

Description: LTE 698-3700MHz Swivel Dipole

Series: OMNI Antenna

PART NUMBER: W5084x



Features:

- 698-3700MHz
- Omni radiation pattern in horizontal plane
- Gain 2/4 dBi
- Power rating 5W
- IP65
- Connector options:
 - W5084 TNC male
 - W5084K SMA male

Applications:

- LTE radios
- 2G/3G/4G radios
- Gateways, Routers, Set top boxes, Security, Metering
- IoT, M2M
- Optimized for straight and 90deg bent positions

All dimensions are in mm / inches

Issue: 1746

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ELECTRICAL SPECIFICATIONS

| | | |
|----------------------------------|---------------------------------|--------------------|
| Frequency | 698-960/1400-2690/3400-3700MHz | |
| Nominal Impedance | 50 | Ω |
| VSWR | 3 | Max |
| Average Efficiency(698-960MHz) | 58 | % |
| Average Efficiency(1400-2690MHz) | 78 | % |
| Average Efficiency(3400-3700MHz) | 60 | % |
| Peak Gain (698-960MHz) | 2 | dBi +/- 1 dB |
| Peak Gain (1400-2690MHz) | 4 | dBi +/- 1 dB |
| Peak Gain (3400-3700MHz) | 5 | dBi +/- 1 dB |
| Polarization: | Vertical | |
| Power withstanding | 5 | W |
| Connector type | TNC male (SMA male is optional) | |
| Connector Options | W5084 | TNC male connector |
| | W5084K | SMA male connector |

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MECHANICAL SPECIFICATIONS

| | |
|------------------------------|-----------------------------------|
| Plastic radome | ABS/PC |
| Color | Black |
| Flammability | UL94-V0 |
| Ingress Protection | IP65 |
| Weight | 65.9 g |
| Overall Length(W5084/W5084K) | 228.84/223.24mm [9.01/8.79INCHES] |
| Position | 0°, 45° & 90° |

ENVIRONMENTAL SPECIFICATIONS

| | |
|-----------------------|-------------|
| Operating temperature | -40/+85 ° C |
| Storage Temperature | -40/+85 ° C |
| Salt mist | 96 hours |

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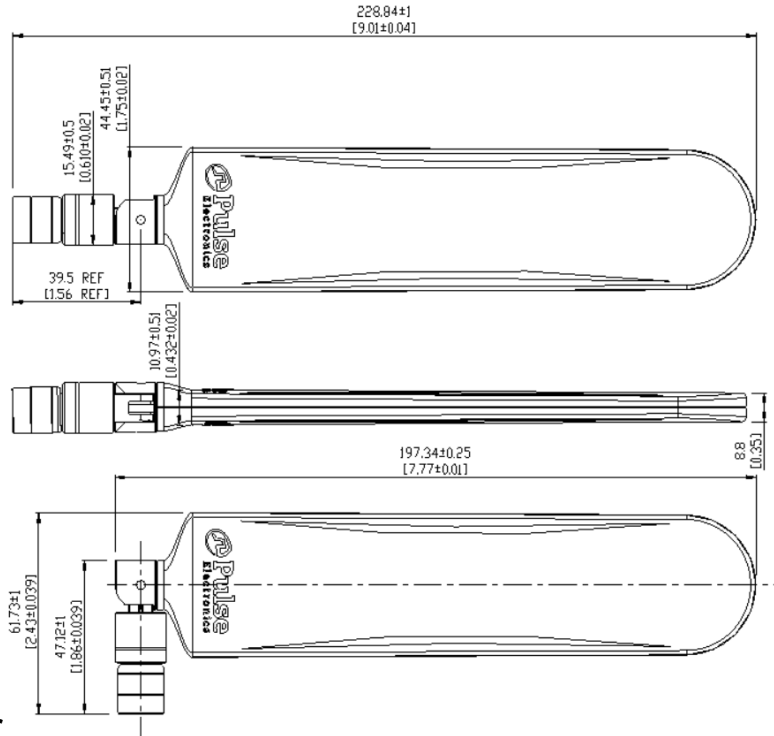
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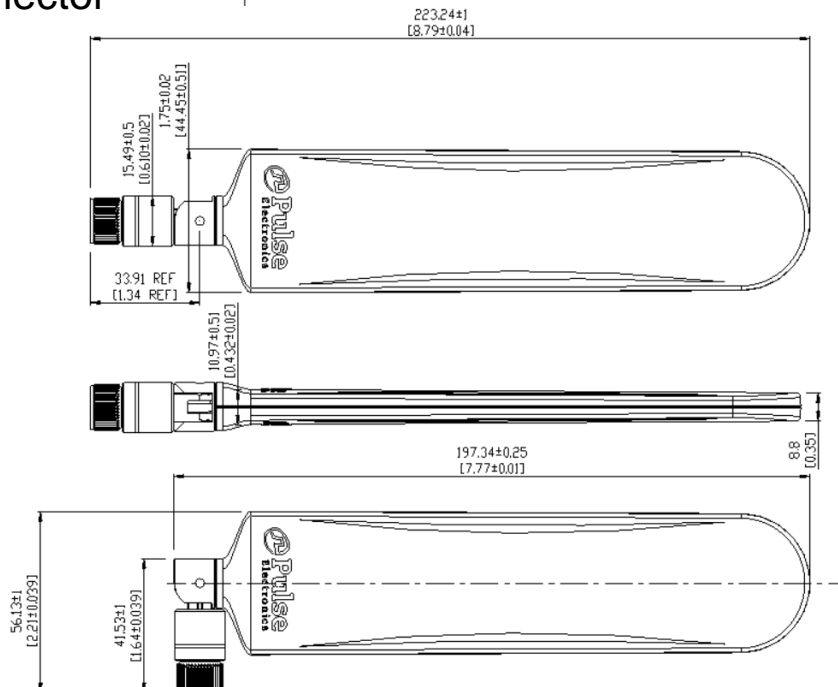
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MECHANICAL DRAWING

