

**Description: 4.9-7.125GHz PCB antenna****Series: Internal Antenna****PART NUMBER: W3919XXXX****Features:**

- 4900-7125 MHz
- Size 15.9 X 7.6 X 0.45 mm
- Efficiency > 60%
- VSWR < 2
- Nominal impedance 50  $\Omega$
- Cable and connector can be customized

**Applications:**

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

All dimensions are in mm / inches

Issue: 2114

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

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For more information:

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Pulse/Larsen Antennas  
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Herrenberg, Germany  
Tel: 49 7032 7806 0

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



**Description: 4.9-7.125GHz PCB antenna****Series: Internal Antenna****PART NUMBER: W3919XXXX****This document covers all product variants of the following product family:**

W3919B0050	50mm 1.13mm OD cable	U.FL compatible connector
W3919B0075	75mm 1.13mm OD cable	MHF4L compatible connector
W3919B0100	100mm 1.13mm OD cable	U.FL compatible connector

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**Description: 4.9-7.125GHz PCB antenna****Series: Internal Antenna****PART NUMBER: W3919XXXX****ELECTRICAL SPECIFICATIONS**

Antenna Type	Dipole
Frequency	4900-7125MHz
Nominal Impedance	50 $\Omega$
Return Loss	4900-7125MHz<-9db
Radiation Pattern	Omni
Gain	3+/-1dBi@4900-7125MHz
Efficiency	55%@4900-7125MHz
Polarization	Linear
Power Withstanding	5W

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**Description: 4.9-7.125GHz PCB antenna****Series: Internal Antenna****PART NUMBER: W3919XXXX****MECHANICAL SPECIFICATIONS**

Radiator material	FR4 PCB
Color	Black
Adhesive	3M467
Thickness(with adhesive, no liner)	0.45 mm
PCB size(L X W X T)	15.9 X 7.6 X 0.45 mm

**ENVIRONMENTAL SPECIFICATIONS**

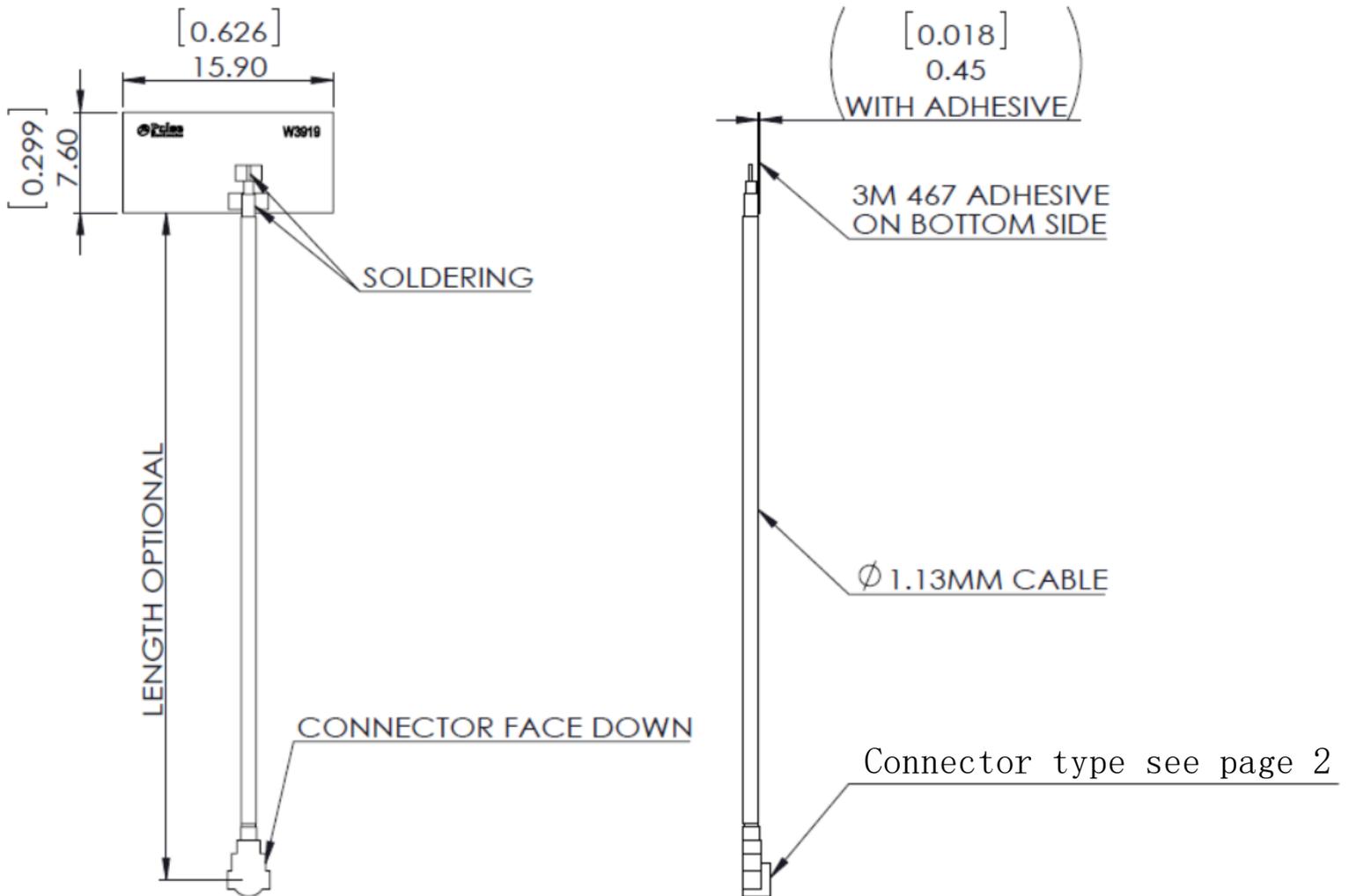
Operating temperature	-40/+85 ° C
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## MECHANICAL DRAWING



