






## 4x4 MIMO WiFi 6E Antenna FPCB Antenna

W6108B0100 – 2.4 to 2.48 GHz/5.15 to 7.125GHz



### Features & Applications:

-  FPCB with adhesive
-  Size 72.8x7.6mm
-  1.13mm cable with U.FL Compatible
-  RoHS Compliant
-  WiFi 6E, WiFi 7

### ELECTRICAL SPECIFICATIONS @ 25°C

#### General Specifications

Antenna type	Nominal Impedance	Polarization	Radiation pattern		Power withstanding
Dipole	50Ω	Linear	Omni		1W

Frequency (MHz)	2400-2480	5150-7150
Return Loss(dB)	<7	<7
Peak Gain (dBi)	3.7	7.4
Efficiency (%)	52.6	85.3

### MECHANICAL SPECIFICATIONS

#### W6108B0100

Dimension (Length x Width)	Material	Color	Cable type	Connector Type	Cable length
72.8mm x 7.6mm	FPCB	Black	1.13 coaxial cable	U.FL Compatible	100mm
Thickness	Weight				
2.3mm	1.72g				

### ENVIRONMENTAL SPECIFICATIONS

#### W6108B0100

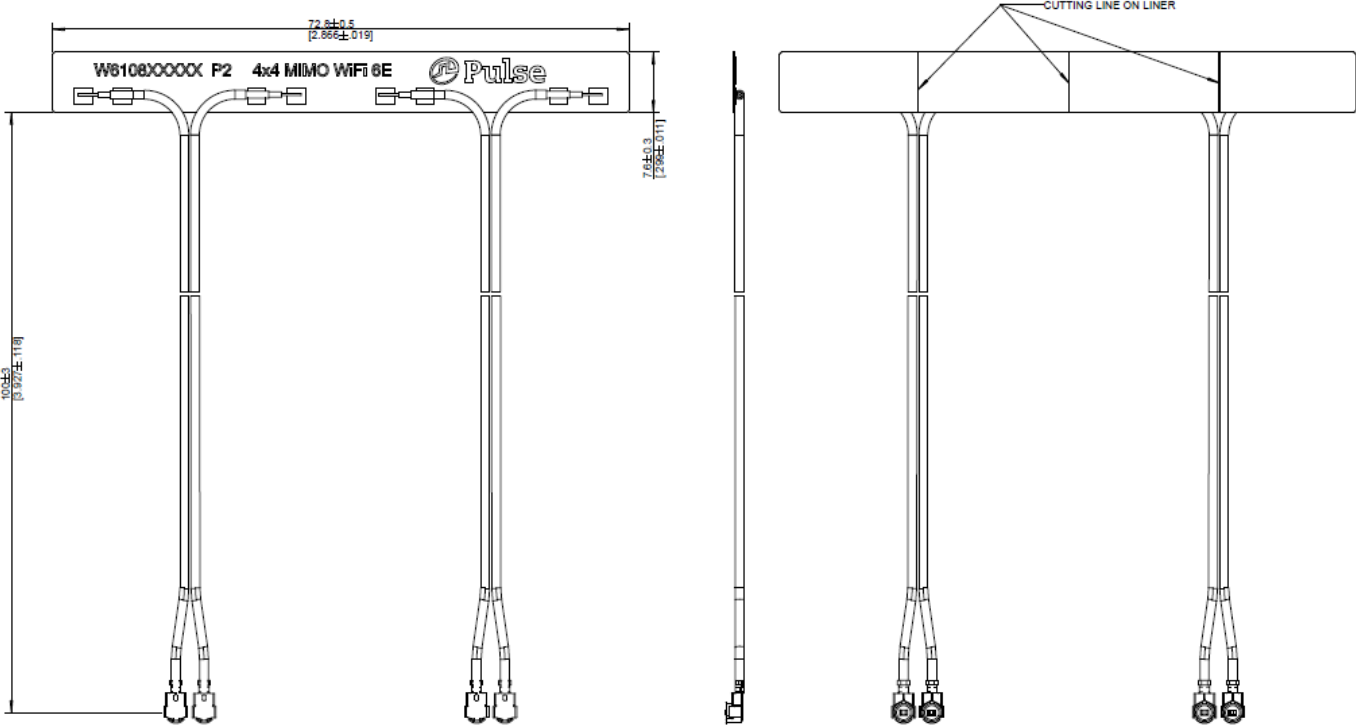
Storage Temperature	Operating Temperature	Ingress Protection	RoHS Compliant
-40/+85° C	-40/+85° C	N/A	Yes

