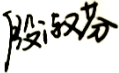


AUT Report

Product Model: Tapo H500

Manufacturer: TP-LINK CORPORATION PTE. LTD.

Test Date: 2024.04.26

Tested By: Yin shufen 

TP-LINK CORPORATION PTE. LTD.

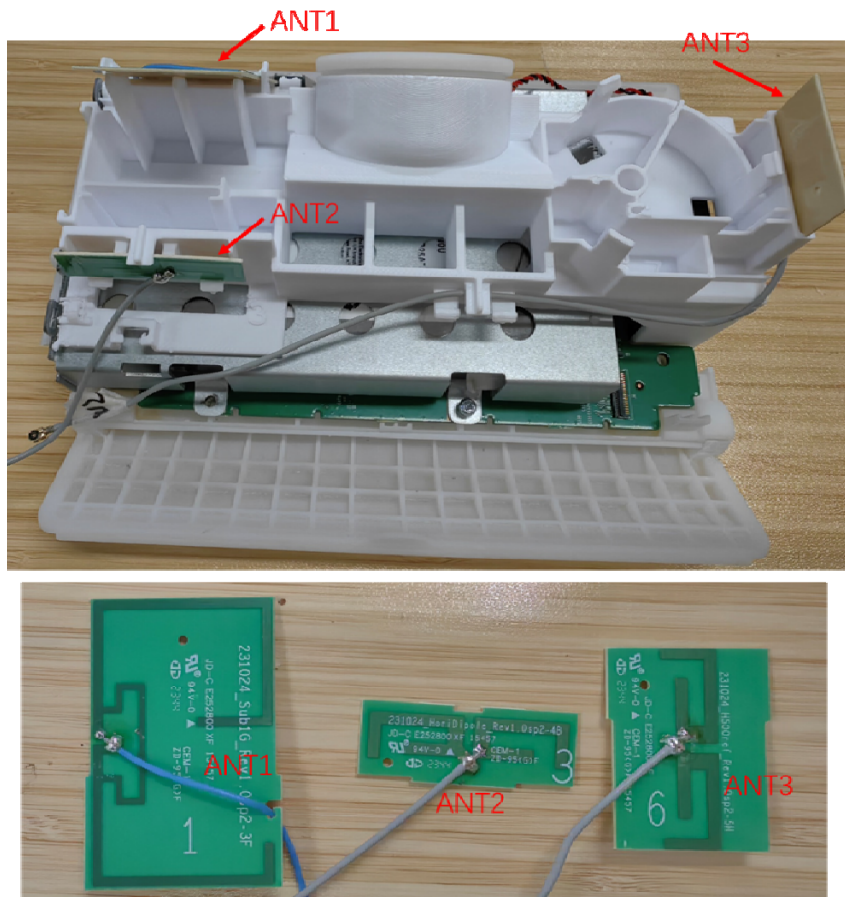
7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987

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1. Antenna Distribution

Tapo H500



2. Electrical Characteristics

Ant1	
Frequency	863 ~ 923MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	-6.10dBi@863~923MHz
Radiation pattern	Omni-Directional
P/N	3101506737

Ant2	
Frequency	2400 ~ 2500&5150~5895MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	2.00dBi@2400~2500MHz 3.00dBi@5150~5250MHz 3.00dBi@5250~5350MHz 3.00dBi@5470~5725MHz 3.00dBi@5725~5895MHz
Radiation pattern	Omni-Directional
P/N	3101506738

Ant3	
------	--

Frequency	2400 ~ 2500&5150~5895MHz
Impedance	50Ohm
Antenna Type	Dipole
Antenna Gain	2.00dBi@2400~2500MHz 3.00dBi@5150~5250MHz 3.00dBi@5250~5350MHz 3.00dBi@5470~5725MHz 3.00dBi@5725~5895MHz
Radiation pattern	Omni-Directional
P/N	3101506739

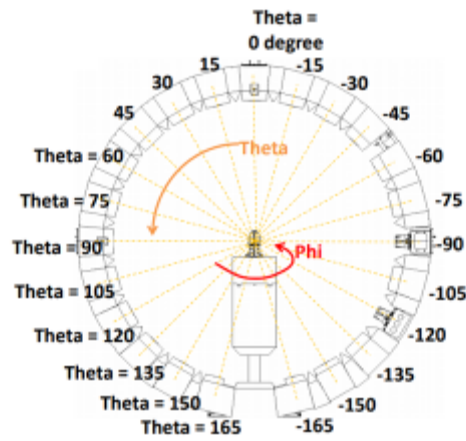


Figure 3-2

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	2024/06/15
Vector Network Analyzer	E5071C	Keysight	MY46315238	24months	2024/06/13
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