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CHARTS

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

Test Setup



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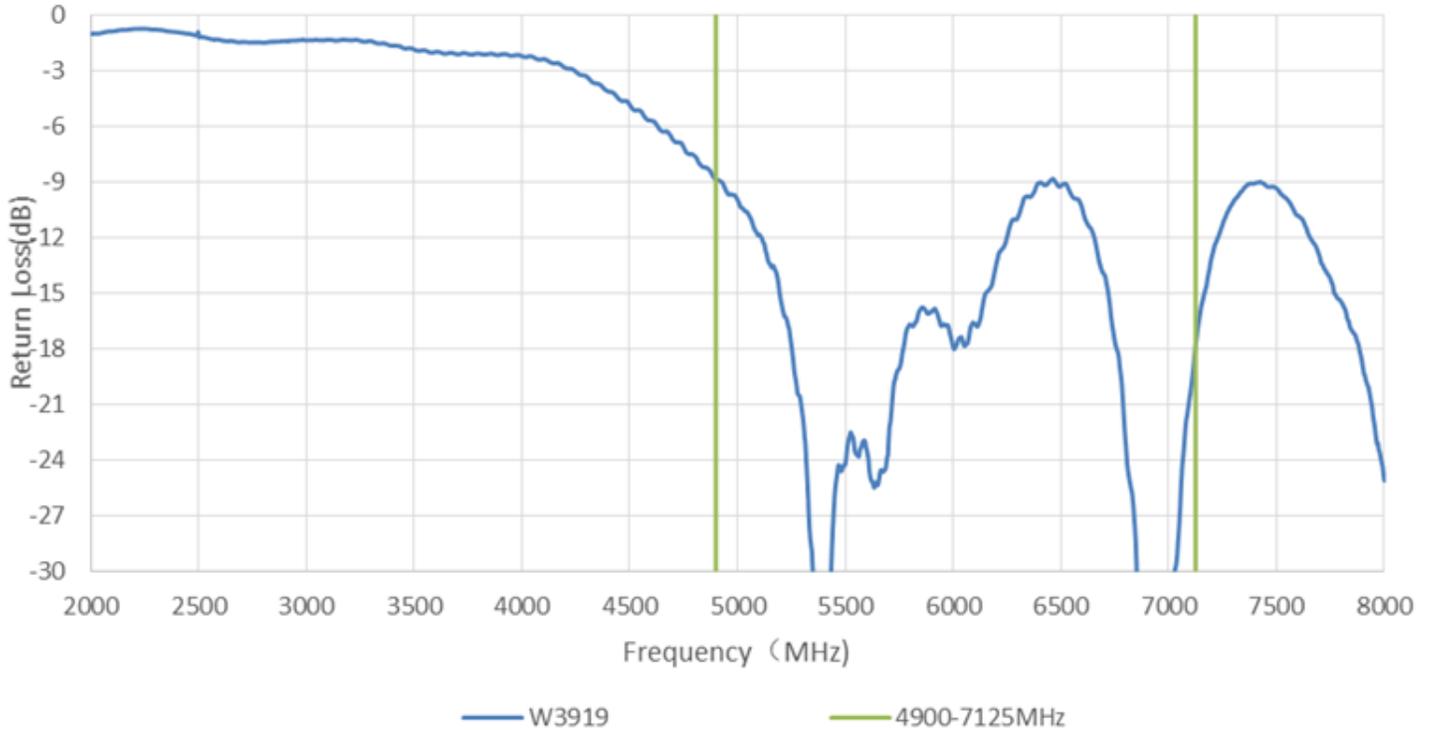
## CHARTS

