



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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Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

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



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

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

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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
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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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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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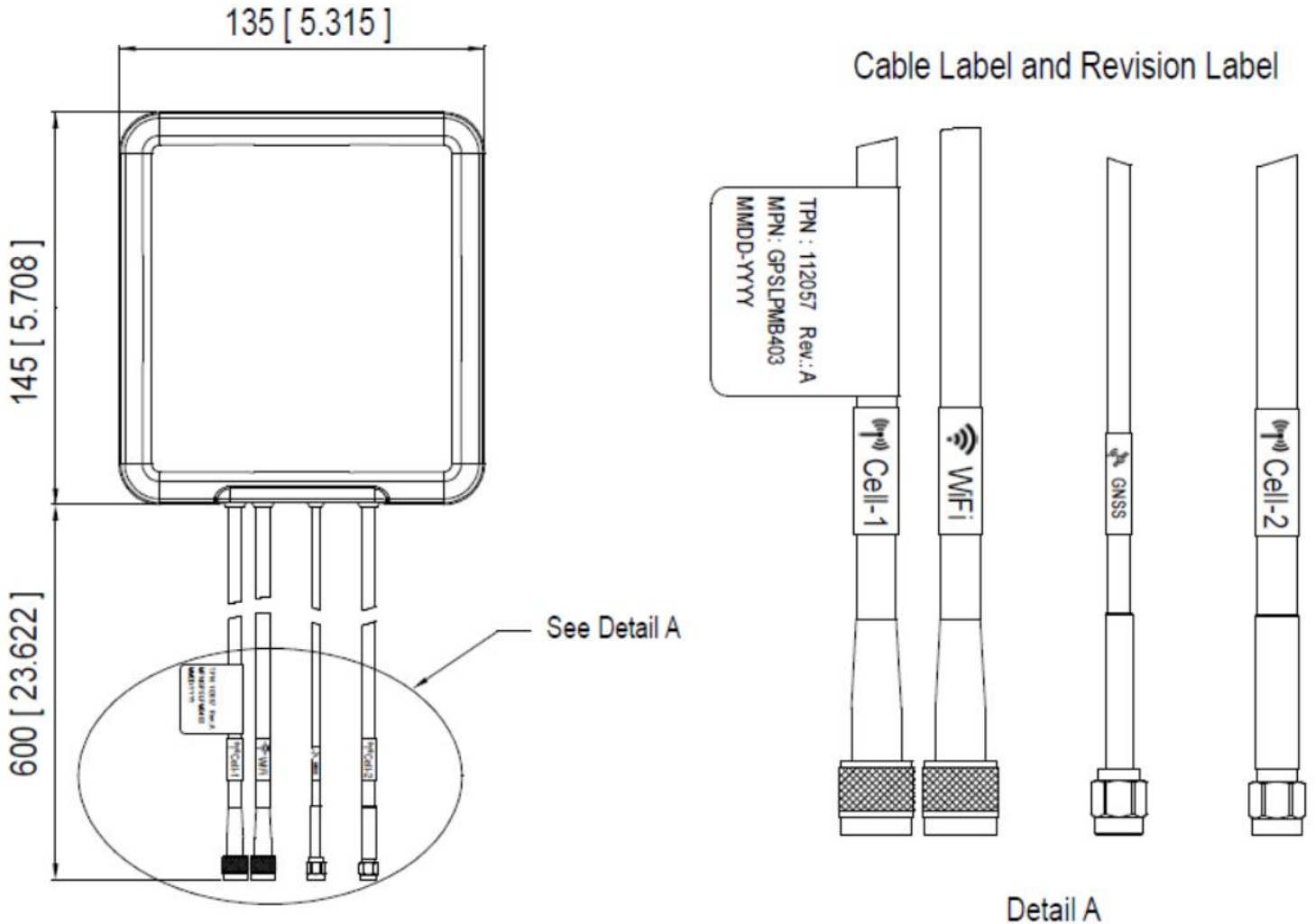


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MECHANICAL DRAWING



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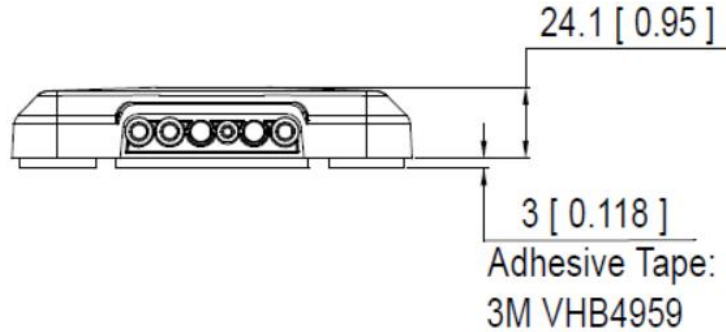


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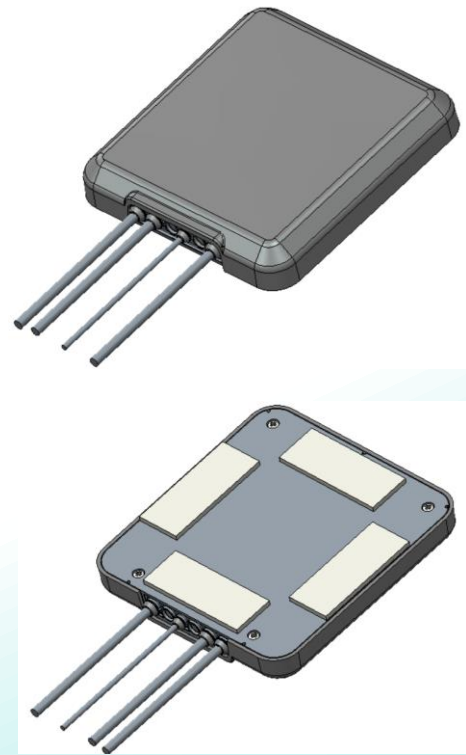
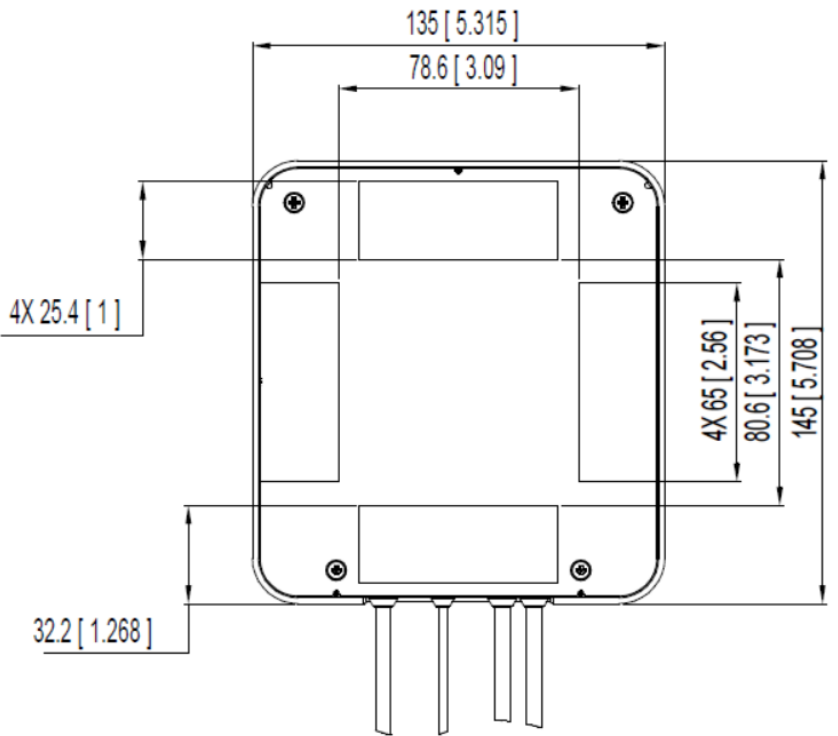
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PART NUMBER: GPSLPMB403