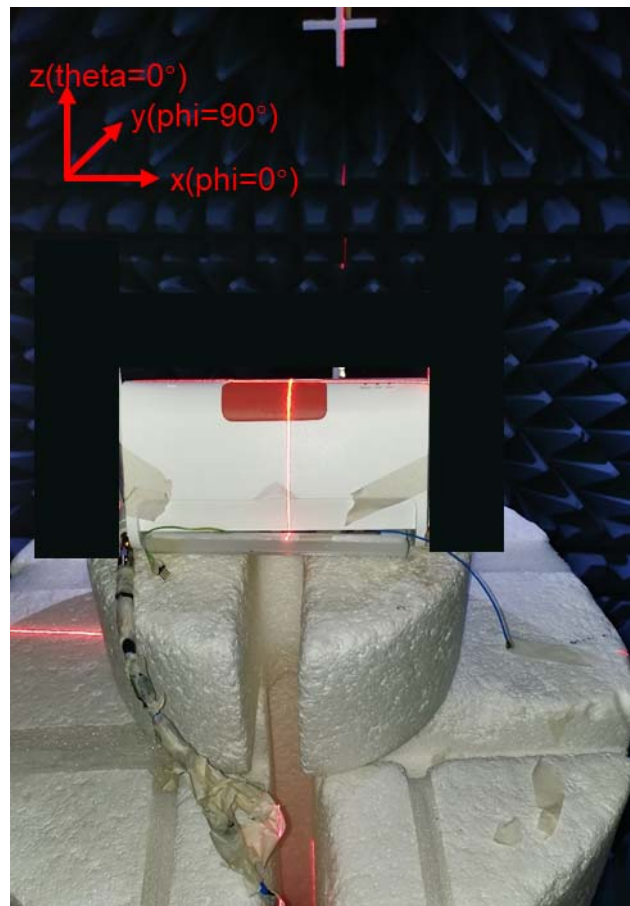
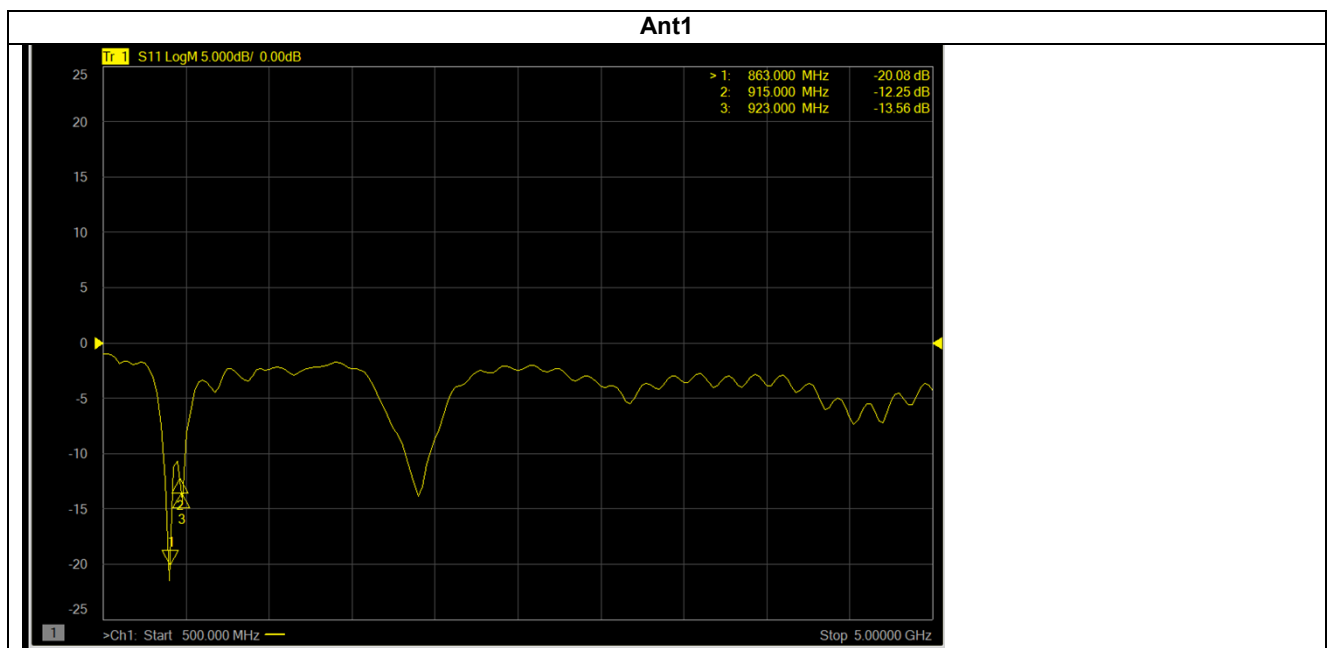
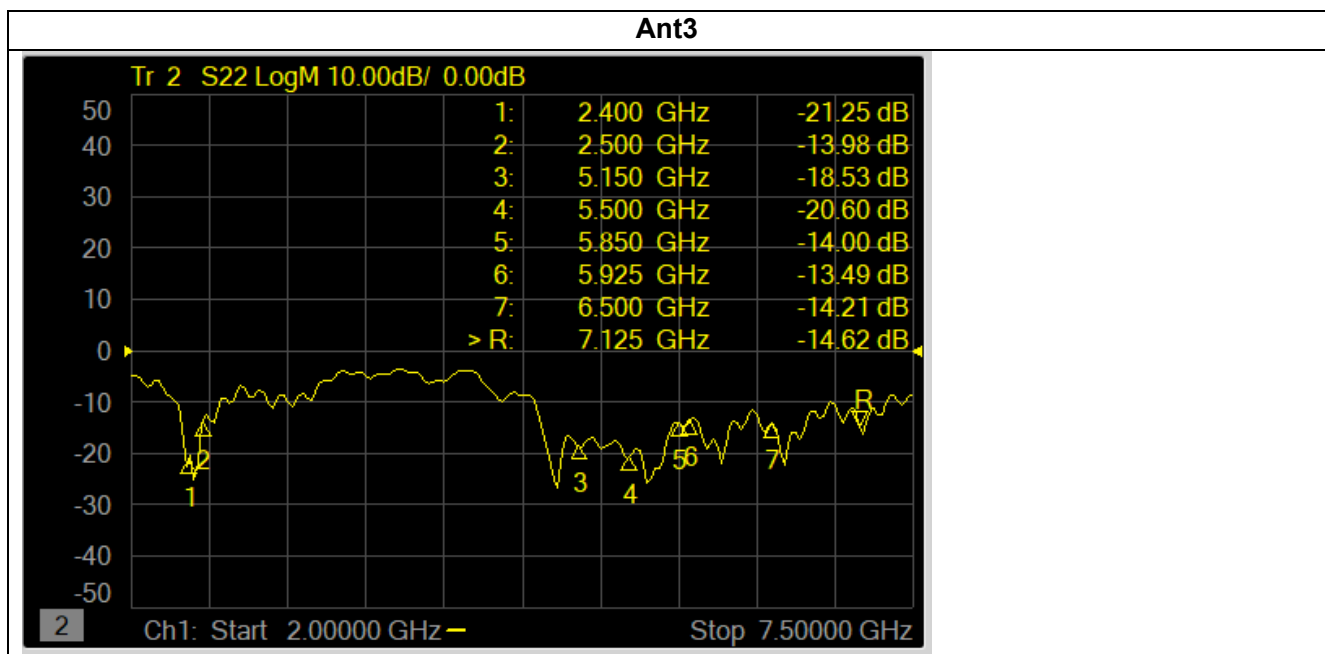


