

AUT Report

Product Model: Deco BE65-Outdoor

Manufacturer: TP-Link Systems Inc.

Test Date: 2025.01.23

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TP-Link Systems Inc.
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Index

1. Antenna Distribution.....	3
2. Electrical Characteristics	3
3. Gain and Radiation Pattern	4
3.1 Measurement Procedure	4
3.2 Test Setup	5
3.3 S Parameter Test Data	6
3.4 Antenna Peak Gain	7
3.5 Antenna Radiation Pattern.....	7

1. Antenna Distribution

Deco BE65-Outdoor



2. Electrical Characteristics

Ant1	
Frequency	2400 ~2500MHz
Impedance	50Ohm
Antenna Type	IFA
Antenna Gain	0.93dBi@2400~2500MHz
Radiation pattern	Omni-Directional
P/N	

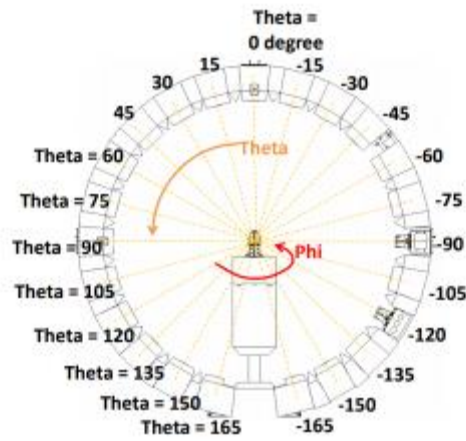


Figure 3-2

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

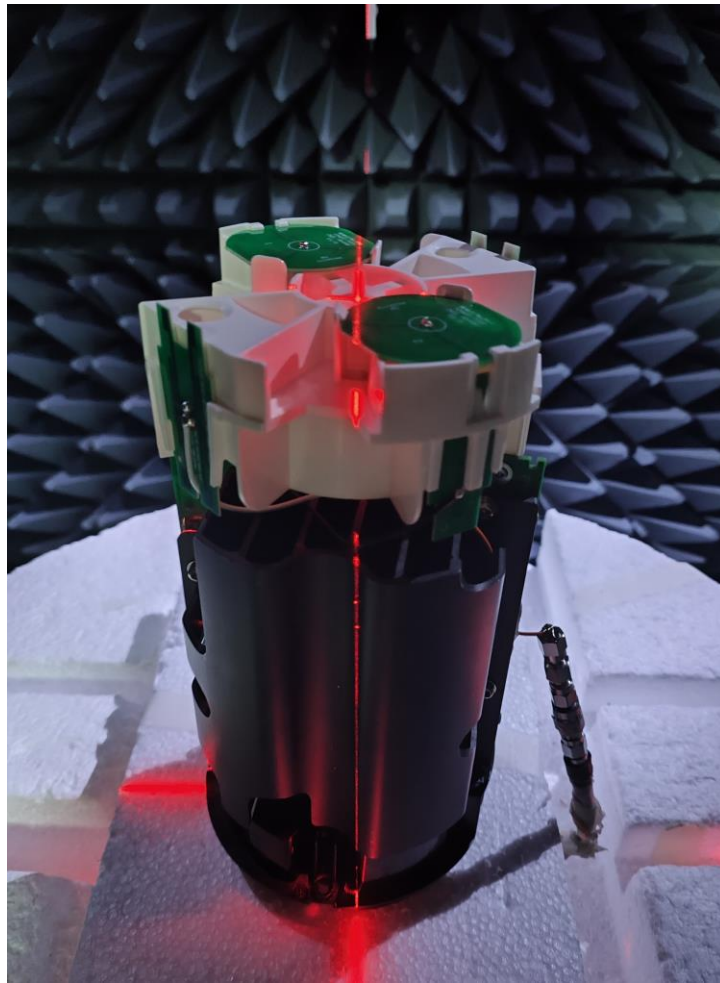
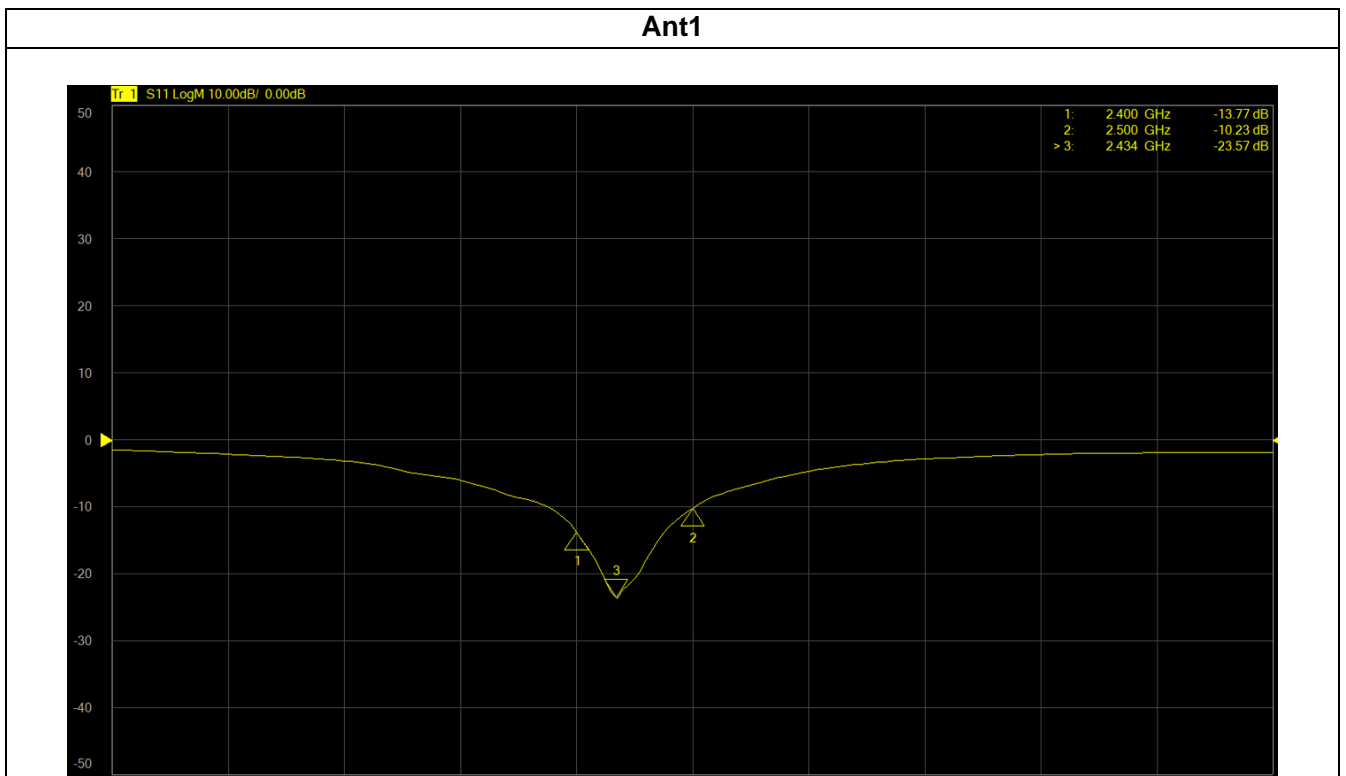


Figure 3-4

3.3 S Parameter Test Data



3.4 Antenna Peak Gain

Frequency	2.45GHz 2400~2500MHz
Ant1 MaxGain(dBi)	0.93
Ant1 Polarization/ Φ (°)/ θ (°)	Theta/30/135
Max Gain(dBi)	0.93

3.5 Antenna Radiation Pattern