W5084 TNC male connector



W5084K SMA male connector



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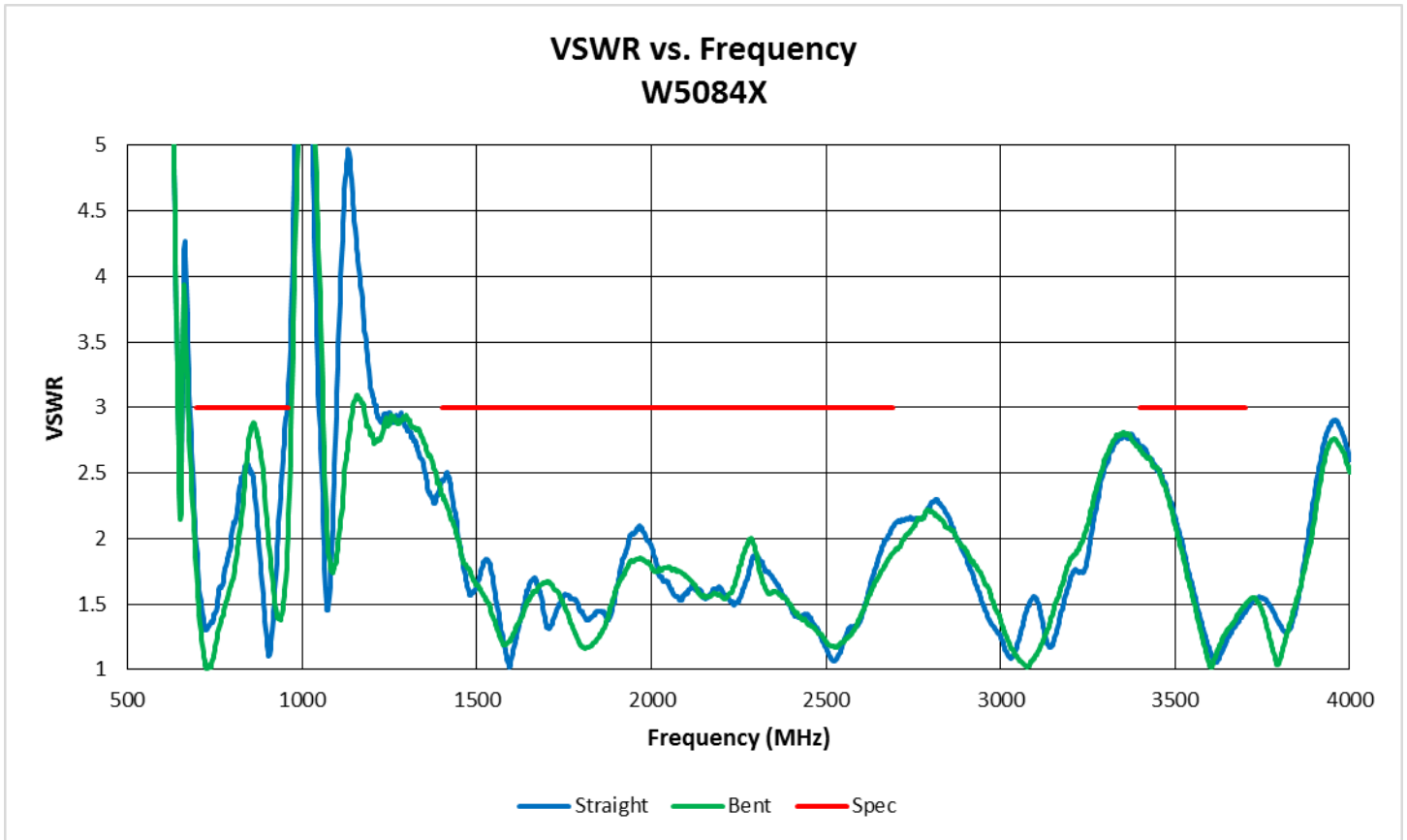
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CHARTS

VSWR



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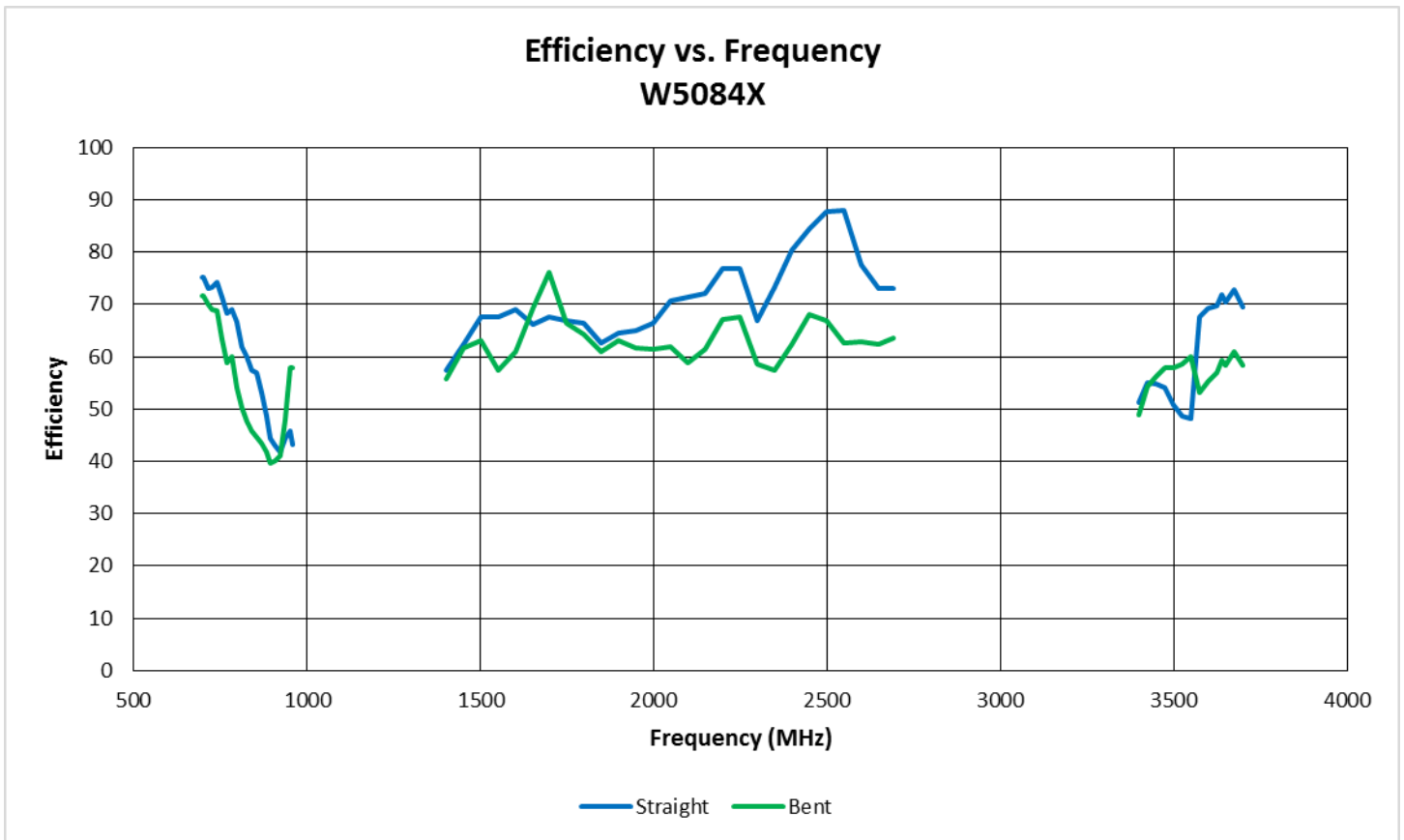
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CHARTS

