

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

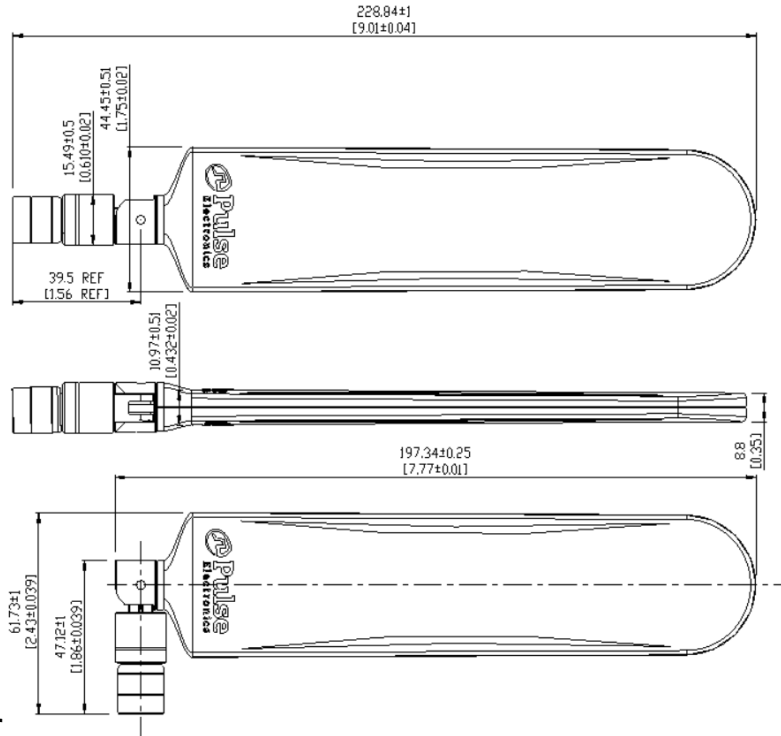
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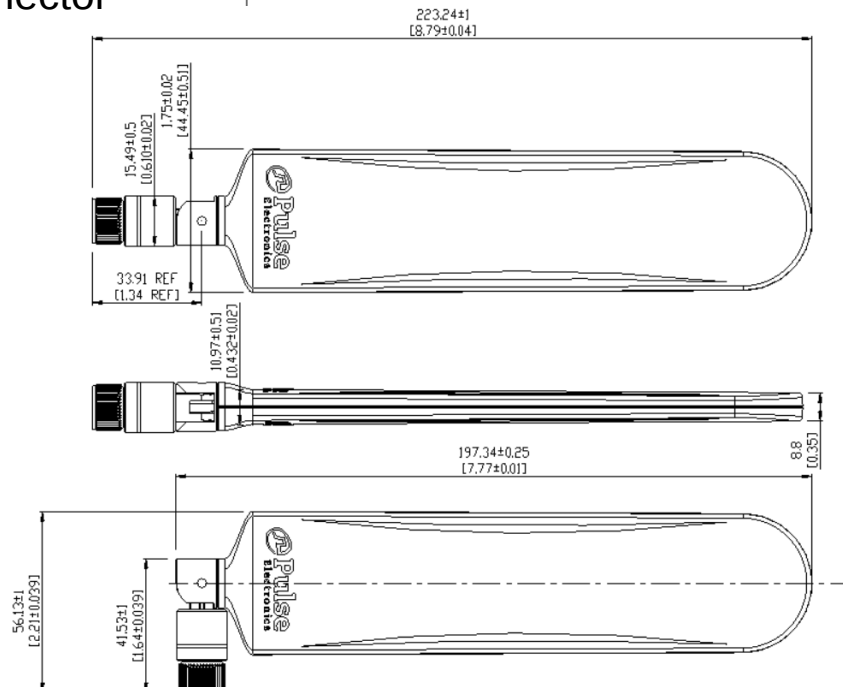
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MECHANICAL DRAWING

W5084 TNC male connector



W5084K SMA male connector



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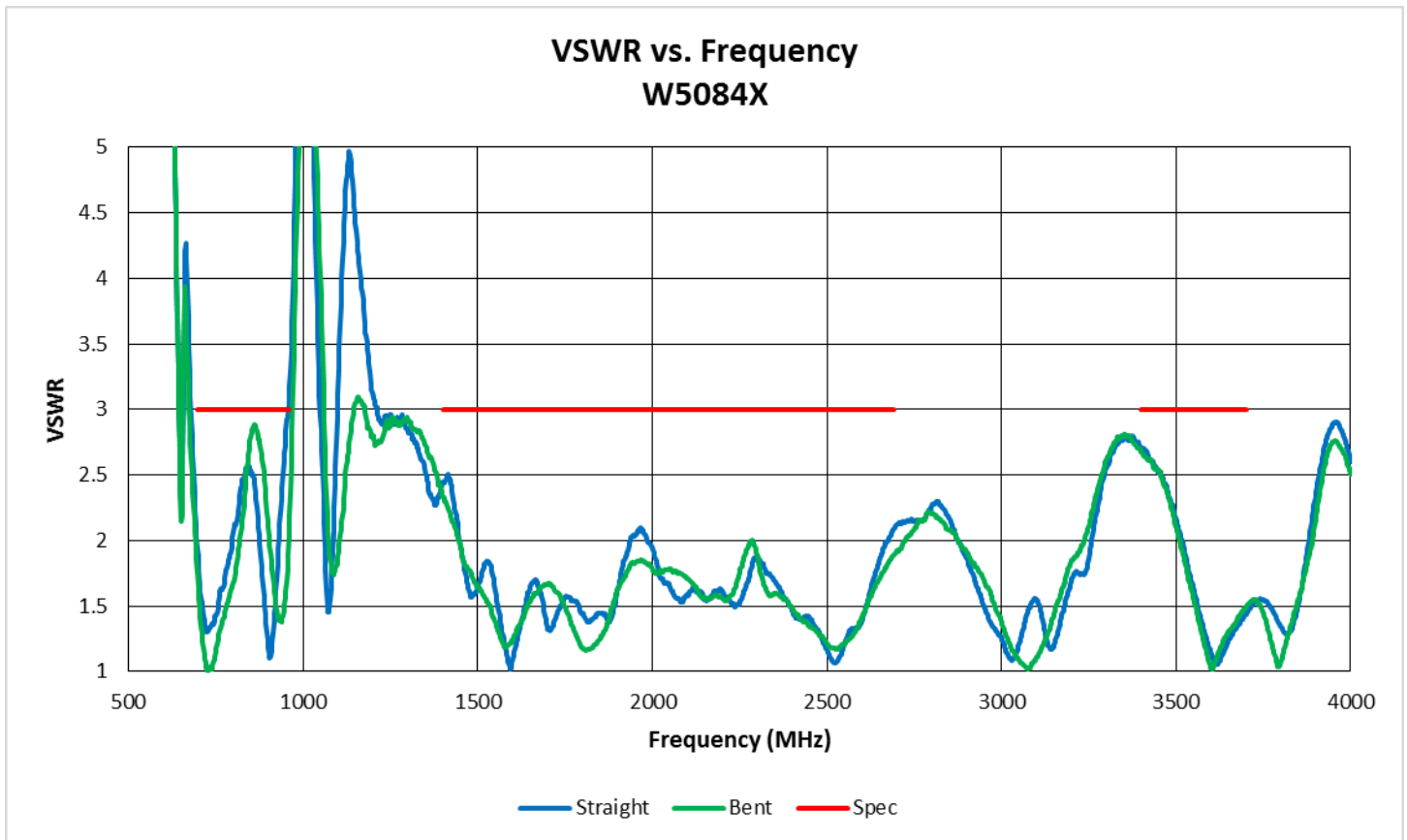
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CHARTS

