

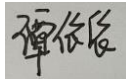
AUT Report

Product Model: Archer GE650

Manufacturer: TP-LINK CORPORATION PTE. LTD.

Test Date: 2023.11.30

Tested By: Tan Yiyi



TP-LINK CORPORATION PTE. LTD.

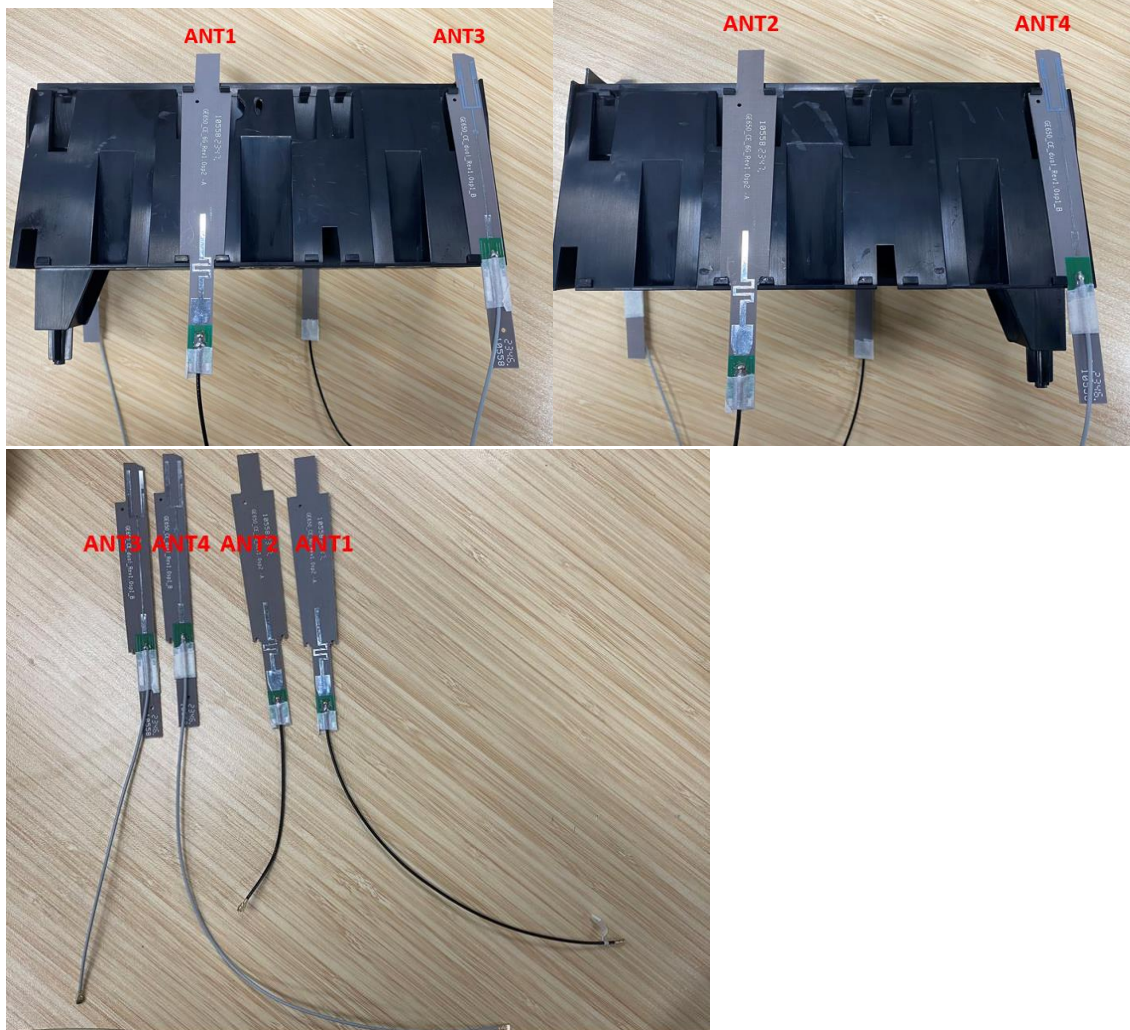
7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987,

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1. Antenna Distribution

Archer GE650



2. Electrical Characteristics

Ant1

Frequency	5925~7125MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	3.00dBi@5925~7125MHz
Radiation pattern	Omni-Directional
P/N	3101506784