Efficiency



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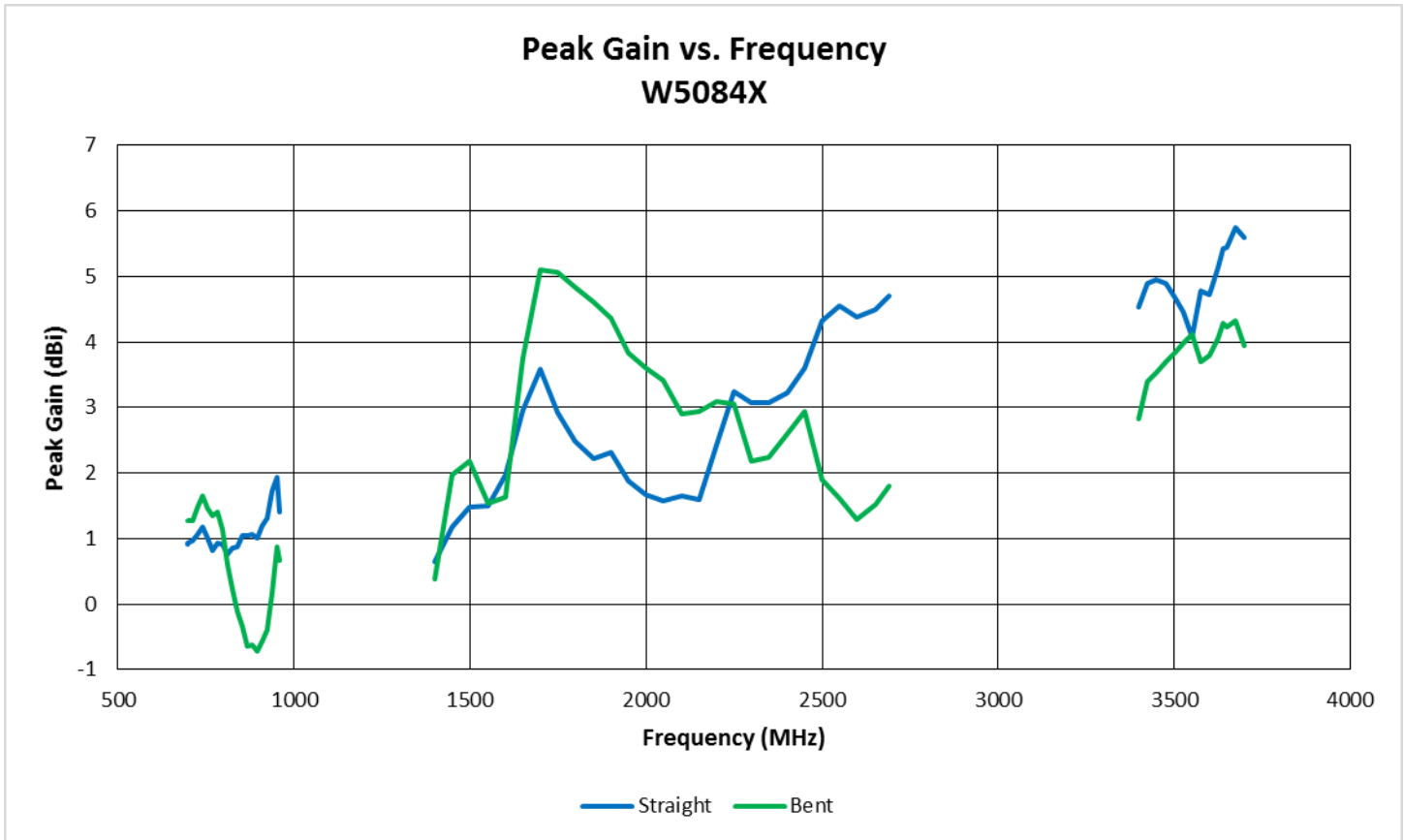
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CHARTS

Peak Gain



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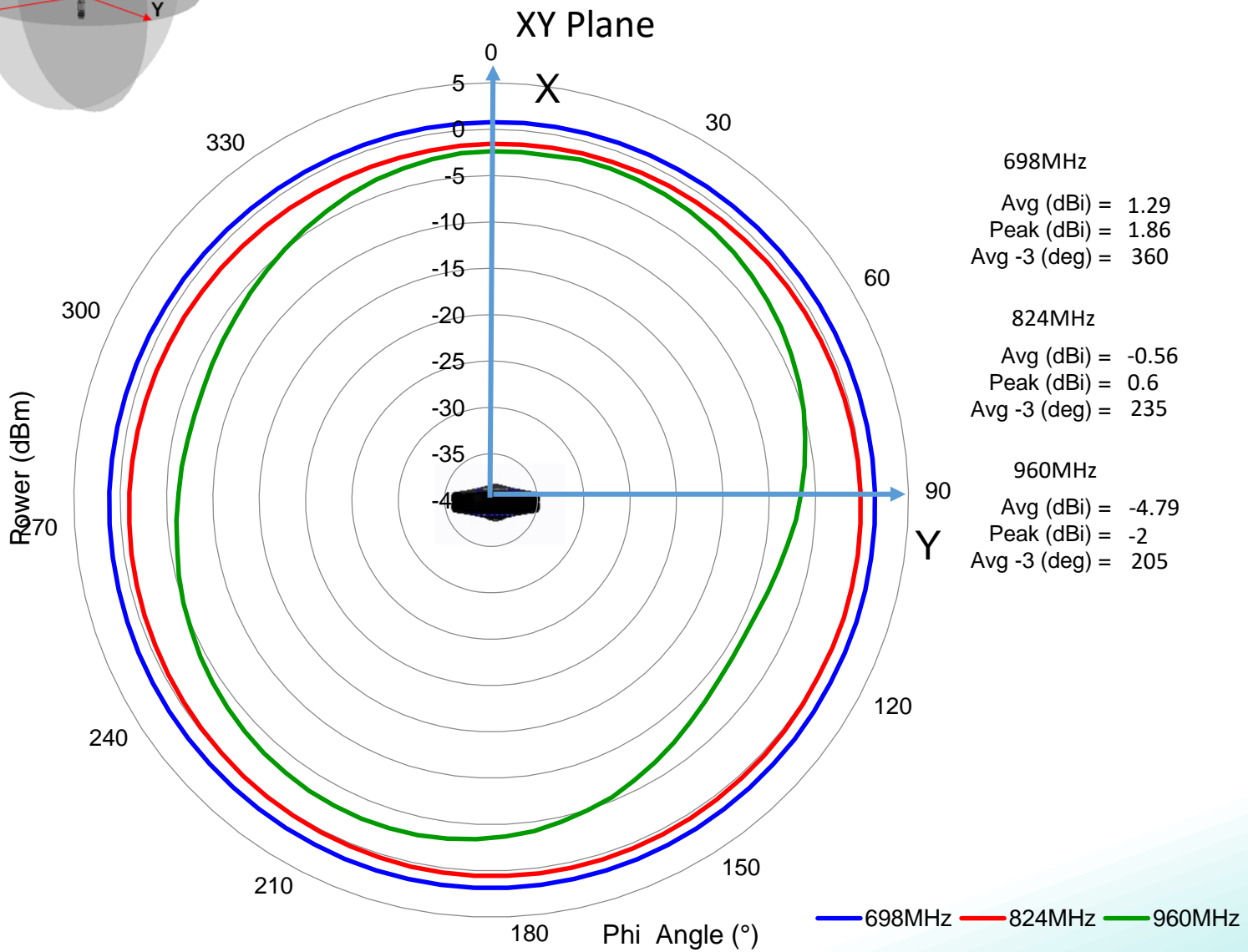
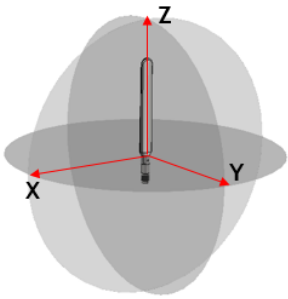
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CHARTS