MECHANICAL DRAWING



Adhesive Tape Placement



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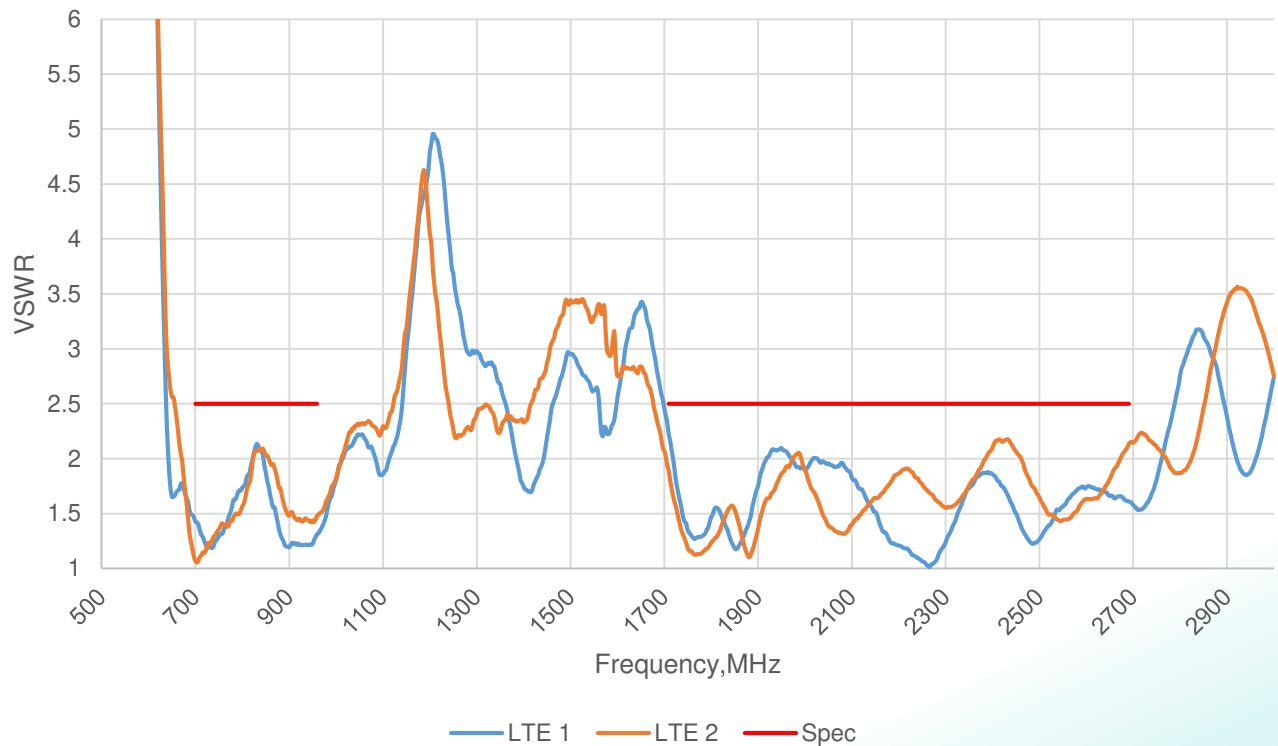
Series: Low Profile MB

PART NUMBER: GPSPMB403

CHARTS

LTE 1 and LTE2 VSWR

VSWR VS Frequency measured in free space



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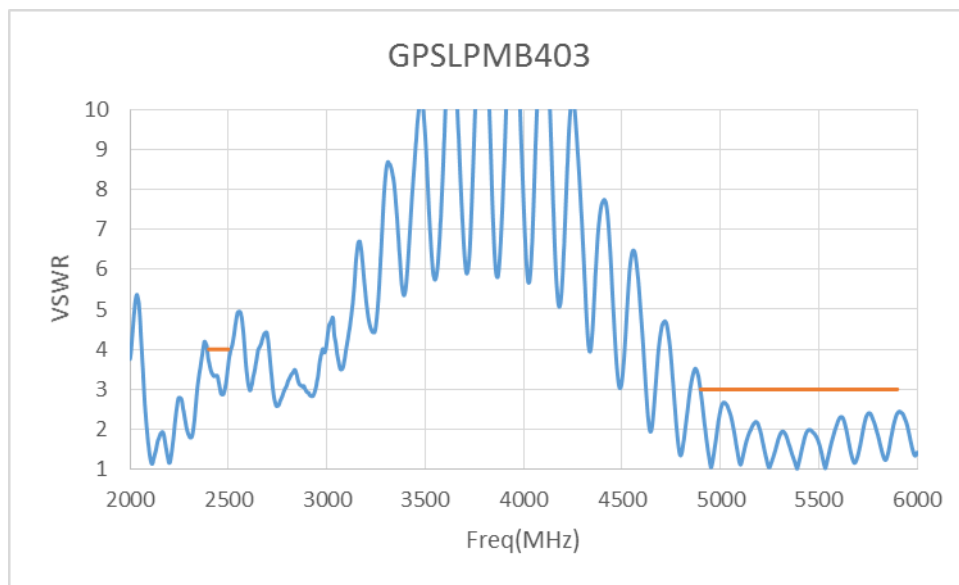
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CHARTS

WiFi VSWR*



* Test on bracket and diameter is 500mm ground plane

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99 Huo Ju Road(#29 Bldg,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
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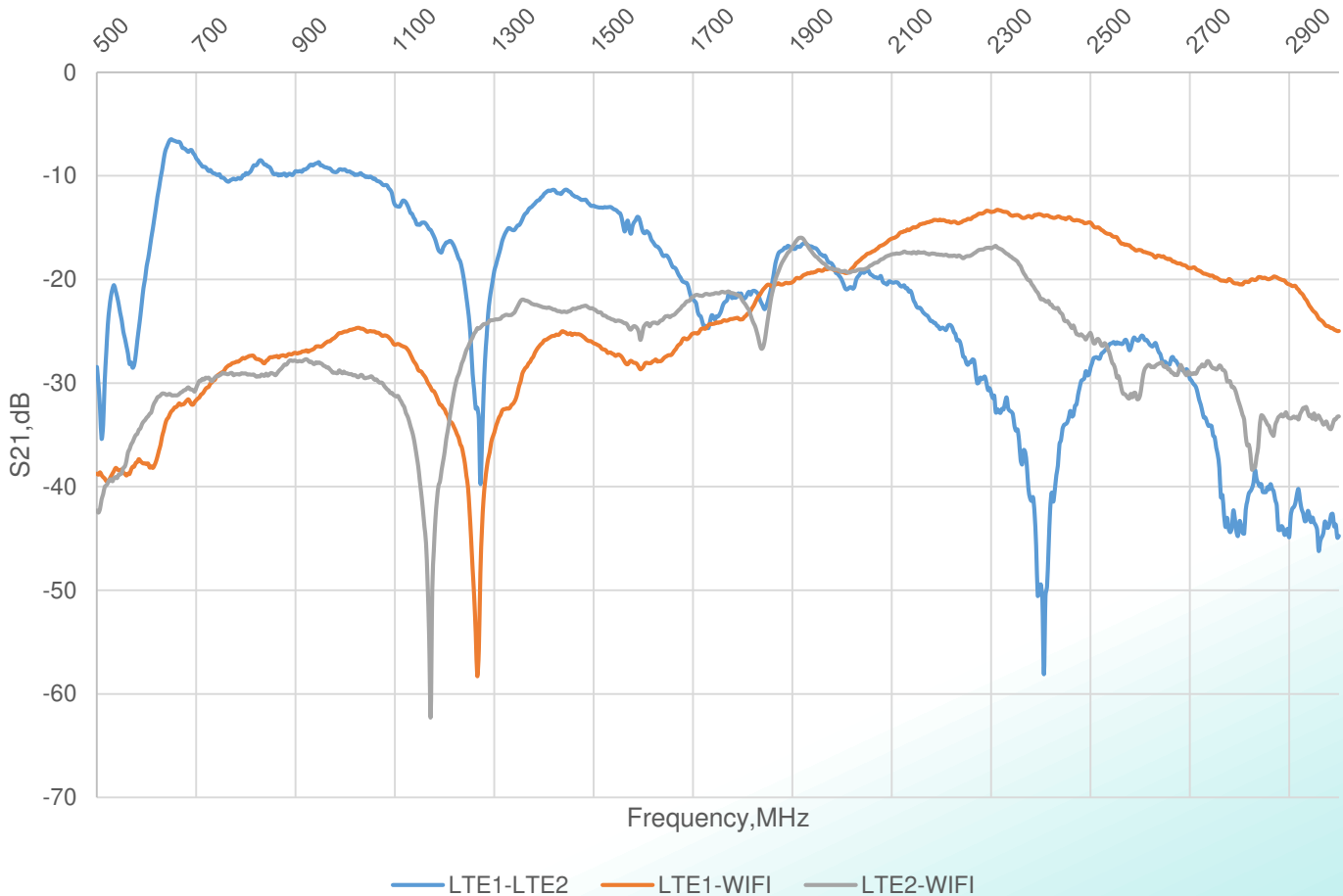
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CHARTS