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### Return Loss

#### Return Loss vs Frequency

Measured at Pulse Suzhou Chamber -20200407

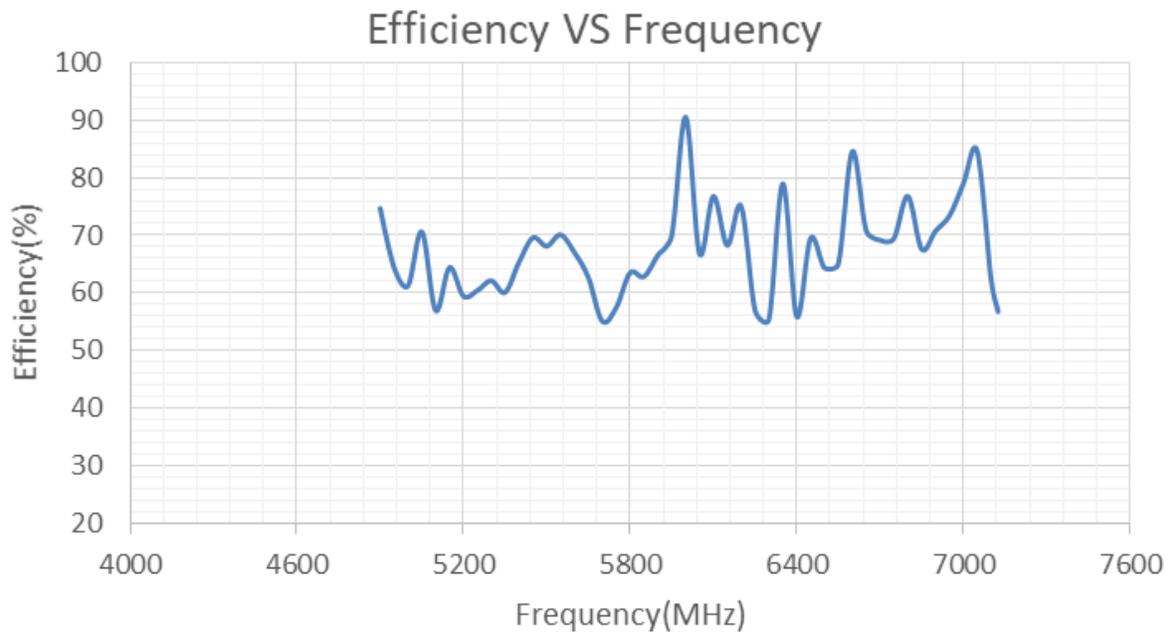


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**Description: 4.9-7.125GHz PCB antenna****Series: Internal Antenna****PART NUMBER: W3919XXXX****CHARTS*****(\*) All RF parameters measured on 2mm thick PC plate*****Efficiency**

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Description: 4.9-7.125GHz PCB antenna