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Mechanical Drawing

W6108B0100



Dimensions: MM/inches Unless otherwise specified, all tolerances are  $\pm 0.10$  (0.25mm)

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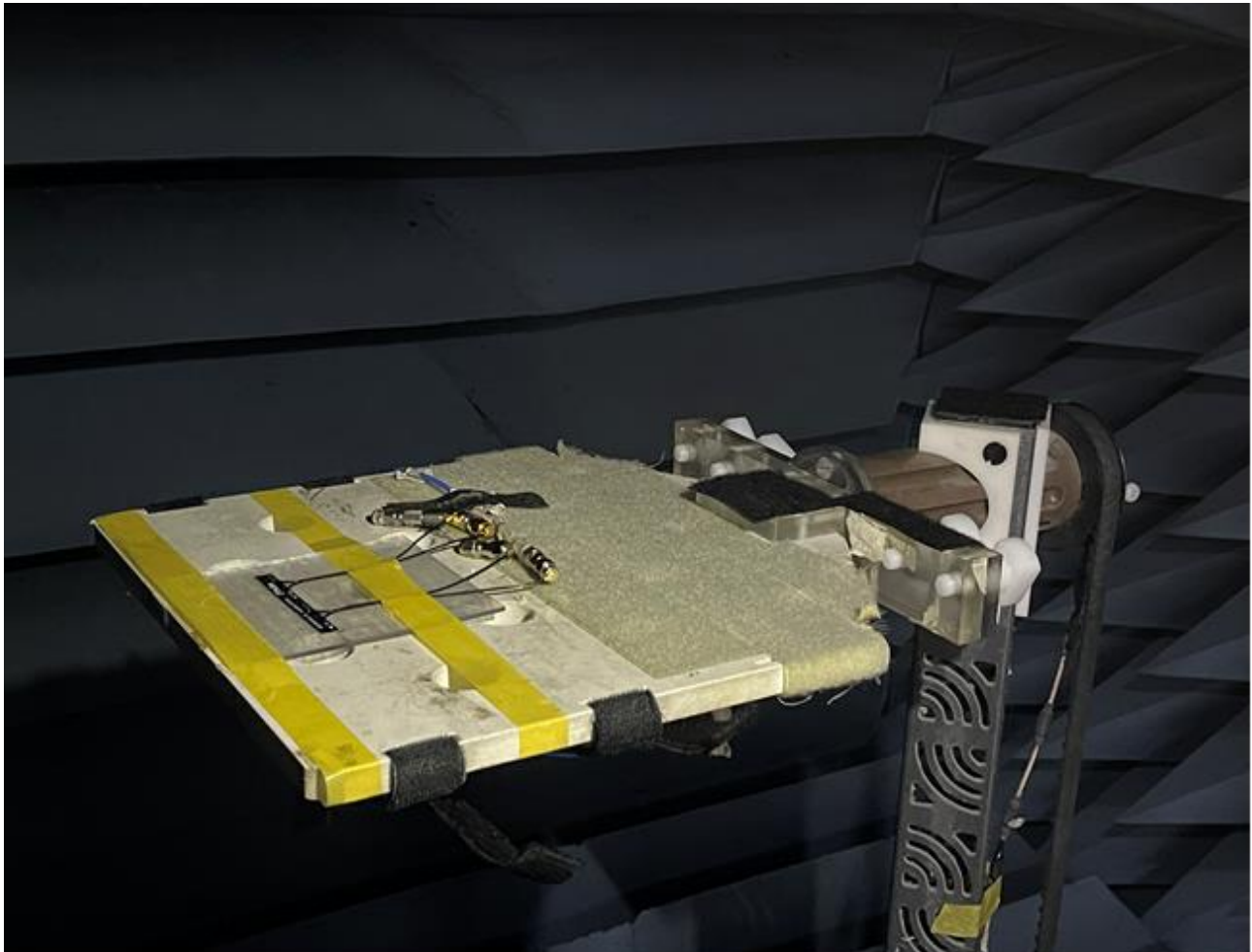
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## Test Setup