Isolation

Isolation vs Frequency measured in free space



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Zeppelinstrasse 15
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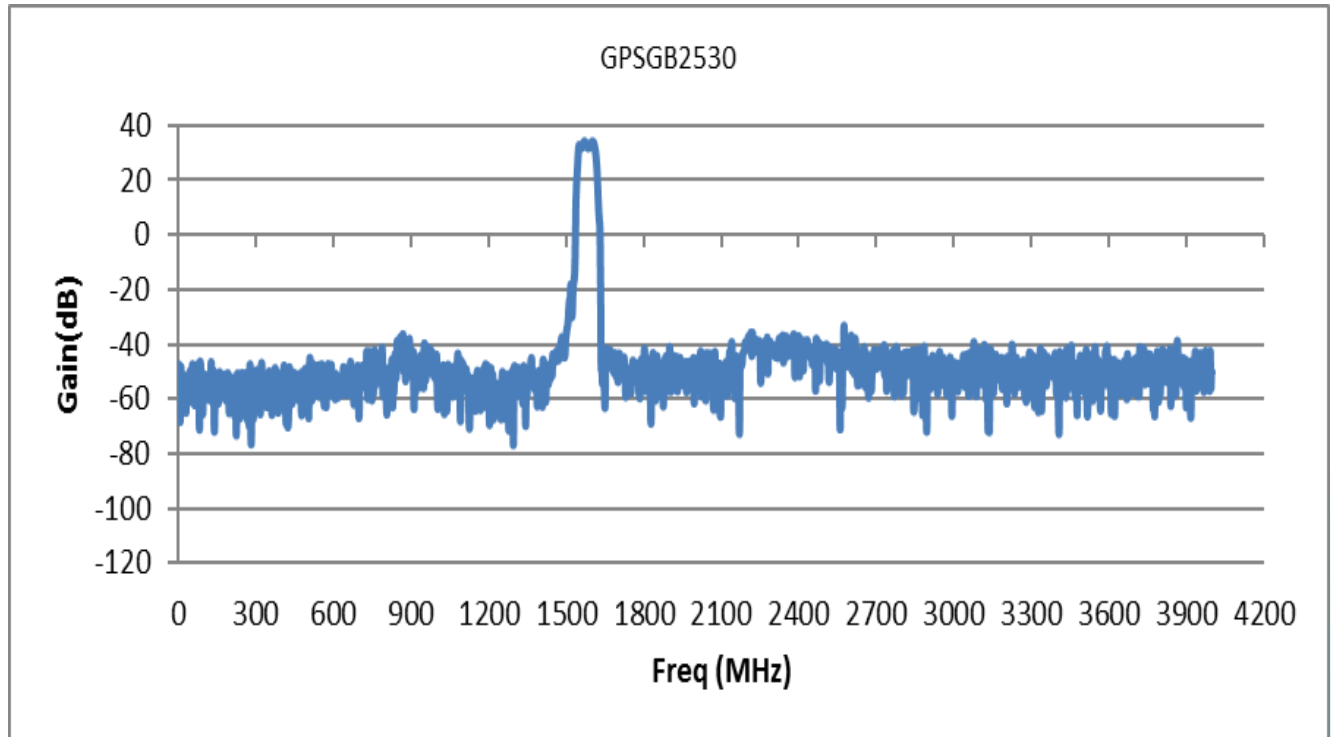
Description: 2xLTE, WiFi, GNSS Multiband Vehicular Antenna

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PART NUMBER: GPSLPMB403

CHARTS

GPS LNA Gain and out-of-band rejection



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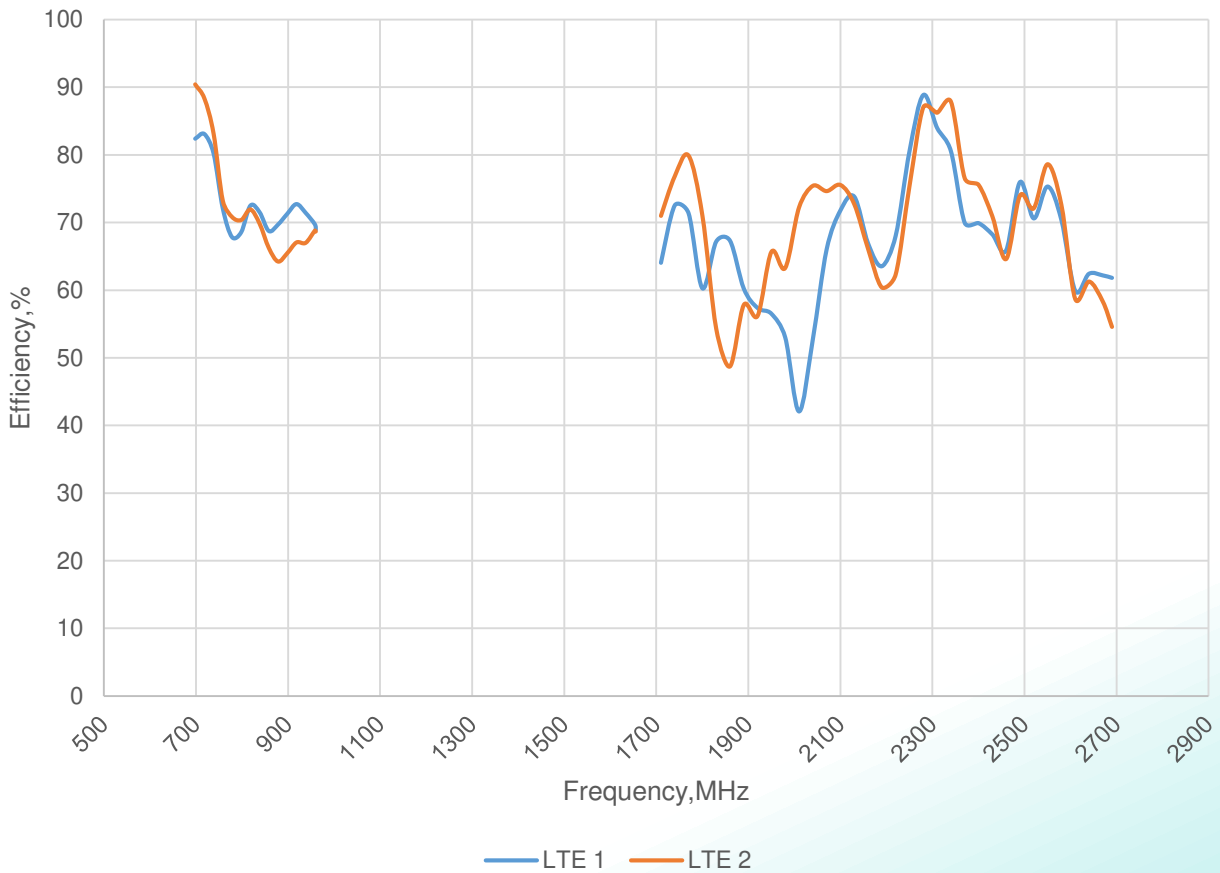
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CHARTS

LTE 1 and LTE2 Efficiency

Efficiency vs Frequency measured in free space



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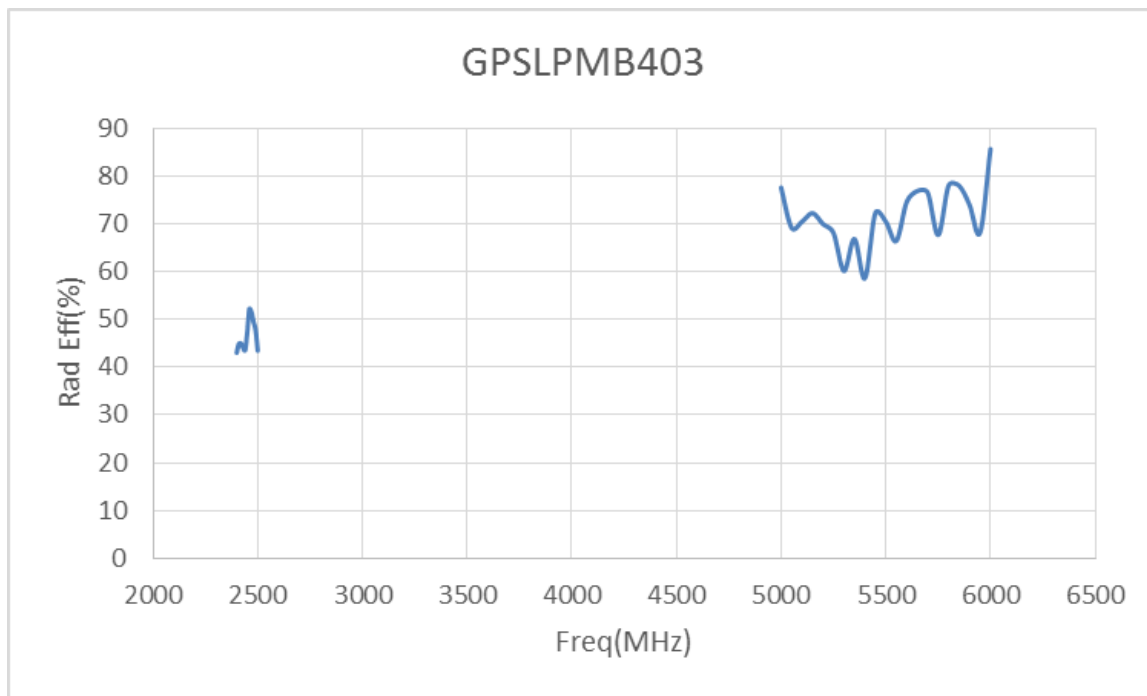
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CHARTS

