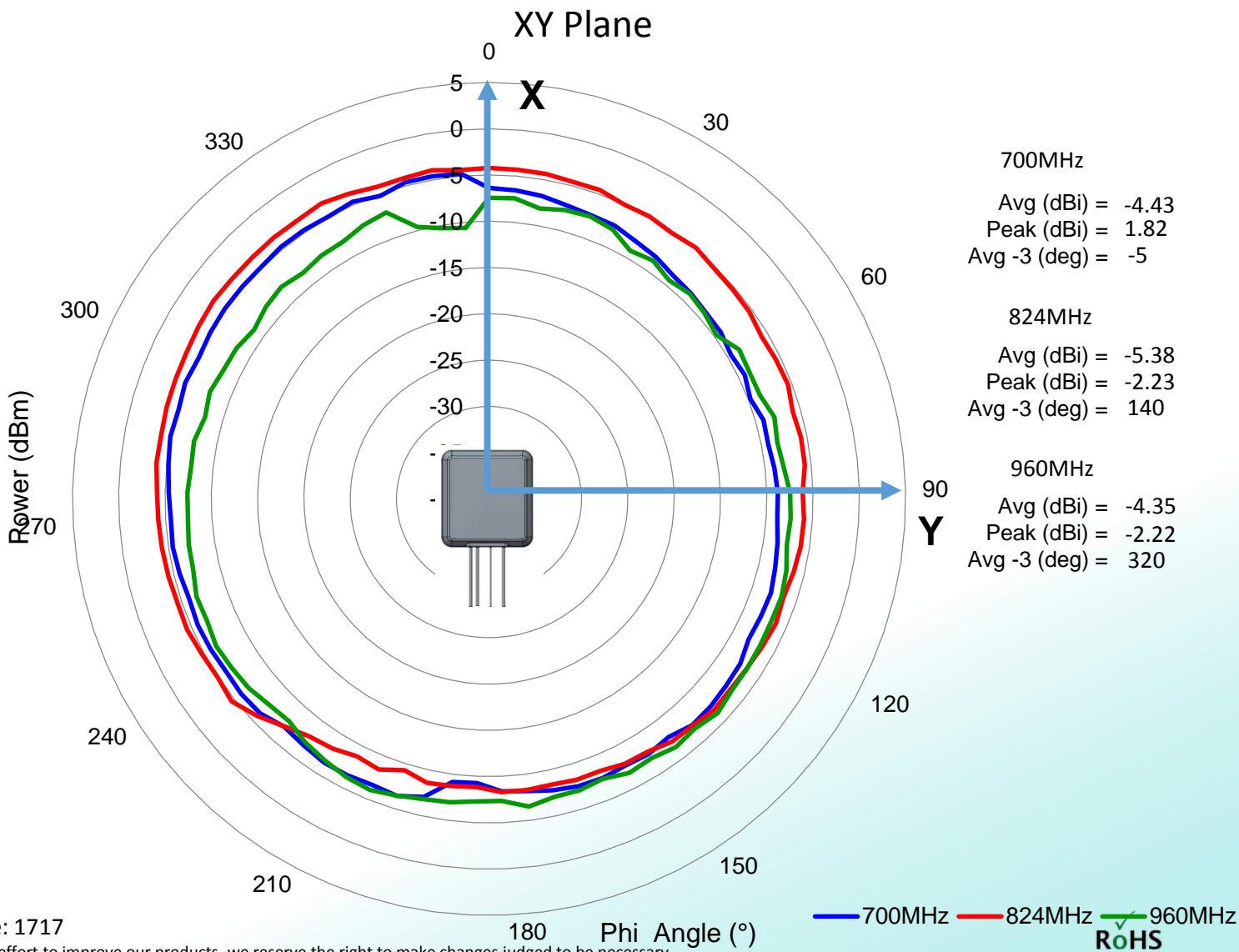
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CHARTS

Gain Plots LTE1



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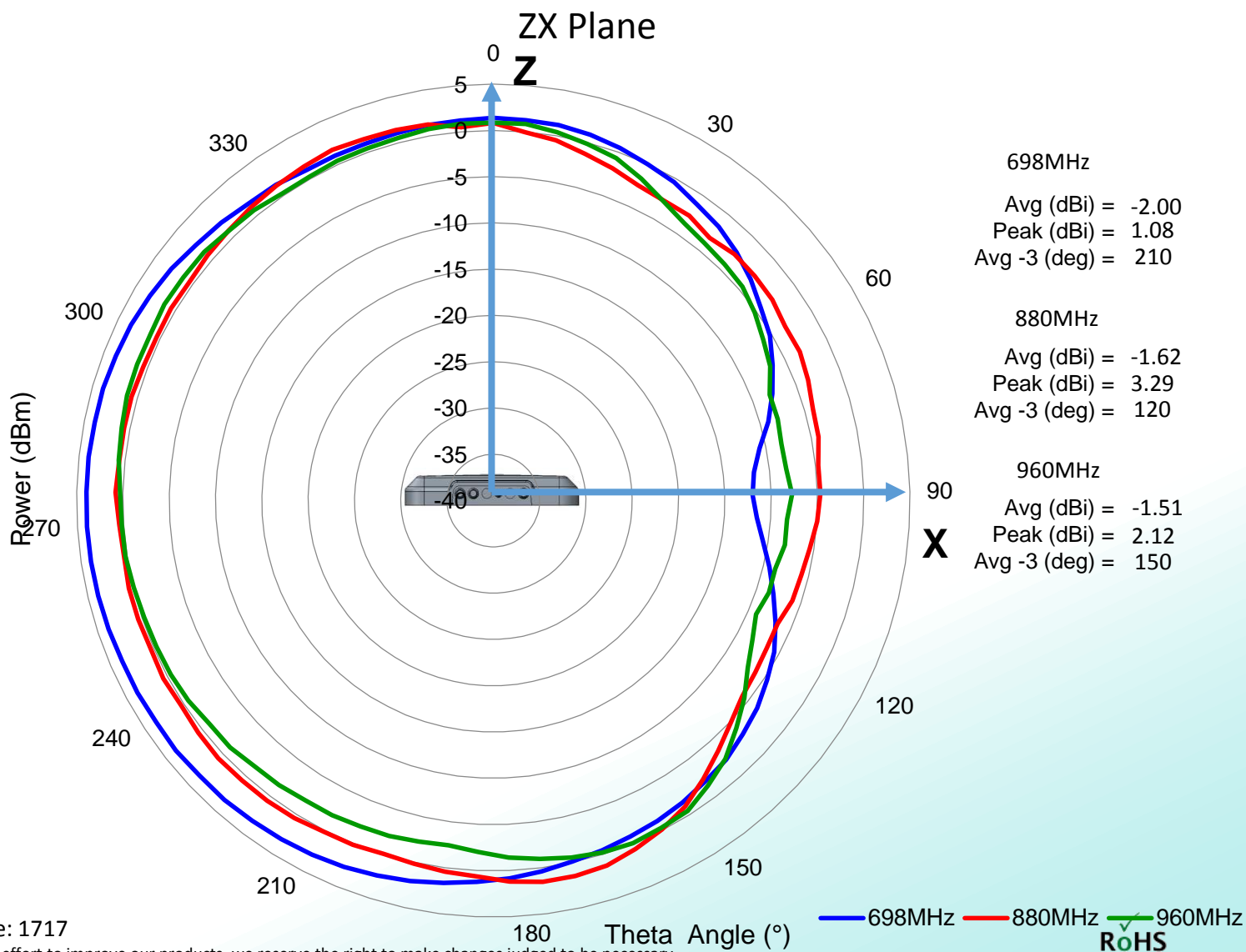
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PART NUMBER: GPSLPMB403