VSWR



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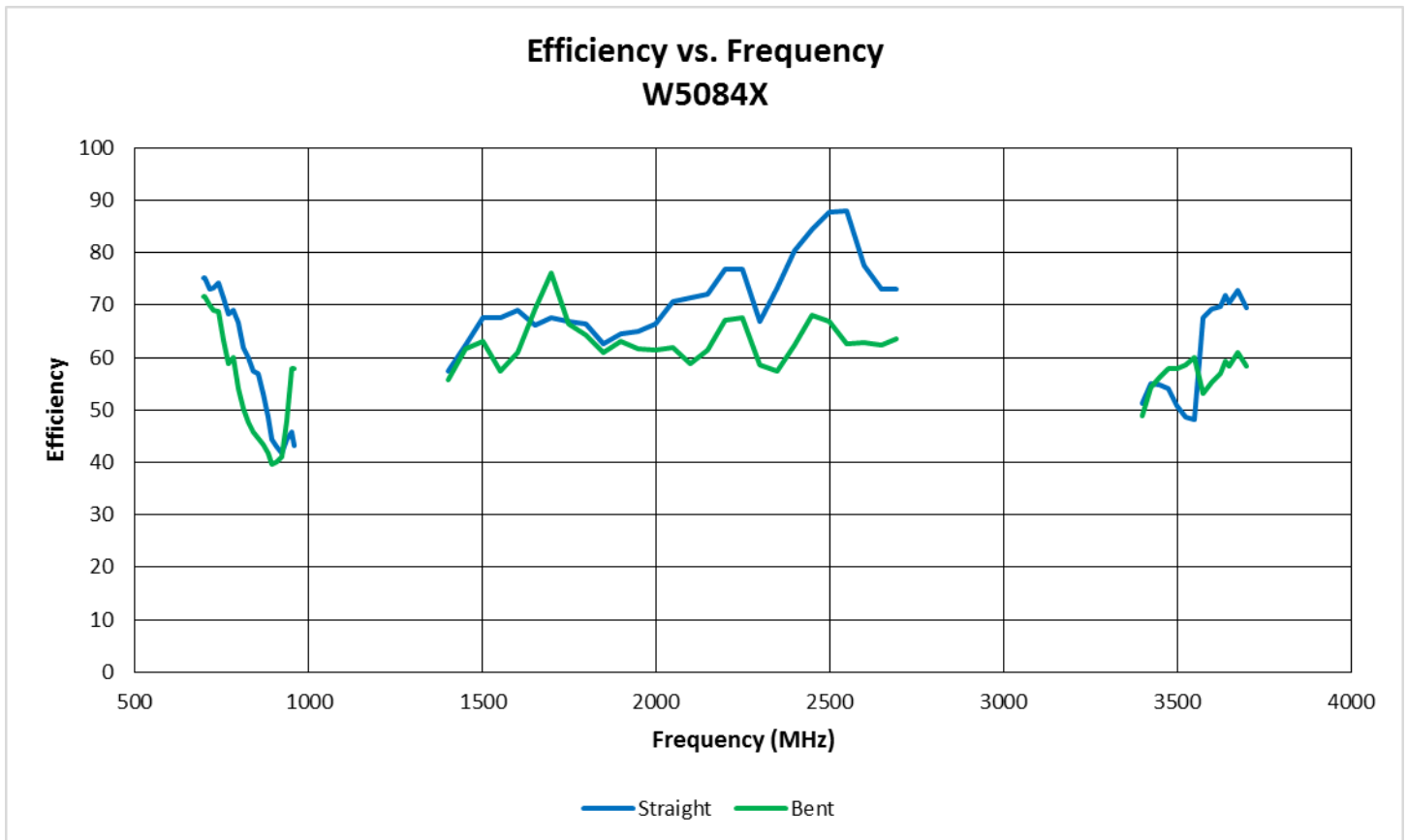
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CHARTS