### General / Chamber Setup

- Measured at Pulse YP (ETS Lindgren Chamber)
- Test data measured with 100mm cable W6108B0100
- Antenna mounted on 2mm thick PC plate

*Measurement setup*

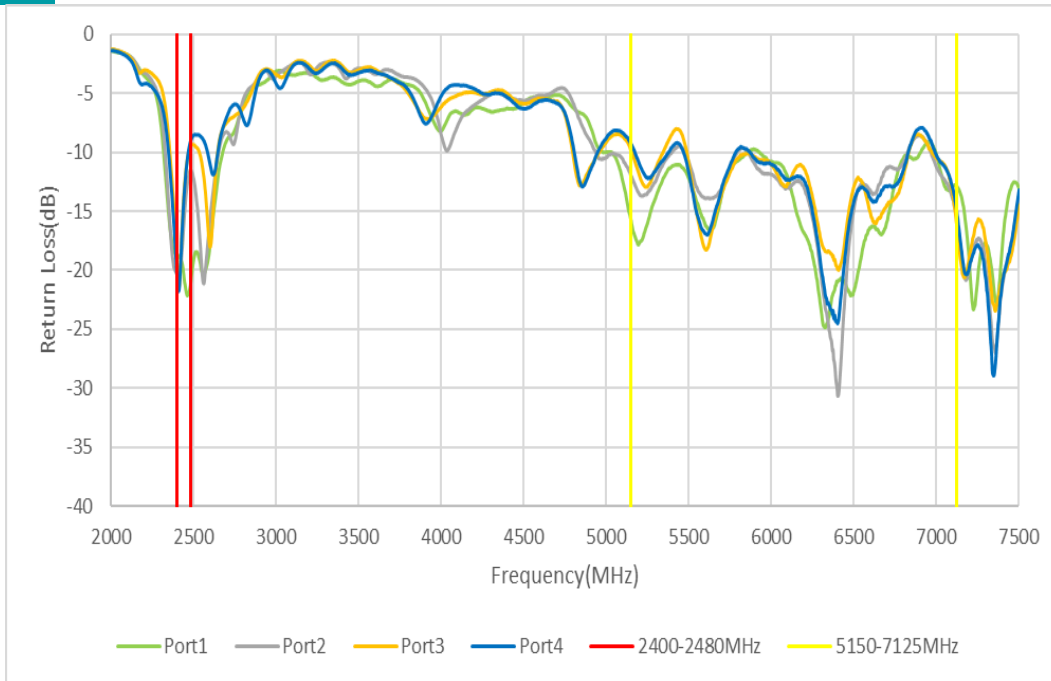


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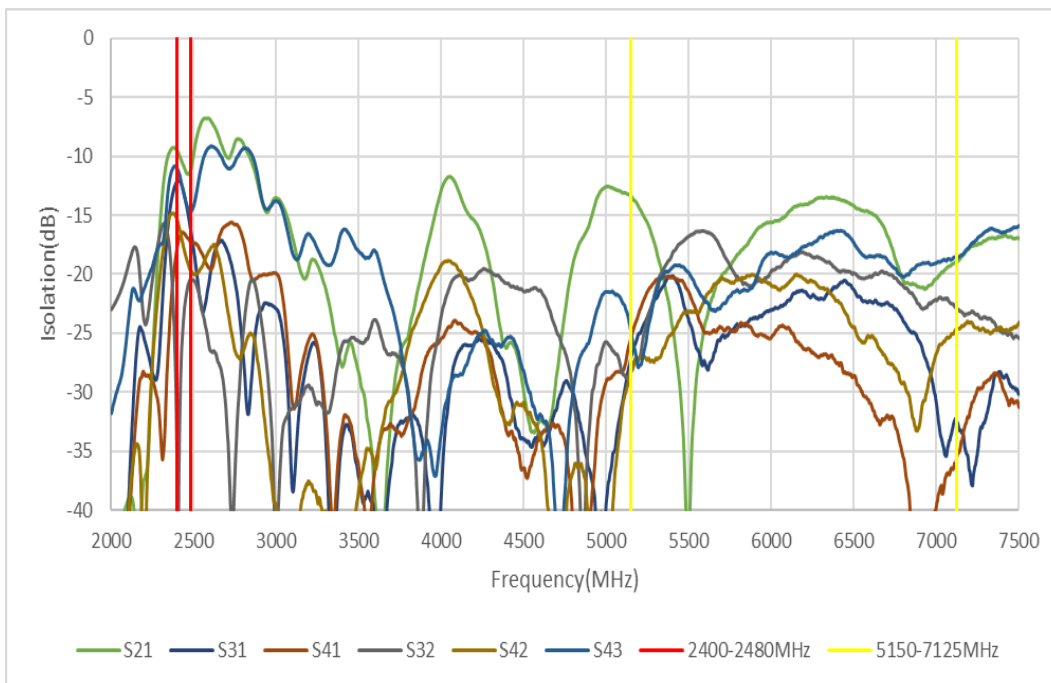
## Charts – Return Loss