CHARTS

Gain Plots LTE1



Issue: 1717

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Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
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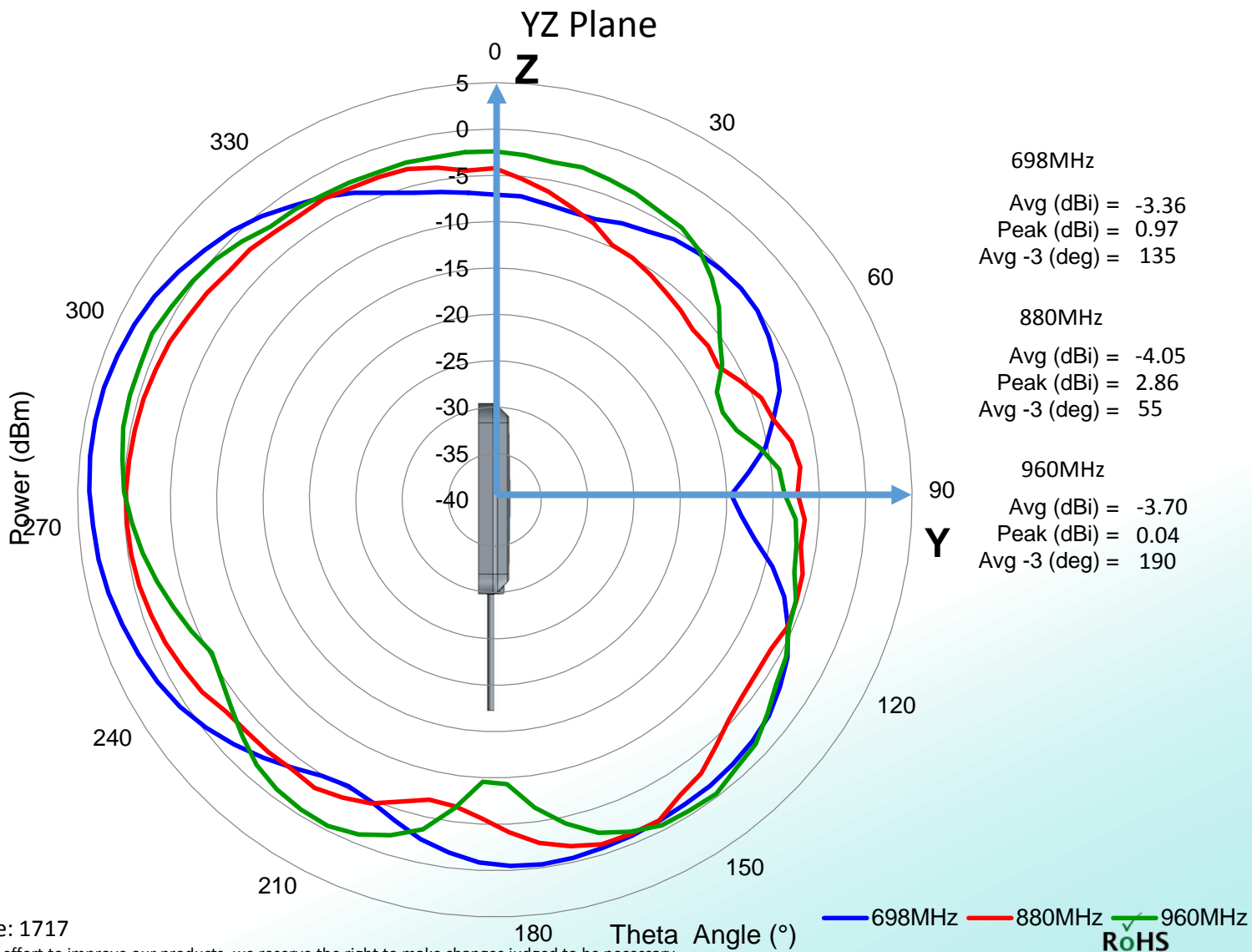
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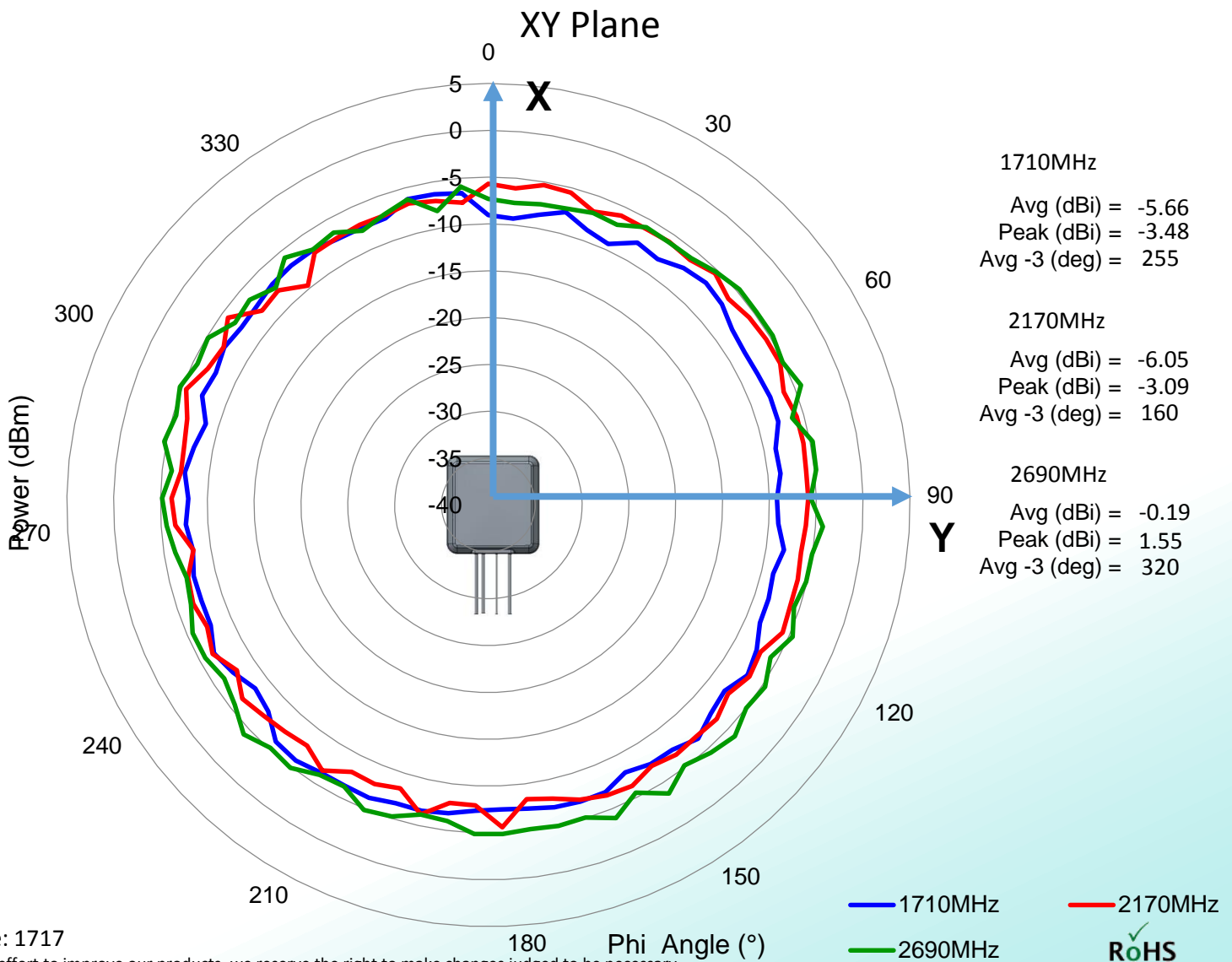
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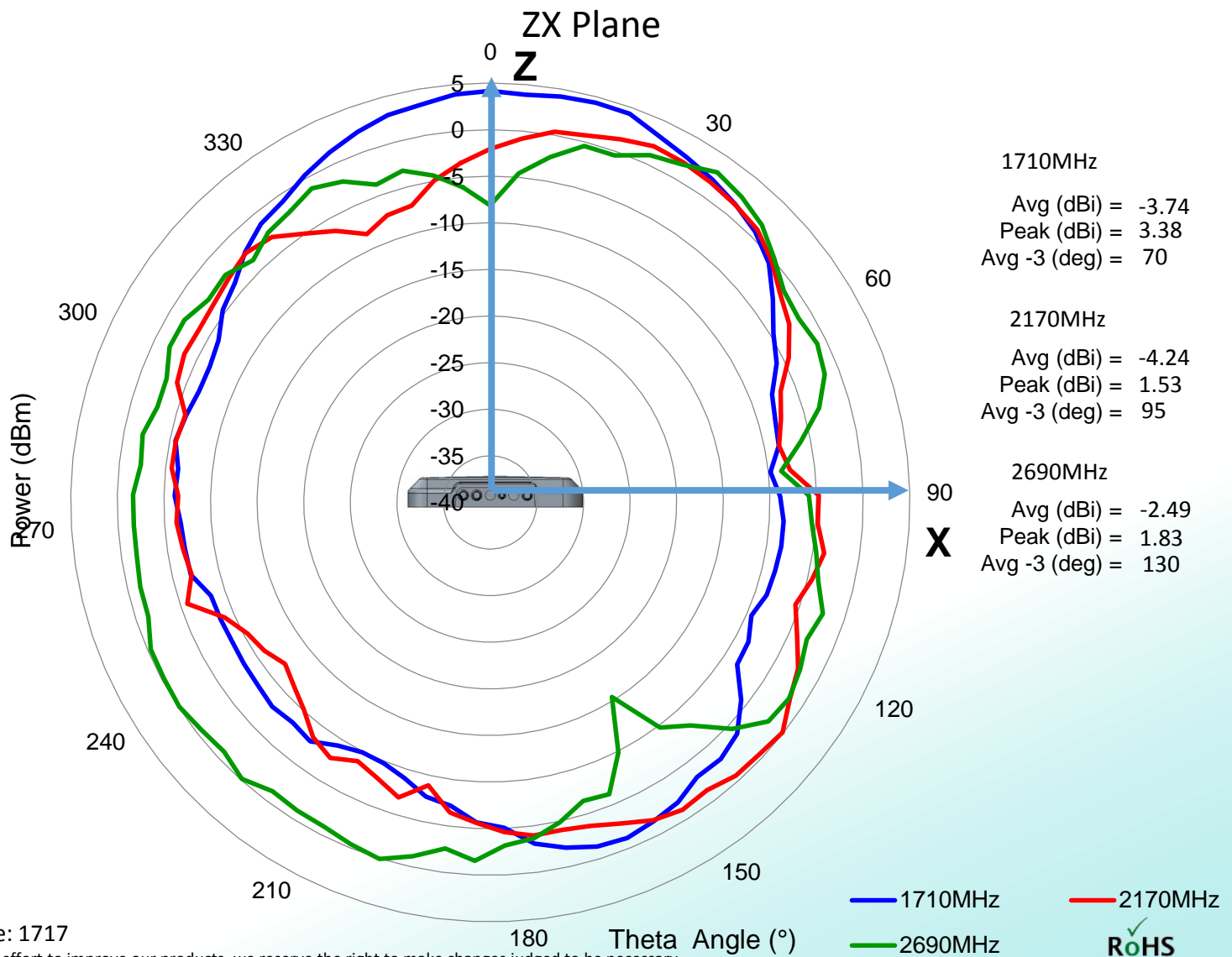
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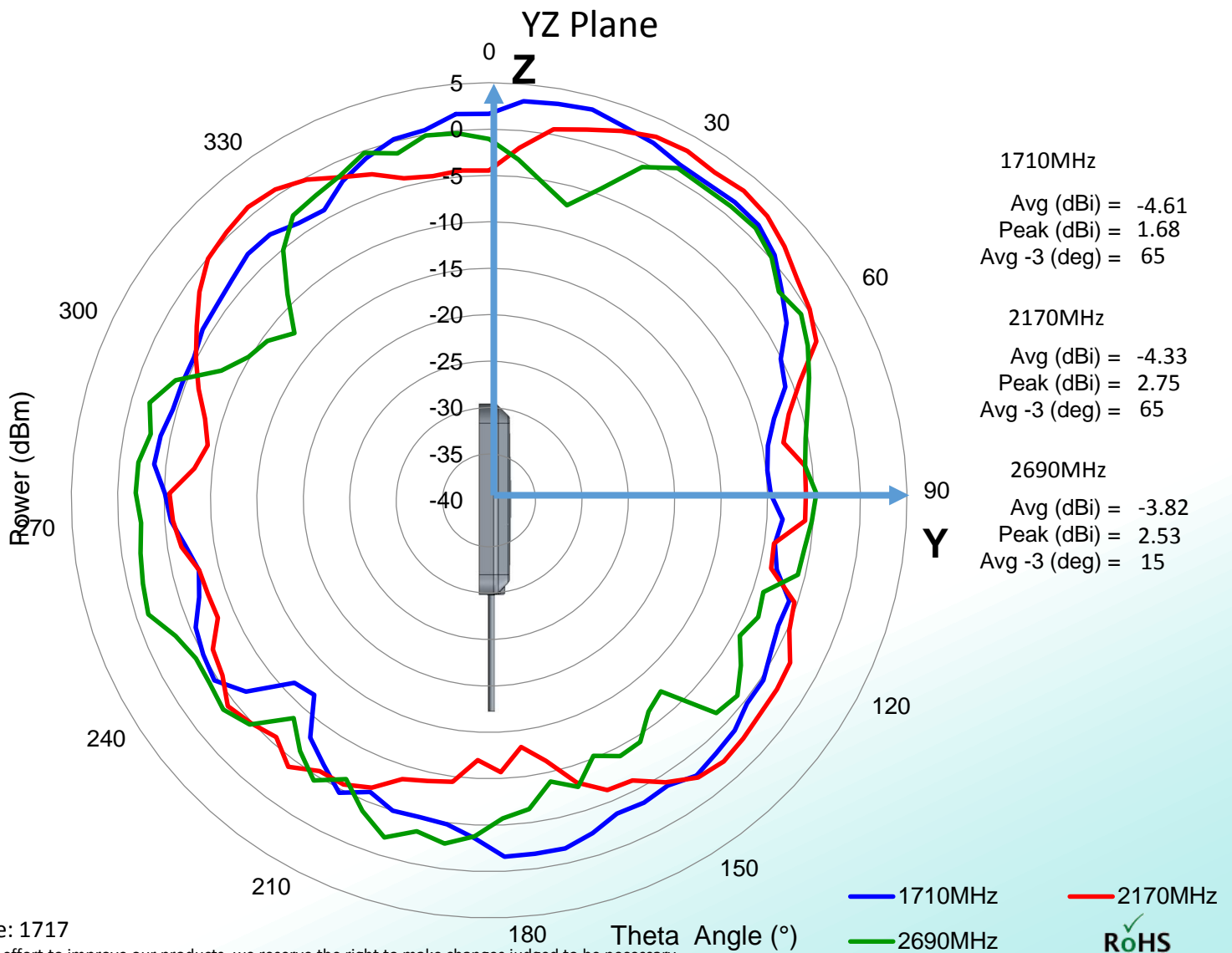
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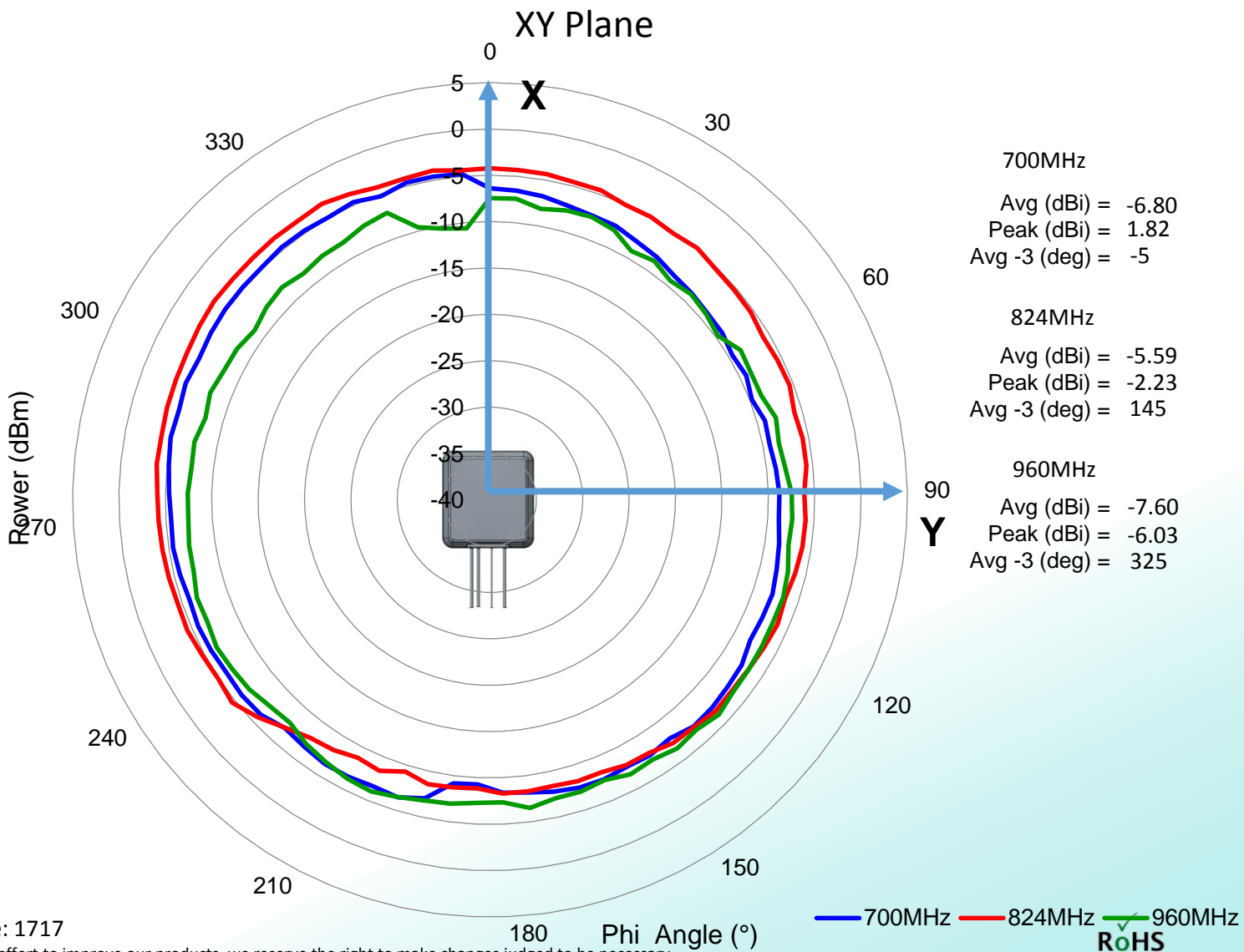
Description: 2xLTE, WiFi, GNSS Multiband Vehicular Antenna

