



Features:

- High gain performance, 3.8dBi
- For WLAN devices using WiFi (802.11b/g), Bluetooth® and ZigBee™
- Omni-directional radiation pattern provides broad 360° coverage
- One-quarter wavelength dipole configuration, length 196.2mm
- Connection and color options easily integrate with OEM designs
- **W1038** Black; **W1038W** White; **W1038G** Gray

Applications:

- Omni-directional antennas provide a uniform, donut-shaped, 360° radiation pattern. The omni-directional pattern is suitable for point-to-multipoint broadcasting in all directions. The antenna is primarily used for WLAN applications. However, it can also be used for a variety of other applications within the specified frequency range. When used as an access point, the antenna is ideally located at the center of the coverage

Issue: 1821

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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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



Description: Wireless External Antenna for 2.4 GHz Applications

Series: Stick Antenna

PART NUMBER: W1038x

This document covers all product variants of the following product family

| Antennas | Color | Connector |
|----------|-------|-------------|
| W1038 | Black | RP-SMA Male |
| W1038W | White | |
| W1038G | Gray | |

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Series: Stick Antenna

PART NUMBER: W1038x

ELECTRICAL SPECIFICATIONS

| | |
|--------------------|---------------------------------|
| Frequency | 2400-2500MHz |
| Nominal Impedance | 50 Ω |
| Return Loss | -10dB |
| Radiation Pattern | Omni |
| Peak Gain | 3.8dBi@straight, 4.7dBi@90°bent |
| Efficiency | 74%@straight, 81%@90°bent |
| Polarization | Vertical |
| Power Withstanding | 5W |

MECHANICAL SPECIFICATIONS

| | |
|----------------|--|
| Overall Length | 7.72"/196.2mm |
| Weight | 25.1g |
| Antenna Color | Black P/N: W1038 White P/N: W1038W Gray P/N : W1038G |
| Cover material | TPE |
| Connector type | RP-SMA Male |