Test data



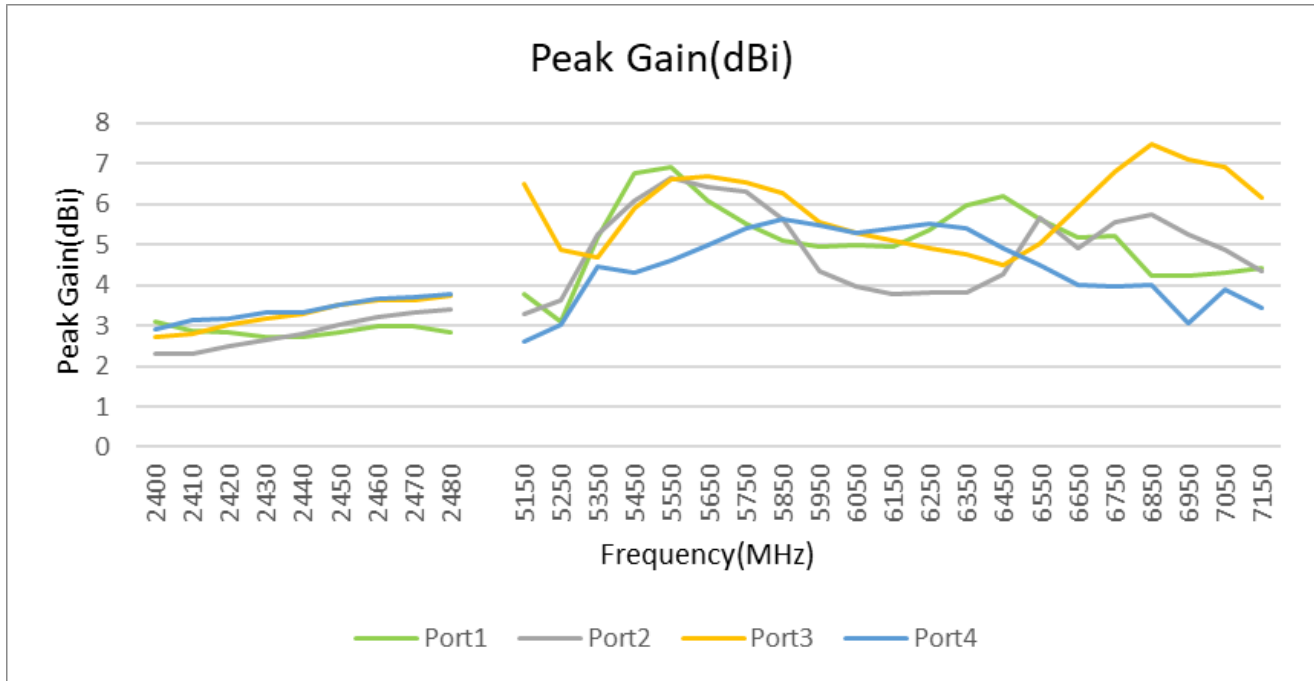
## Charts - Isolation

Test data