Series: Low Profile MB

PART NUMBER: GPSLPMB403

CHARTS

Gain Plots LTE2



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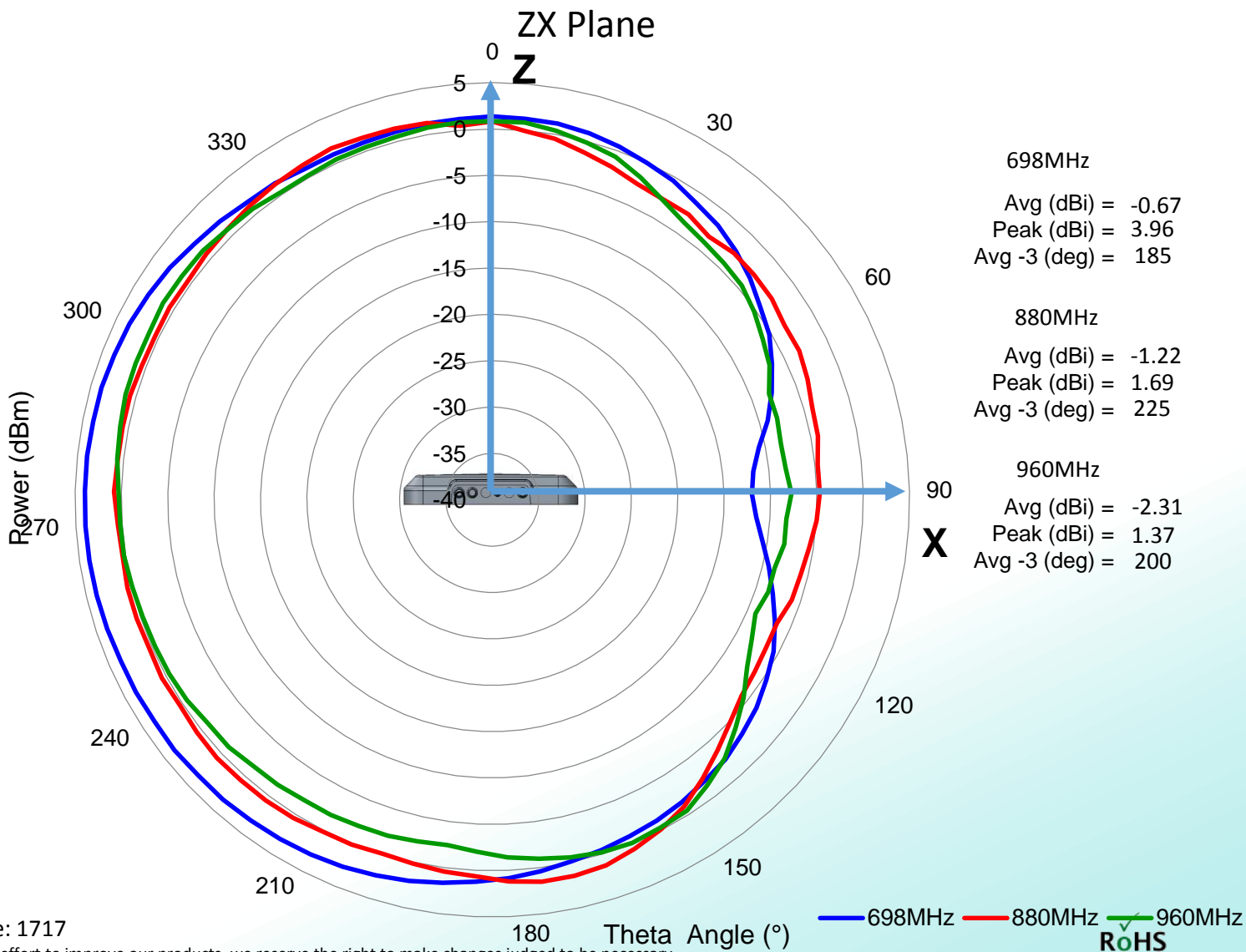
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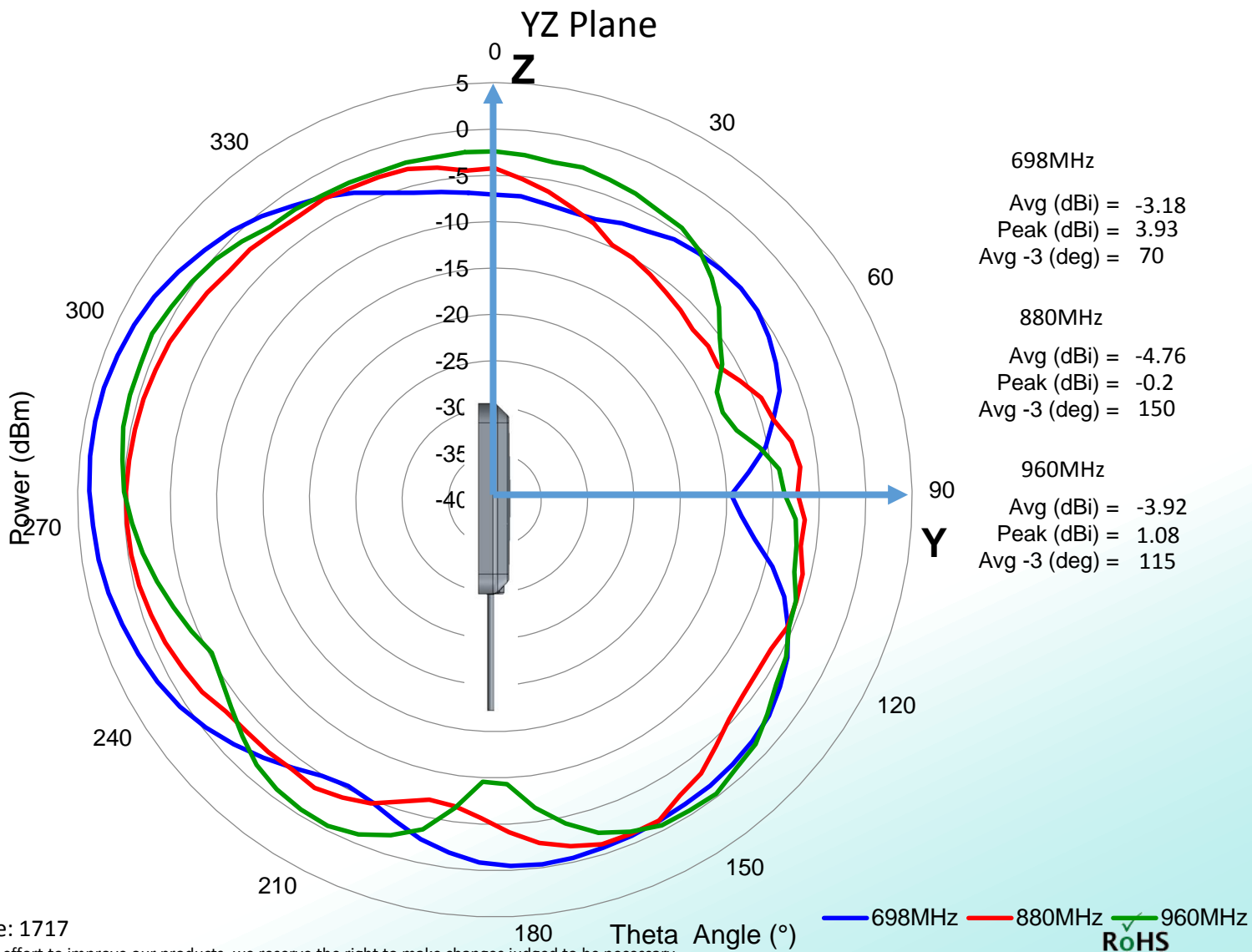
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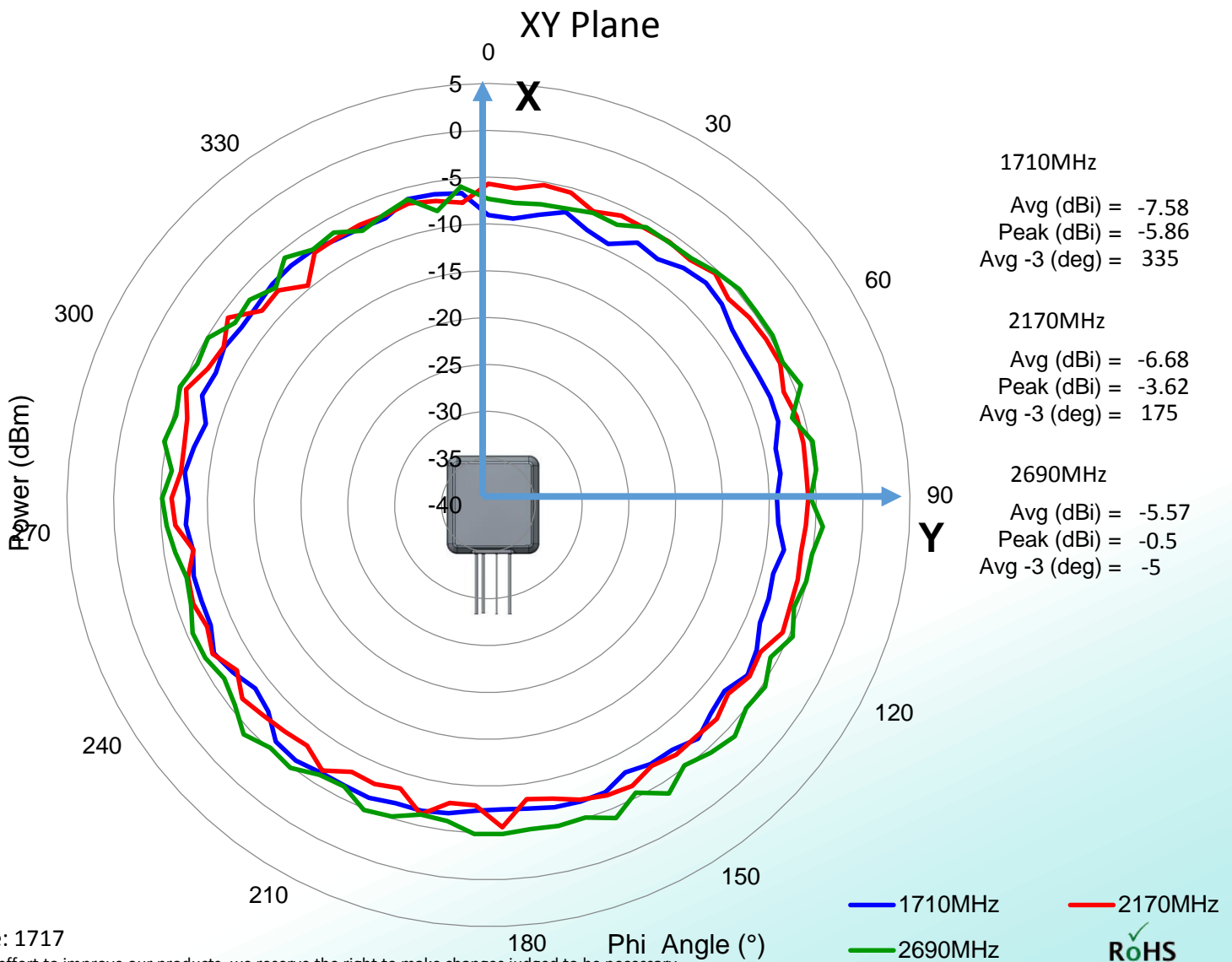