Figure 3-4

3.3 S Parameter Test Data



Ant2



3.4 Antenna Peak Gain

Frequency(GHz)	0.863	0.923
Ant1 MaxGain(dBi)	-6.10	-6.25
Ant1 Polarization/ Φ (°) / θ (°)	Theta/345/75	Theta/225/75
Max Gain(dBi)	-6.10	-6.25

Frequency(GHz)	2.45	5.2	5.3	5.6
Ant2 MaxGain(dBi)	2.00	2.88	2.62	3.00
Ant3 MaxGain(dBi)	2.00	2.93	3.00	2.90
Ant2 Polarization/ Φ (°) / θ (°)	Phi/195/45	Phi/270/30	Phi/270/30	Phi/255/30

Ant3 Polarization/ Φ (°) / θ (°)	Theta/75/75	Theta/15/90	Theta/30/90	Theta/30/75
Max Gain(dBi)	2.00	2.93	3.00	3.00

Frequency(GHz)	5.8
Ant2 MaxGain(dBi)	3.00
Ant3 MaxGain(dBi)	3.00
Ant2 Polarization/ Φ (°) / θ (°)	Phi/270/30
Ant3 Polarization/ Φ (°) / θ (°)	Theta/30/90
Max Gain(dBi)	3.00

3.5 Antenna Radiation Pattern