ENVIRONMENTAL SPECIFICATIONS

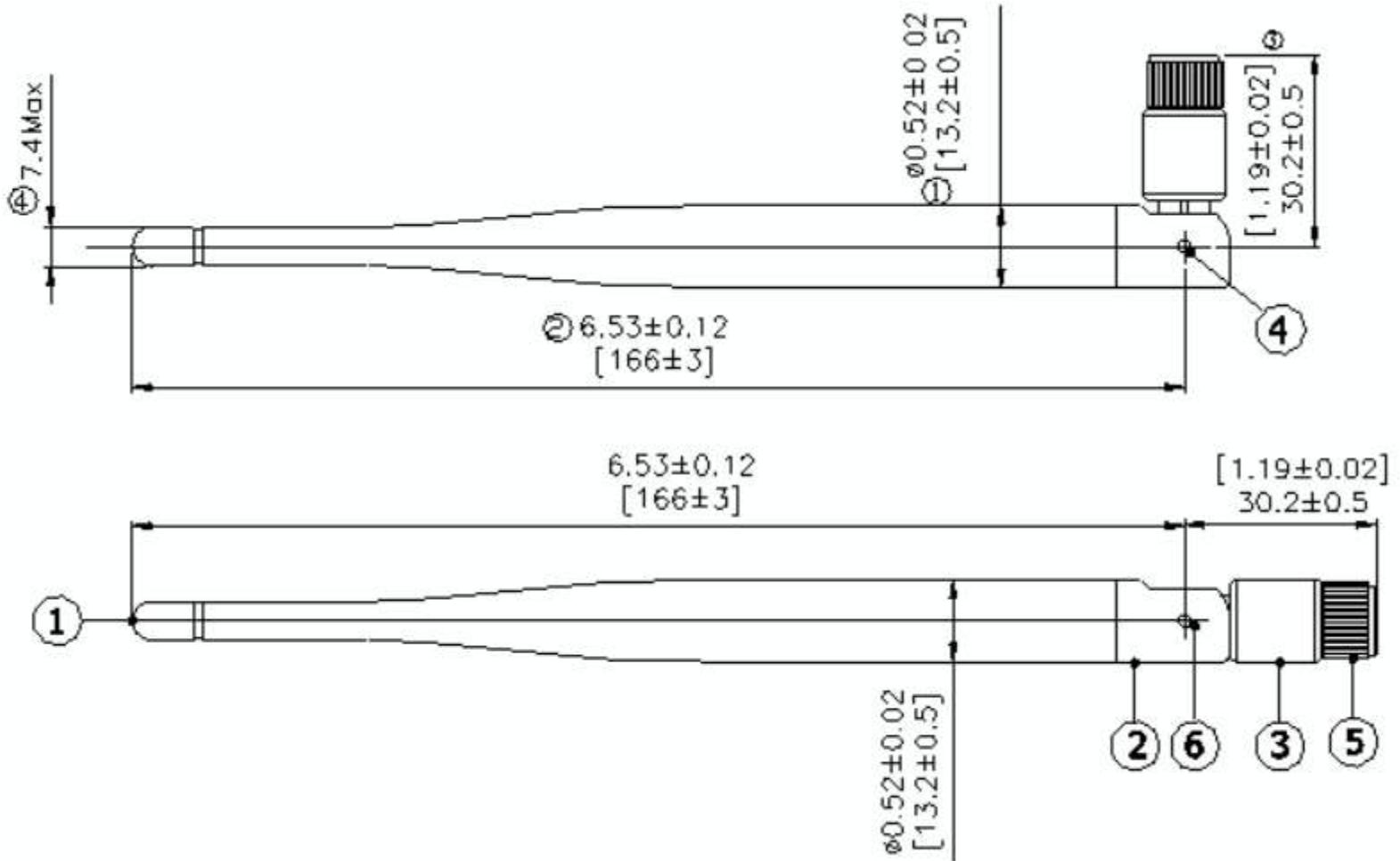
| | |
|-----------------------|------------|
| Operating Temperature | -20~+65° C |
| Storage Temperature | -30~+75° C |
| RoHS Compliant | Yes |