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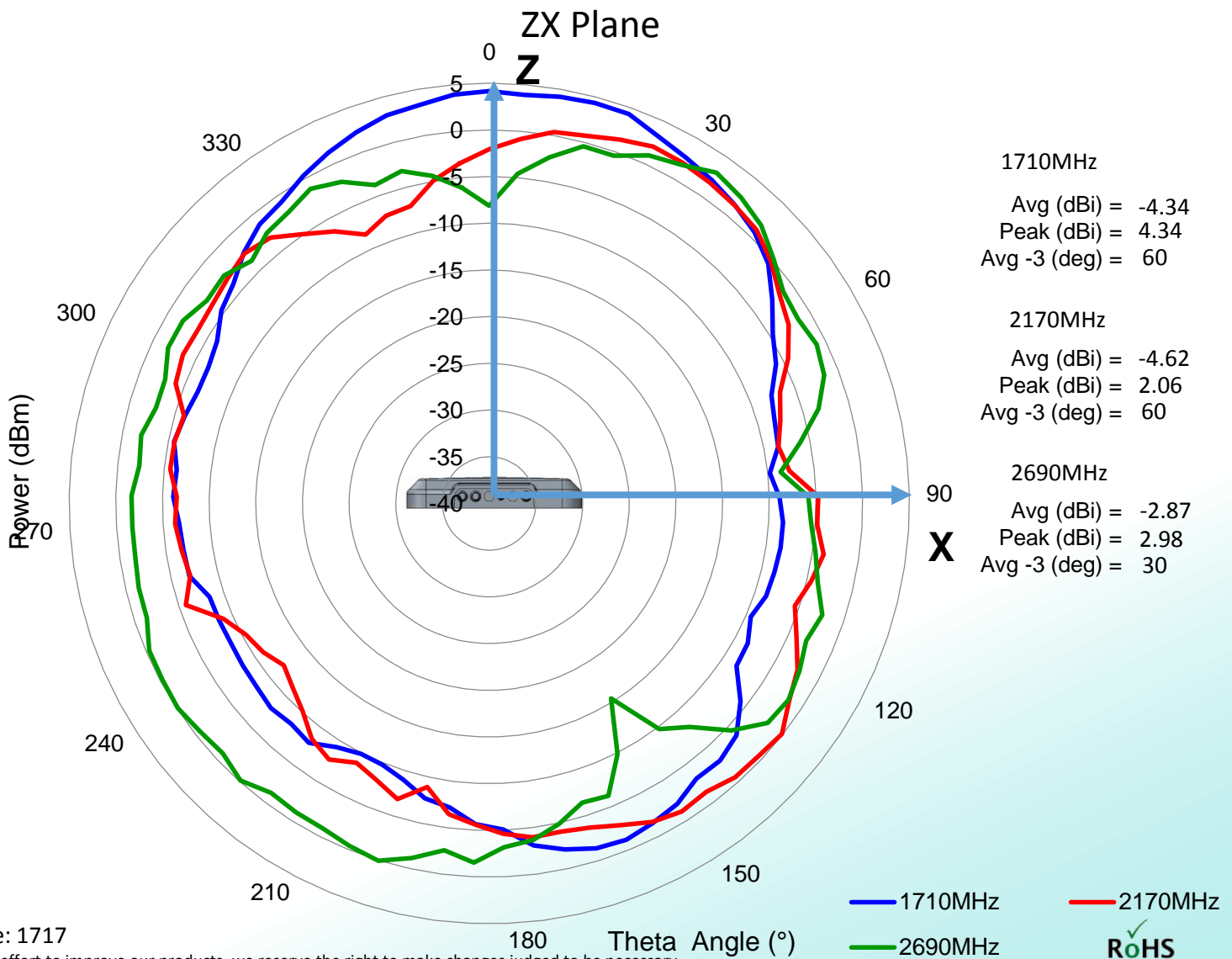
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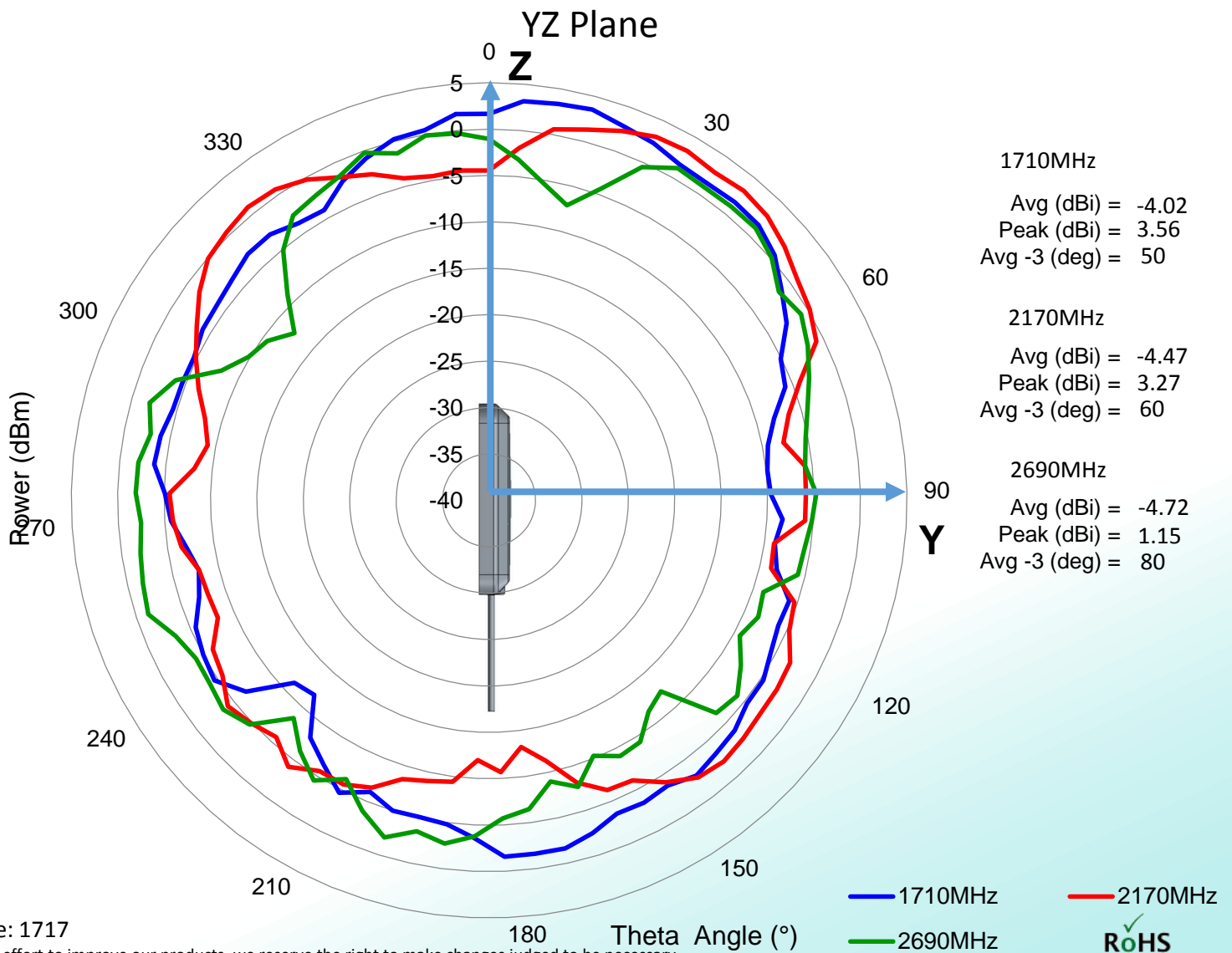
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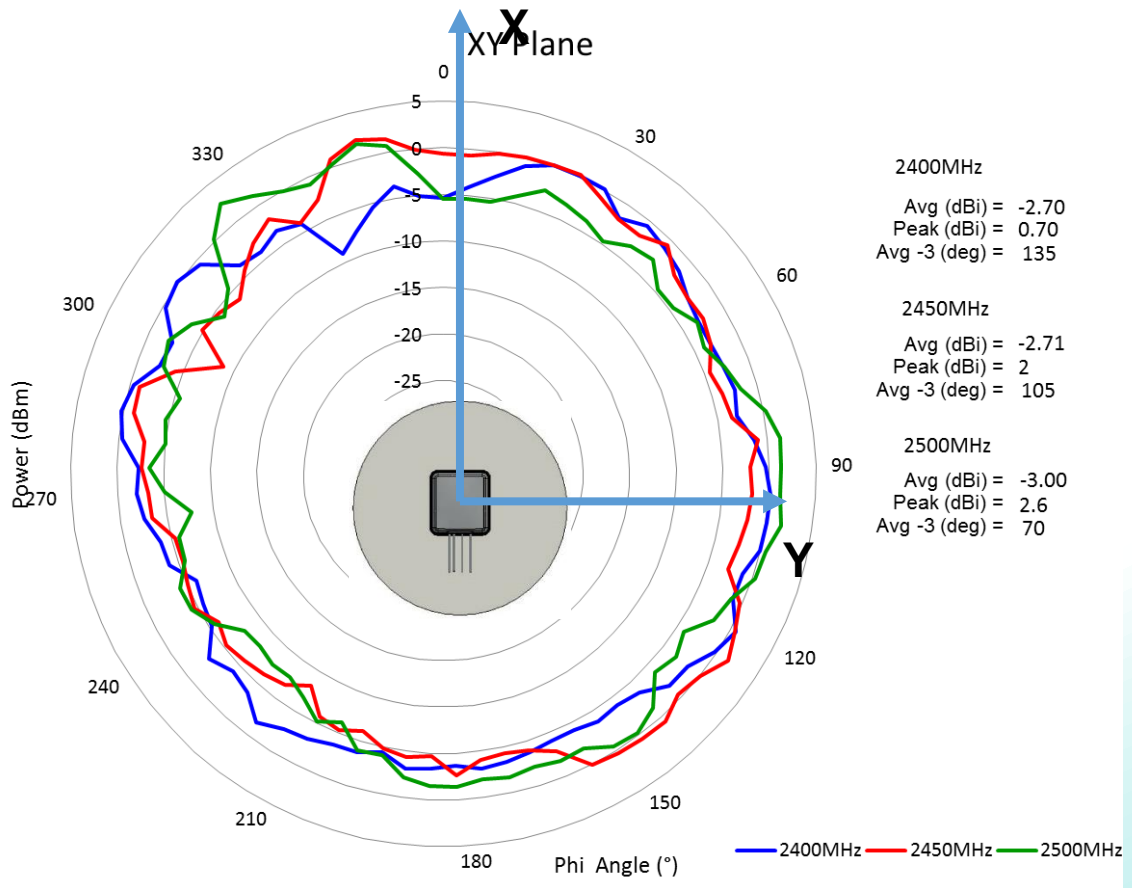
Description: 2xLTE, WiFi, GNSS Multiband Vehicular Antenna