WiFi Efficiency*



* Test on bracket and diameter is 500mm ground plane

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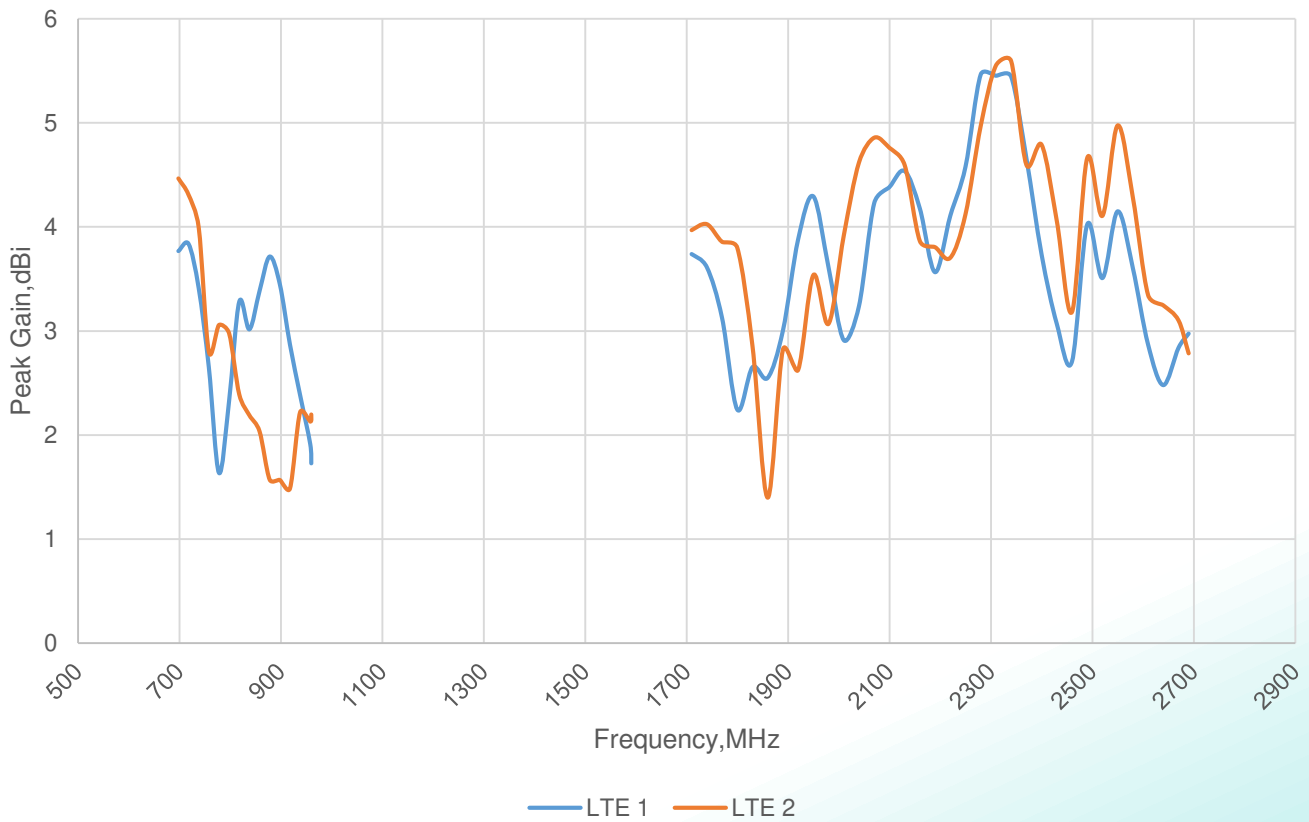
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CHARTS

LTE1 and LTE2 Peak Gain

Peak Gain vs Frequency measured in free space



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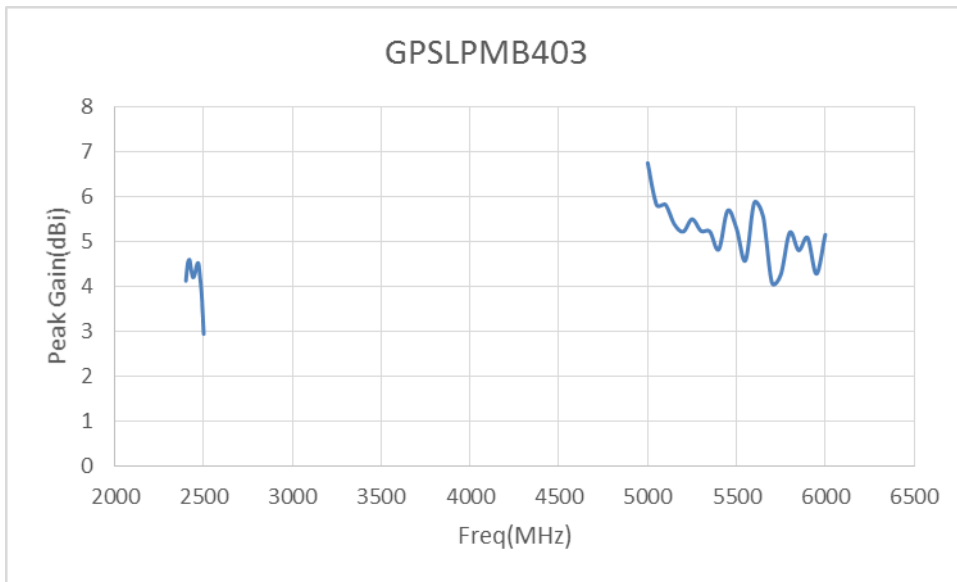
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CHARTS

WiFi Peak Gain*



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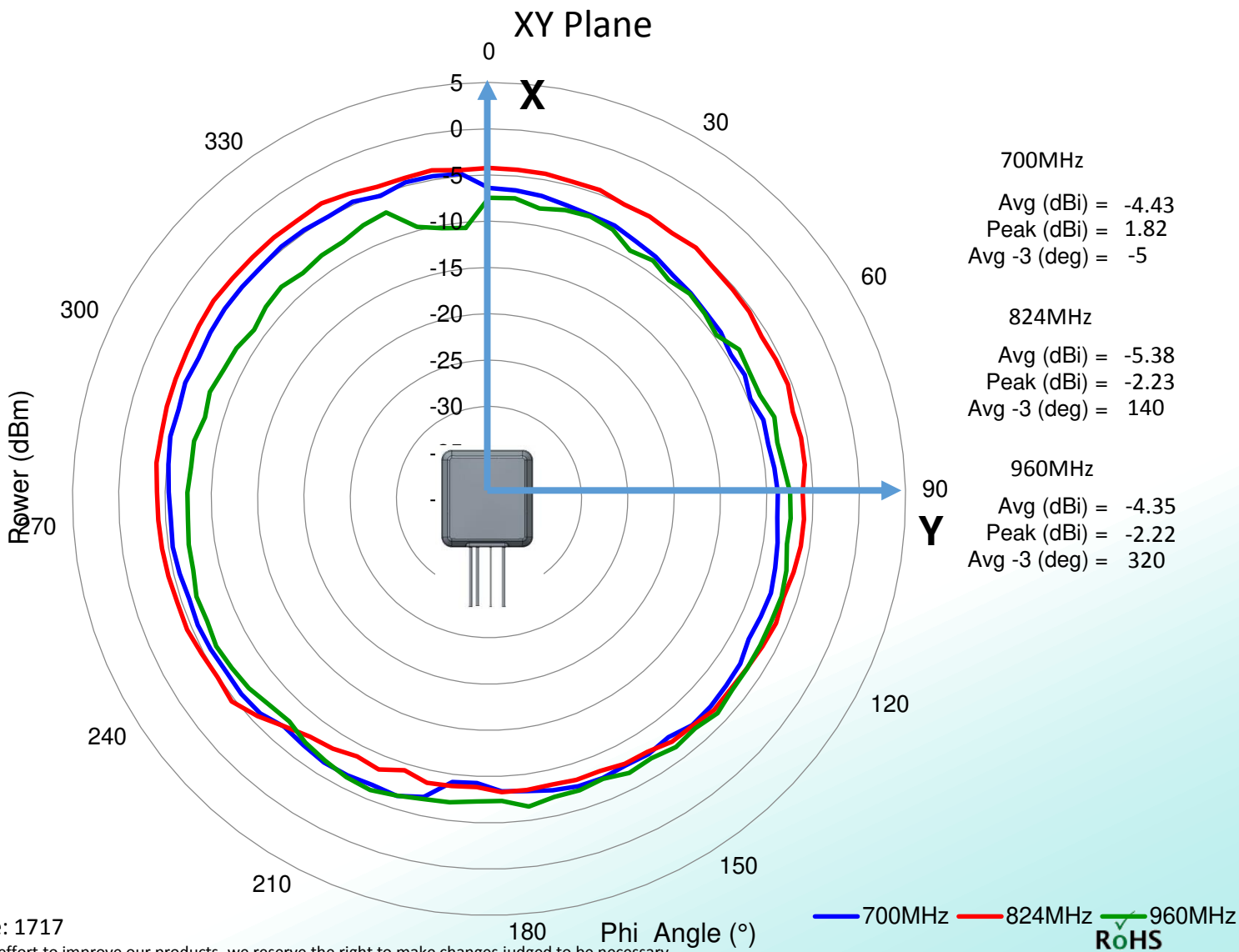
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CHARTS

