

Description: 2.4/4.9-7.125GHz FPC antenna

Series: Internal Antenna

PART NUMBER: W3917Bxxx



### Features:

- 2400-2500 / 4900-7125 MHz
- Size 42.6 X 8.6 X 0.15 mm
- Efficiency 60/70%
- VSWR < 2
- Nominal impedance 50 Ω
- Cable and connector can be customized

### Applications:



- WiFi 6E, 802.11ax
- Bluetooth, BLE, ZigBee
- DSRC
- ISM band radios
- IoT, M2M

All dimensions are in mm / inches

Issue: 2020

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

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## ELECTRICAL SPECIFICATIONS

Antenna Type	Dipole
Frequency	2400-2500MHz 4900-7125MHz
Nominal Impedance	50 $\Omega$
Return Loss	2400-2500MHz<-6db 4900-7125MHz<-10db
Radiation Pattern	Omni
Gain	2+/-1dBi@2400-2500MHz 3+/-1dBi@4900-7125MHz
Efficiency	40%@2400-2500MHz 50%@4900-7125MHz
Polarization	Linear
Power Withstanding	5W

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### MECHANICAL SPECIFICATIONS

Radiator material	FPC
Color	Black
Adhesive	3M467
Thickness(with adhesive, no liner)	0.15 mm
Weight	0.32 g
FPC size(L X W X T)	42.6 X 8.6 X 0.15 mm

### ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40/+85 ° C
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**This document covers all product variants of the following product family:**

W3917B0050	50mm 1.13mm OD cable	U.FL compatible connector
W3917B0100	100mm 1.13mm OD cable	U.FL compatible connector

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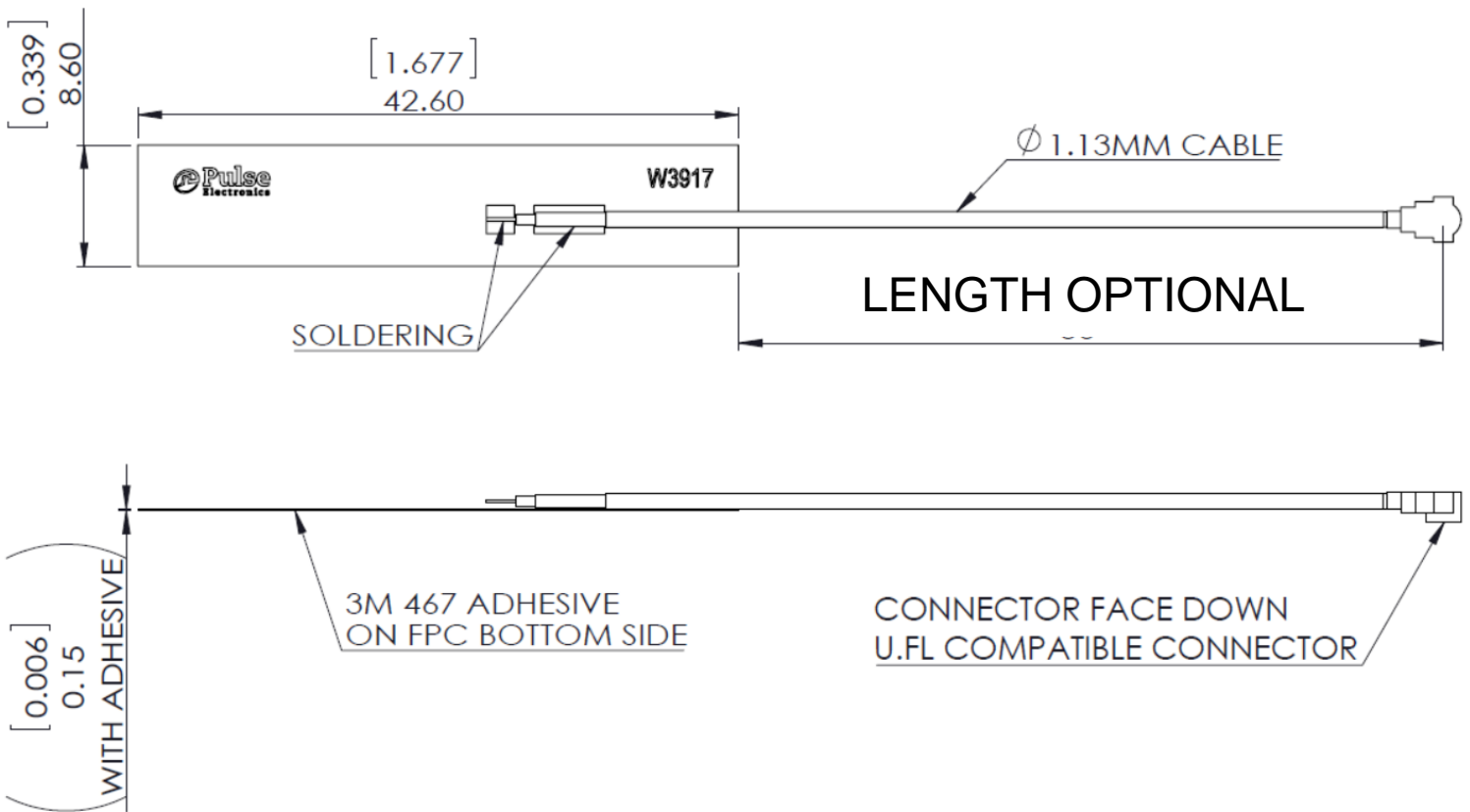
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MECHANICAL DRAWING