Efficiency



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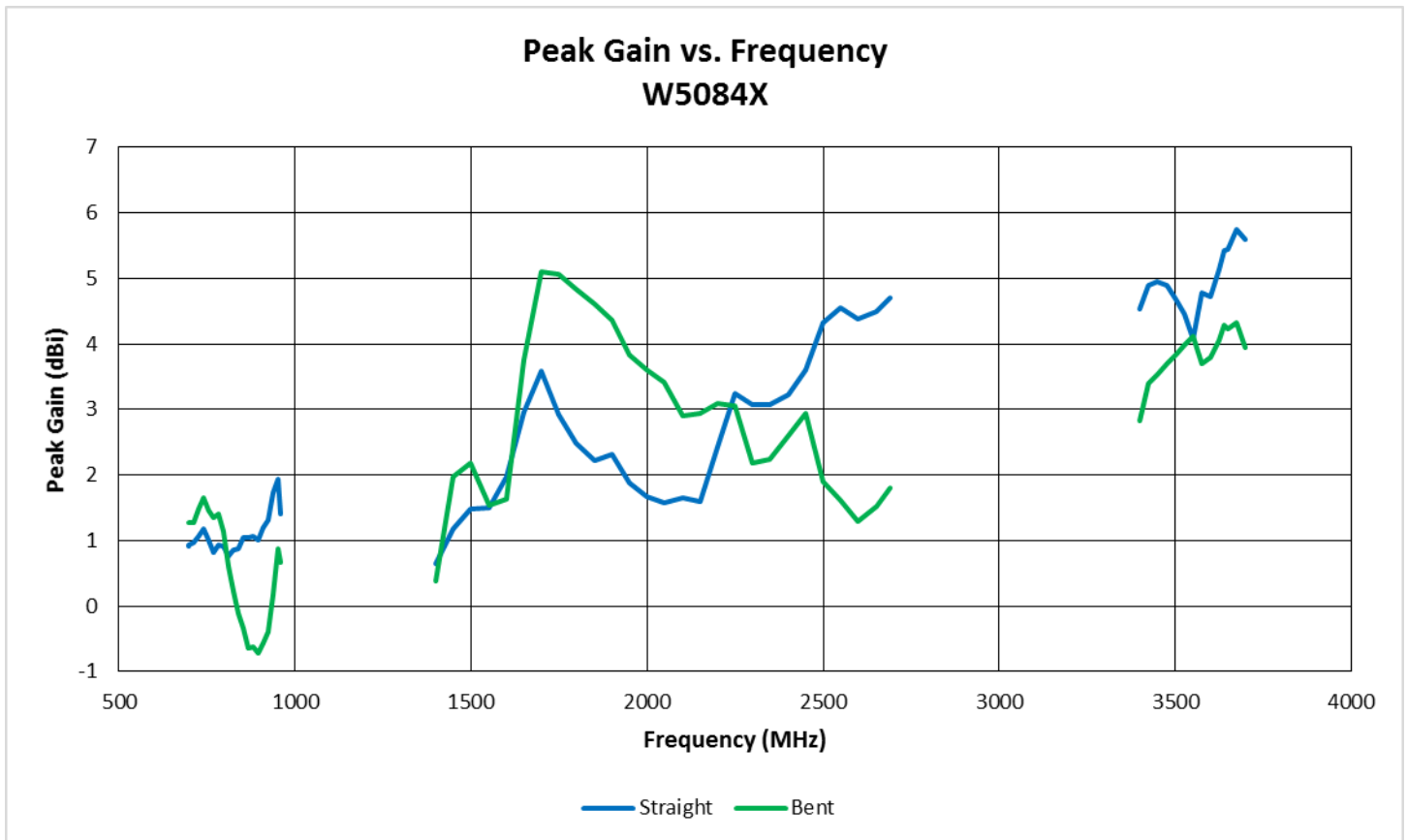
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CHARTS

Peak Gain



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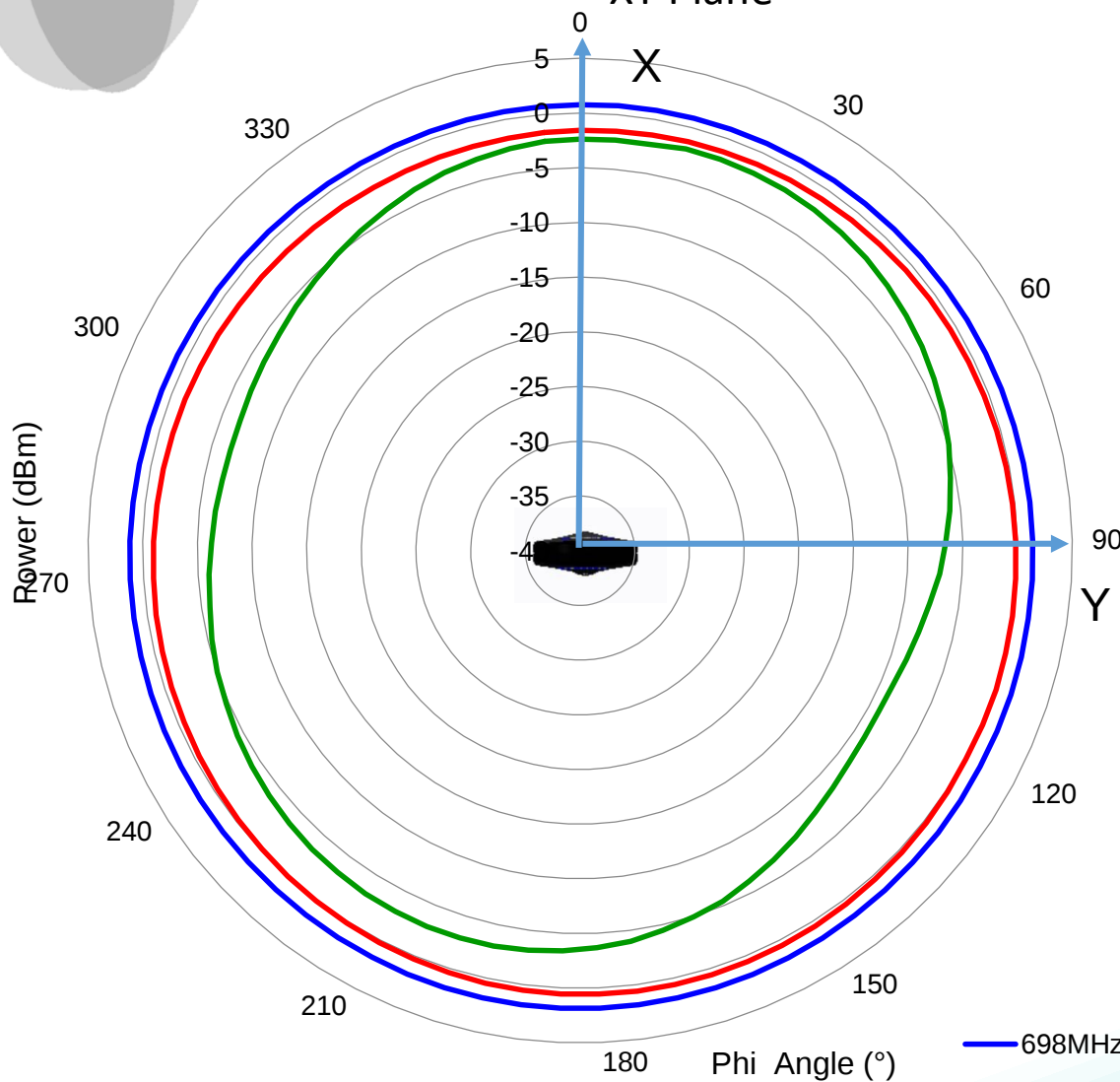
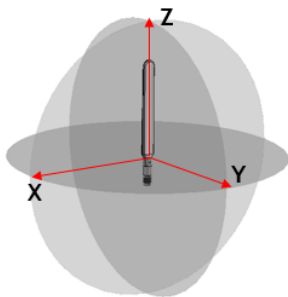
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CHARTS