Ant2

Frequency	5925~7125MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	3.00dBi@5925~7125MHz
Radiation pattern	Omni-Directional
P/N	3101506783

Ant3

Frequency	2400~2500MHz & 5150~5850MHz
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Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	2.00dBi@2400~2500MHz 3.00dBi@5150~5850MHz
Radiation pattern	Omni-Directional
P/N	3101506785

Ant4	
Frequency	2400~2500MHz &5150~5850MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	2.00dBi@2400~2500MHz 3.00dBi@5150~5850MHz
Radiation pattern	Omni-Directional
P/N	3101506786

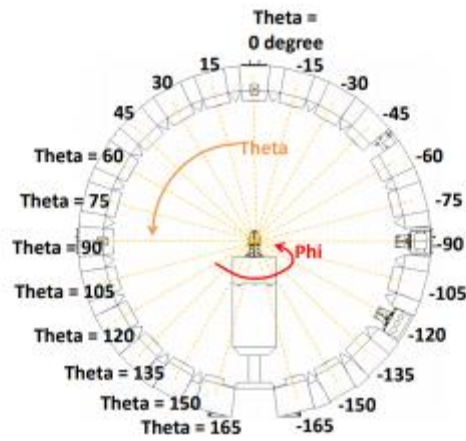


Figure 3-2

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	2024/01/15
Vector Network Analyzer	E5071C	Keysight	MY46315238	24months	2024/03/13
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

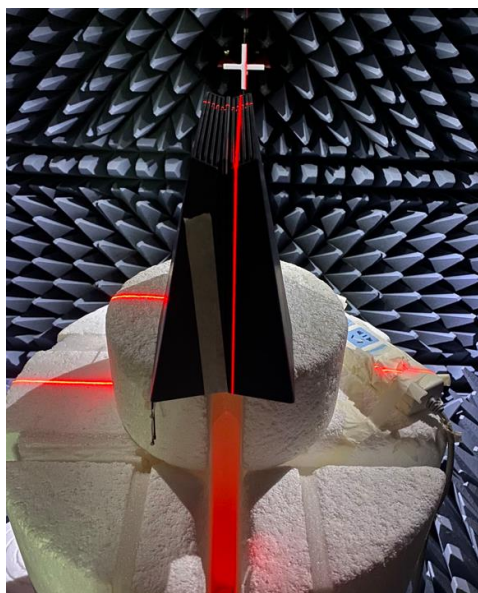
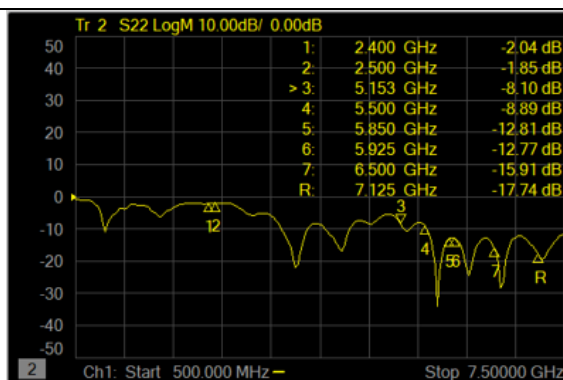