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## CHARTS

*(\*) All RF parameters measured on 2mm thick PC plate*

Test Setup



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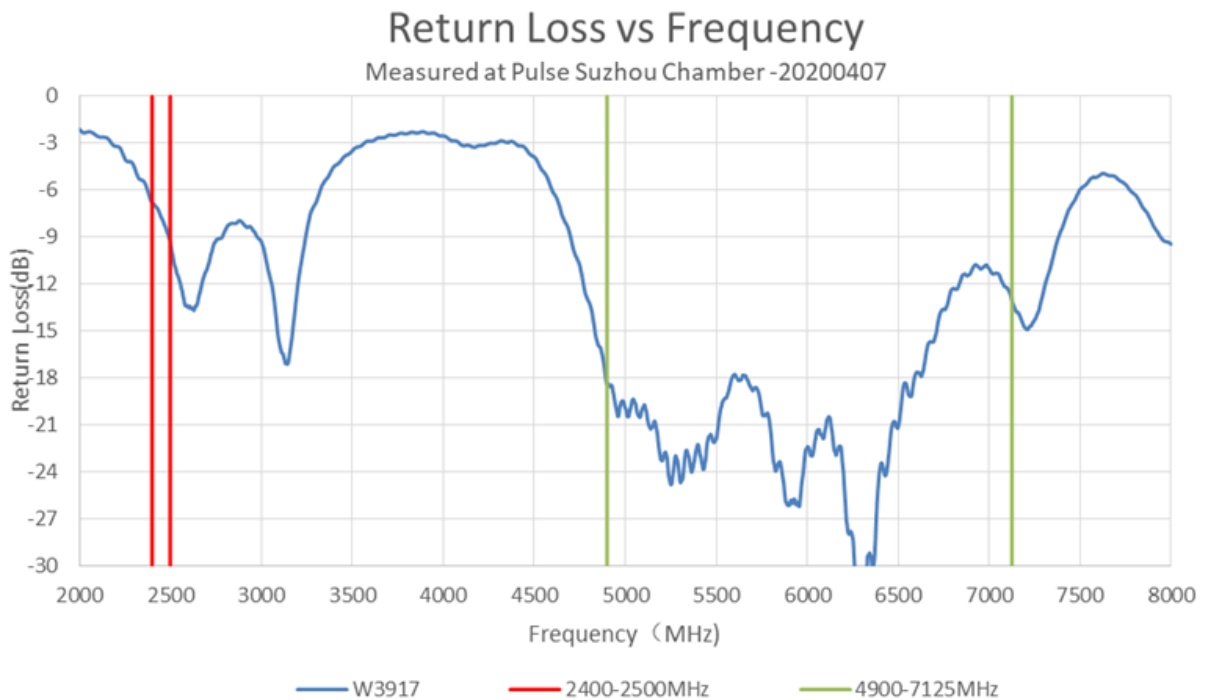
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Return Loss



