

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 Ω
- Cable and connector can be customized

Applications:



- WiFi 6E, 802.11ax
- 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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Pulse/Larsen Antennas
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Vancouver, WA 98683
USA
Tel: 1-360-944-7551

Europe Headquarters
Pulse GmbH & Co, 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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This document covers all product variants of the following product family:

| | | |
|------------|-----------------------|---------------------------|
| W3919B0050 | 50mm 1.13mm OD cable | U.FL 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 Ω |
| 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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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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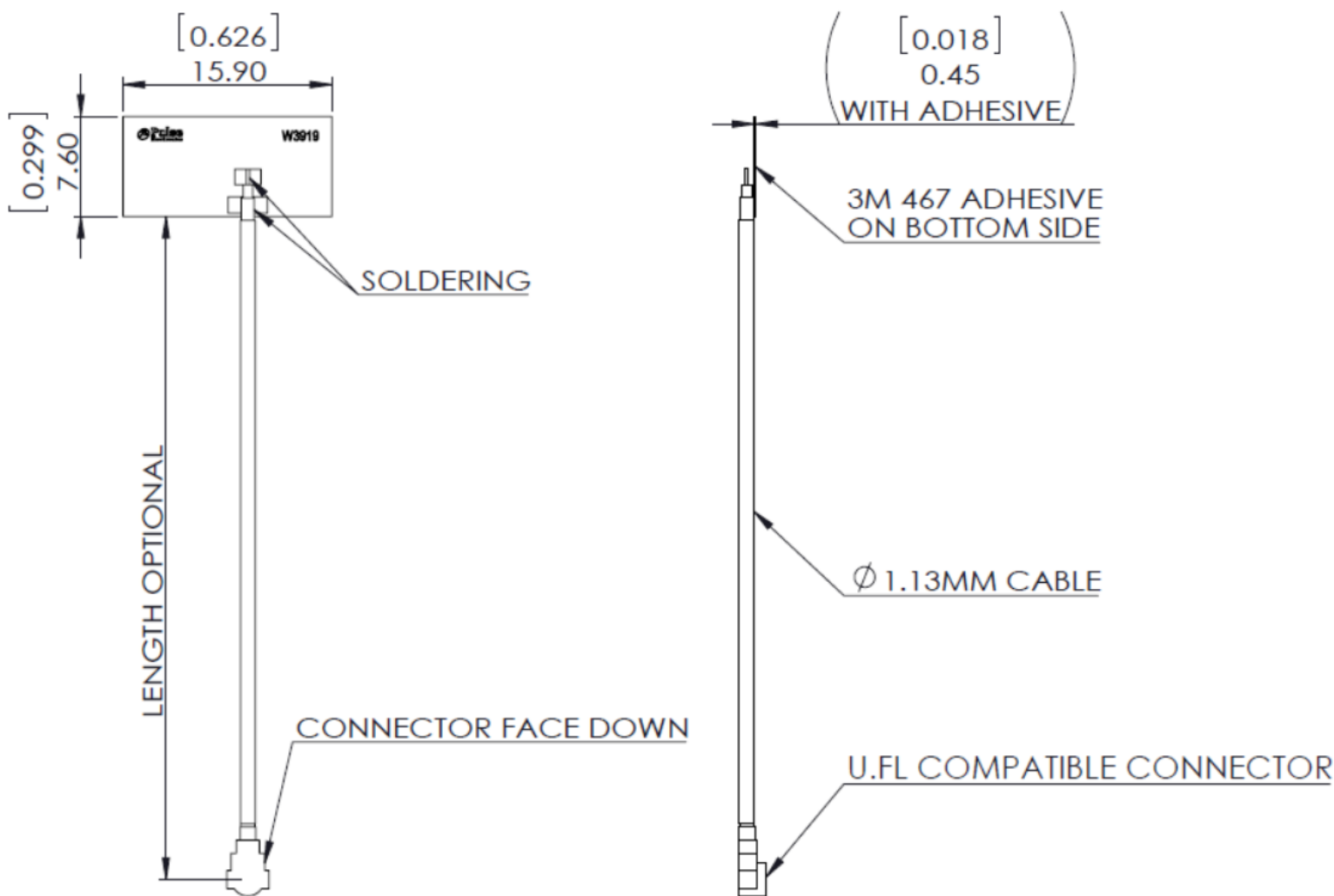
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MECHANICAL DRAWING