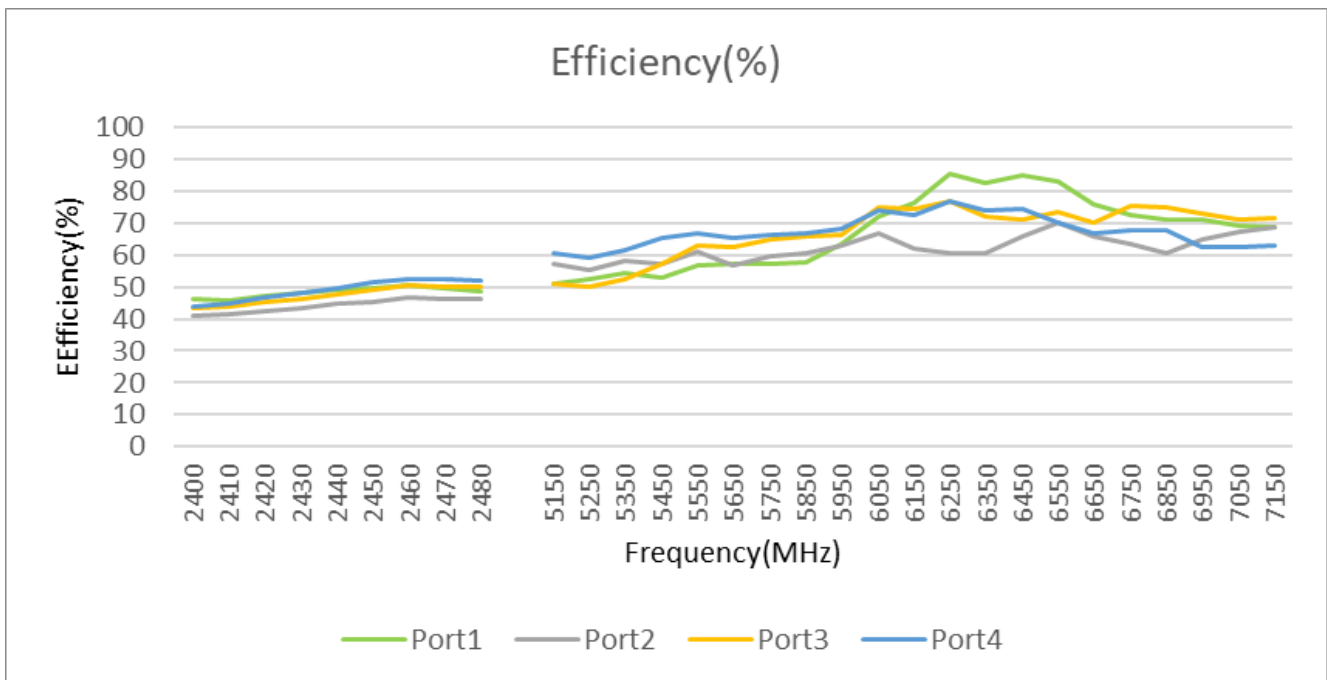
Charts – Peak Gain(dBi)

Test data



Charts – Efficiency(%)