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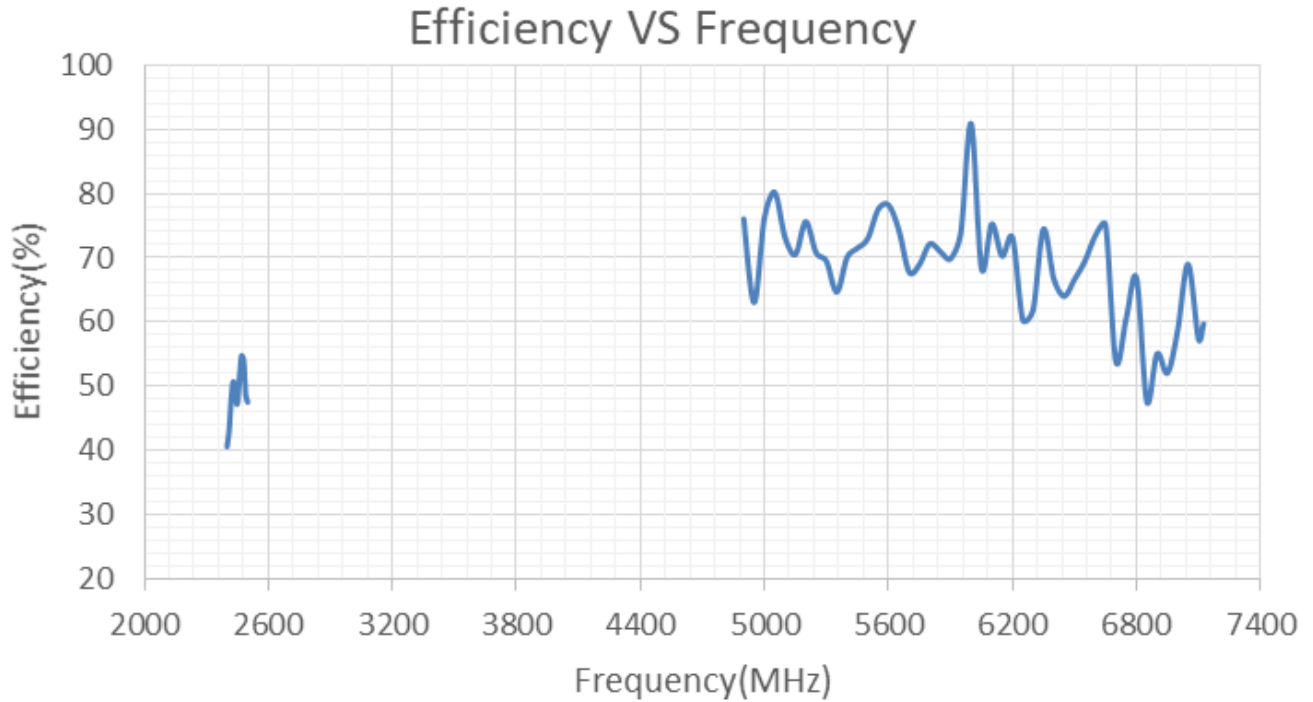
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Efficiency