Gain Plots



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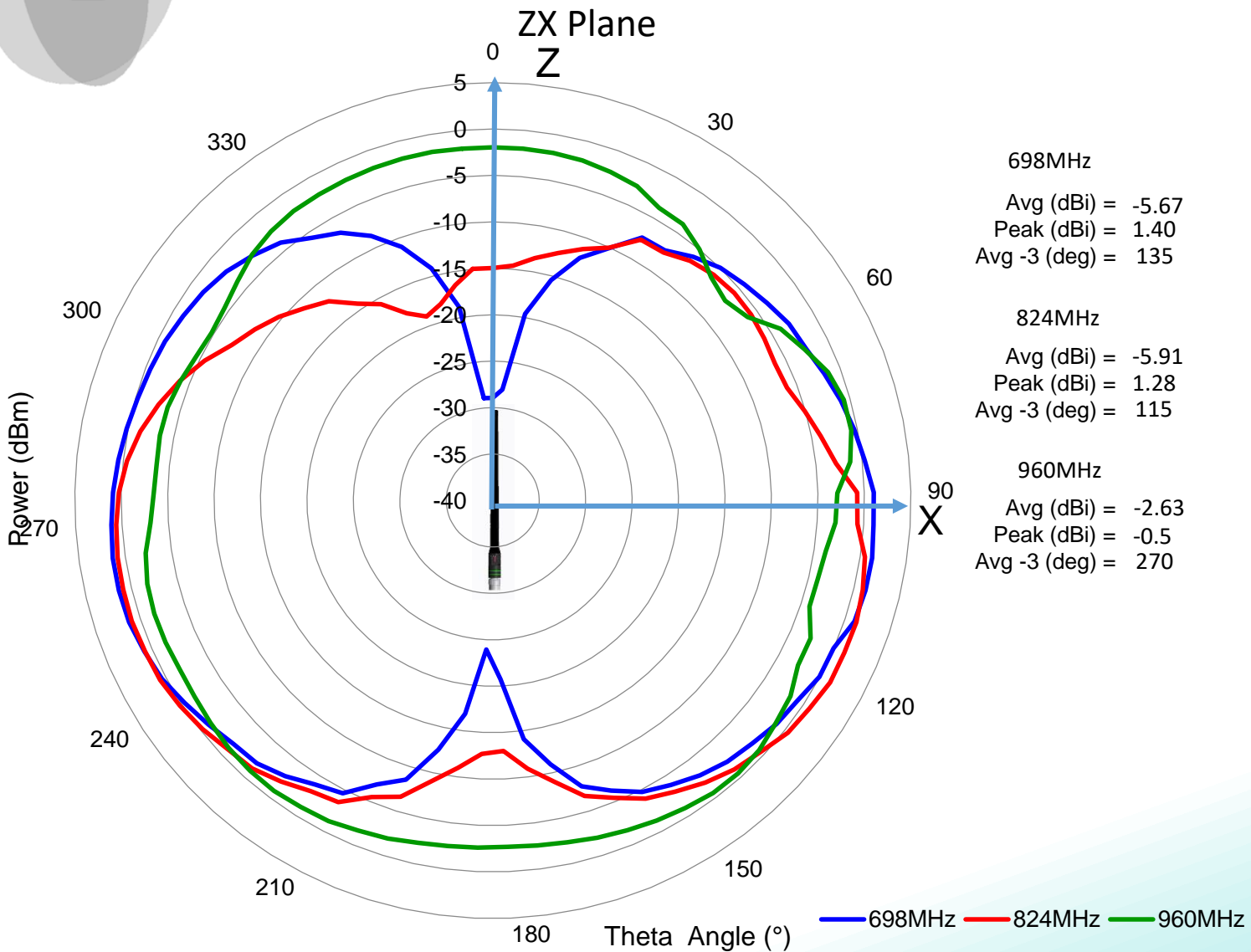
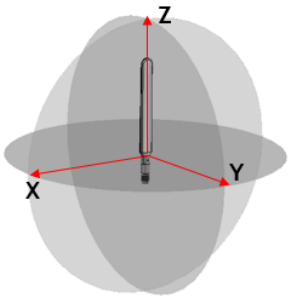
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CHARTS

Gain Plots



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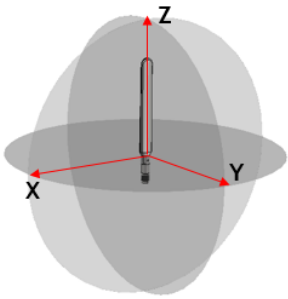
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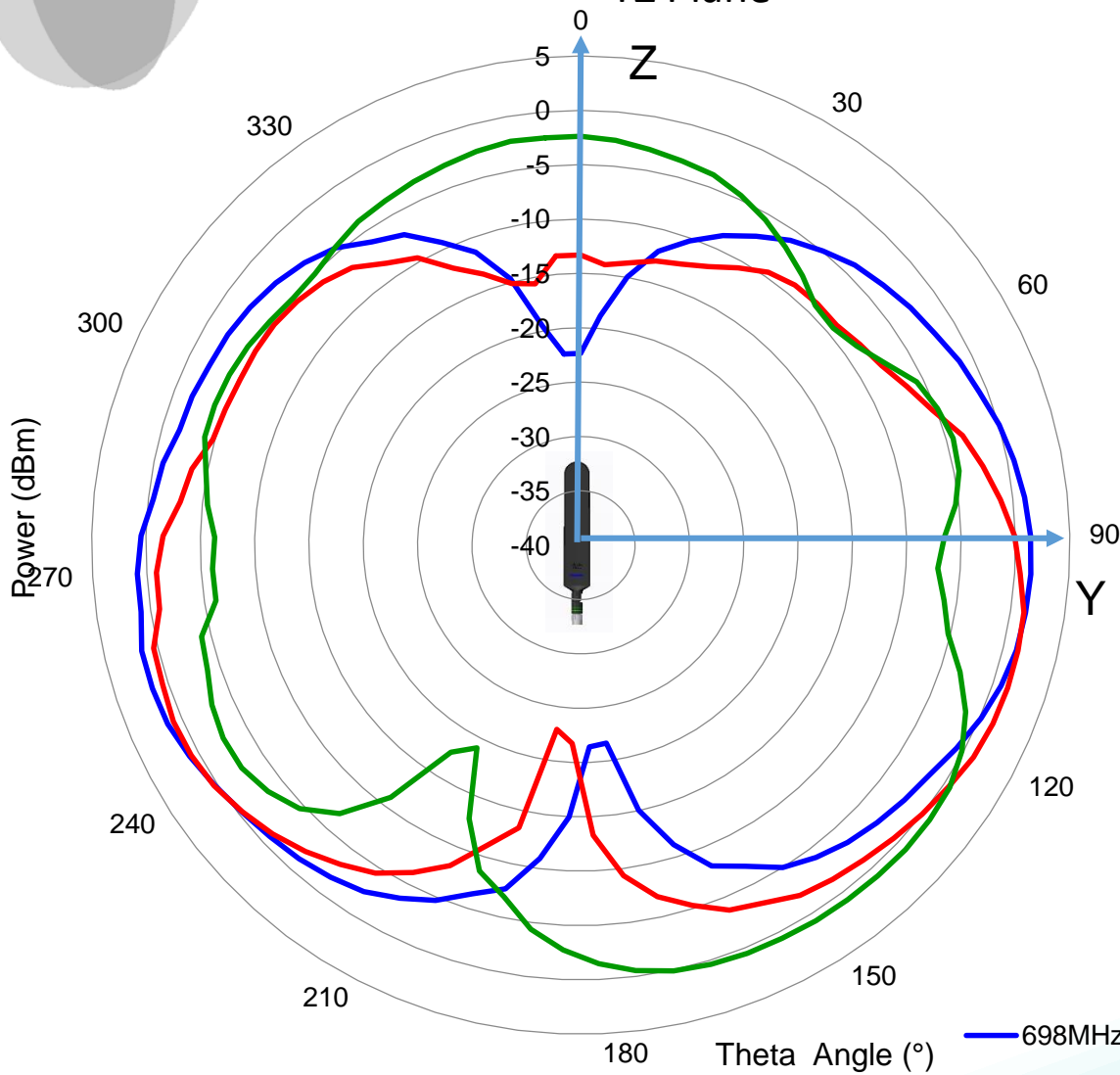
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CHARTS