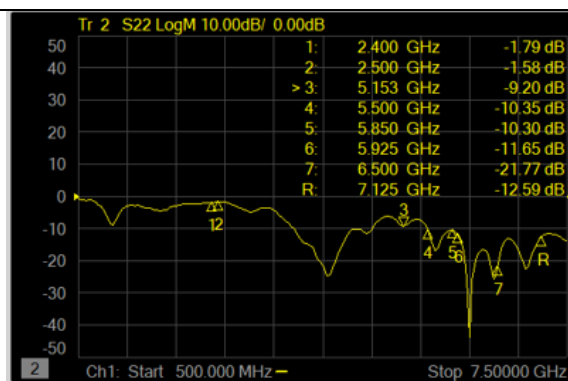
Figure 3-4

3.3 S Parameter Test Data

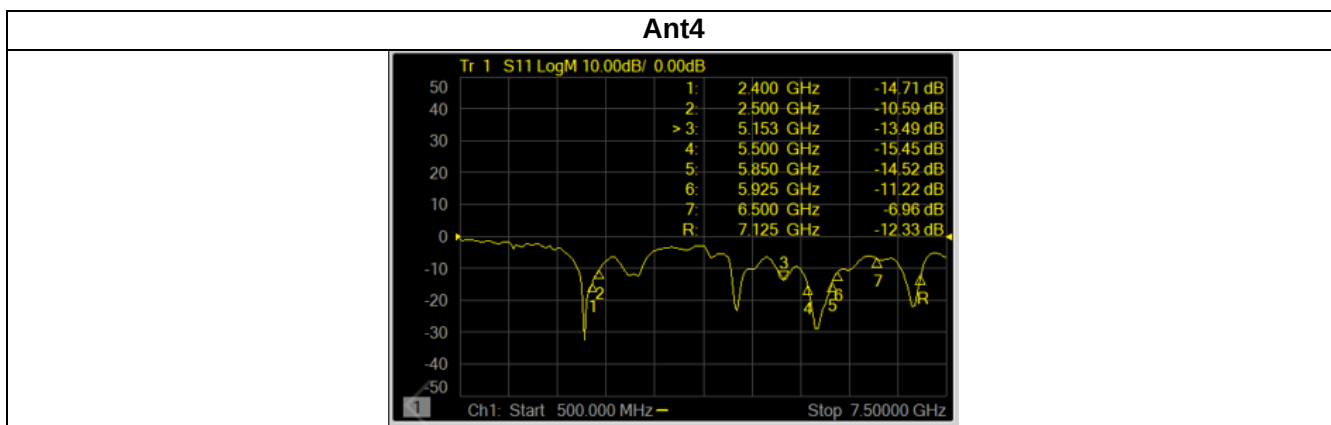
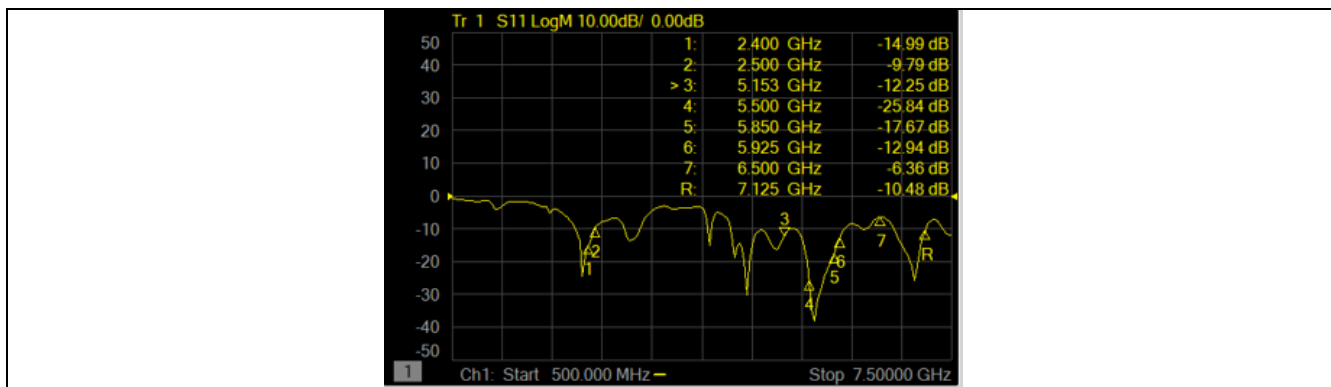
Ant1



Ant2



Ant3



3.4 Antenna Peak Gain

Frequency(GHz)	6.175	6.475	6.725	7.025
Ant1 MaxGain(dBi)	3.00	3.00	3.00	3.00
Ant2 MaxGain(dBi)	3.00	3.00	3.00	3.00
Ant1 Polarization/ Φ (°) / θ (°)	Theta/75/180	Theta/90/75	Theta/75/90	Theta/75/75
Ant2 Polarization/ Φ (°) / θ (°)	Theta /75/105	Theta /75/255	Theta /75/255	Theta /75/255
Max Gain(dBi)	3.00	3.00	3.00	3.00

Frequency(GHz)	2.45	5.25	5.5	5.75
Ant3 MaxGain(dBi)	2.00	3.00	3.00	3.00
Ant4 MaxGain(dBi)	2.00	3.00	3.00	3.00
Ant3 Polarization/ Φ (°) / θ (°)	Theta/75/210	Theta/90/225	Theta/75/195	Theta/75/180
Ant4 Polarization/ Φ (°) / θ (°)	Theta/75/255	Theta /105/255	Theta /90/255	Theta /90/255
Max Gain(dBi)	2.00	3.00	3.00	3.00

3.5 Antenna Radiation Pattern

Ant1