Gain Plots

XY Plane



698MHz
Avg (dBi) = 1.29
Peak (dBi) = 1.86
Avg -3 (deg) = 360
824MHz
Avg (dBi) = -0.56
Peak (dBi) = 0.6
Avg -3 (deg) = 235
960MHz
Avg (dBi) = -4.79
Peak (dBi) = -2
Avg -3 (deg) = 205

— 698MHz — 824MHz — 960MHz

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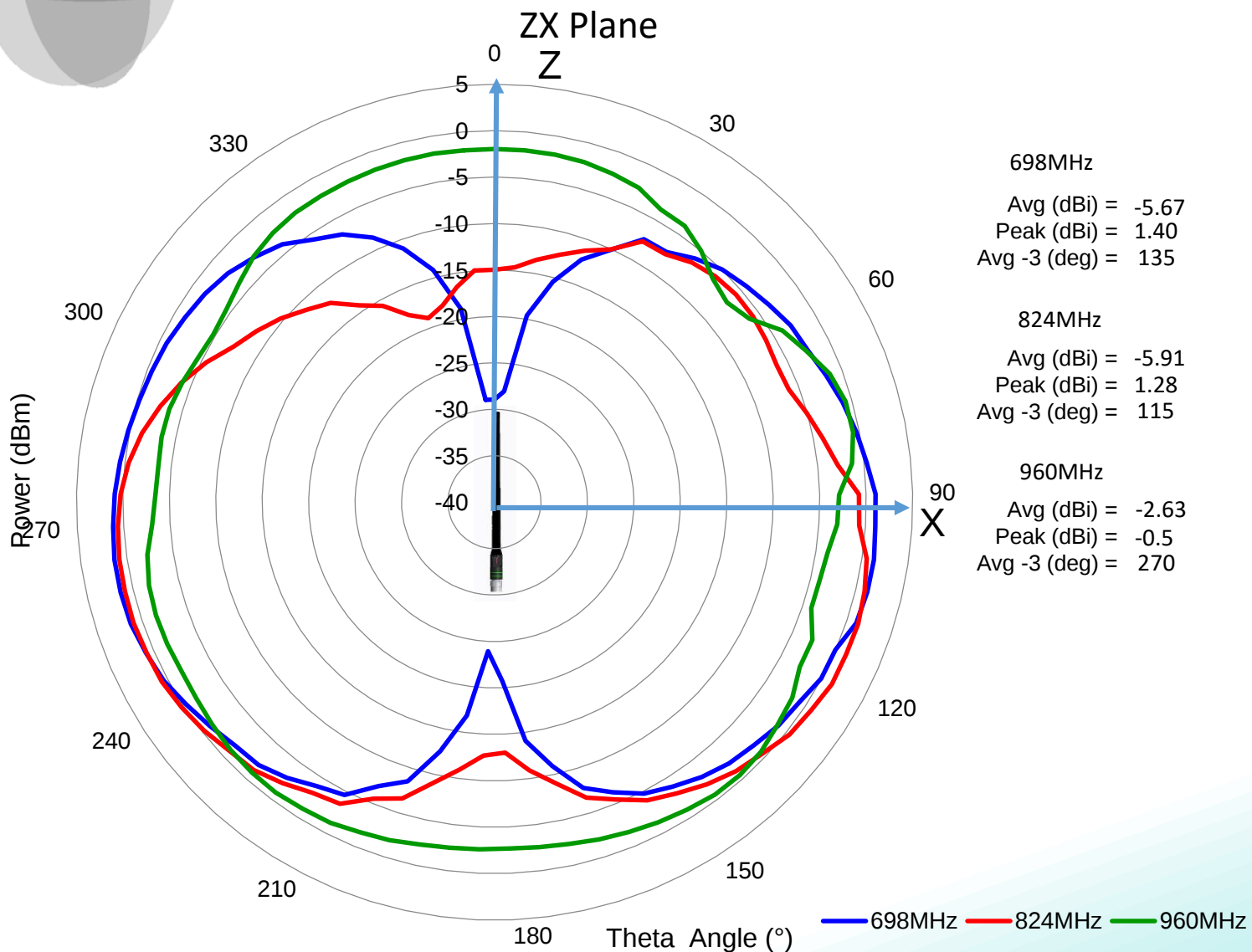
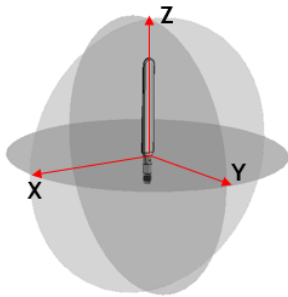
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Gain Plots



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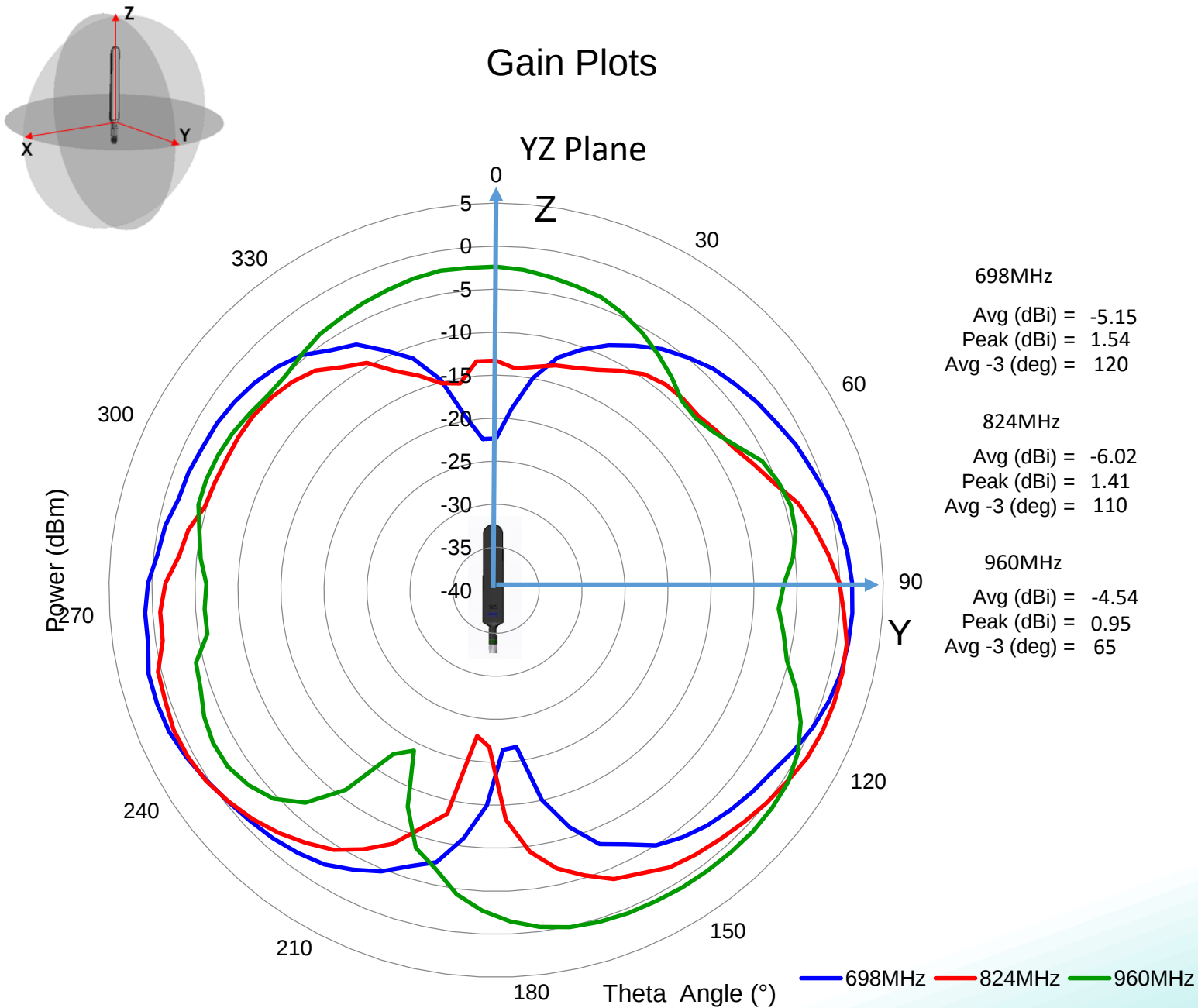
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CHARTS