Gain Plots LTE1



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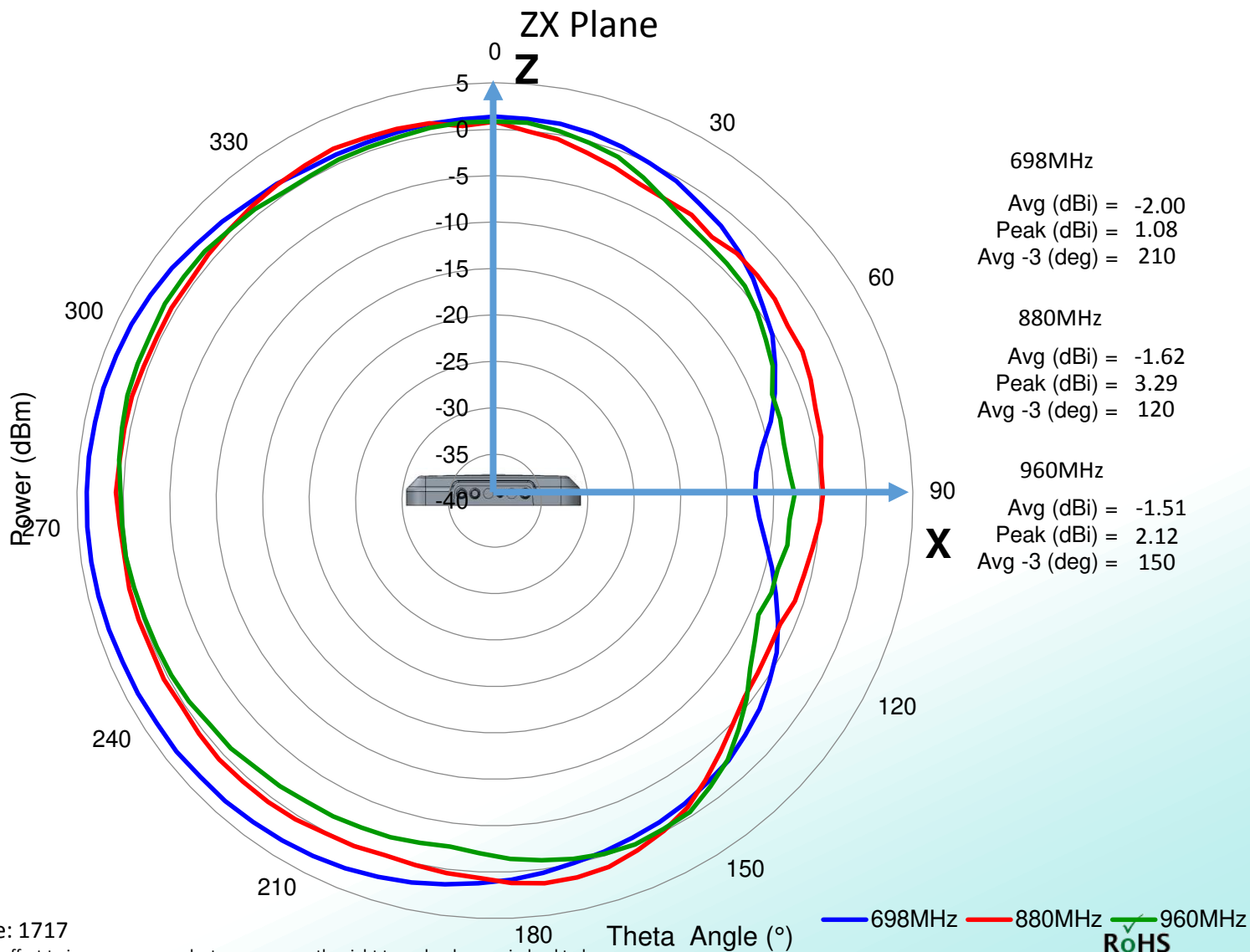
Description: 2xLTE, WiFi, GNSS Multiband Vehicular Antenna

Series: Low Profile MB

PART NUMBER: GPSLPMB403

CHARTS

Gain Plots LTE1



Issue: 1717

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For more information:

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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

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99 Huo Ju Road(#29 Bldg,4th Phase
Suzhou New District
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Tel: 86 512 6807 9998