Gain Plots



YZ Plane



| | |
|--------|--------------------|
| 698MHz | Avg (dBi) = -5.15 |
| | Peak (dBi) = 1.54 |
| | Avg -3 (deg) = 120 |
| 824MHz | Avg (dBi) = -6.02 |
| | Peak (dBi) = 1.41 |
| | Avg -3 (deg) = 110 |
| 960MHz | Avg (dBi) = -4.54 |
| | Peak (dBi) = 0.95 |
| | Avg -3 (deg) = 65 |

— 698MHz — 824MHz — 960MHz

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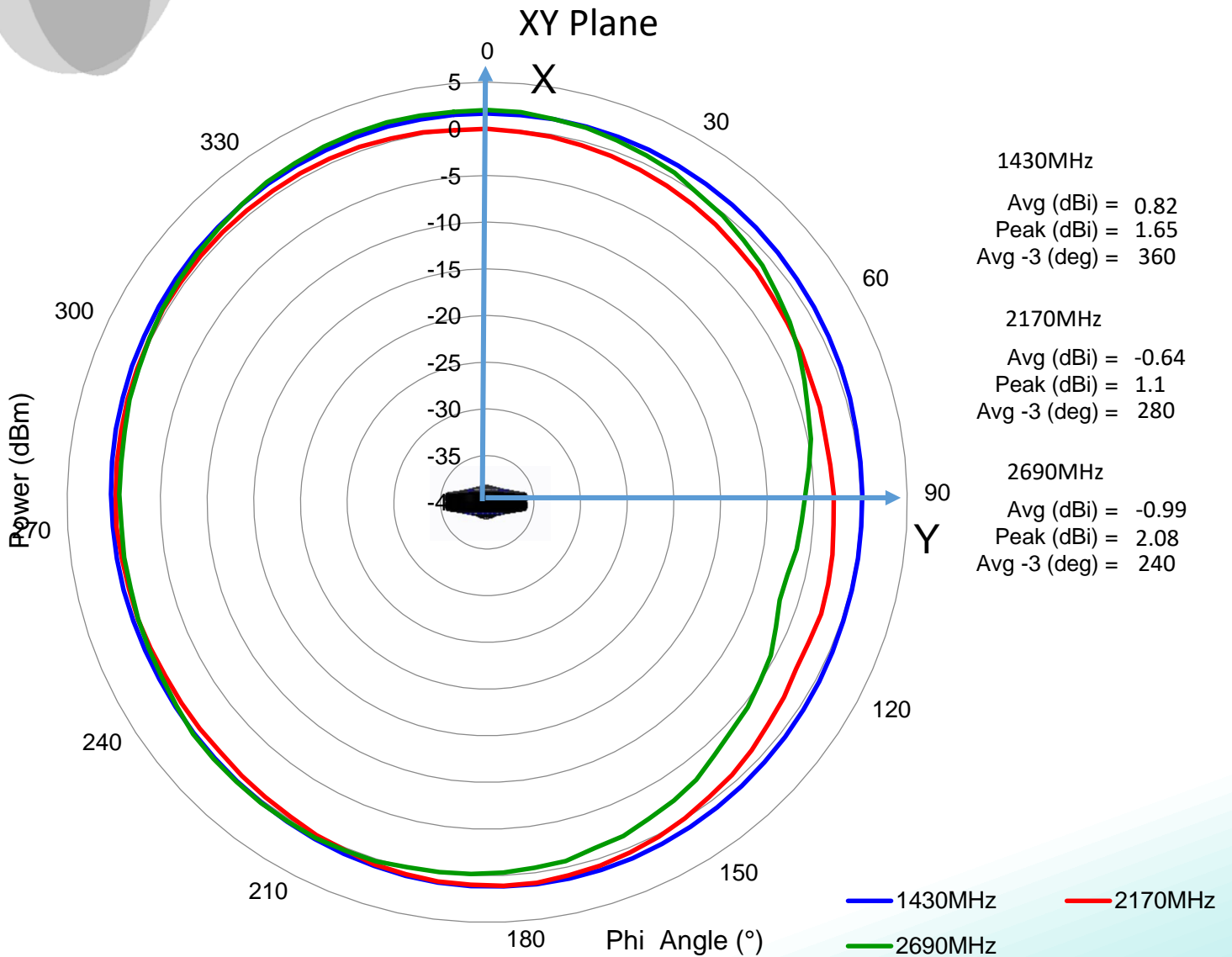
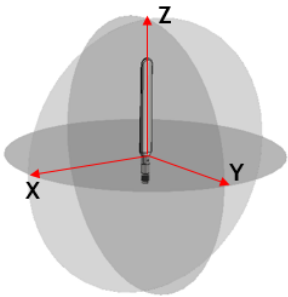
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CHARTS