Gain Plots

YZ Plane



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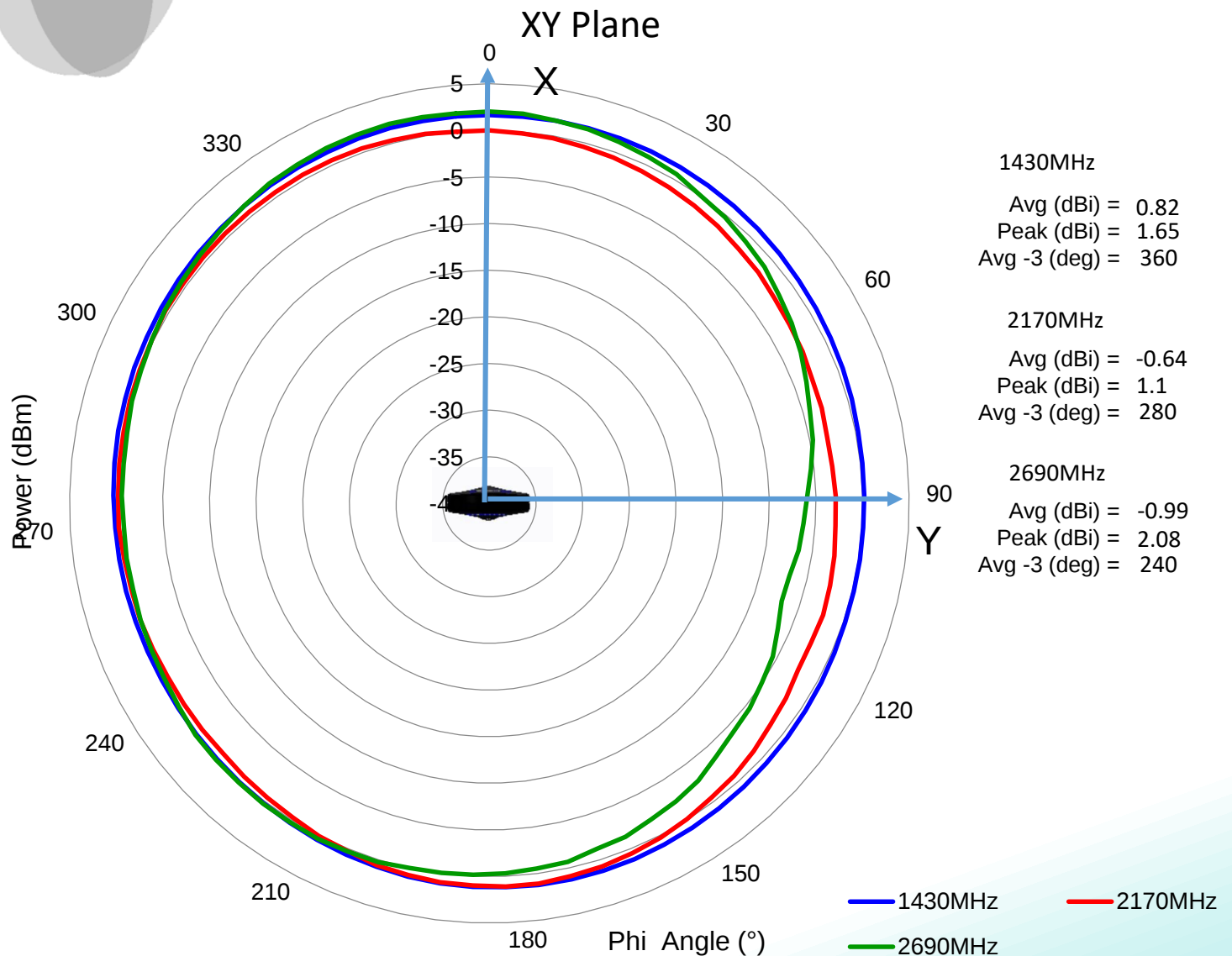
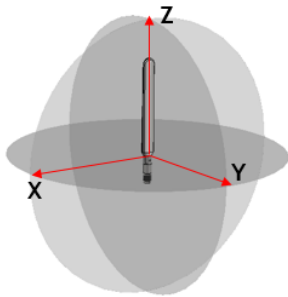
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CHARTS

