

# AUT Report

Product Model: EAP115-Bridge KIT

Manufacturer: TP-Link Systems Inc.

Test Date: 2025.01.03

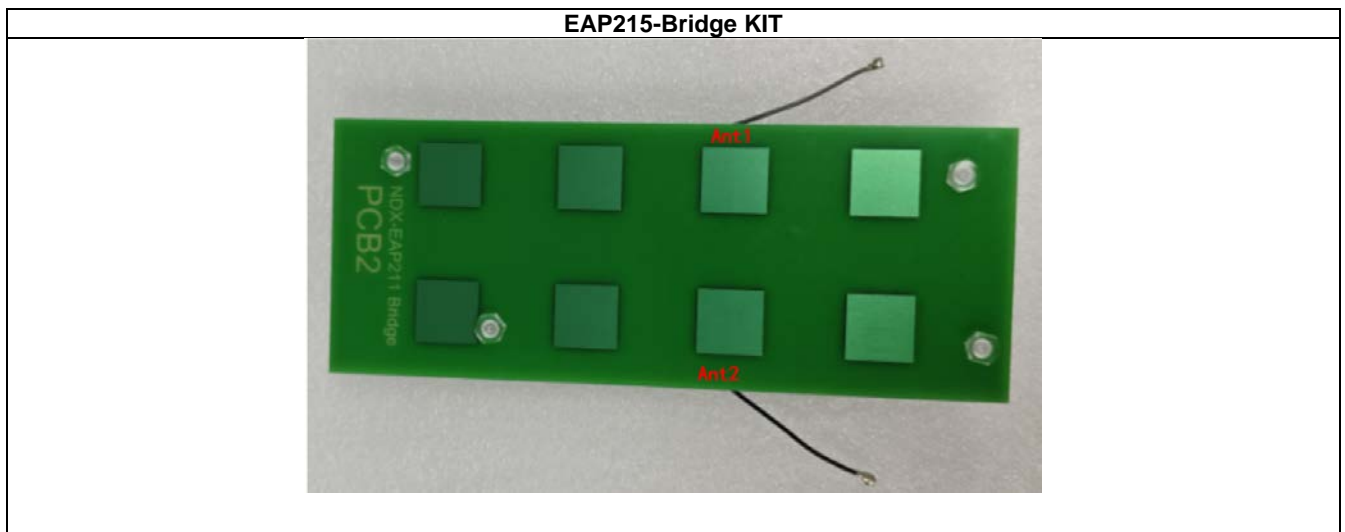
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## 1. Antenna Distribution



## 2. Electrical Characteristics

Ant1	
Frequency	5150~5850MHz
Impedance	50Ohm
Antenna Type	Microstrip
Antenna Gain	11.00dBi@5150~5250MHz 11.00dBi@5250~5350MHz 11.00dBi@5470~5725MHz 11.00dBi@5725~5895MHz
Radiation pattern	Directional
P/N	3101507411

Ant2	
Frequency	5150~5850MHz
Impedance	50Ohm
Antenna Type	Microstrip
Antenna Gain	11.00dBi@5150~5250MHz 11.00dBi@5250~5350MHz 11.00dBi@5470~5725MHz 11.00dBi@5725~5895MHz
Radiation pattern	Directional
P/N	3101507411



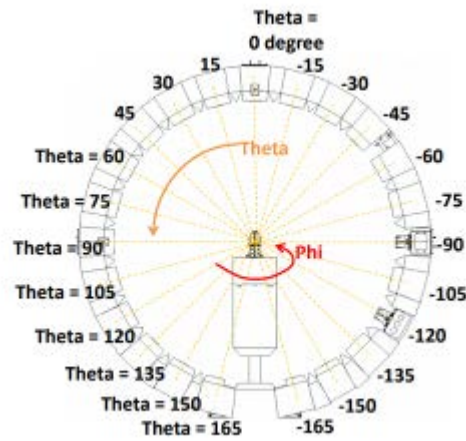


Figure 3-2

Before the measurement, calibrated the vector network analyzer, and then connected the input end of each antenna to the output end of the vector network analyzer, and evenly the antennas to be measured.