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CHARTS

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

Test Setup



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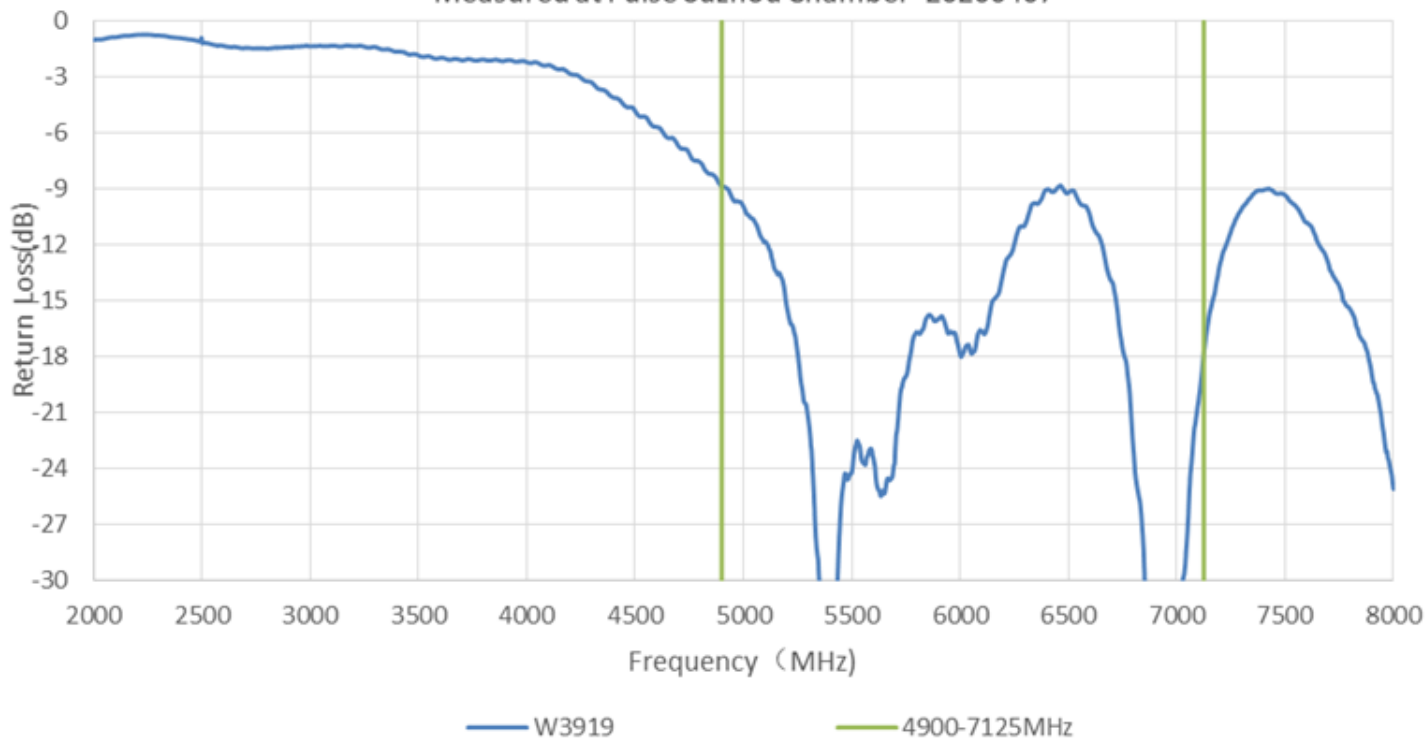
CHARTS