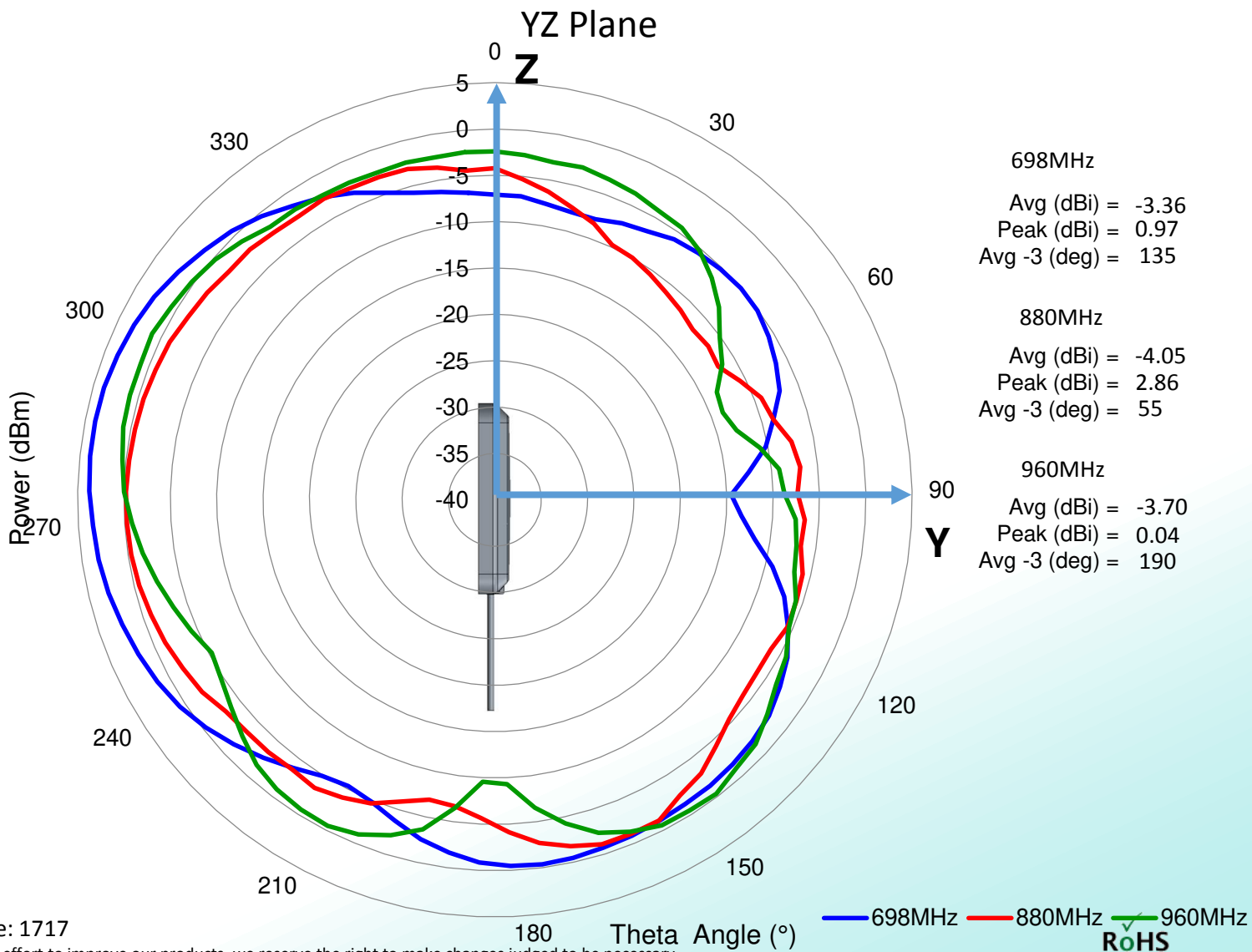
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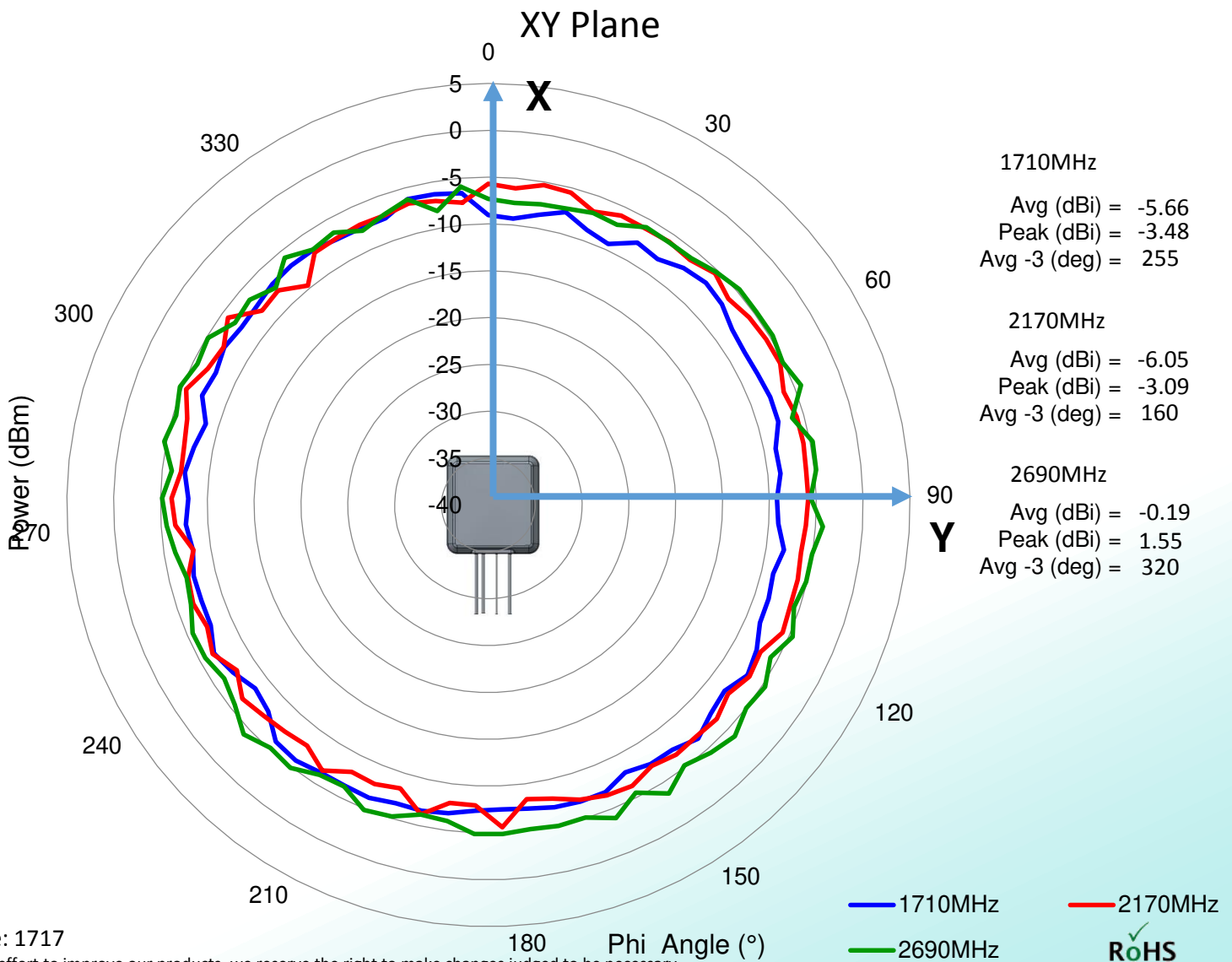
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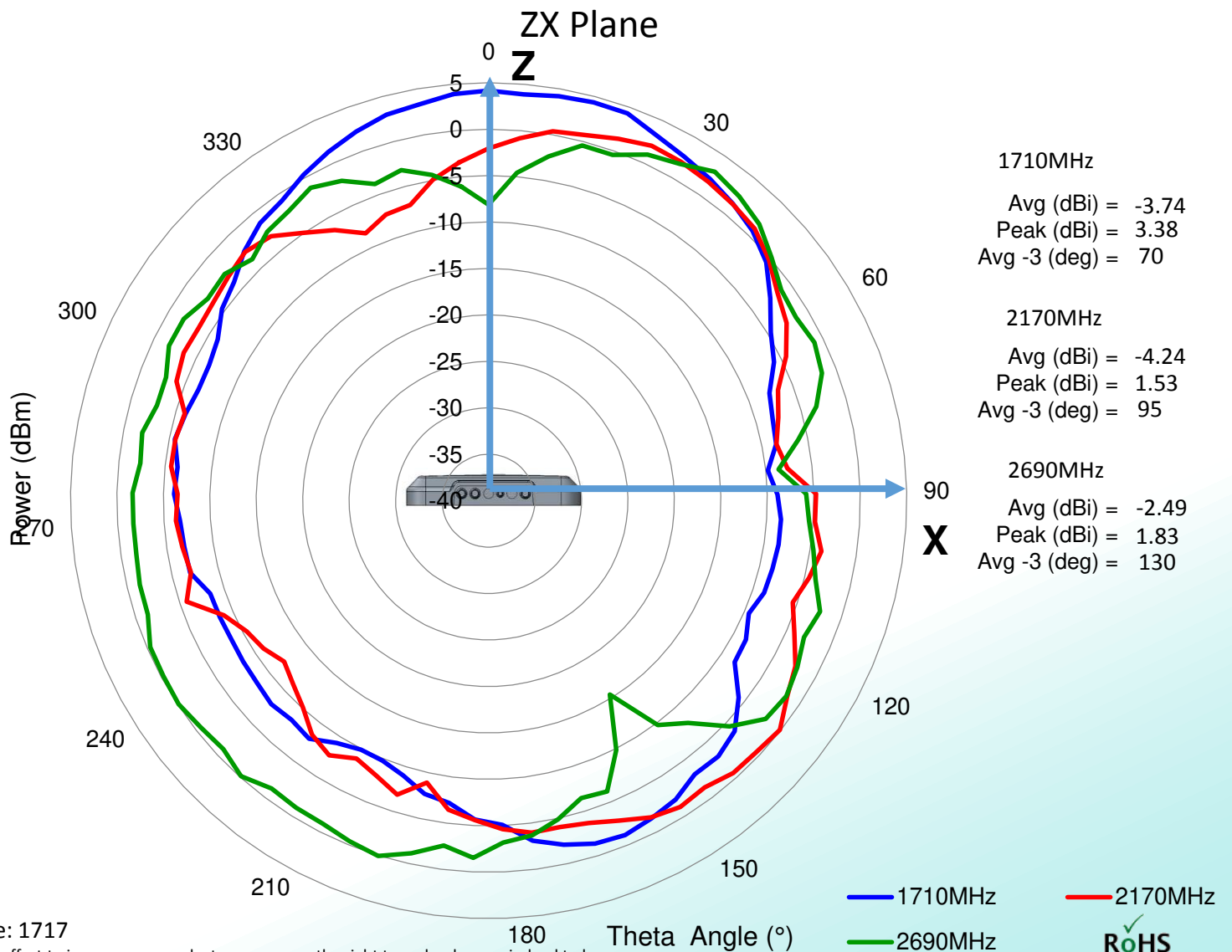
Description: 2xLTE, WiFi, GNSS Multiband
Vehicular Antenna