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PART NUMBER: GPSLPMB403

CHARTS

Gain Plots WiFi*



* Test on bracket and diameter is 500mm ground plane

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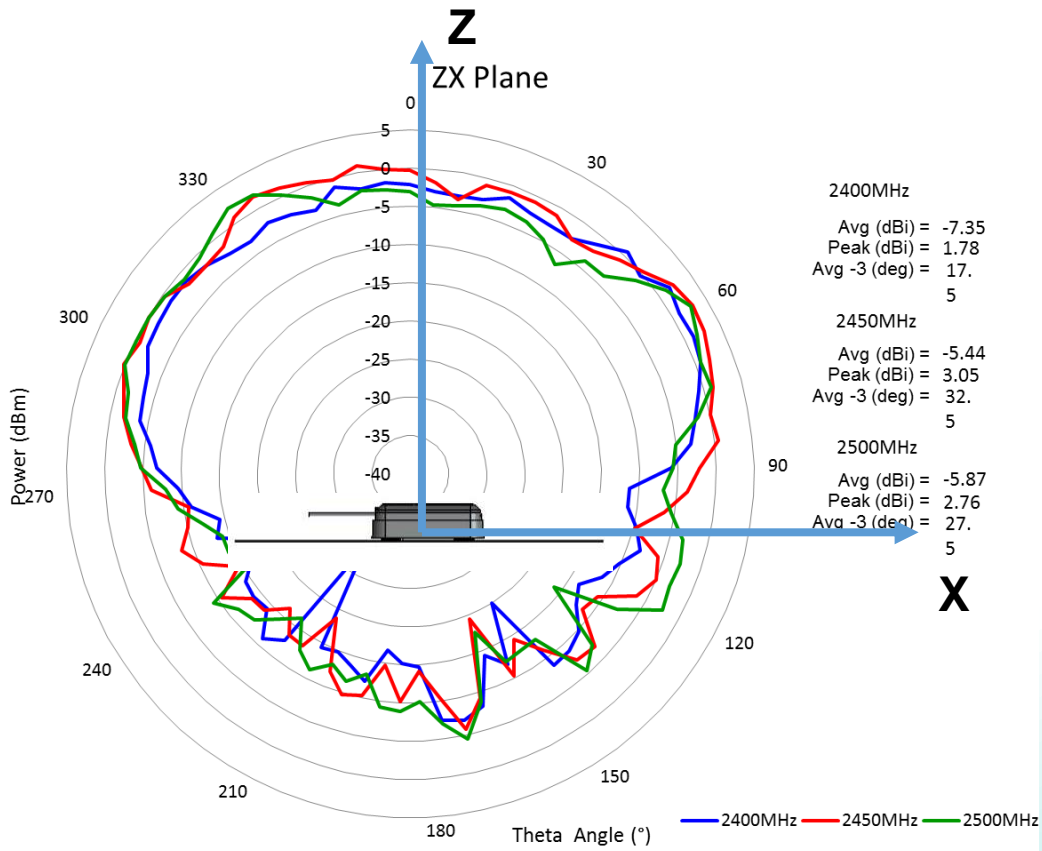
Description: 2xLTE, WiFi, GNSS Multiband Vehicular Antenna