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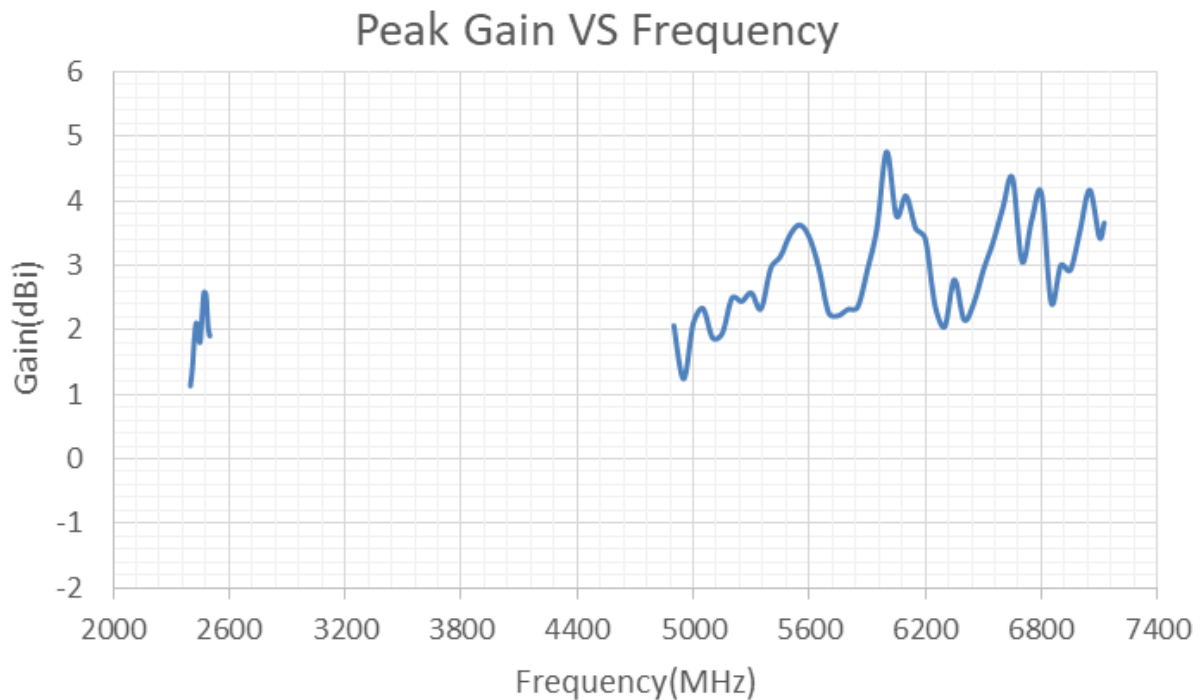
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Peak Gain