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MECHANICAL DRAWING



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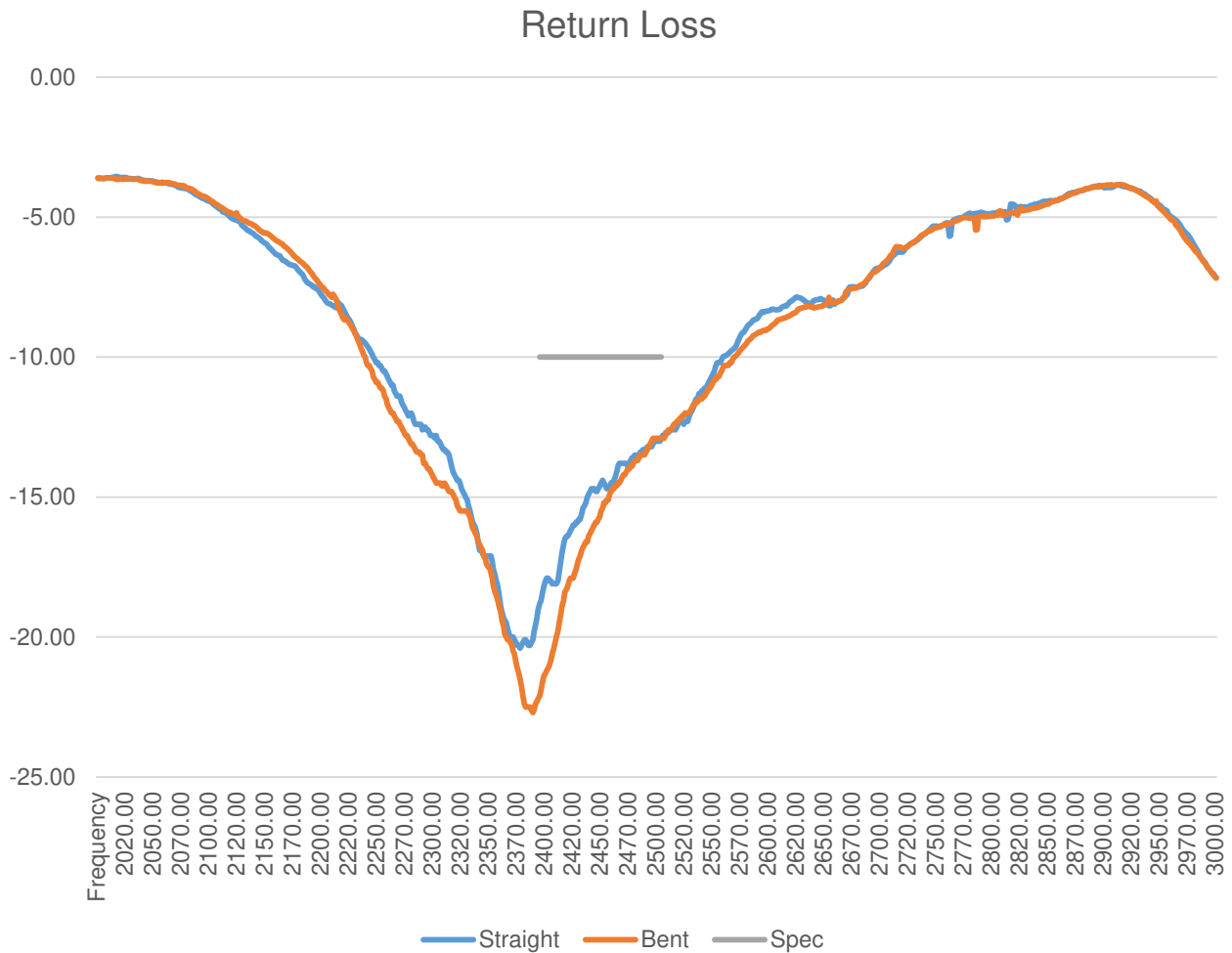
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CHARTS