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CHARTS

Gain Plots WIFI*



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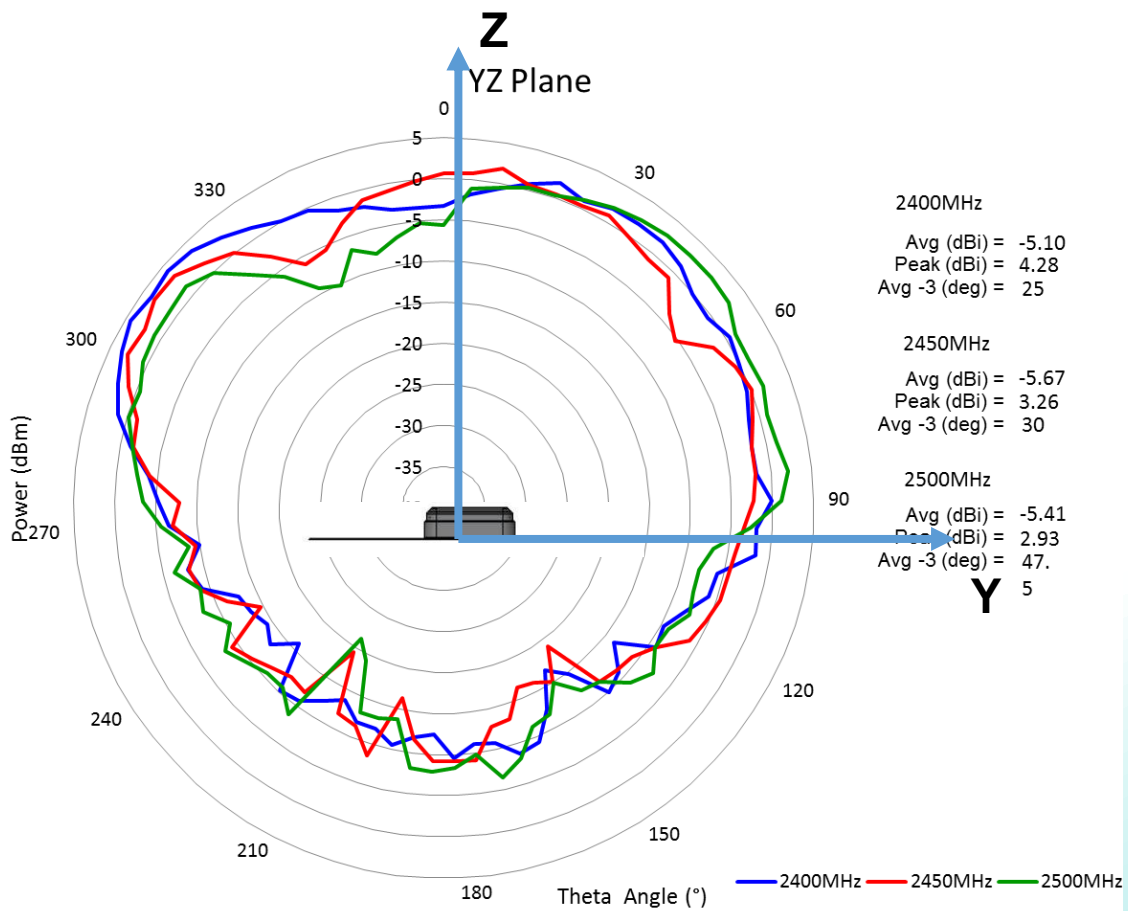
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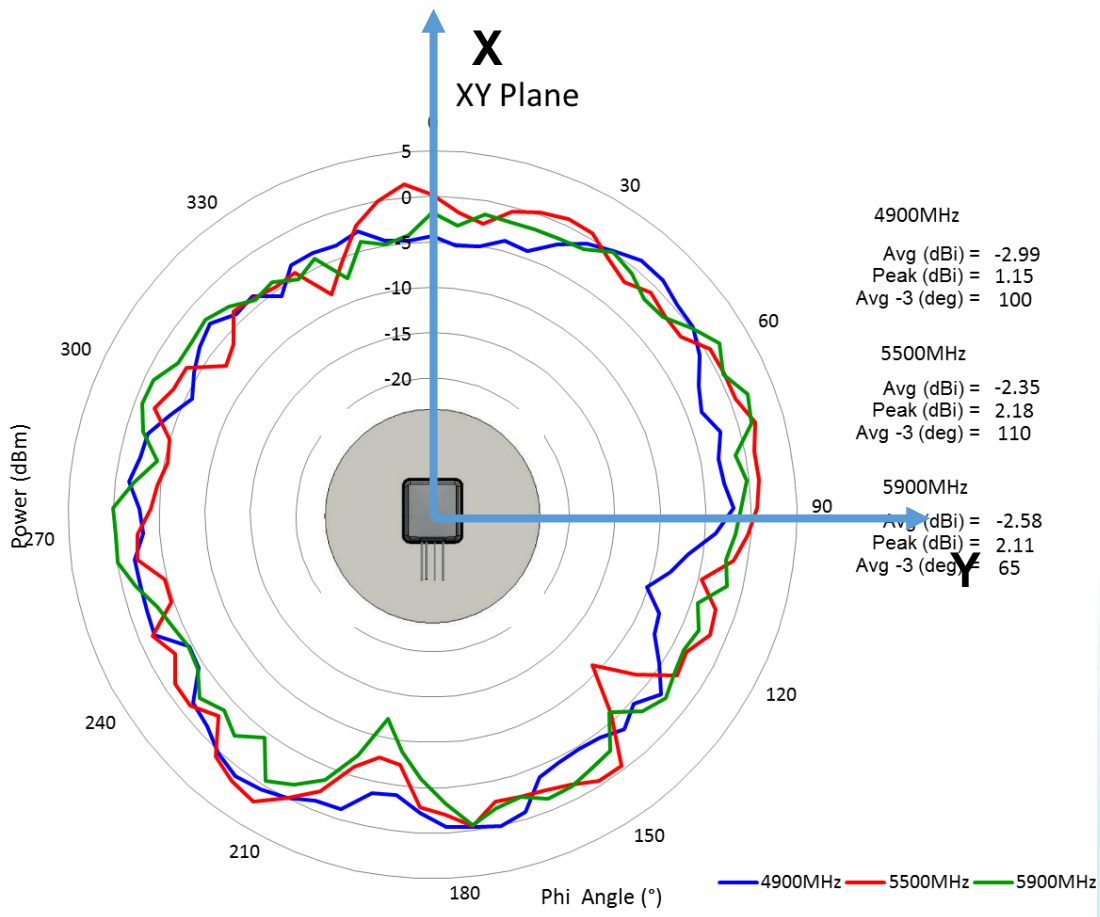
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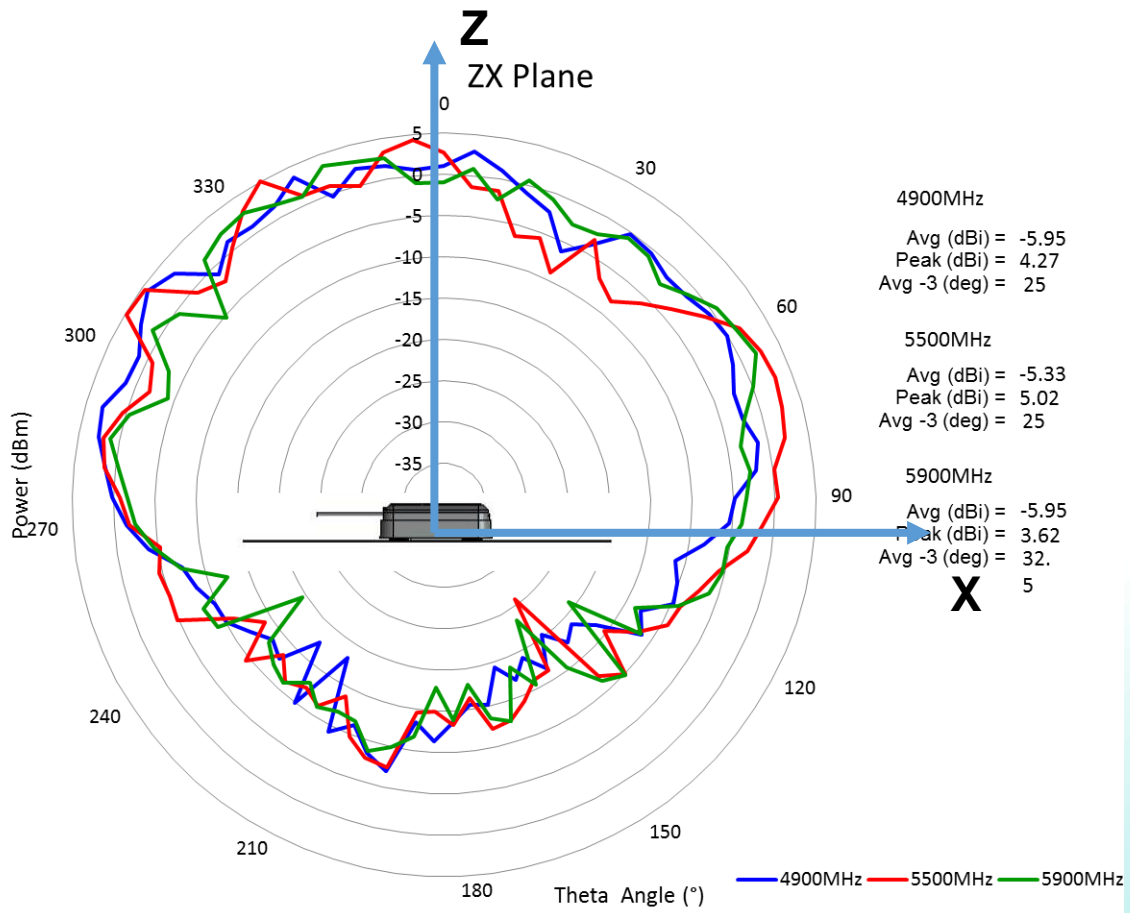
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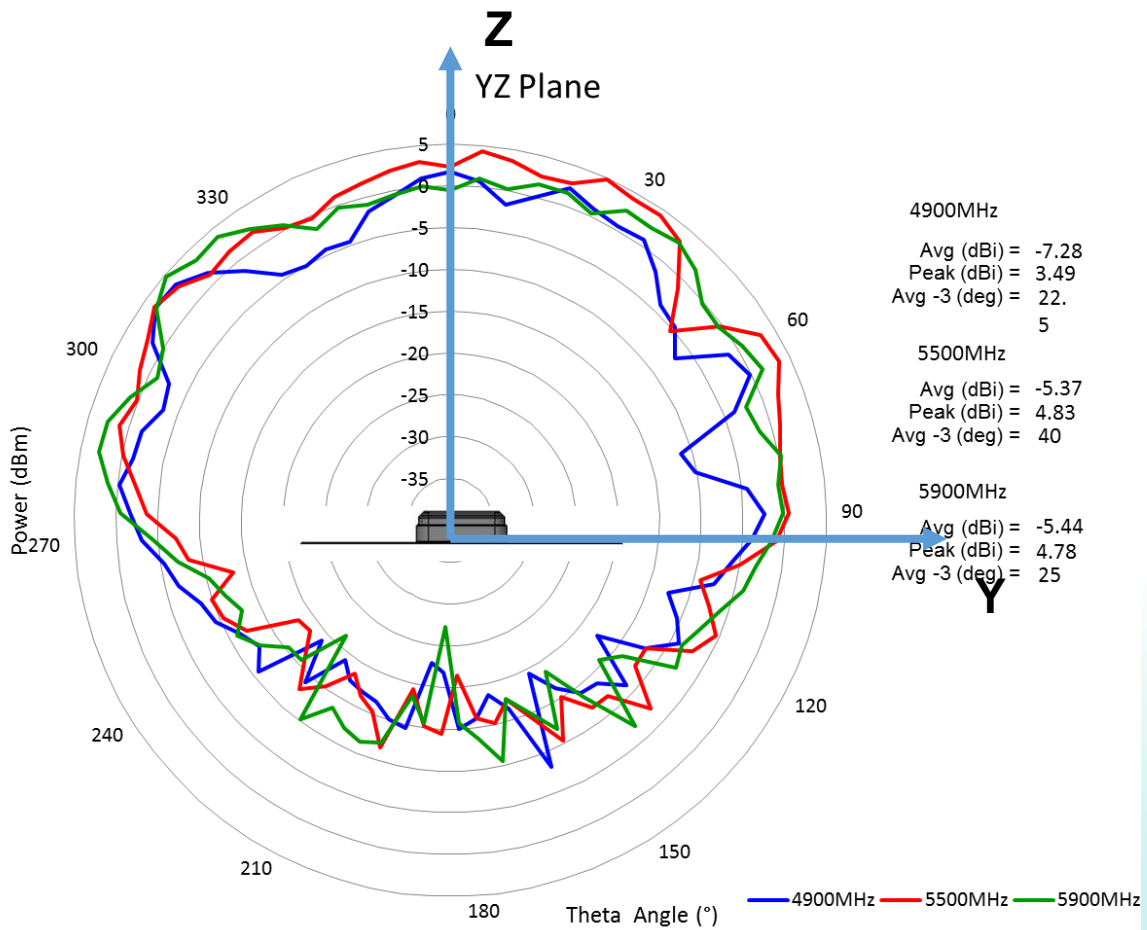
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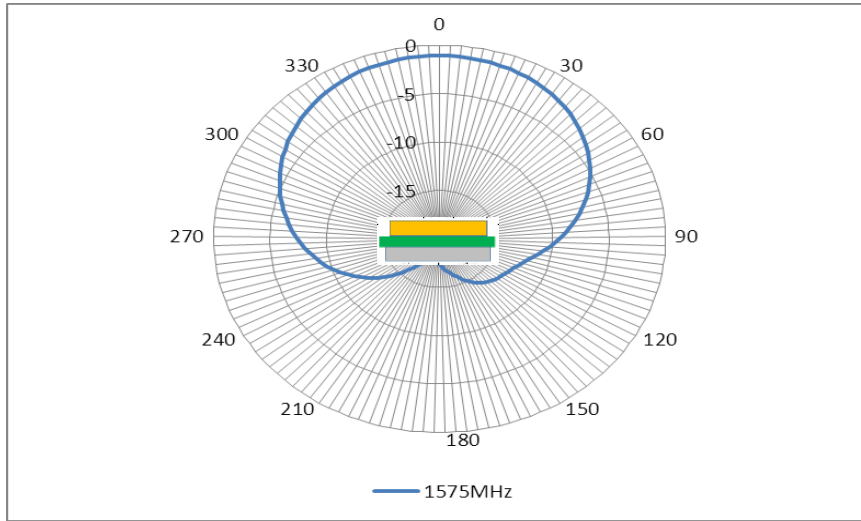
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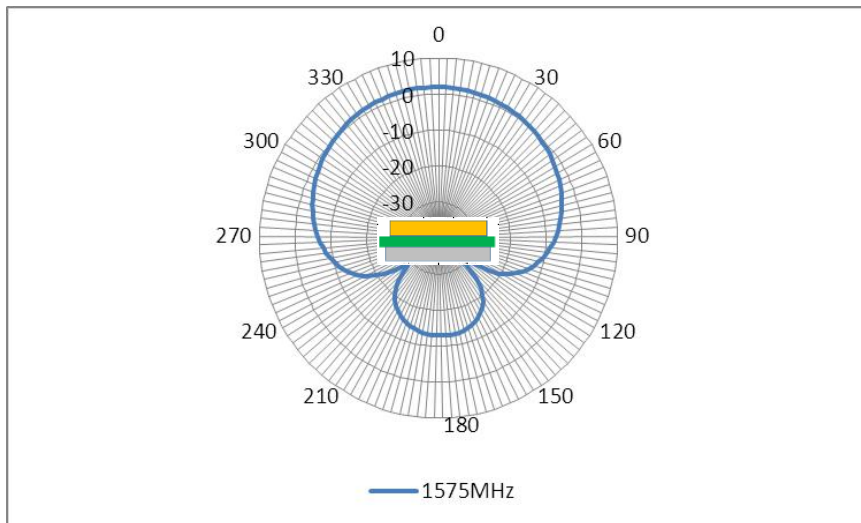
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CHARTS

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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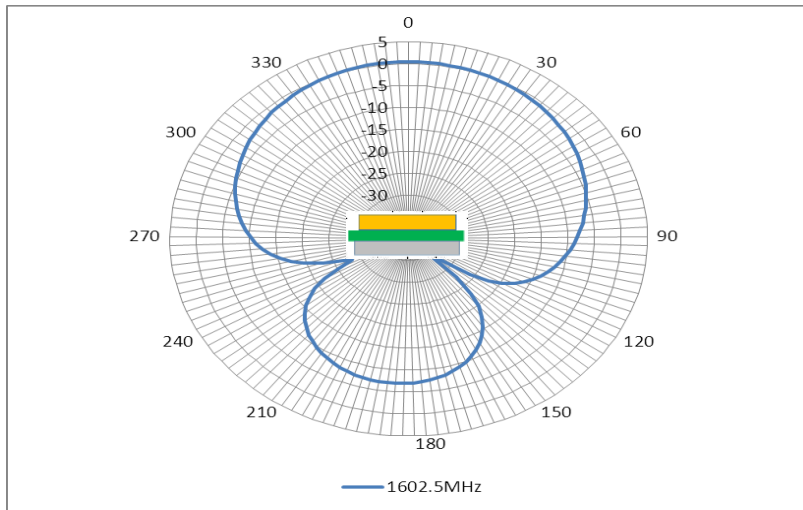
Description: 2xLTE, WiFi, GNSS Multiband Vehicular Antenna