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Return Loss

Return Loss vs Frequency

Measured at Pulse Suzhou Chamber -20200407



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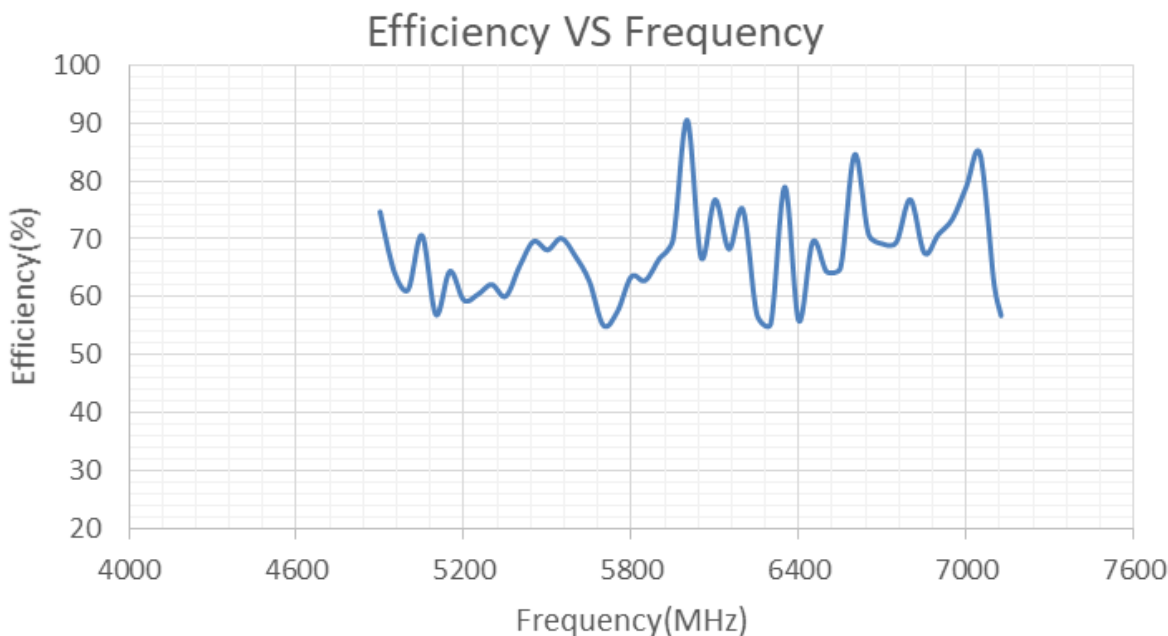
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Efficiency



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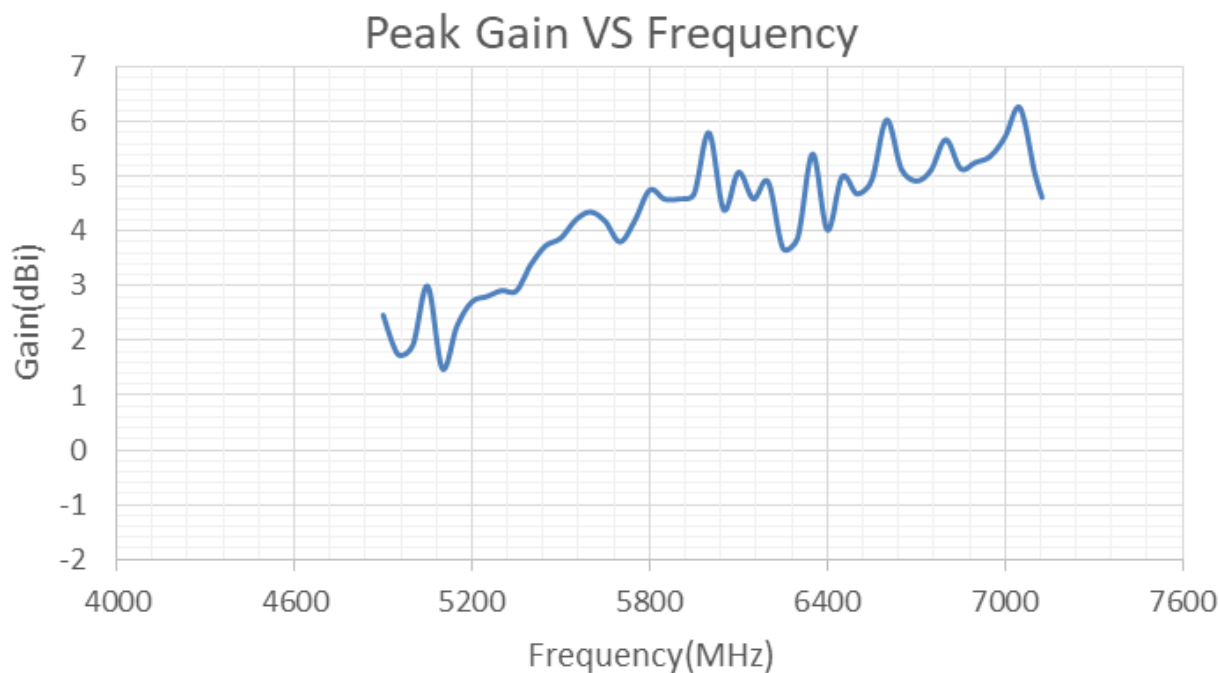
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Peak Gain