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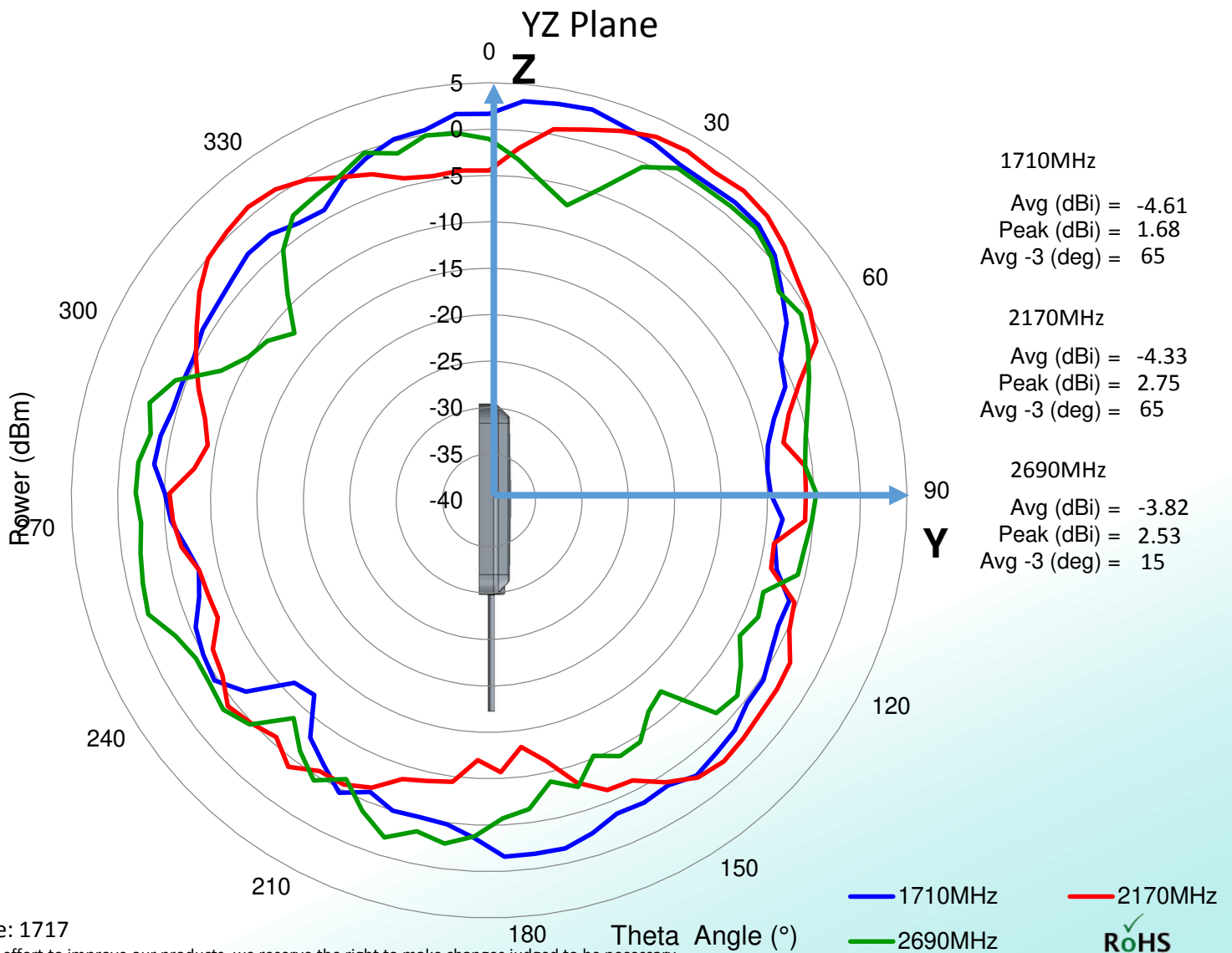
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Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
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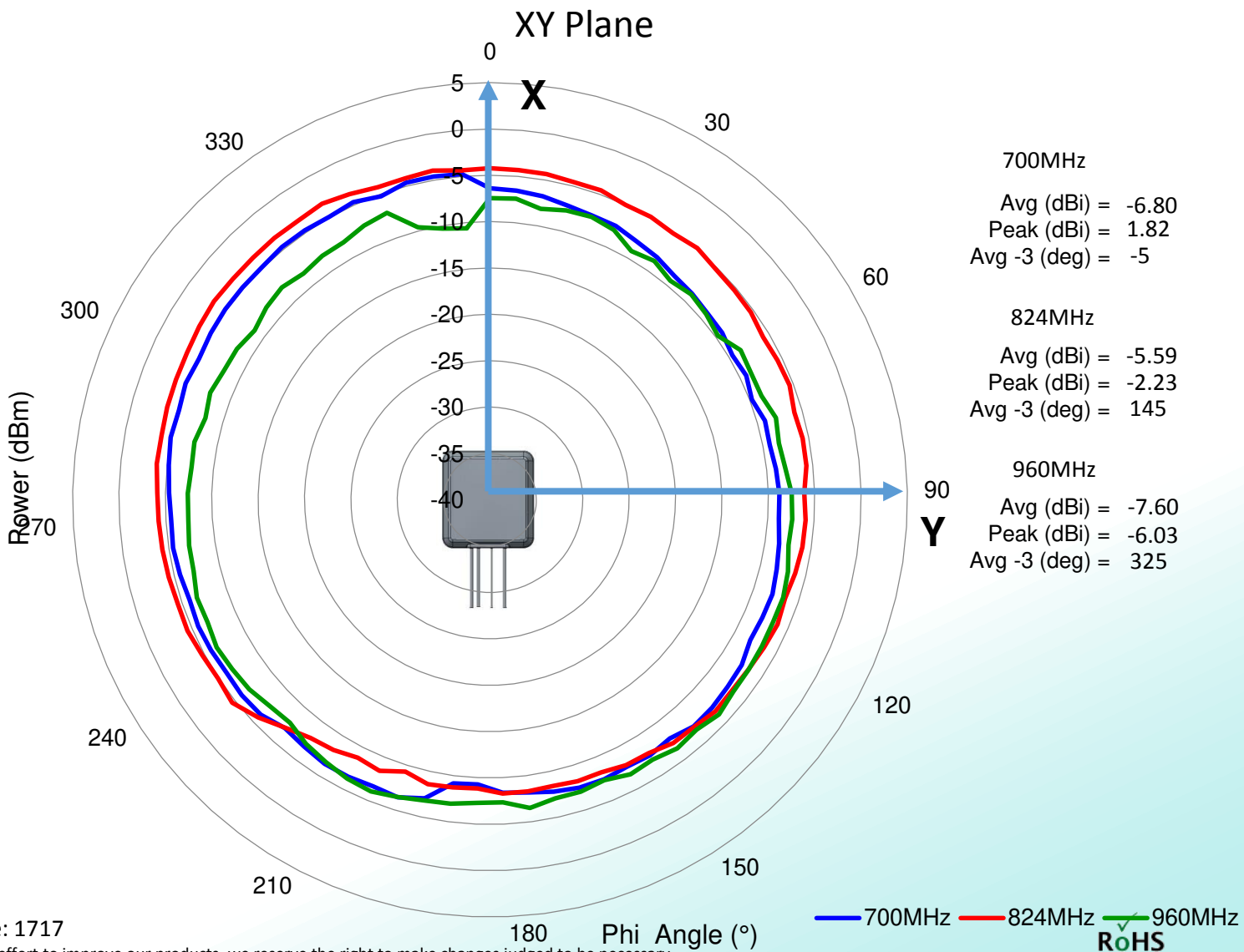
Description: 2xLTE, WiFi, GNSS Multiband Vehicular Antenna