Return Loss



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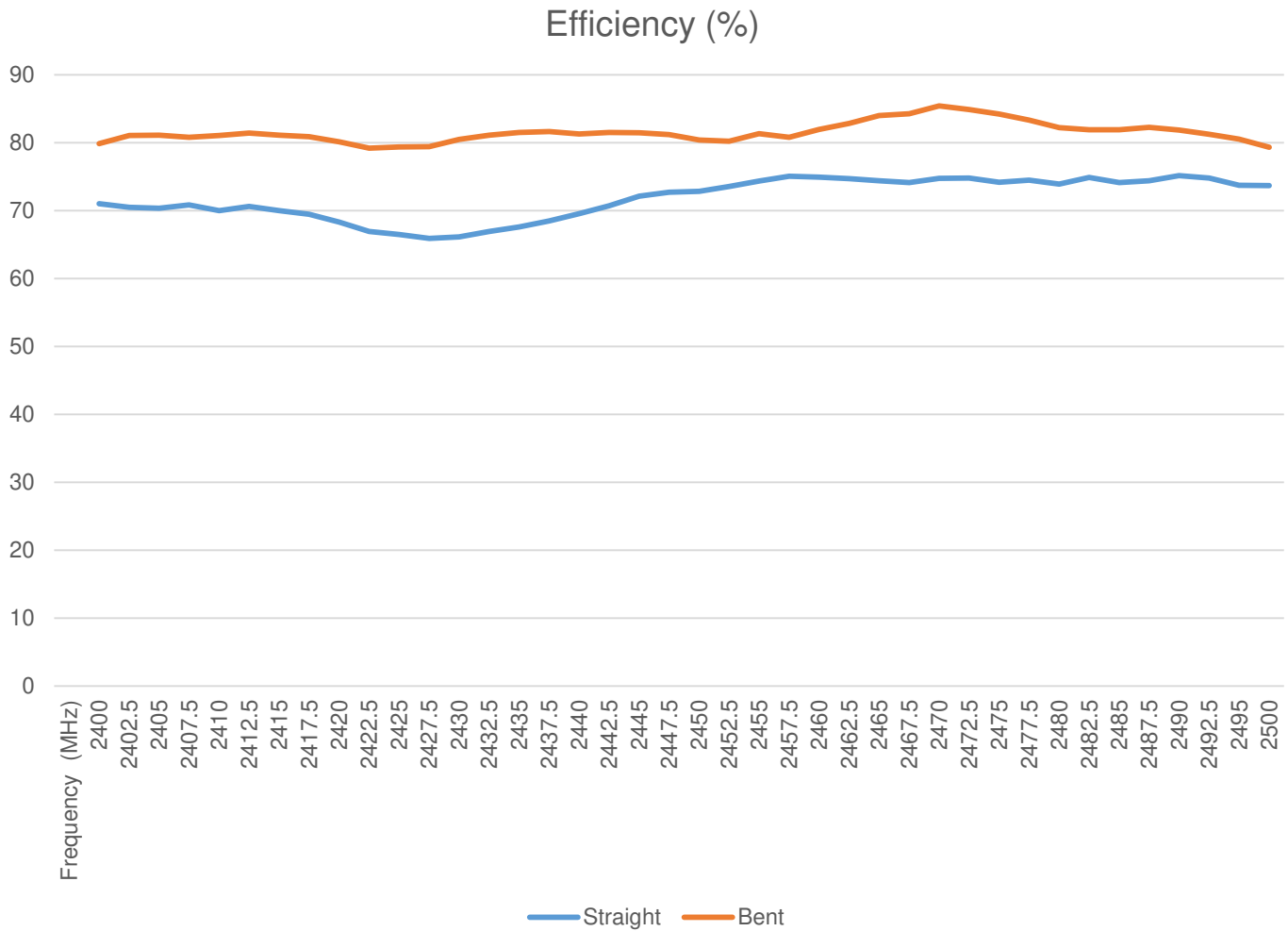
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CHARTS

Efficiency(%)