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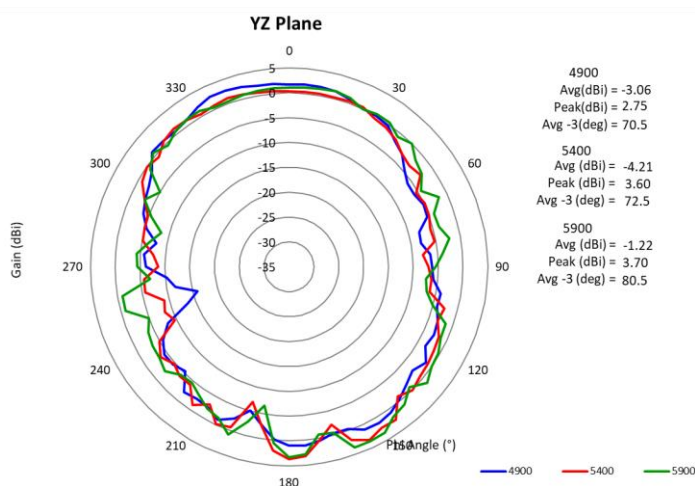
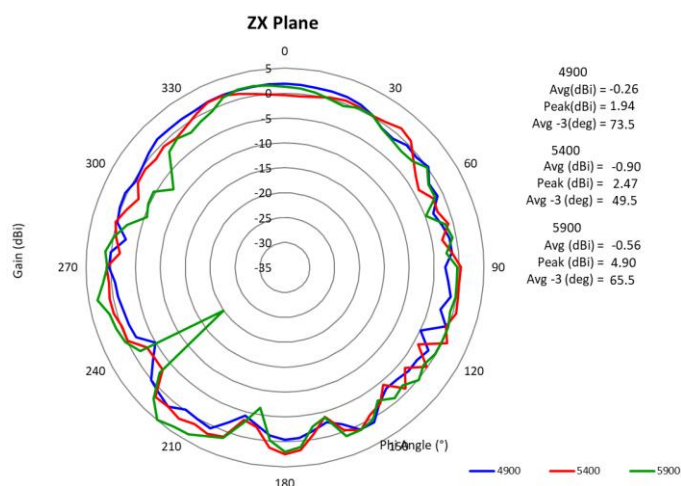
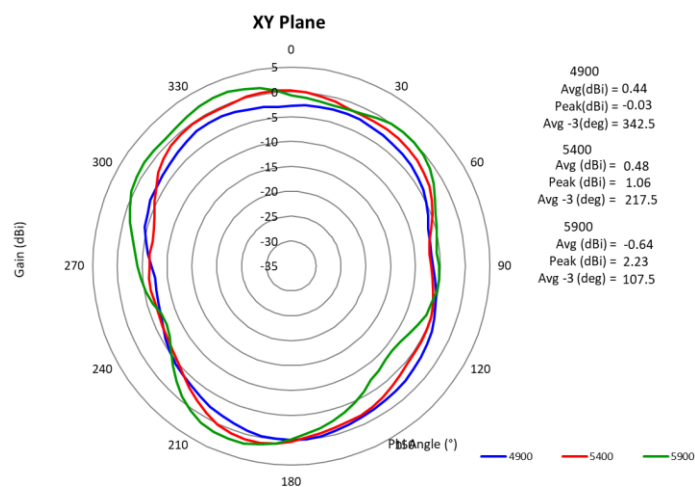
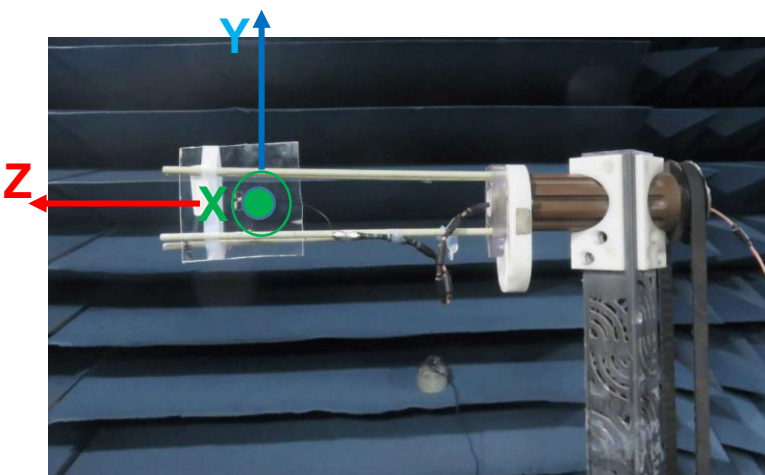
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CHARTS