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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
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99 Huo Ju Road(#29 Bldg,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
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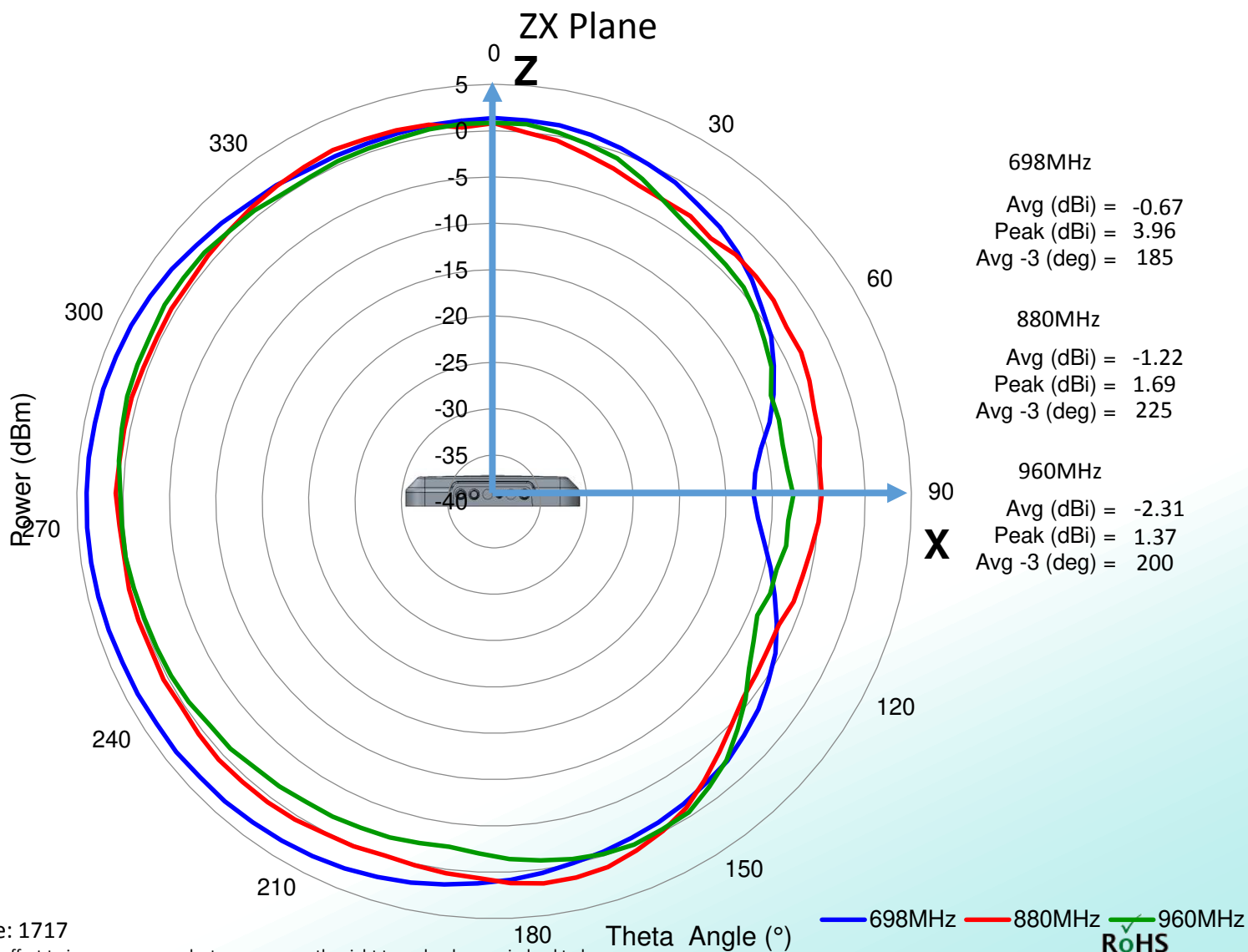
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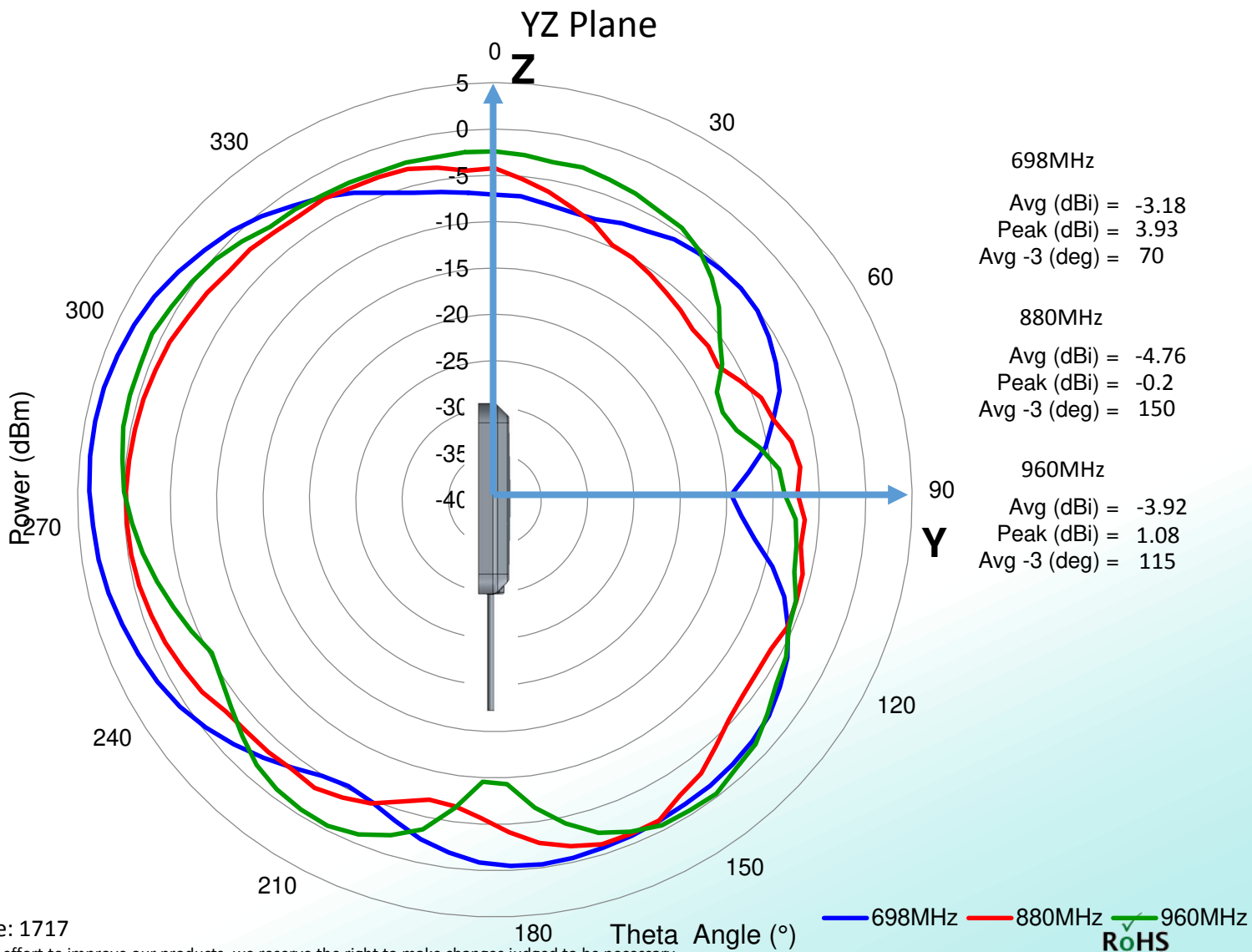
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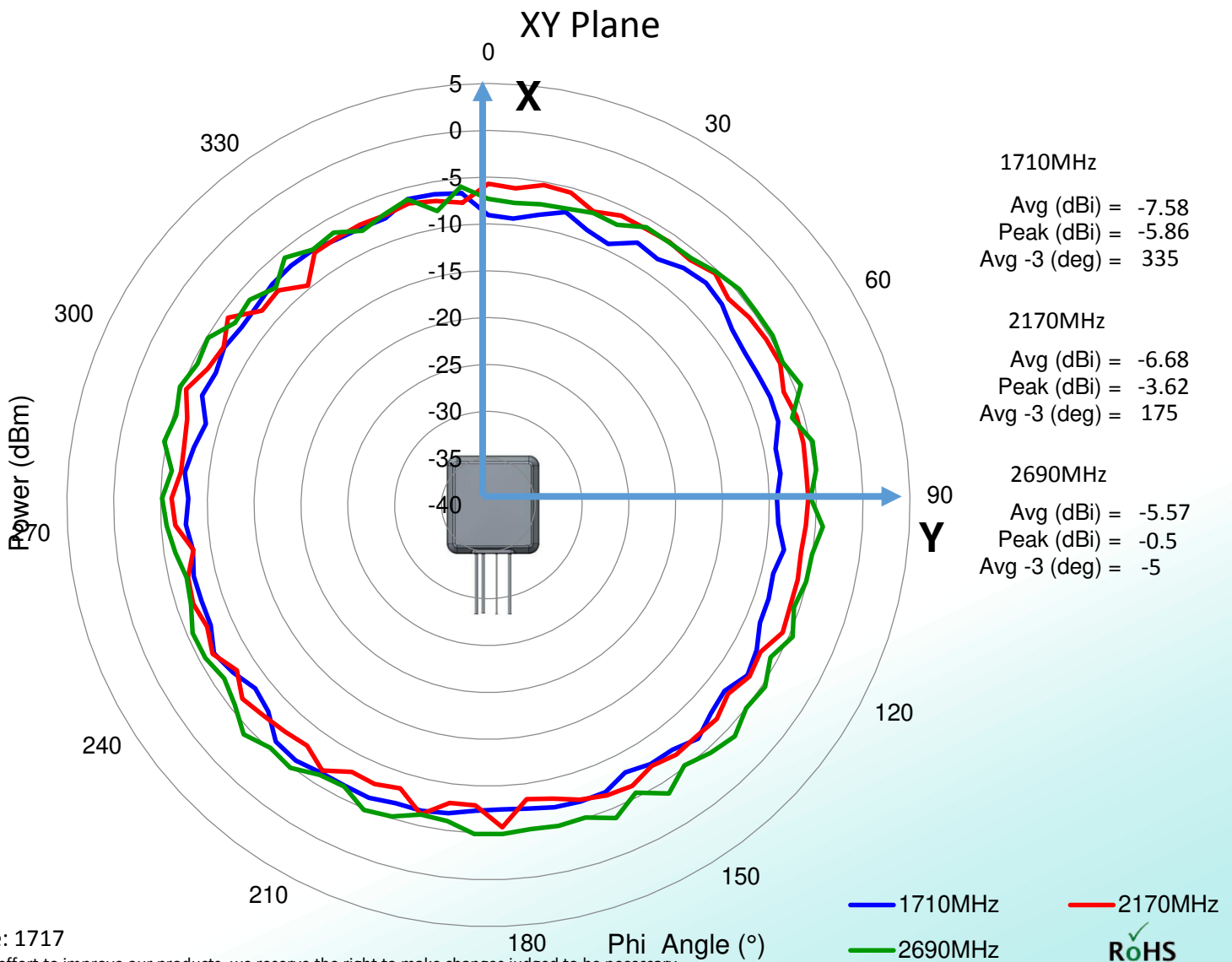
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