Test Equipment listed below:

Equipments	Model	Manufacturer	S/N	Cali. Interval	Cali. Due Date
Chamber	Rayzone2800	GTS(General Test System)	MY5347043 5	12months	2026/01/15
Vector Network Analyzer	E5071C	Keysight	MY46315238	24months	2026/03/13
GTS MaxSign100 Software	V2.1	GTS(General Test System)	/	/	/

## 3.2 Test Setup

The test setup was shown in Figure 3-3, 3-4:



Figure 3-3

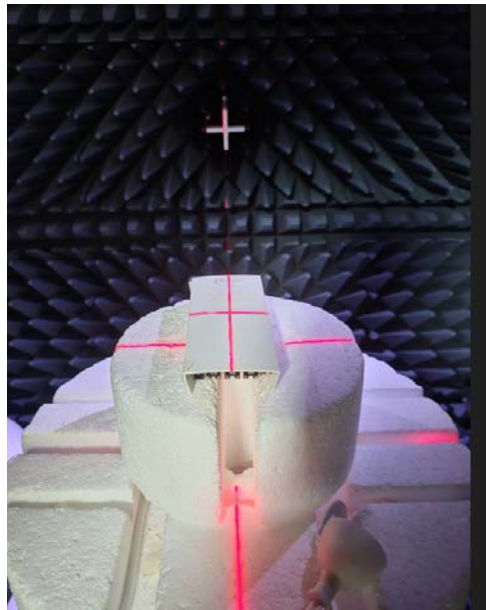
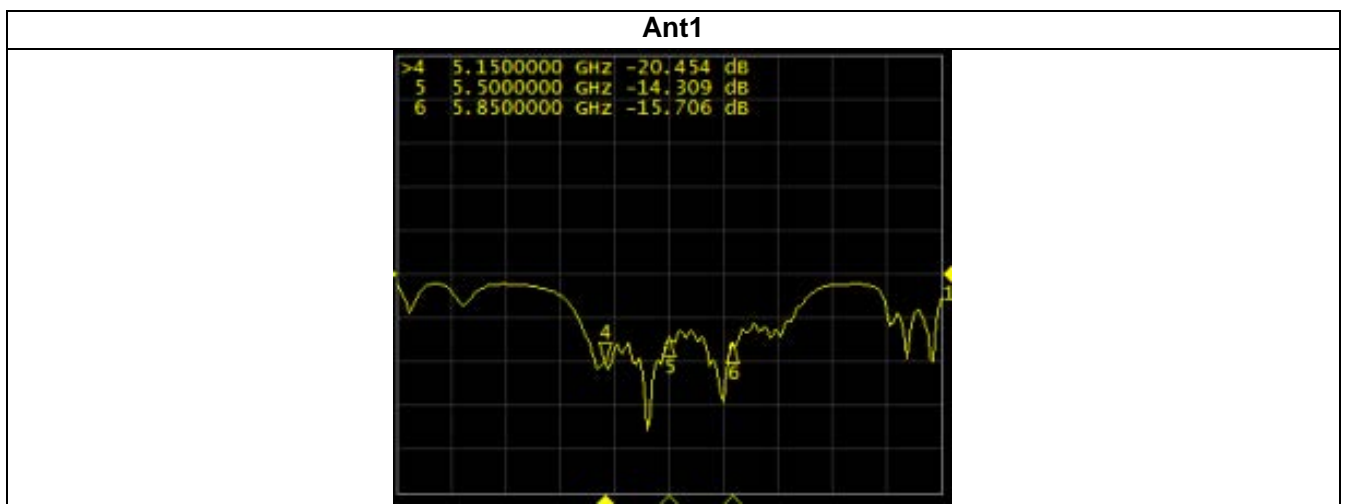


Figure 3-4

## 4. S Parameter Test Data



## 4.1 Antenna Gain

### 4.1.1 Peak Gain

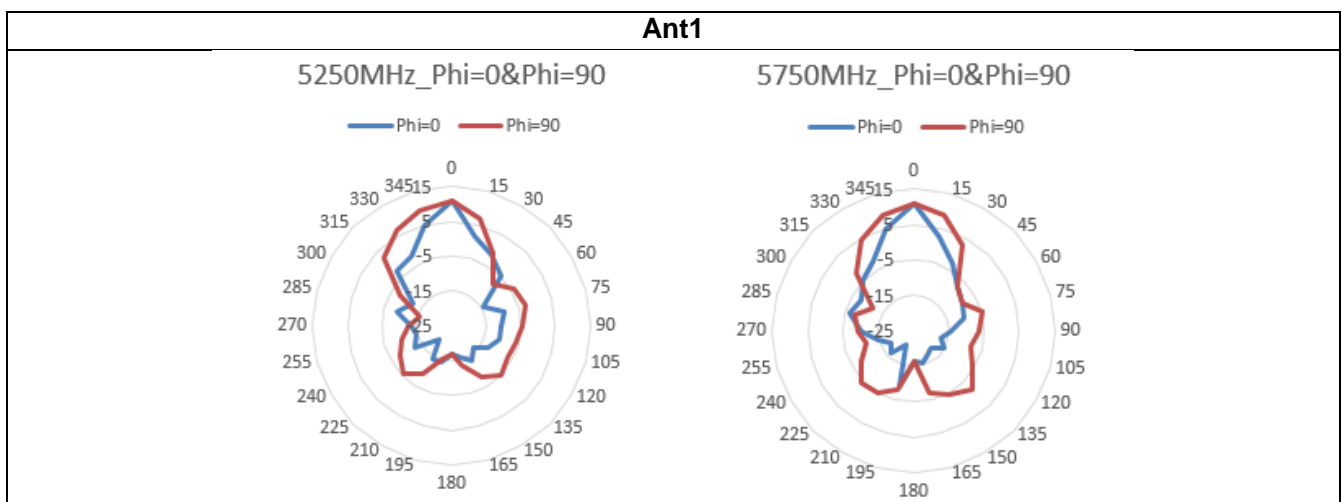
Frequency	5.2GHz 5150~5250MHz	5.3GHz 5250~5350MHz	5.6GHz 5470~5725MHz	5.8GHz 5725~5850MHz
Ant1 MaxGain(dBi)	11.00	11.00	11.00	11.00
Ant2 MaxGain(dBi)	11.00	11.00	11.00	11.00
Ant1 Polarization/ $\Phi$ (°) / $\theta$ (°)	Phi/0/0	Phi/0/0	Phi/0/0	Phi/0/0
Ant2 Polarization/ $\Phi$ (°) / $\theta$ (°)	Theta/0/0	Theta/0/0	Theta/0/0	Theta/0/0
Max Gain(dBi)	11.00	11.00	11.00	11.00