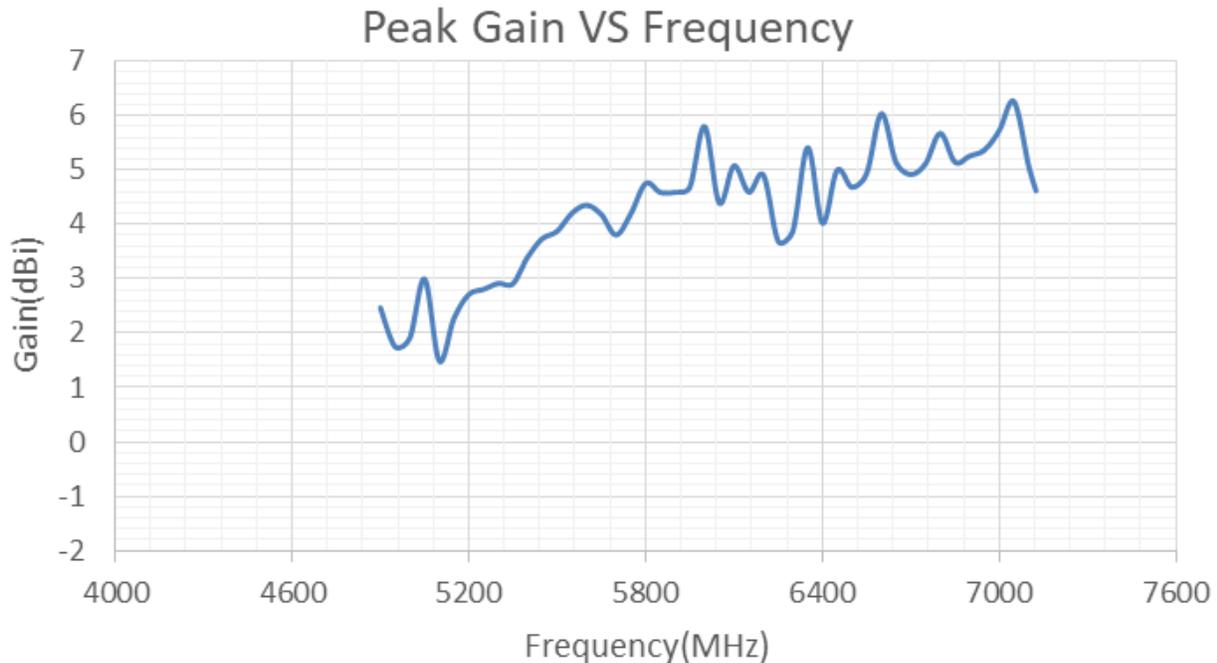
Series: Internal Antenna

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## CHARTS

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### Peak Gain



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