Gain Plots



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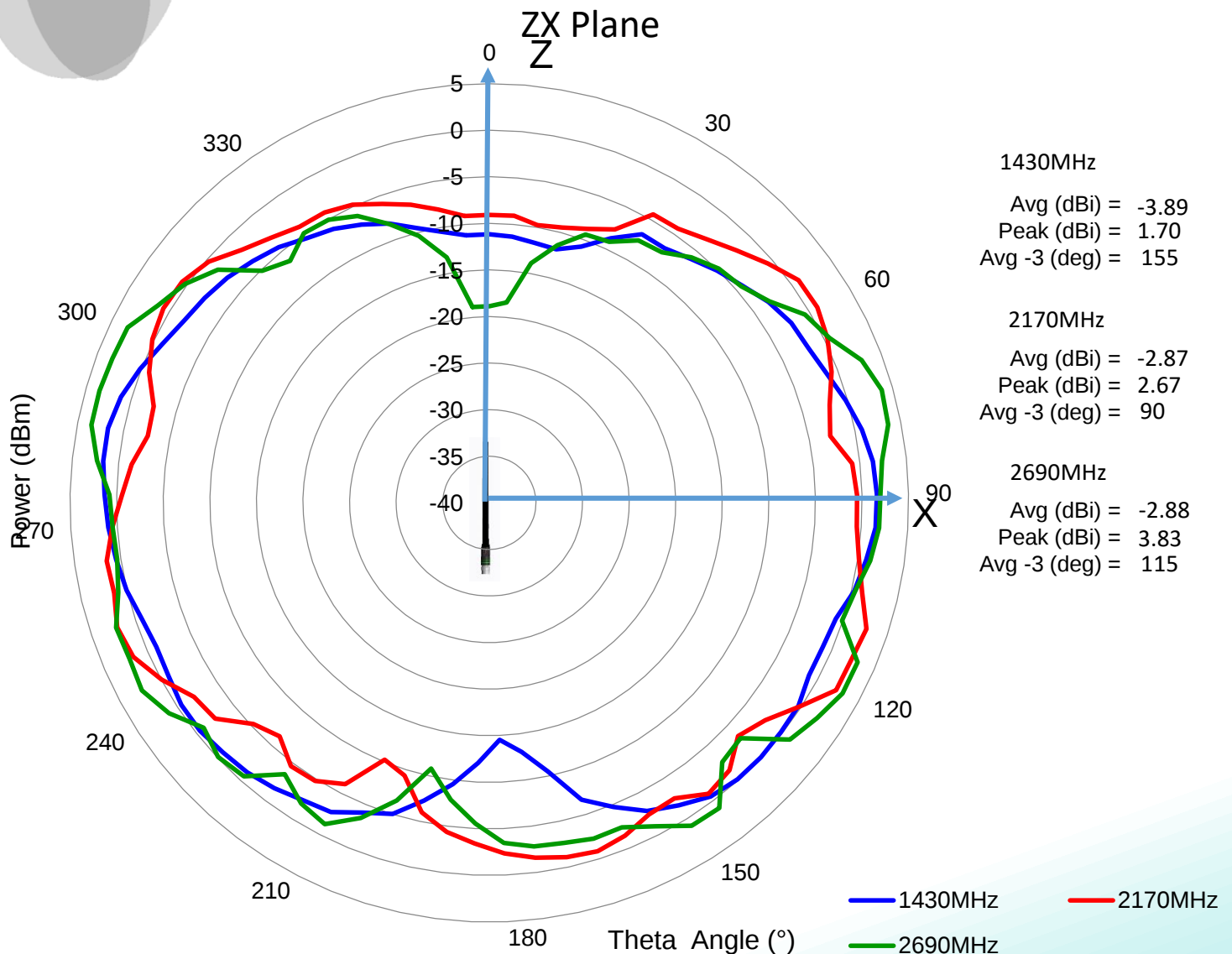
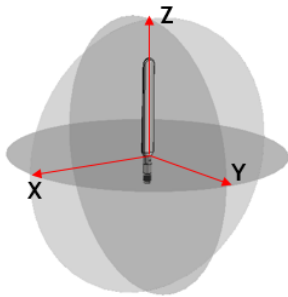
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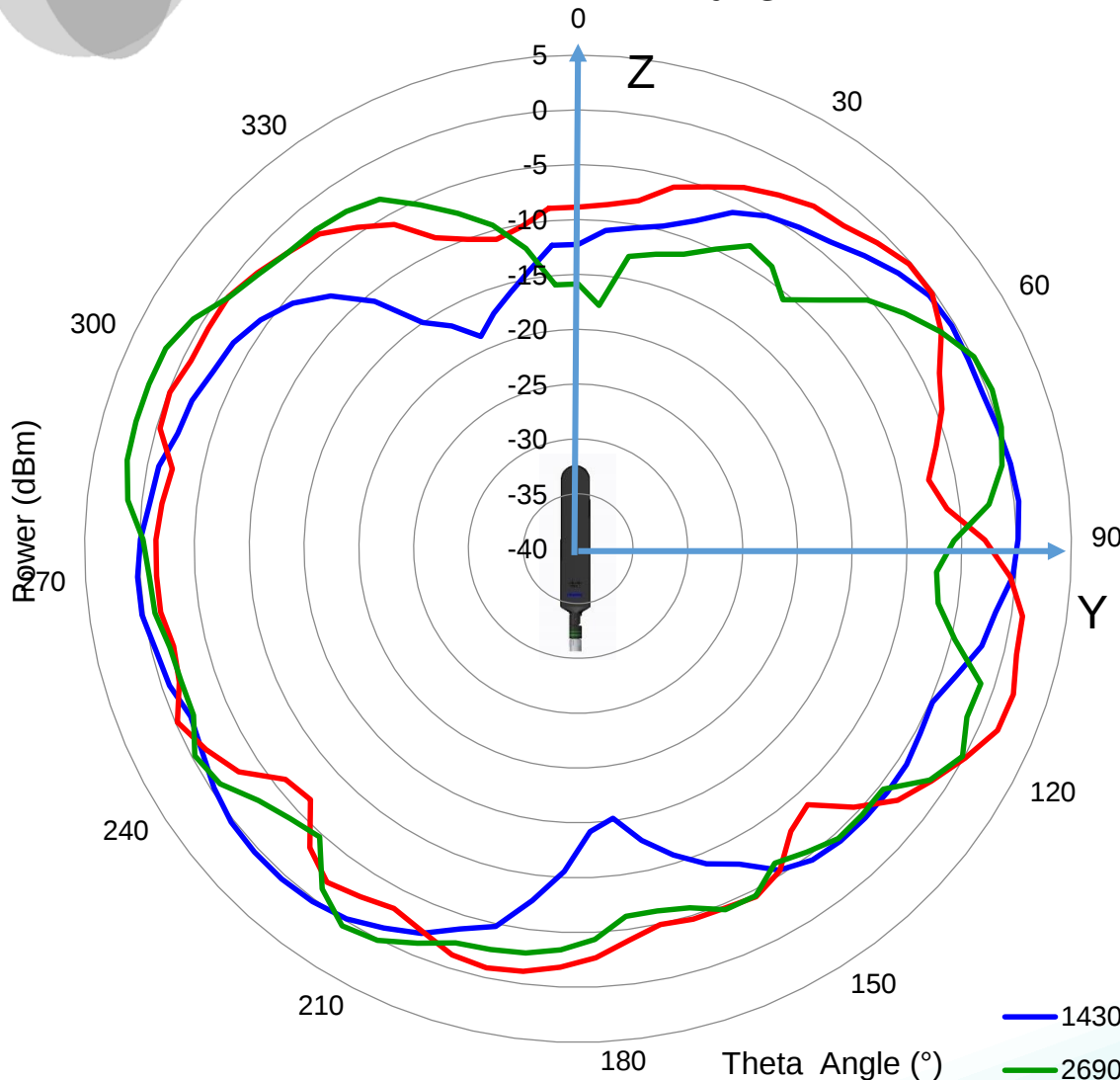
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CHARTS