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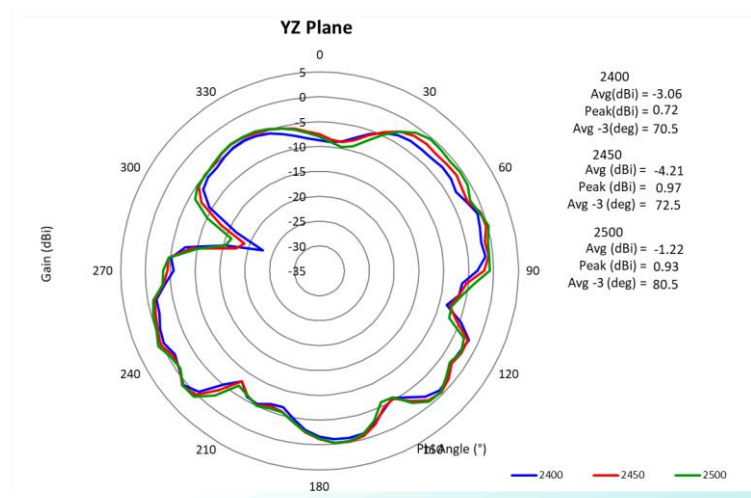
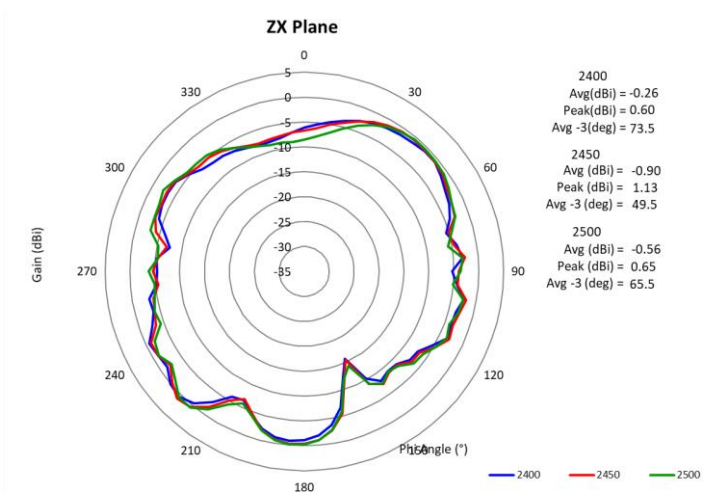
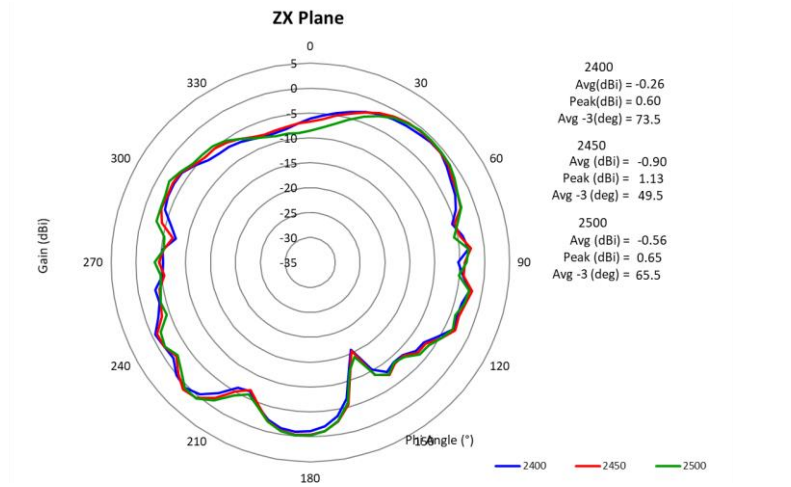
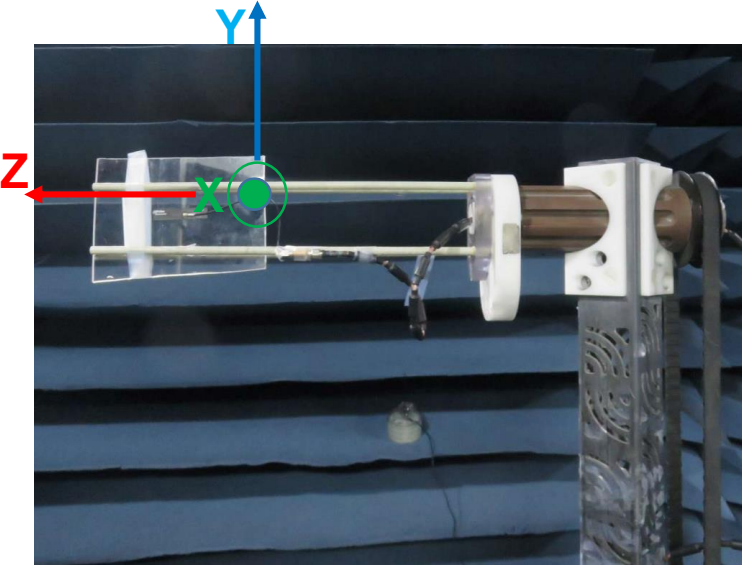
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Radiation Patterns 2400-2500MHz