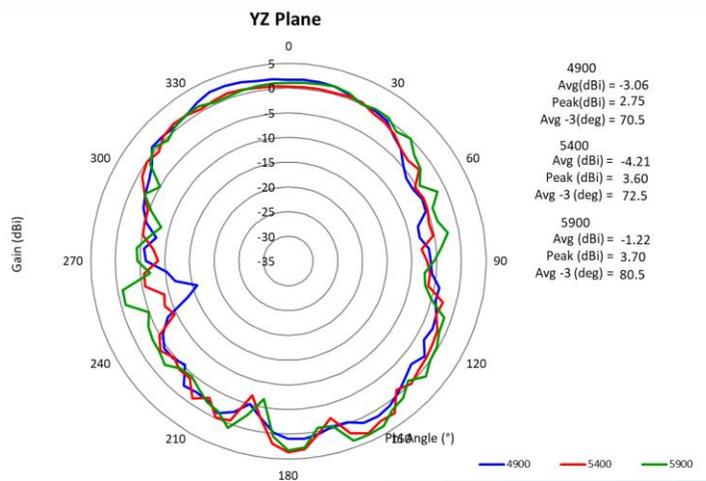
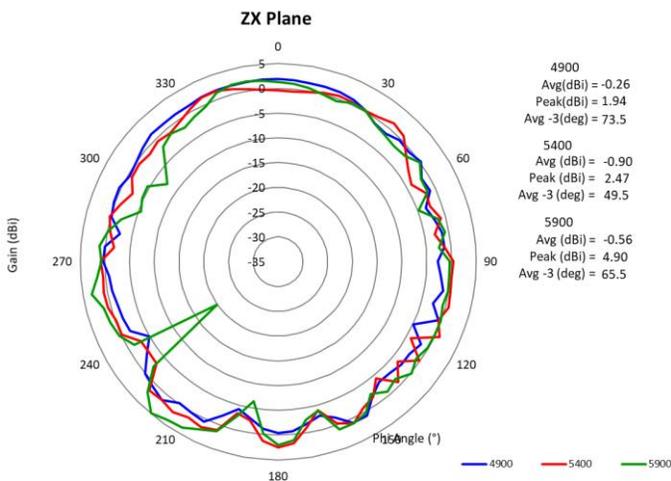
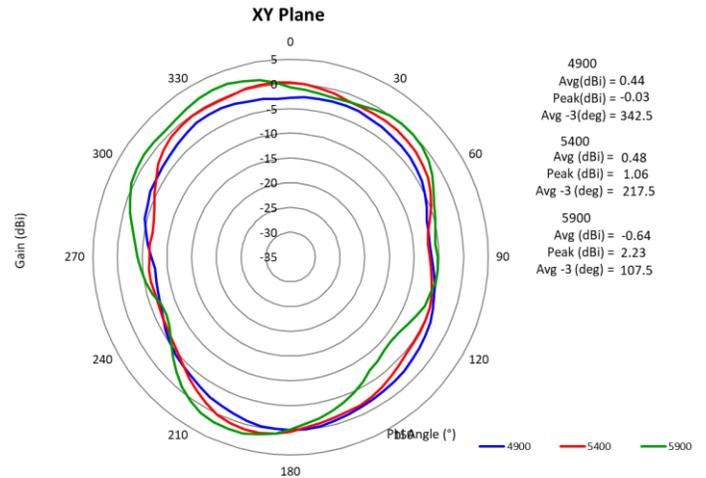
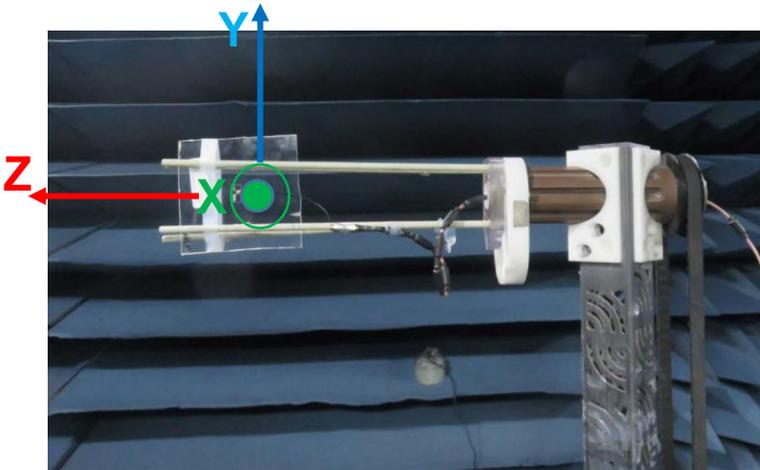
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## CHARTS