Gain Plots



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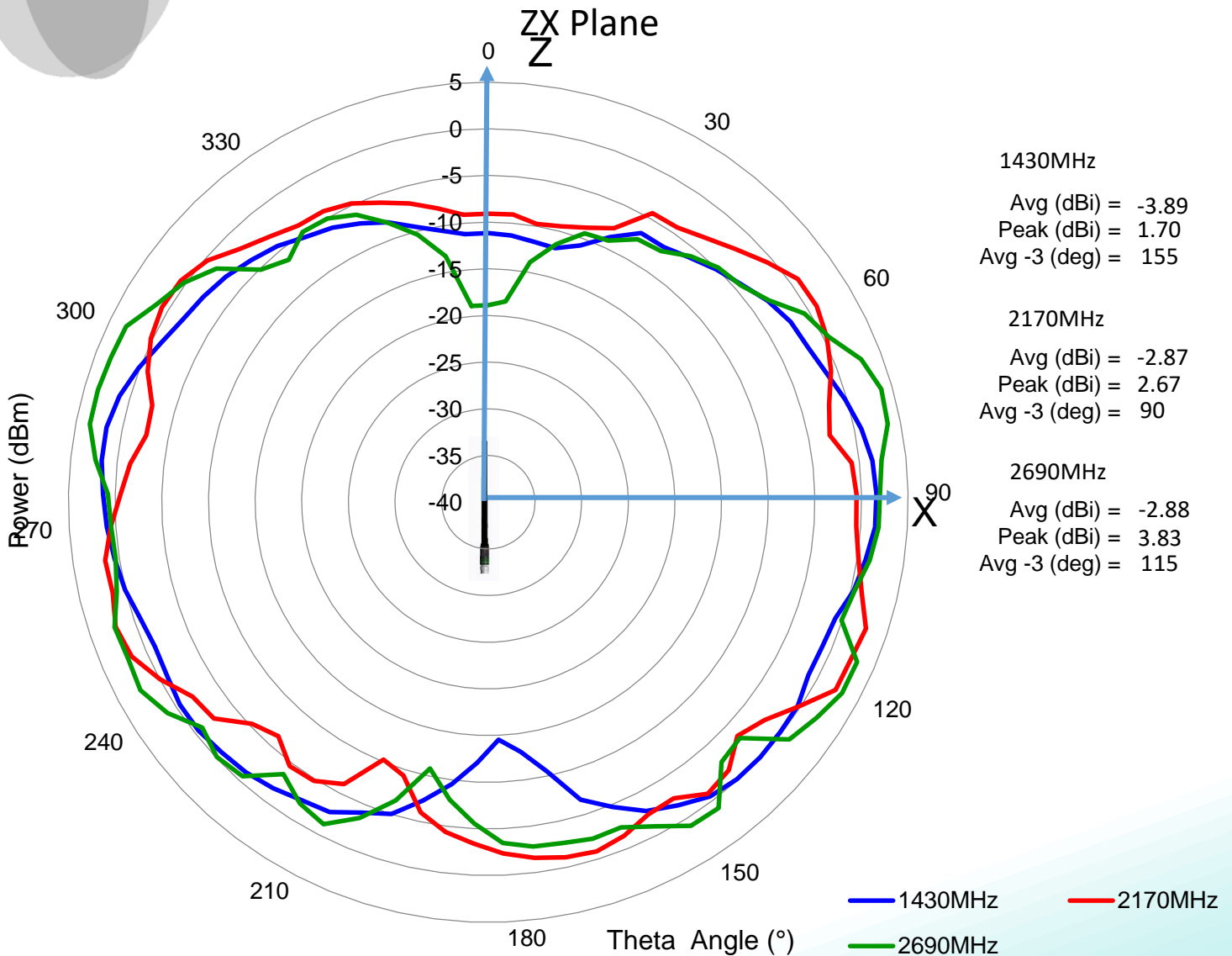
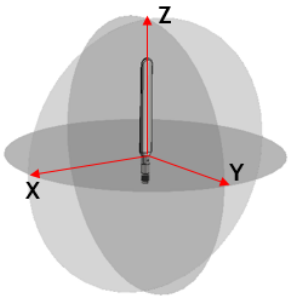
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Gain Plots



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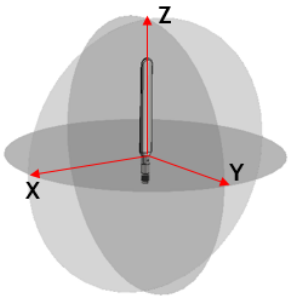
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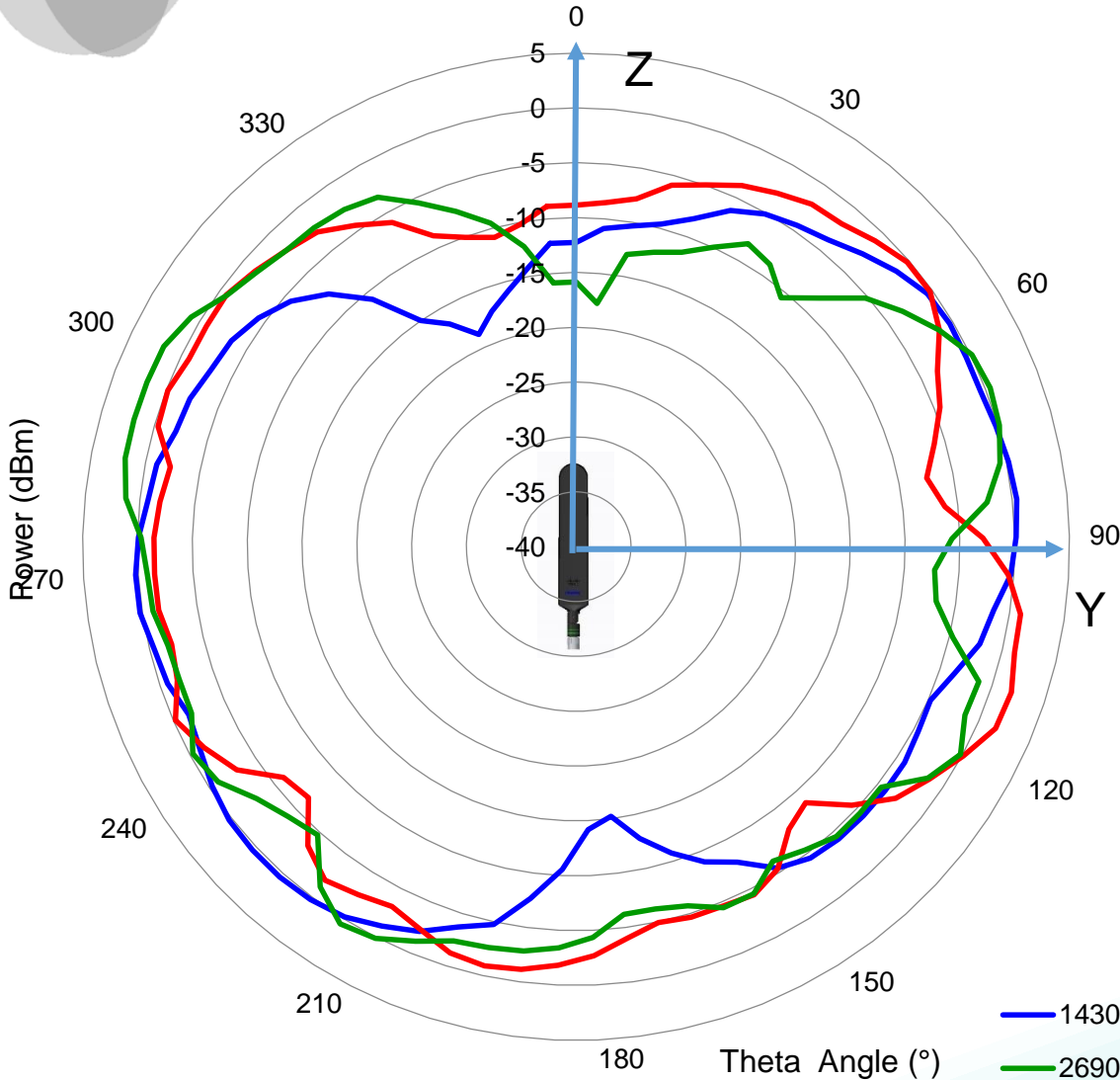
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CHARTS