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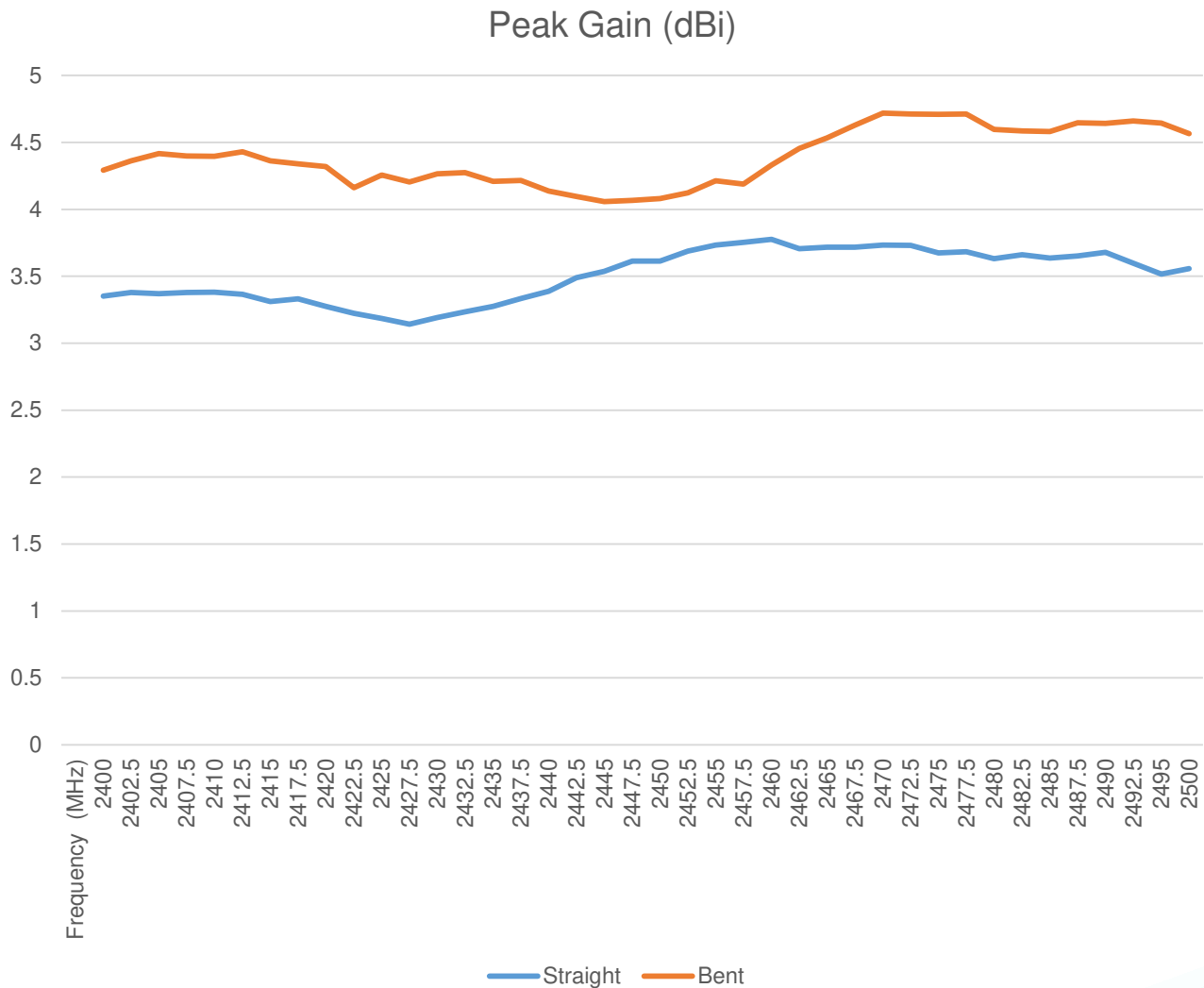
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CHARTS

Peak Gain (dBi)



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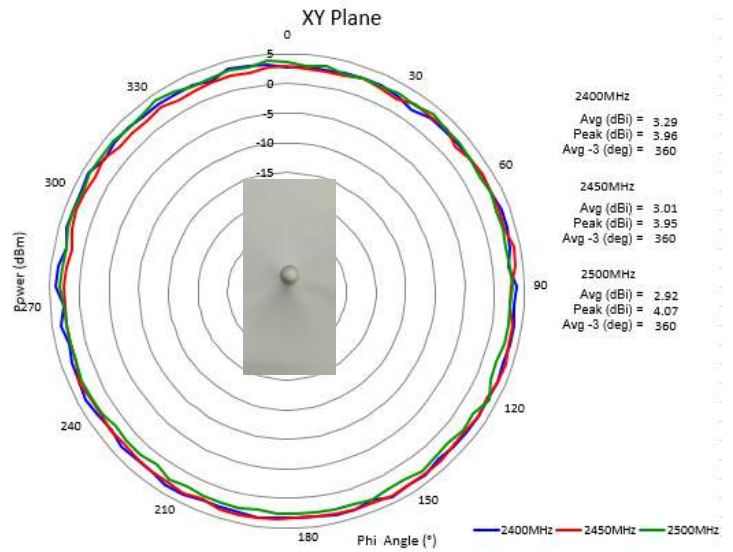
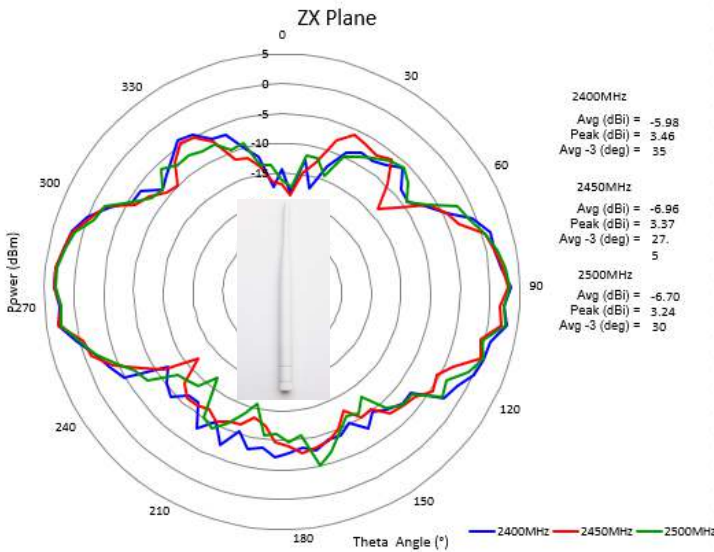
CHARTS