## 4.2 Horizontal plane Gain

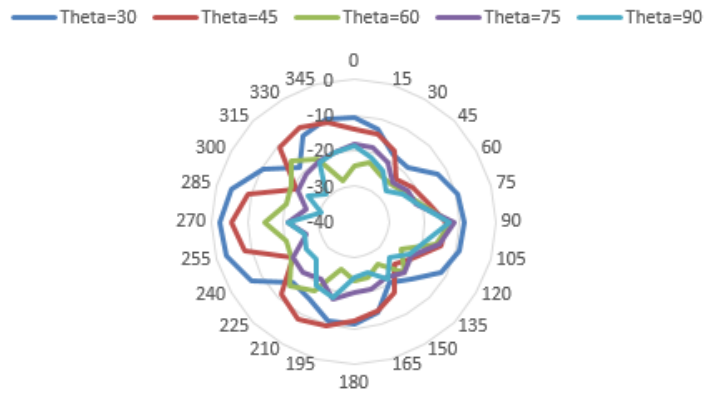
### 4.2.1 5150~5250MHz

$\theta$	>30°
Ant3 MaxGain(dBi)	-2
Ant4 MaxGain(dBi)	-2
Max Gain(dBi)	-2

## 4.3 Antenna Radiation Pattern



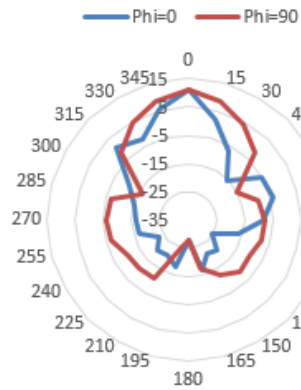
### 5200MHz



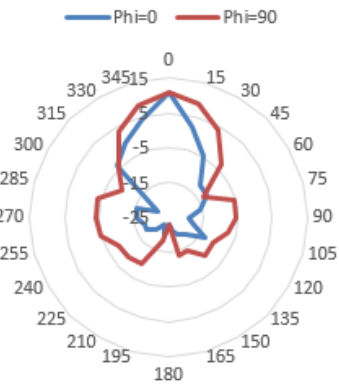
5.2GHz PeakGain at elevation angle above 30° =-2dBi

### Ant2

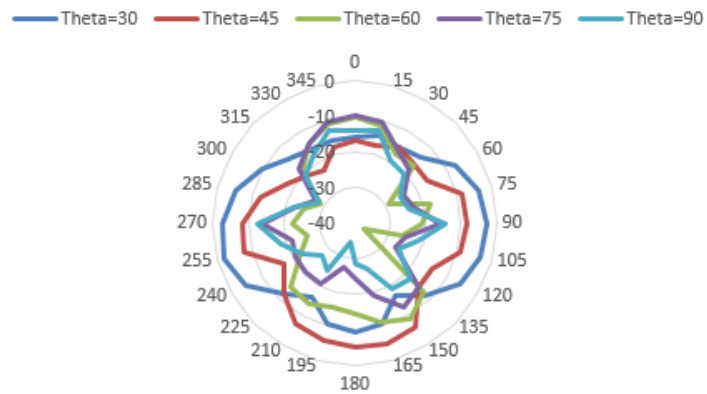
#### 5250MHz\_Phi=0&Phi=90



#### 5750MHz\_Phi=0&Phi=90



### 5200MHz



5.2GHz PeakGain at elevation angle above 30° =-2dBi