Gain Plots

YZ Plane



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

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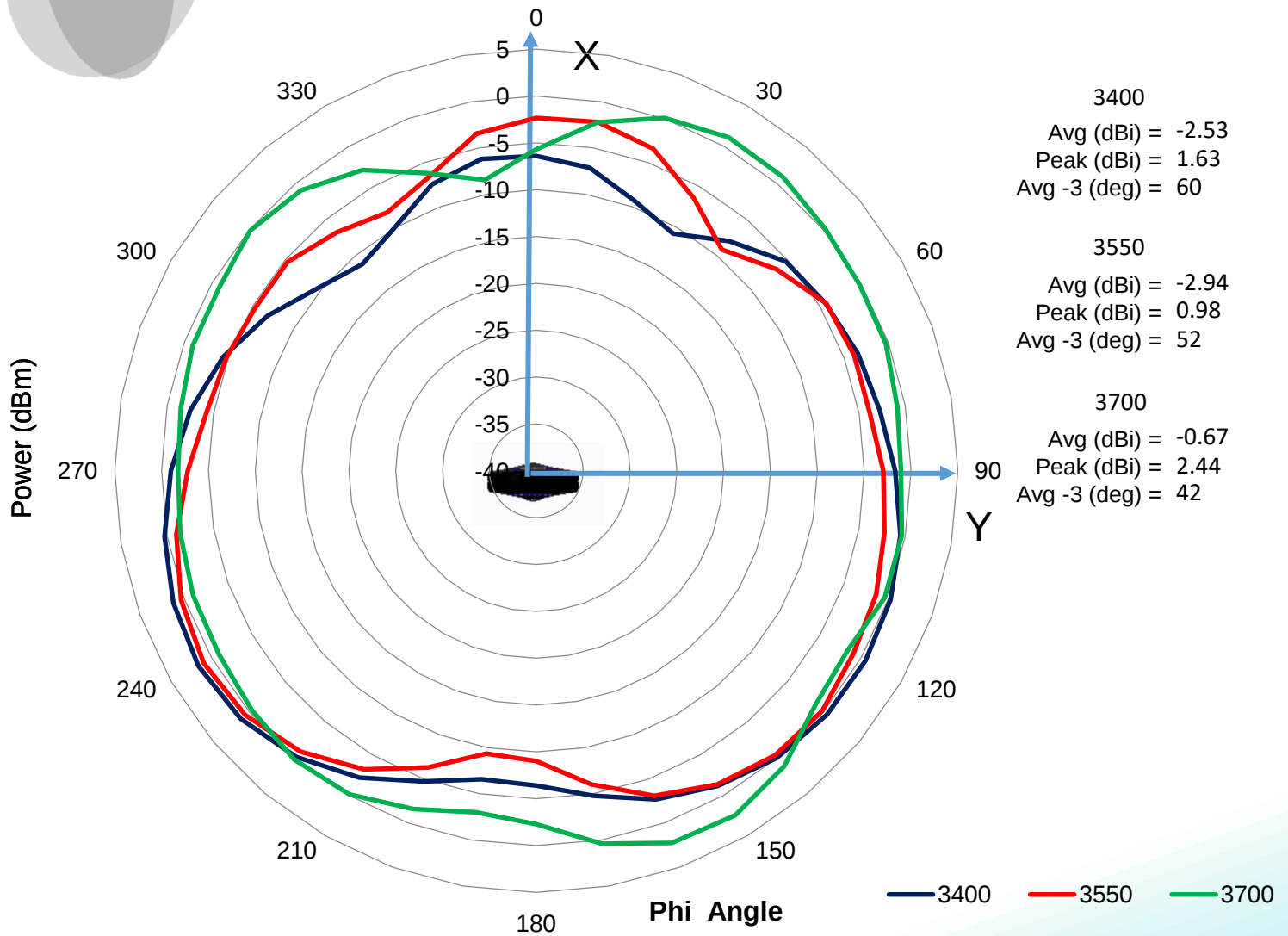
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CHARTS