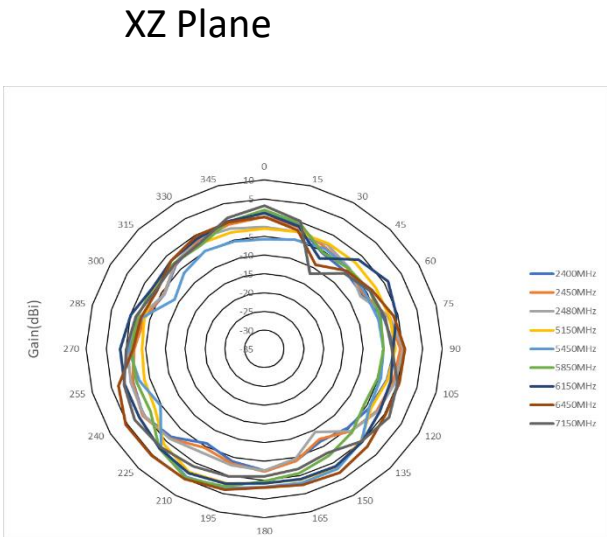
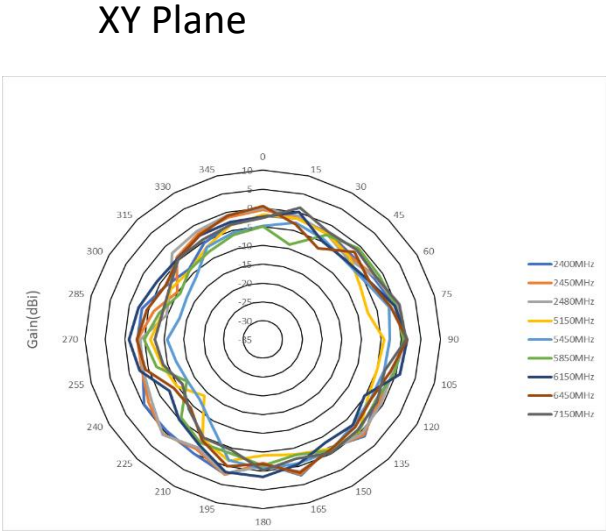
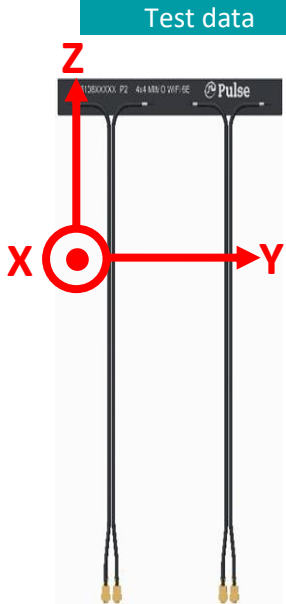
Test data



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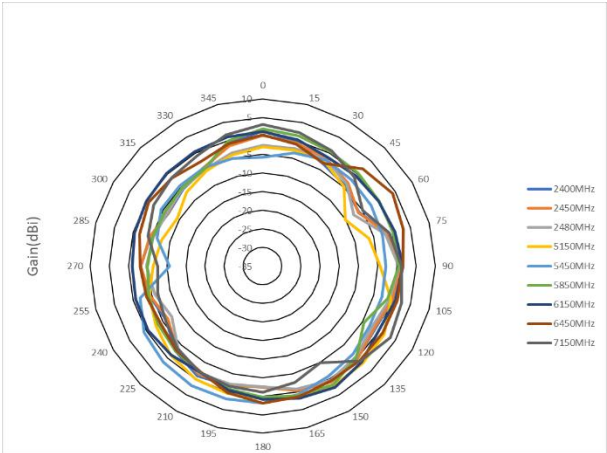
Port1 Radiation Pattern– XY and XZ Gain Plots



Port1 Radiation Pattern – YZ Gain Plots

Test data

YZ Plane

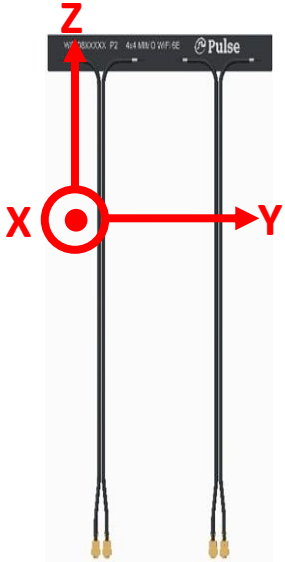


# 4x4 MIMO WiFi 6E Antenna FPCB Antenna

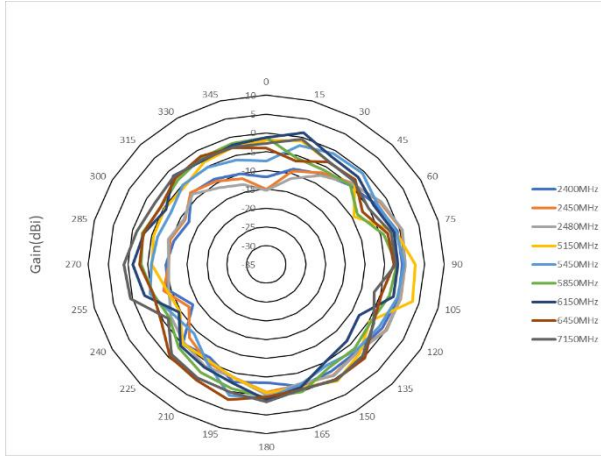
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## Port2 Radiation Pattern – XY and XZ Gain Plots