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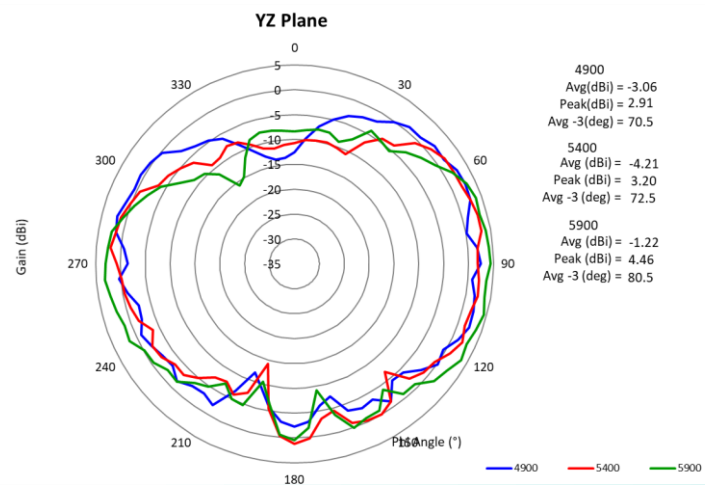
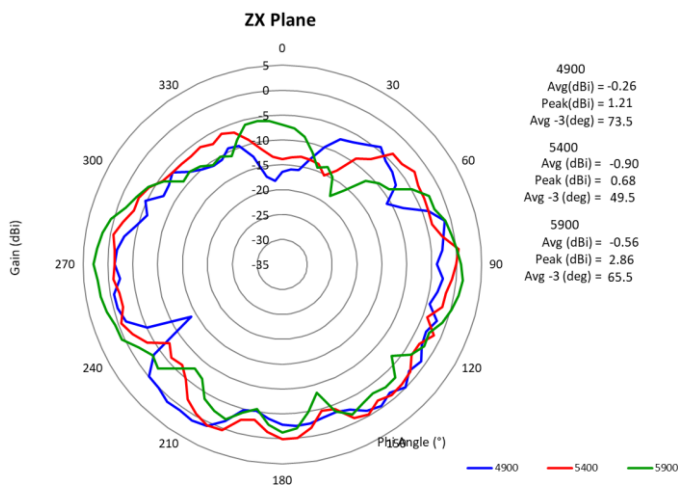
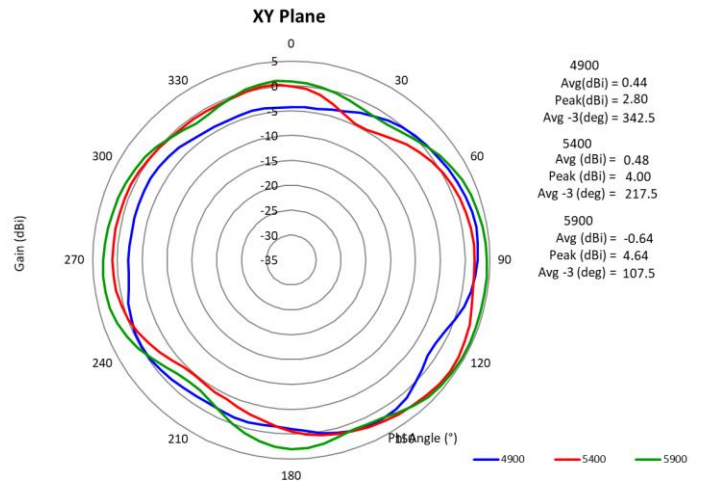
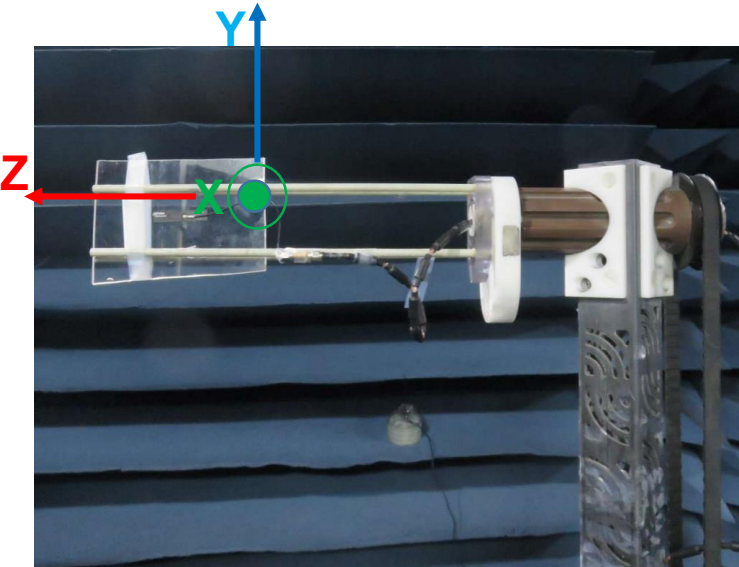
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CHARTS