Gain Plots

XY plane



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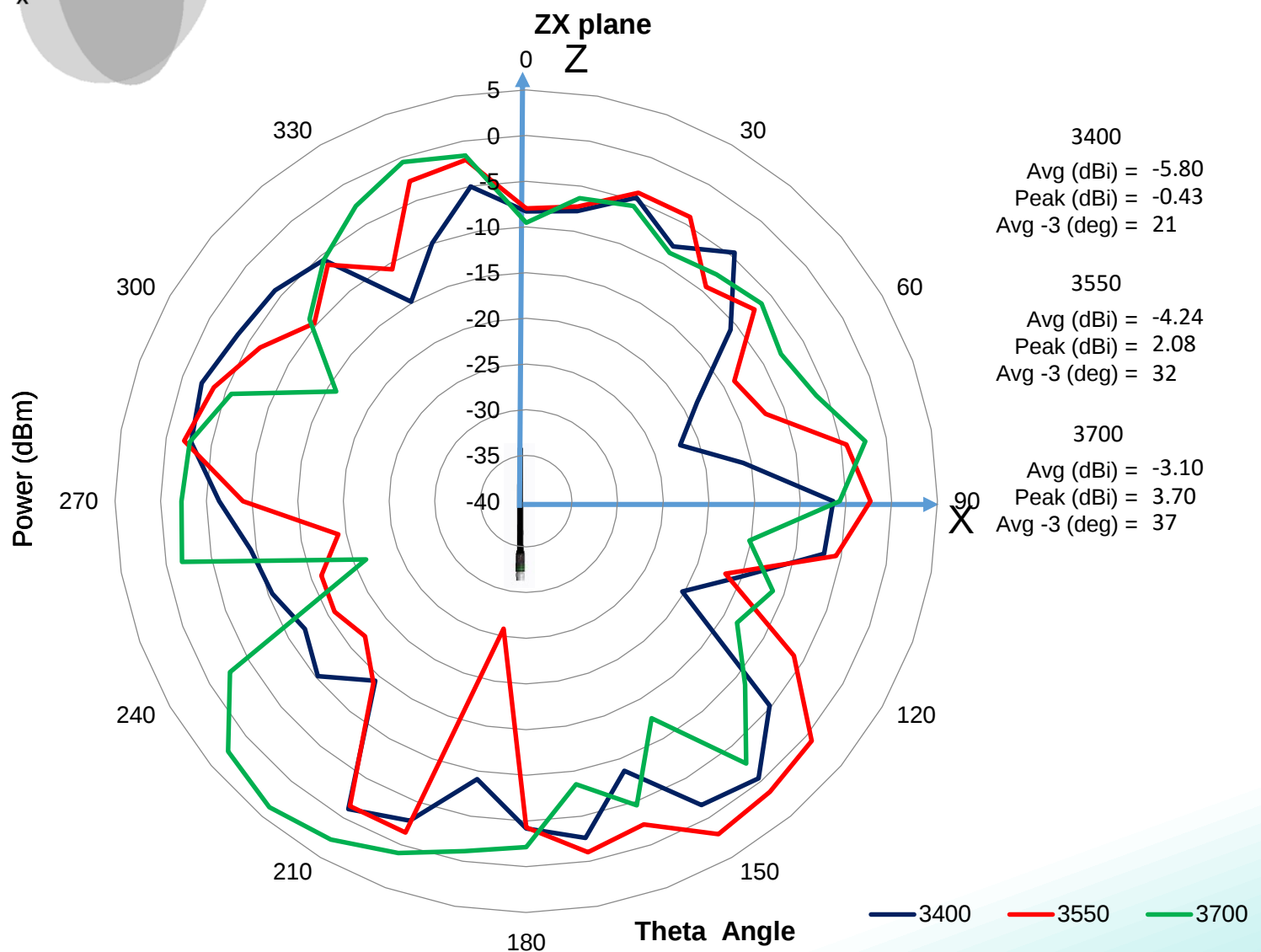
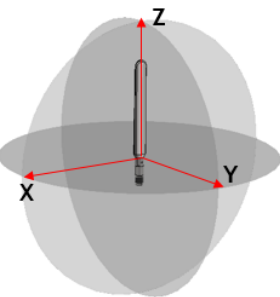
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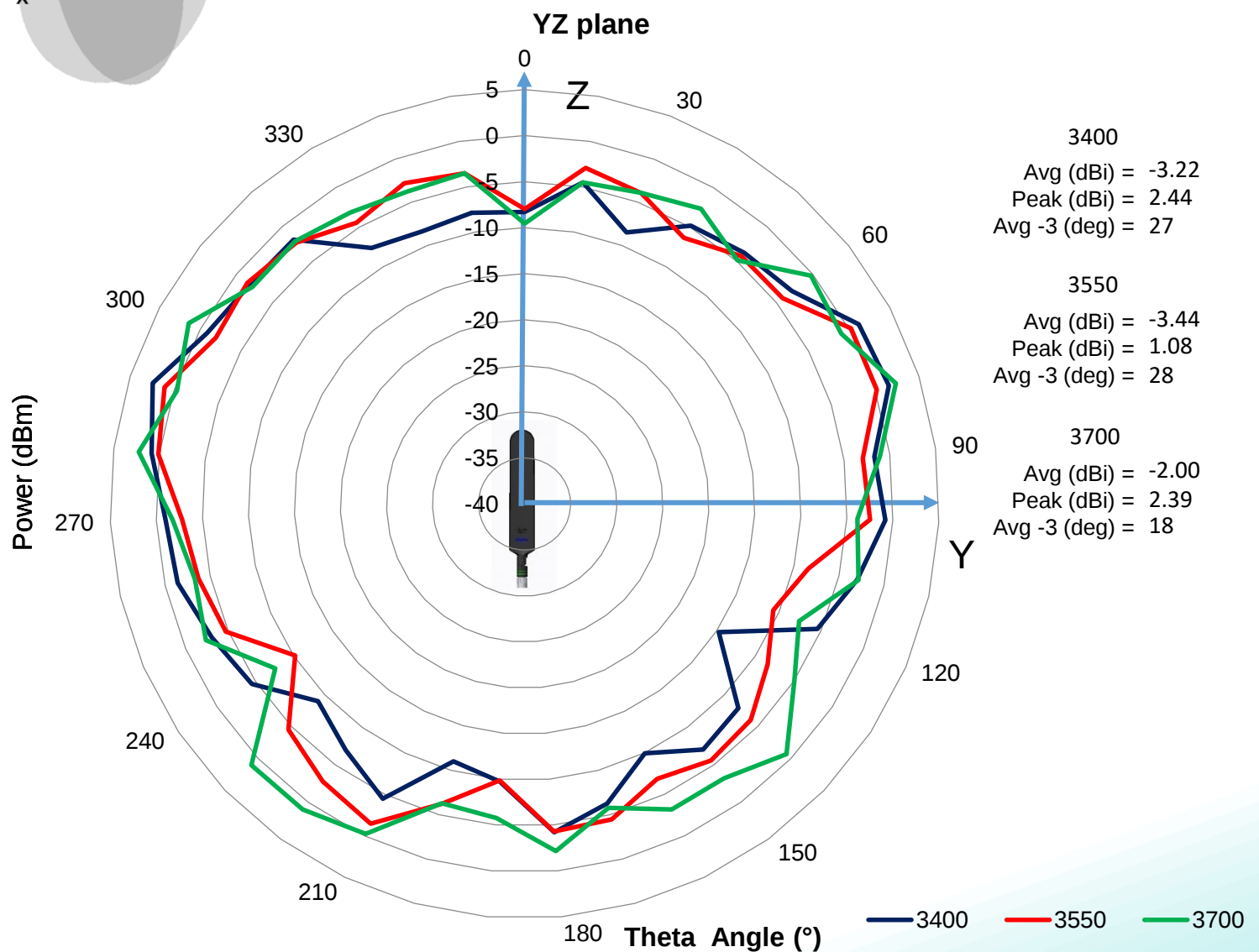
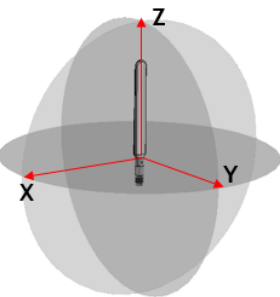
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PACKAGING

1PCS/PE bag

100PCS/Carton box