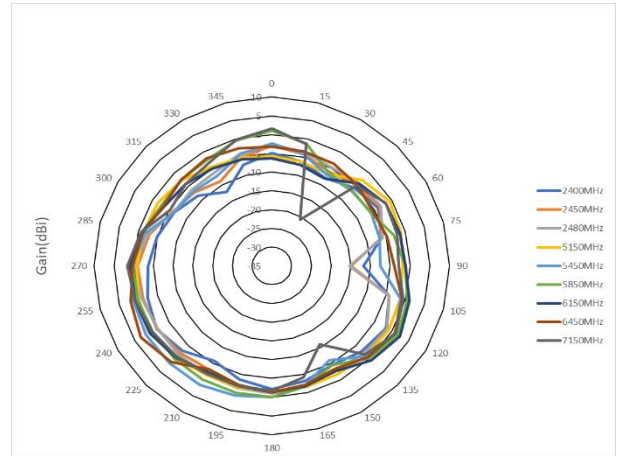
Test data



### XY Plane



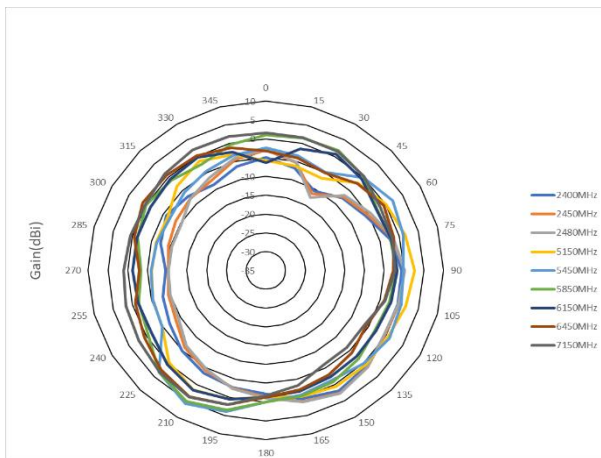
### XZ Plane



## Port2 Radiation Pattern – YZ Gain Plots

Test data

### YZ Plane



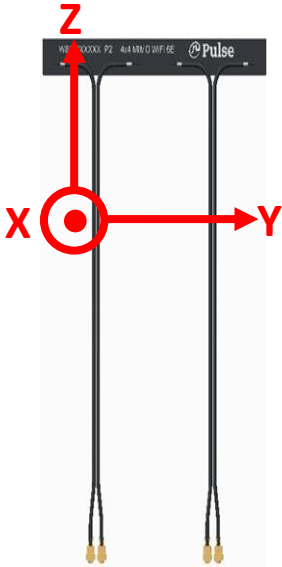


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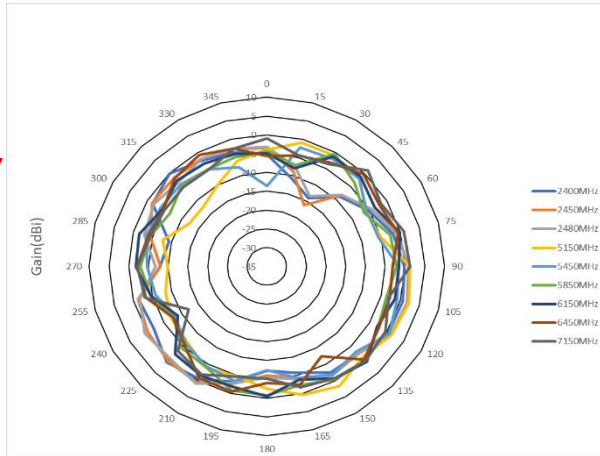
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## Port3 Radiation Pattern – XY and XZ Gain Plots