Series: Low Profile MB

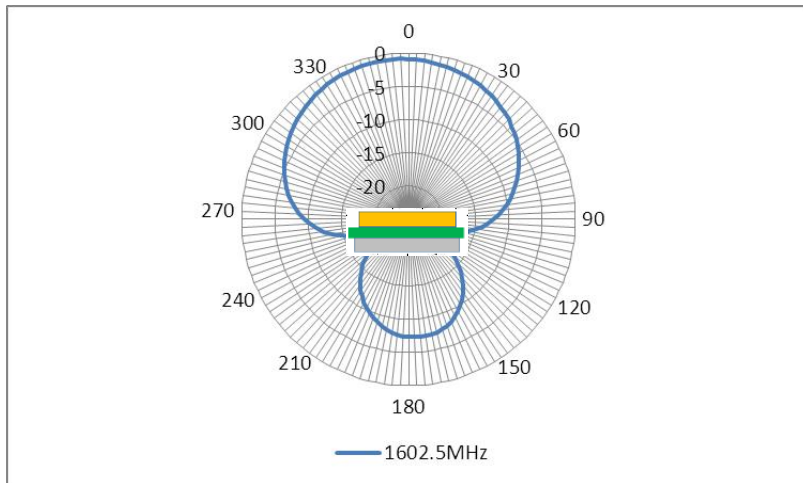
PART NUMBER: GPSPMB403

CHARTS

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



25 X 25 X 4mm Ceramic Antenna



25 X 25 X 4mm Ceramic Antenna

Issue: 1717

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

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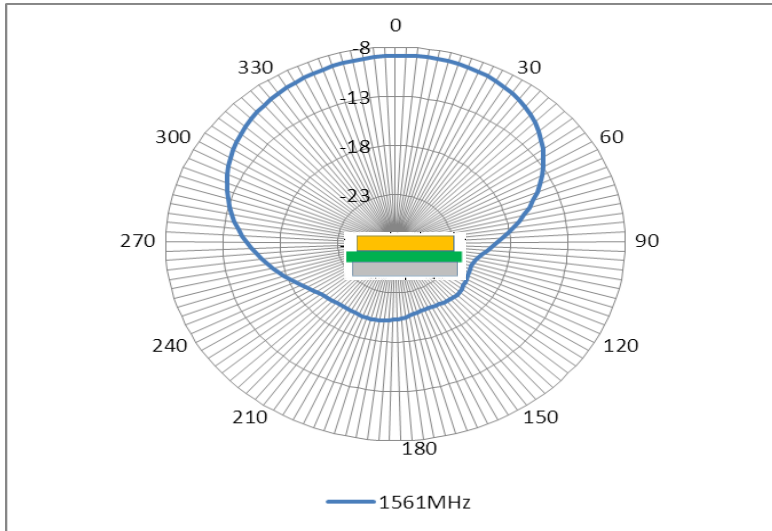
Description: 2xLTE, WiFi, GNSS Multiband Vehicular Antenna

Series: Low Profile MB

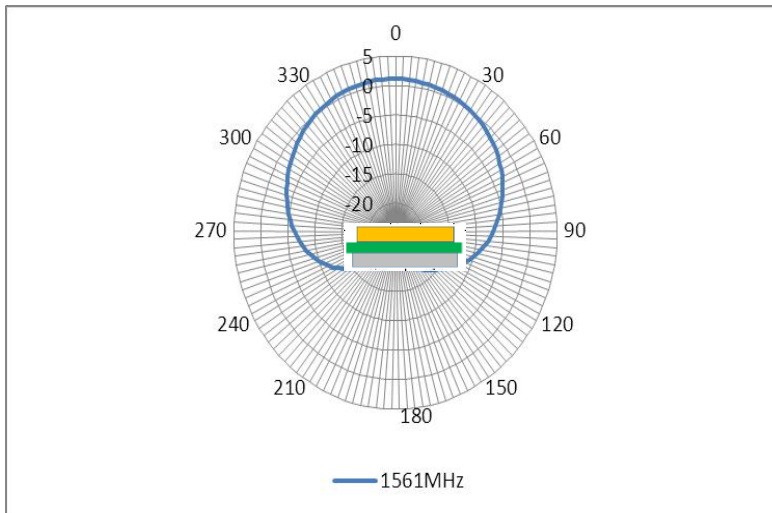
PART NUMBER: GPSPMB403

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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Description: 2xLTE, WiFi, GNSS Multiband
Vehicular Antenna

Series: Low Profile MB

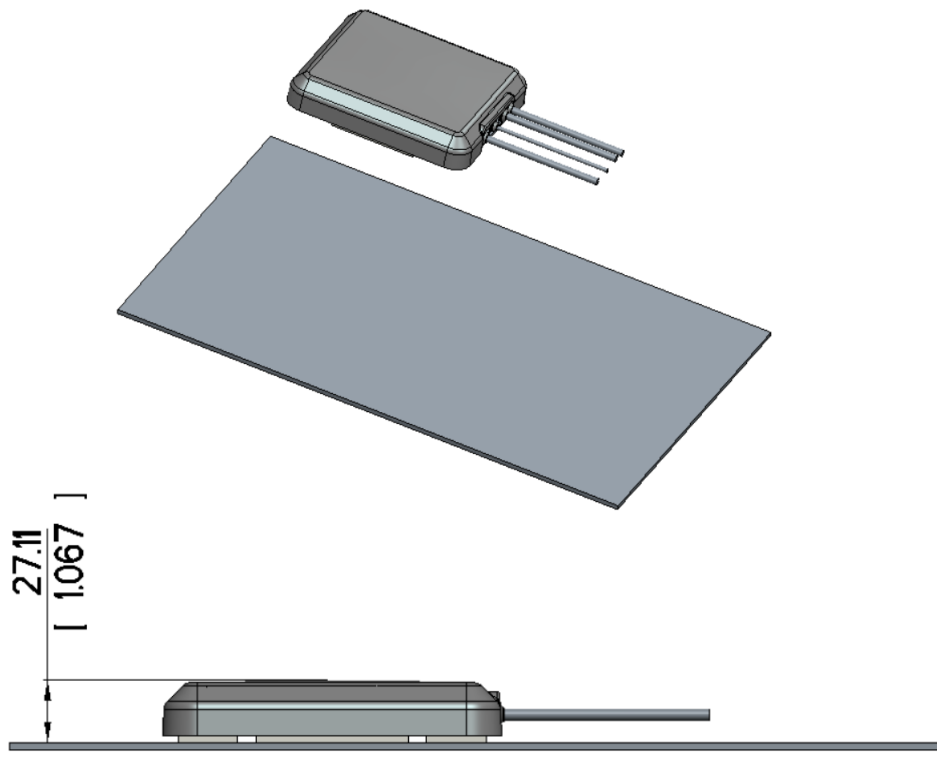
PART NUMBER: GPSPMB403

PACKAGING

- Each antenna packed in a plastic bag
- 24 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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Description: 2xLTE, WiFi, GNSS Multiband Vehicular Antenna

Series: Low Profile MB

PART NUMBER: GPSLPMB403

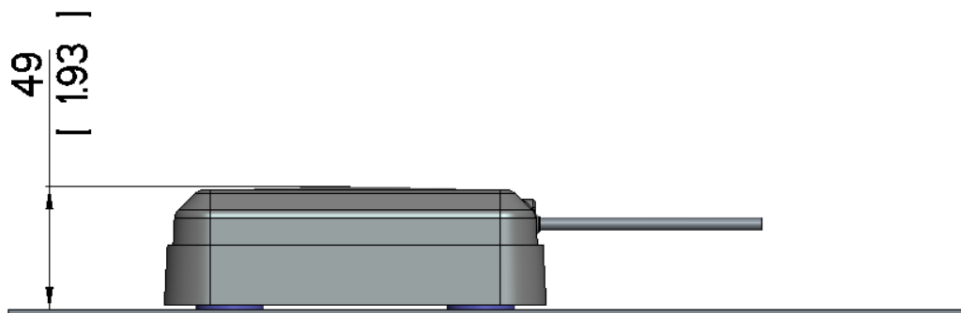
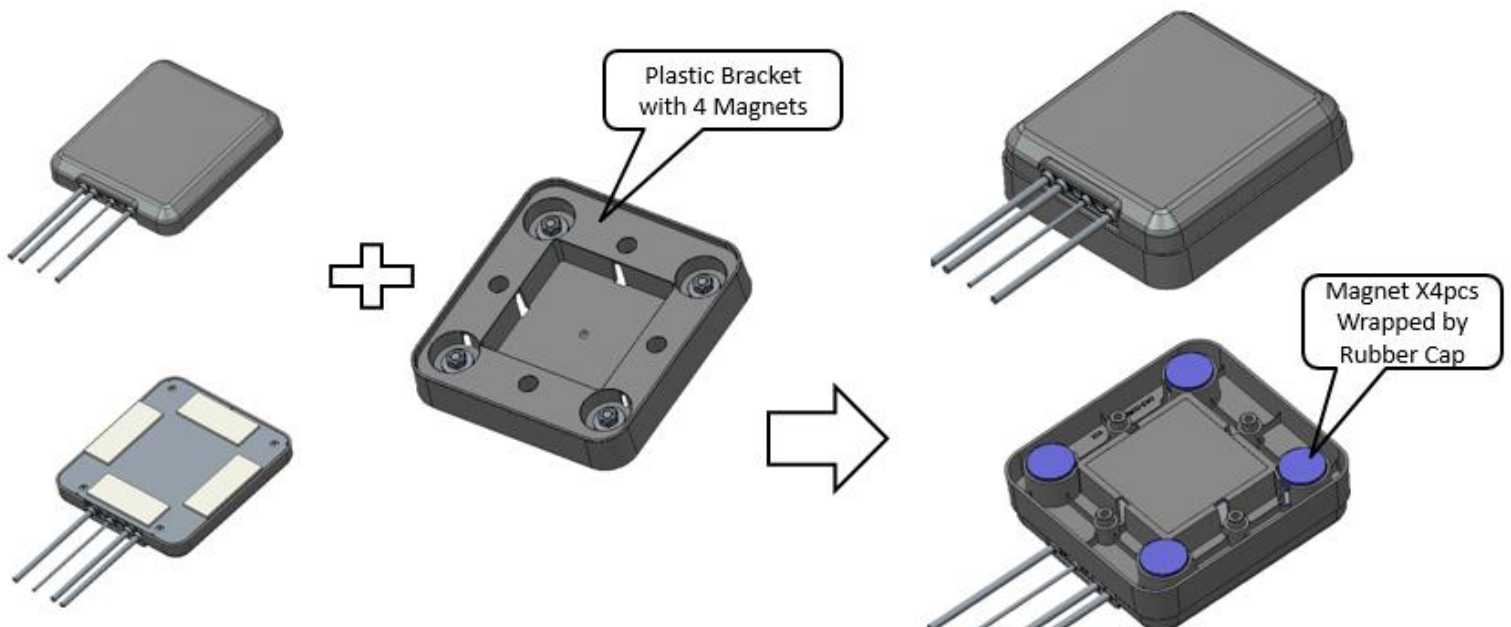
ASSEMBLY

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, 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 “stick” on the iron metals by magnets, and also could be removed from the metal surface easily without surface damage.