Gain Plots



YZ Plane



| | |
|---------|--------------------|
| 1430MHz | Avg (dBi) = -5.31 |
| | Peak (dBi) = 0.45 |
| | Avg -3 (deg) = 150 |
| 2170MHz | Avg (dBi) = -3.61 |
| | Peak (dBi) = 1.85 |
| | Avg -3 (deg) = 80 |
| 2690MHz | Avg (dBi) = -4.28 |
| | Peak (dBi) = 1.96 |
| | Avg -3 (deg) = 90 |

— 1430MHz — 2170MHz
— 2690MHz

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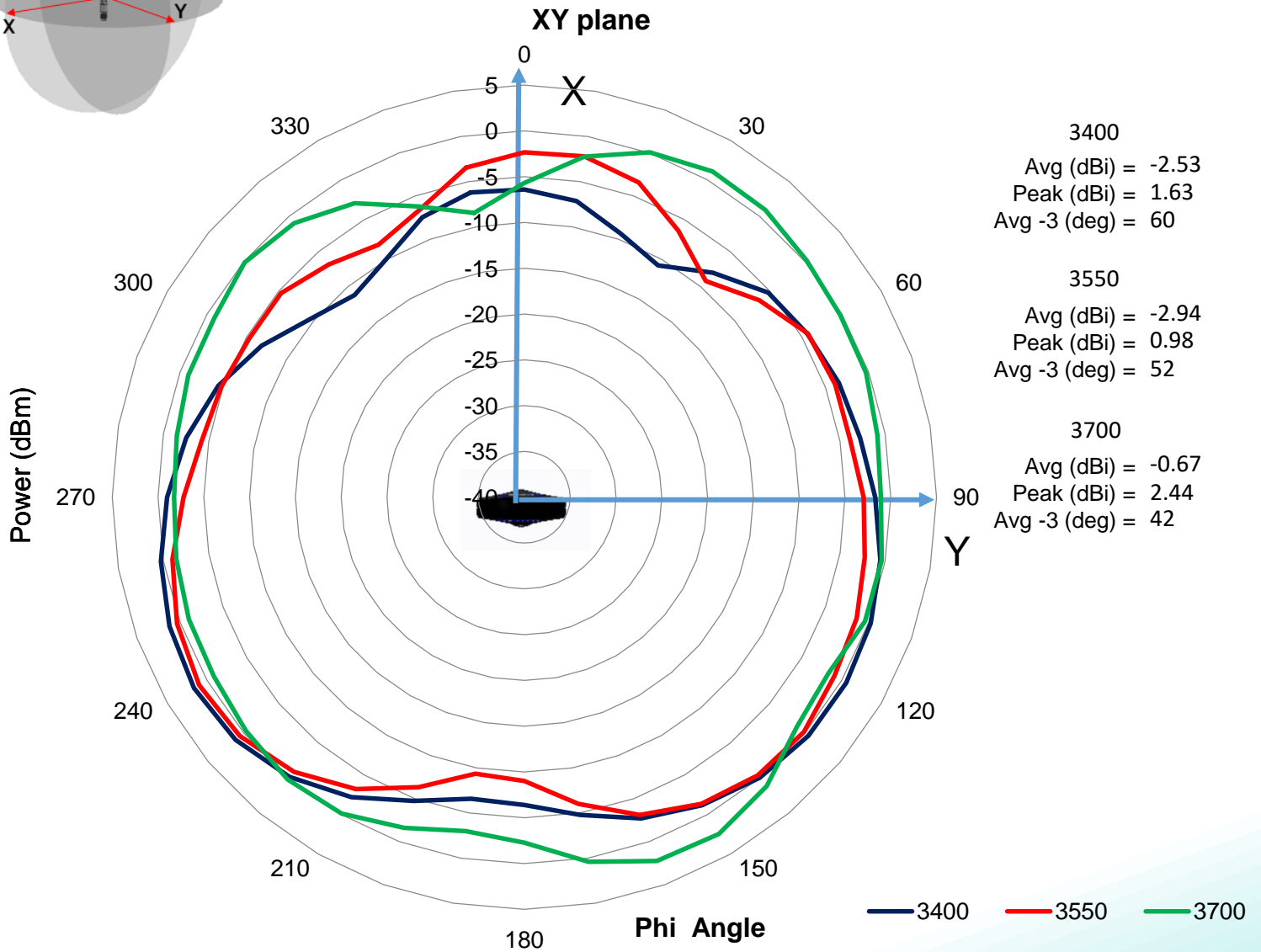