Free Space Radiation Pattern

Straight

Elevation Plane

Horizontal Plane



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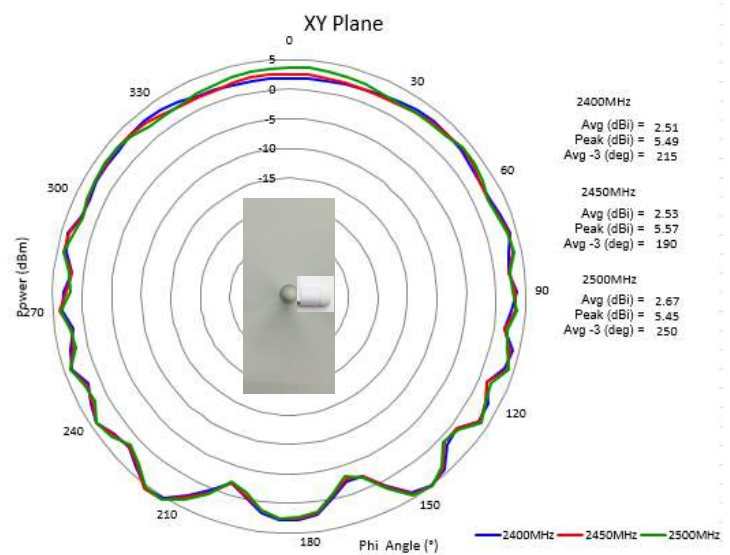
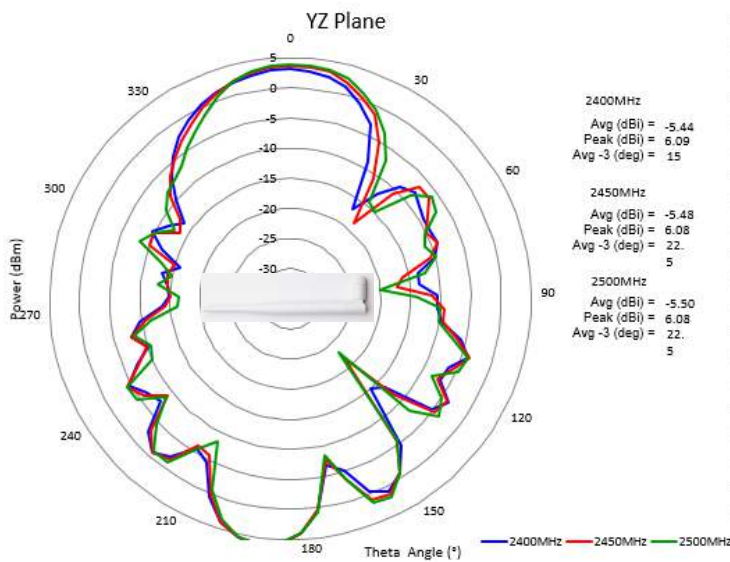
CHARTS

Free Space Radiation Pattern

Bent

Elevation Plane

Horizontal Plane



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PACKAGING

Pack 20pcs antenna in one PE bag
25pcs PE bag (500pcs Antenna) in one carton