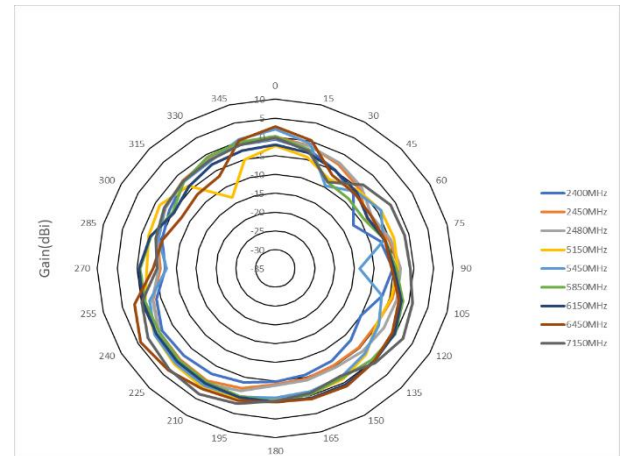
Test data



### XY Plane



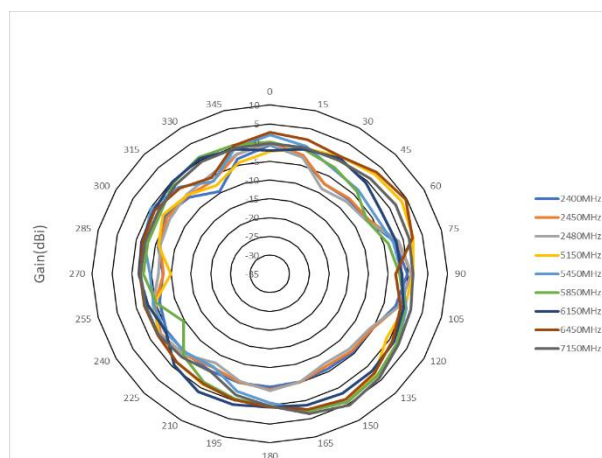
### XZ Plane



## Port3 Radiation Pattern – YZ Gain Plots

Test data

### YZ Plane



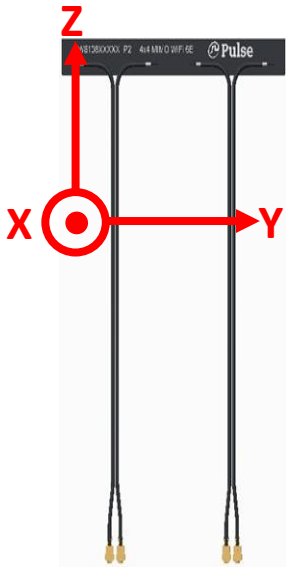


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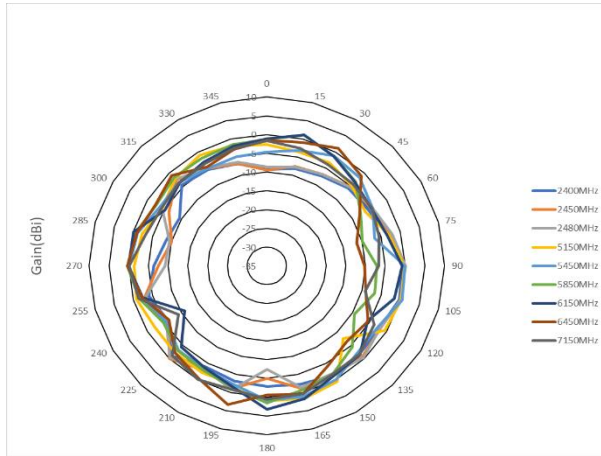
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## Port4 Radiation Pattern – XY and XZ Gain Plots

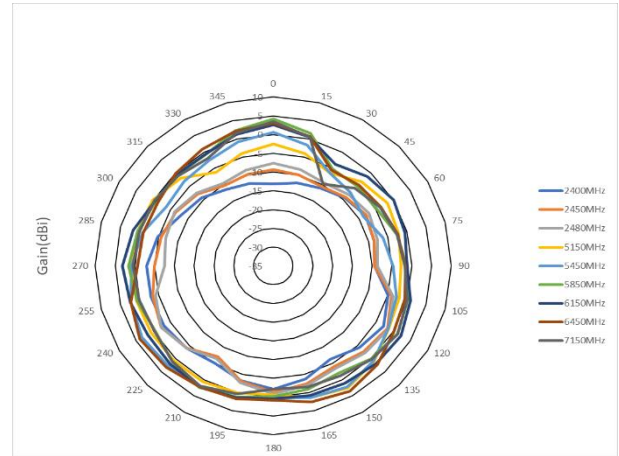
Test data



### XY Plane



### XZ Plane



## Port4 Radiation Pattern – YZ Gain Plots

Test data

### YZ Plane