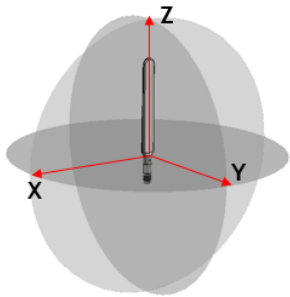
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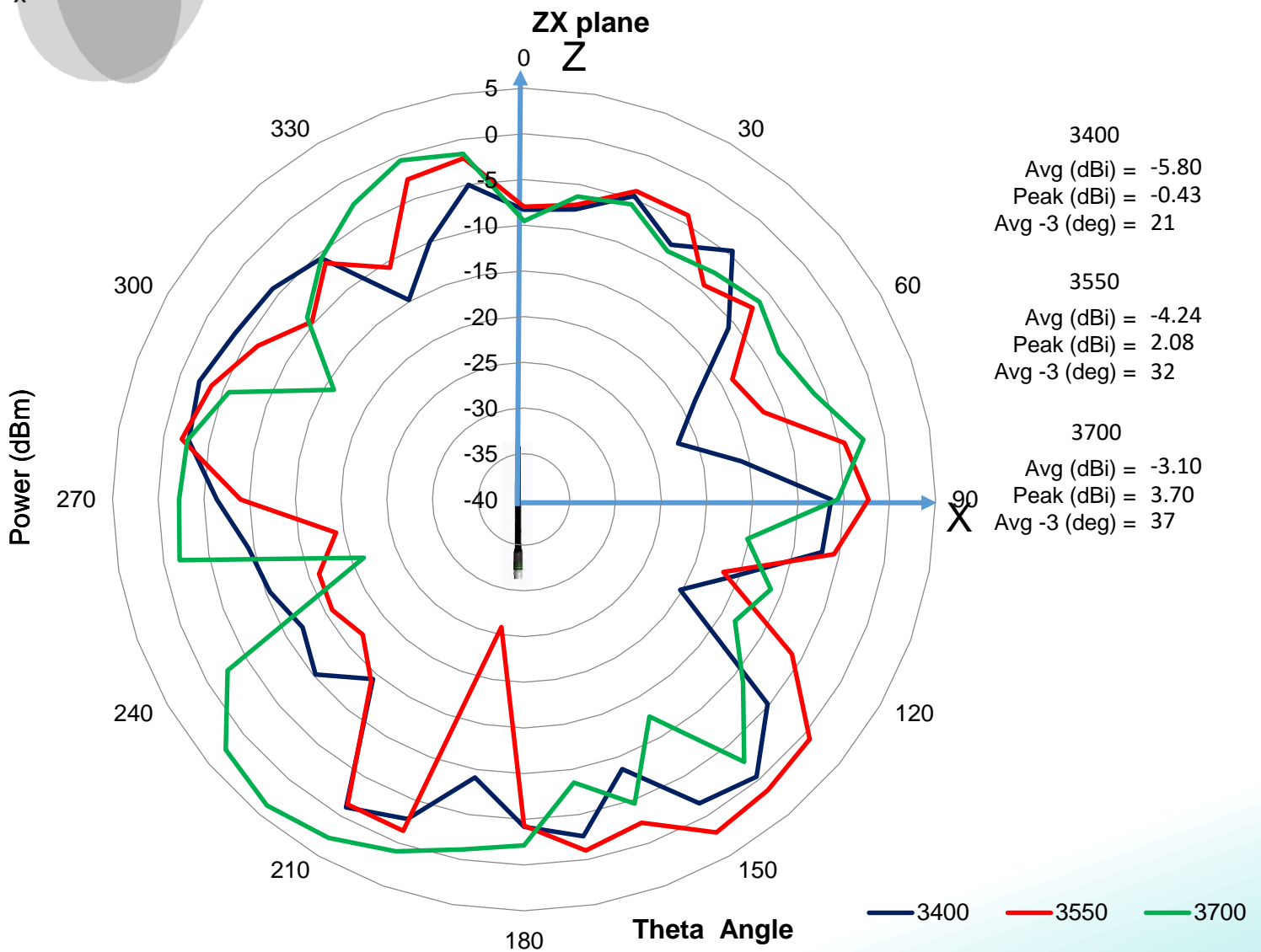
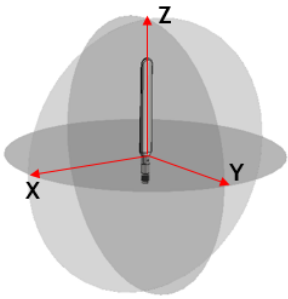
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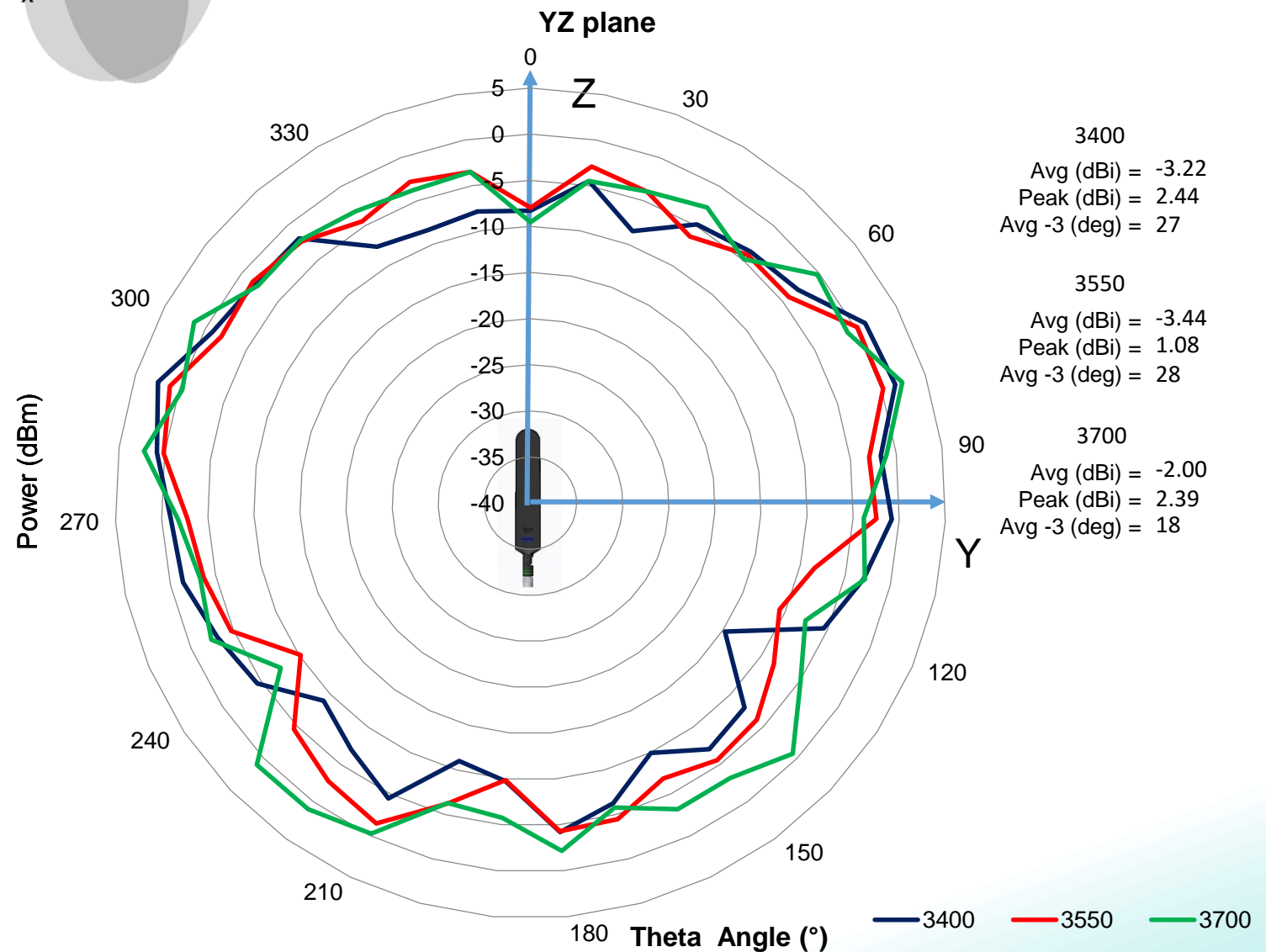
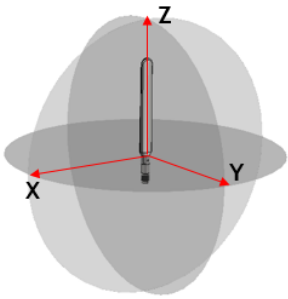
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PACKAGING

1PCS/PE bag

100PCS/Carton box

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