Radiation Patterns 4900-5900MHz



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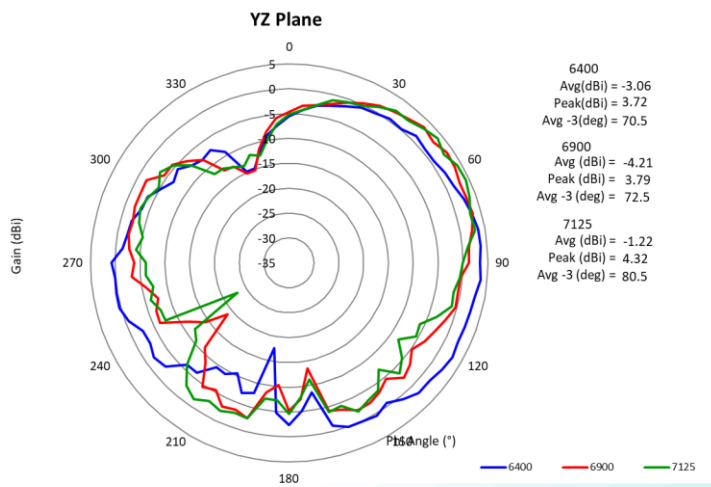
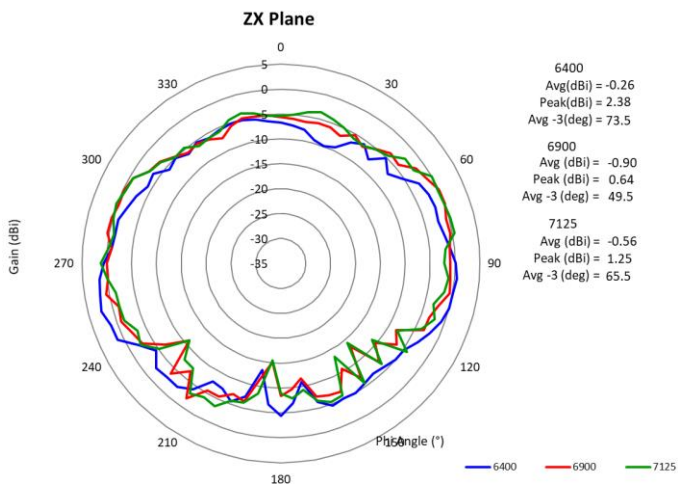
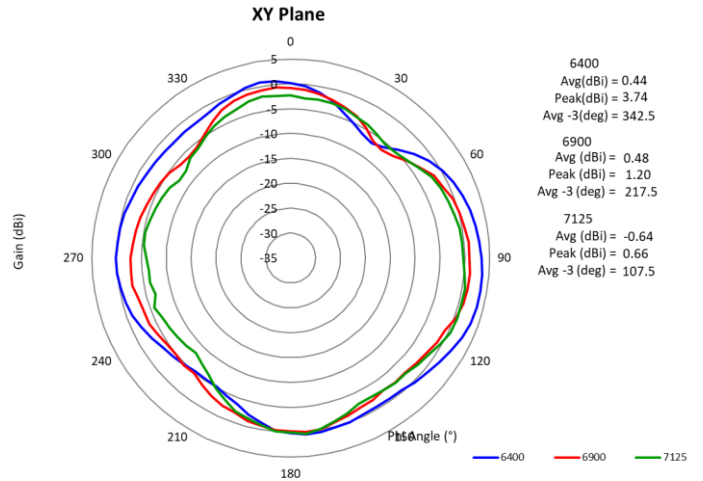
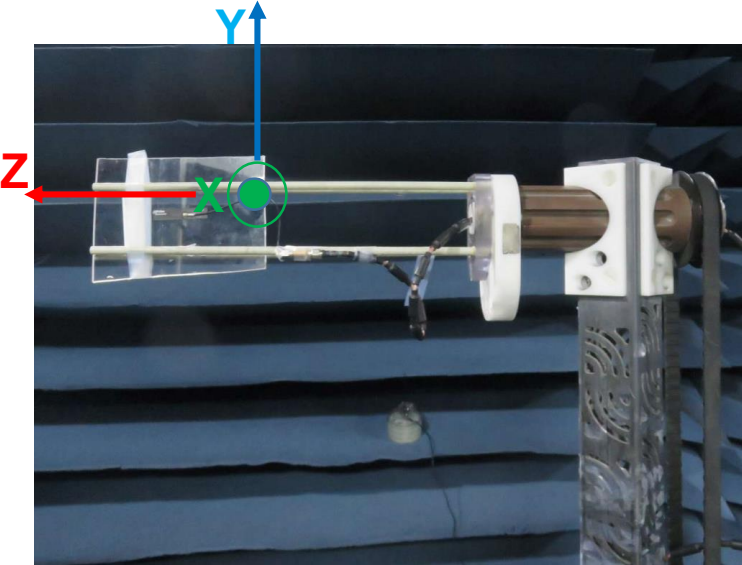
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CHARTS

Radiation Patterns 6000-7125MHz



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