Radiation Patterns 4900-5900MHz



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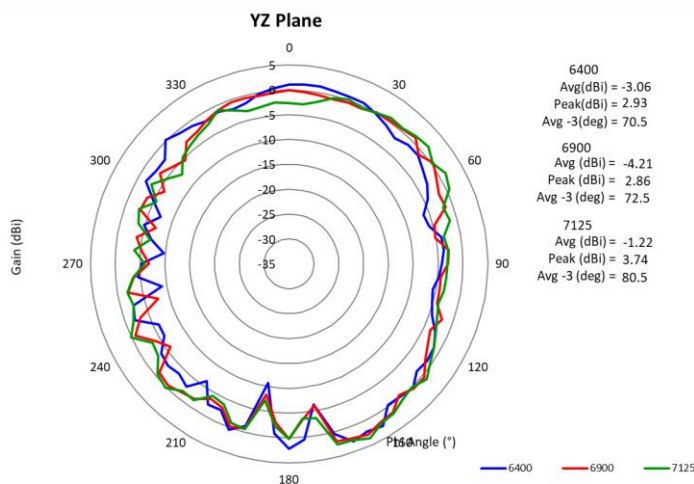
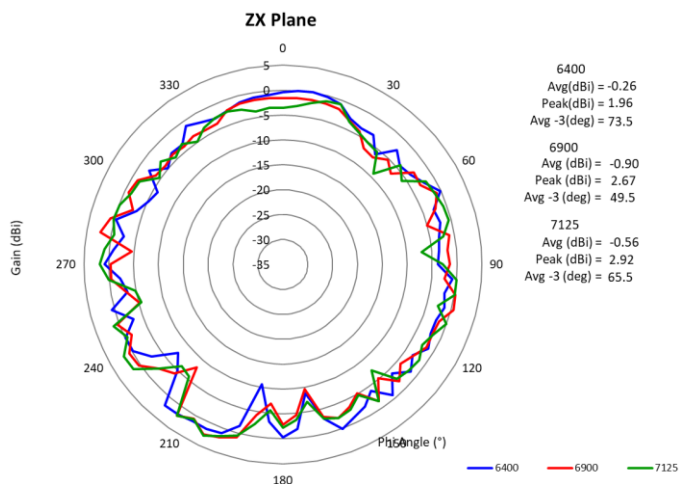
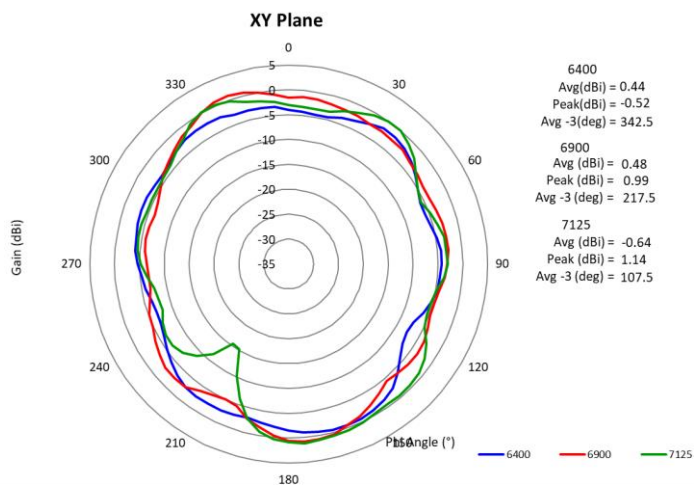
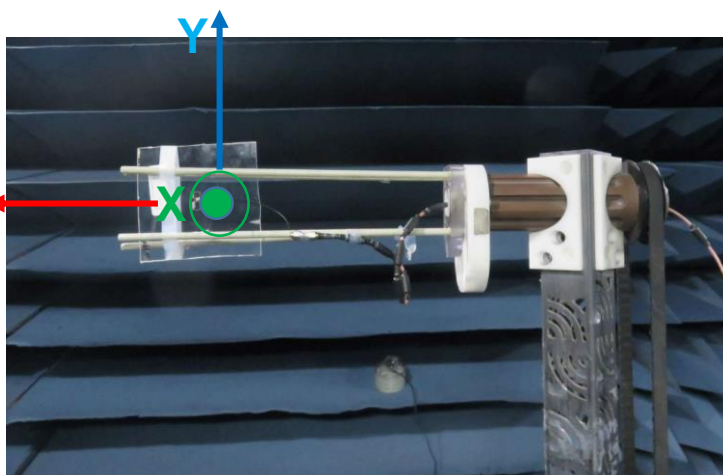
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CHARTS

Radiation Patterns 6000-7125MHz



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PACKAGING

10PCS/PE bag

10 PE bag/foam bag

50 foam bag/ carton box

Total 5000PCS/Carton box



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