### Radiation Patterns 4900-5900MHz



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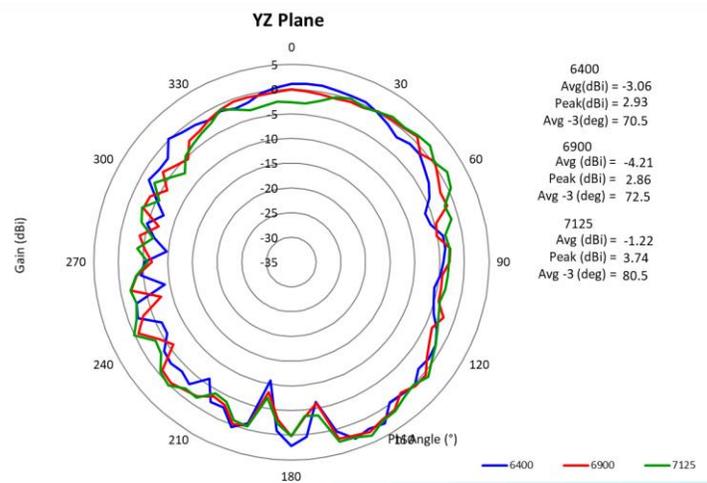
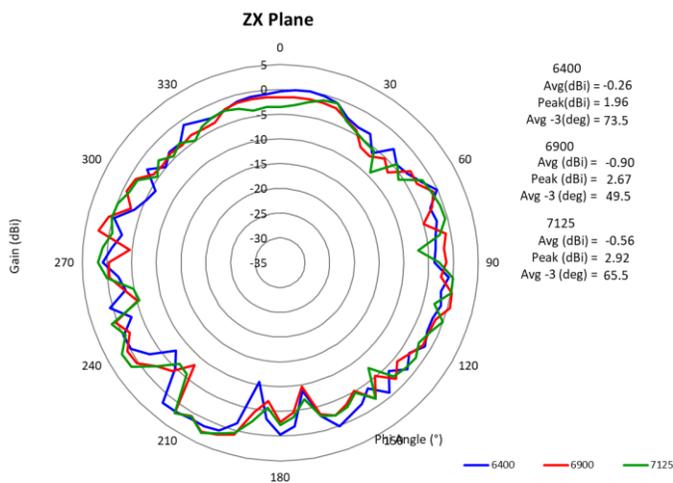
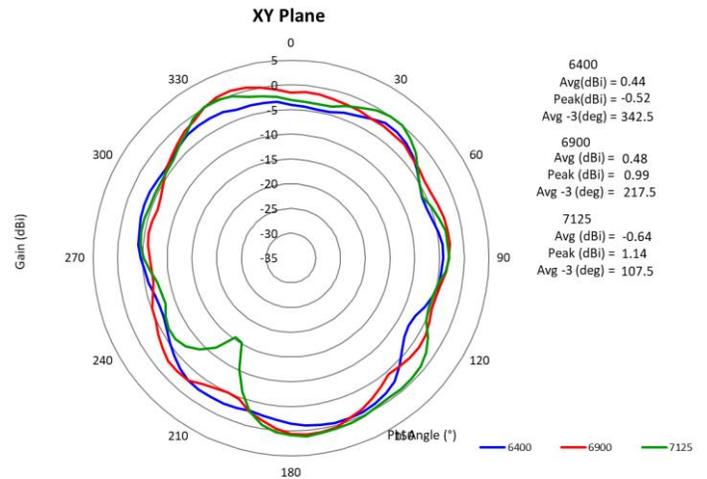
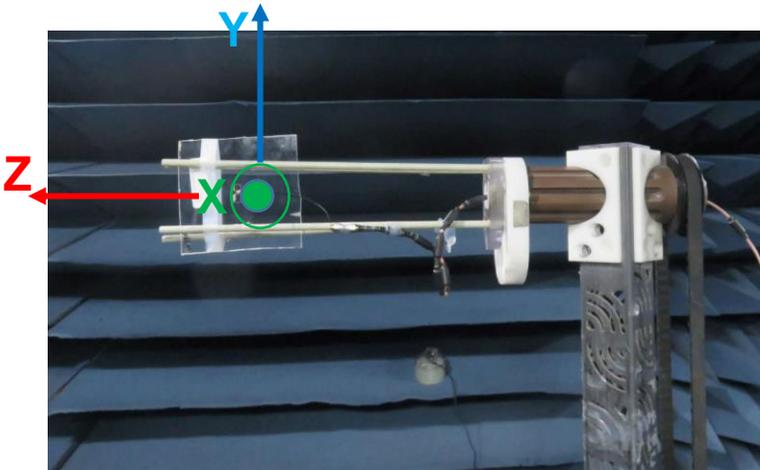
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## CHARTS

### Radiation Patterns 6000-7125MHz



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**Description: 4.9-7.125GHz PCB antenna****Series: Internal Antenna****PART NUMBER: W3919XXXX****PACKAGING**

10PCS/PE bag

10 PE bag/foam bag

50 foam bag/ carton box

Total 5000PCS/Carton box