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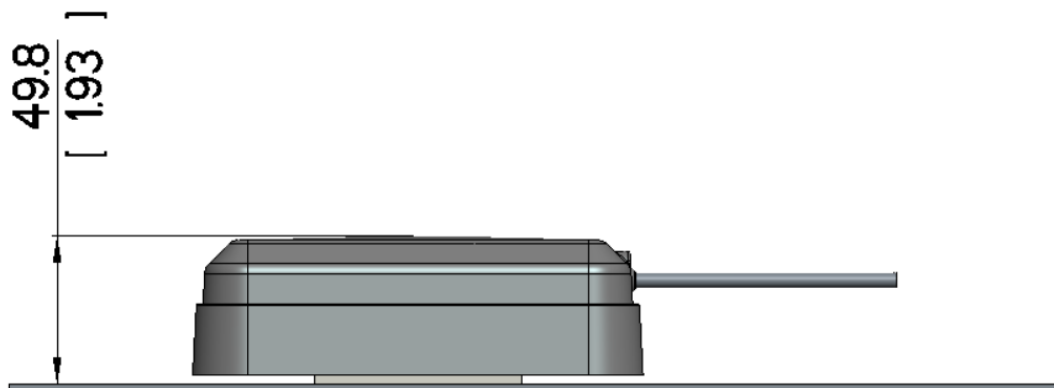
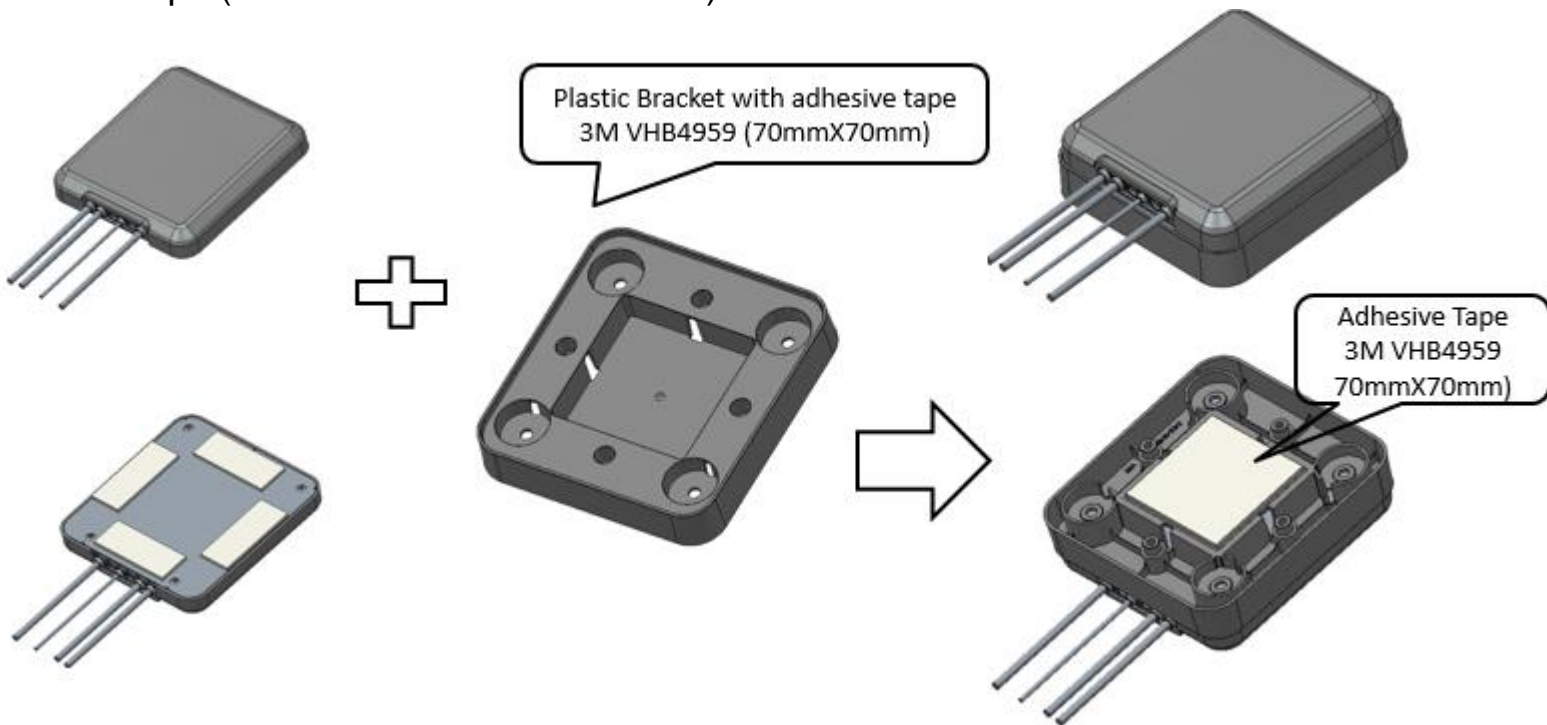
PART NUMBER: GPSPMB403

ASSEMBLY

Option 2, 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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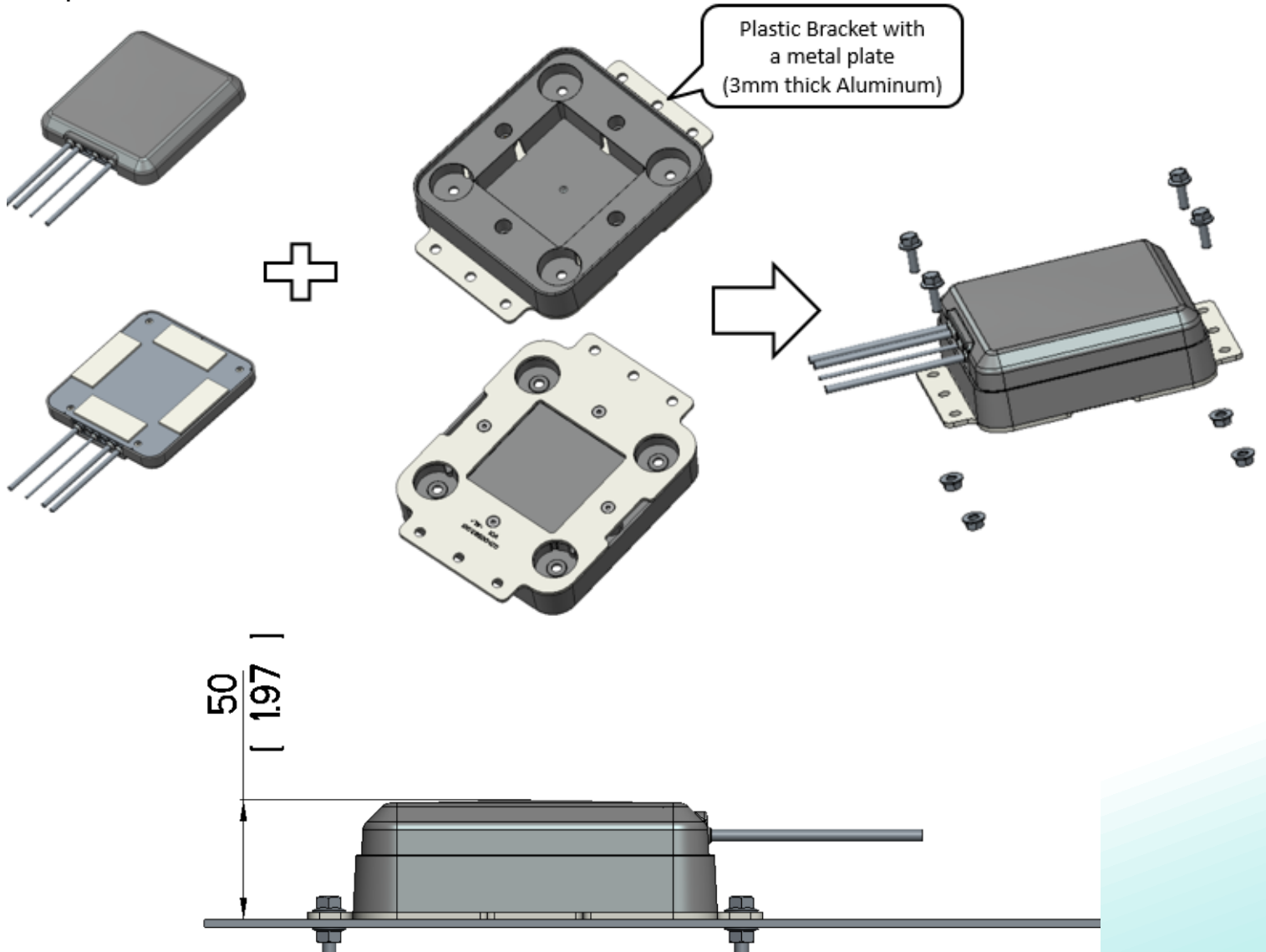
ASSEMBLY

Option 3, Metal Plate Mount

Permanent (but removable) mount with mechanical fastening (such as screws)

Firstly, the antenna adhered on a bracket by the adhesive tape,

Then the whole assemble could mount on the mounting surface with 4pcs M6 screws and 4pcs M6 nuts .



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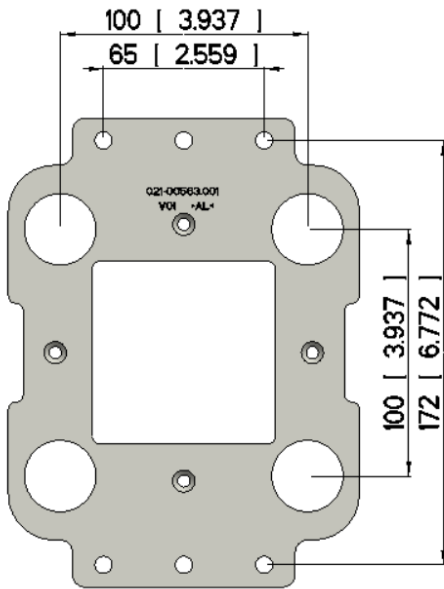
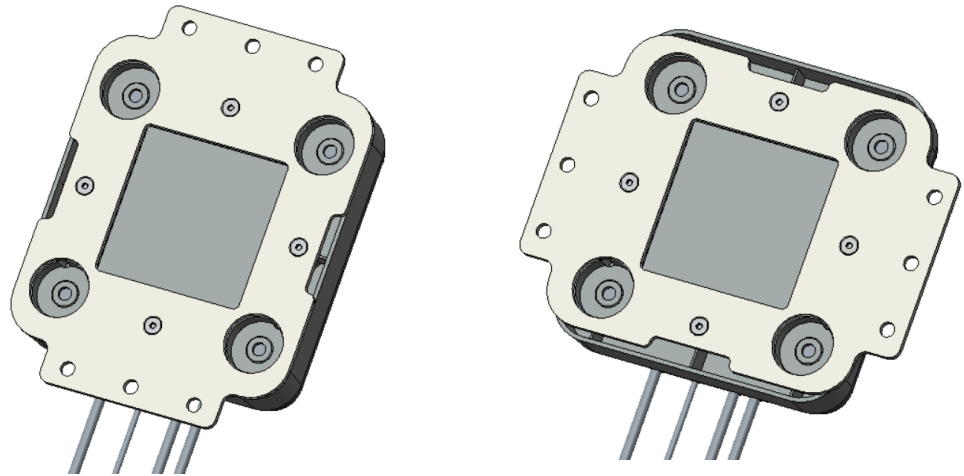
ASSEMBLY

Option 3, Metal Plate Mount

Permanent (but removable) mount with mechanical fastening (such as screws)

The metal plate is made of 3mm aluminum with anodizing (black color).

Different assembly orientation (Vertical/horizontal) of the metal plate is available (shown as below) .



| Item | Mounting Screws and Nuts | Q'ty | Remark |
|------|--------------------------|------|---|
| 1 | Screw - M6 x 12mm | 4pcs | Flanged Hex Head, Serated, DIN 6921, Class 8.8, Steel/Zinc Plated |
| 2 | Screw - M6 x 30mm | 4pcs | Flanged Hex Head, Serated, DIN 6921, Class 8.8, Fully Threaded, Steel/Zinc Plated |
| 3 | Nut - M6 | 4pcs | Flanged, Serated, Class 8, Steel/Zinc Plated |

Mounting hole Dimensions

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