

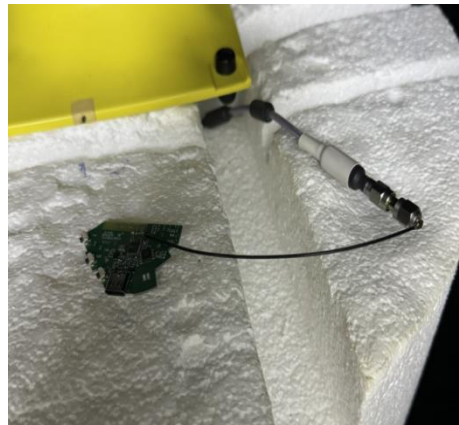
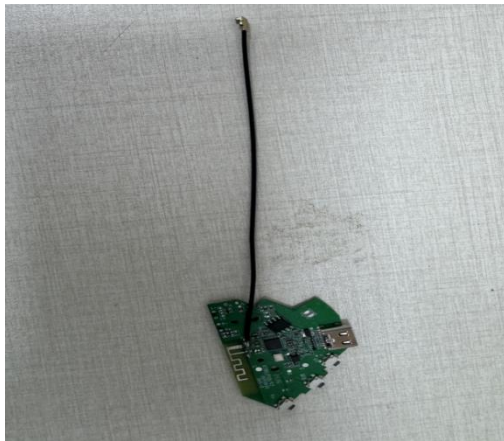
Antenna Testing

- 1, Hardware Testing
- 2, Software Testing
- 3, Data Reading

1, Hardware Testing

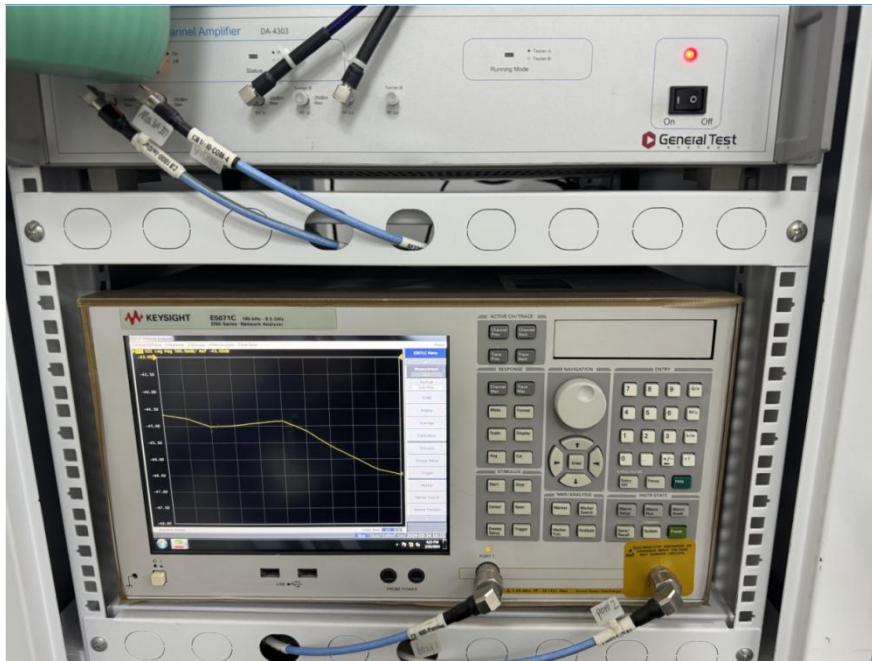
1.1, PCBA bare board testing

Weld the RF coaxial cable to the bare board, then connect it to the OTA device. The connection diagram of the RF coaxial cable to the bare board is shown below.:

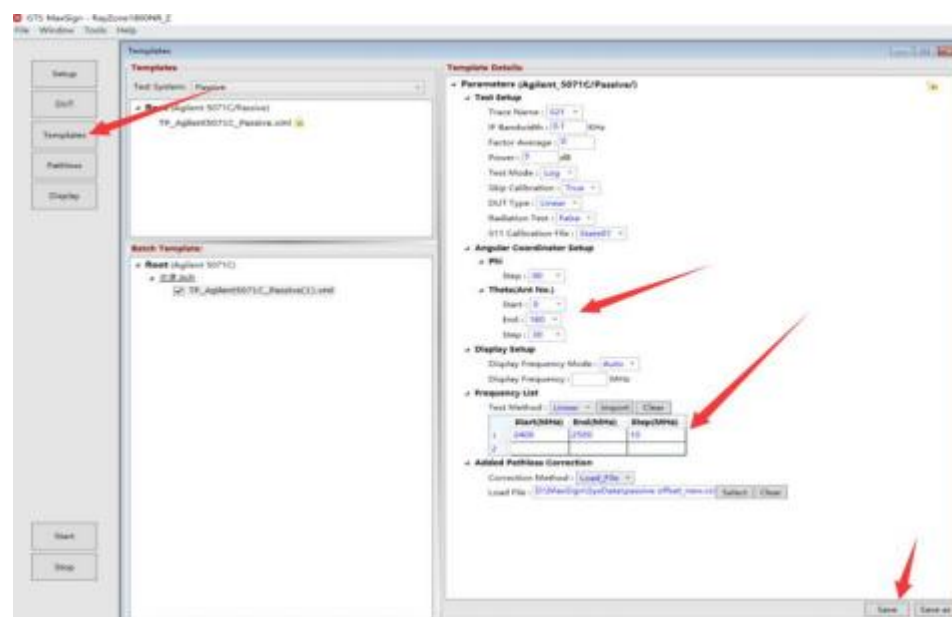
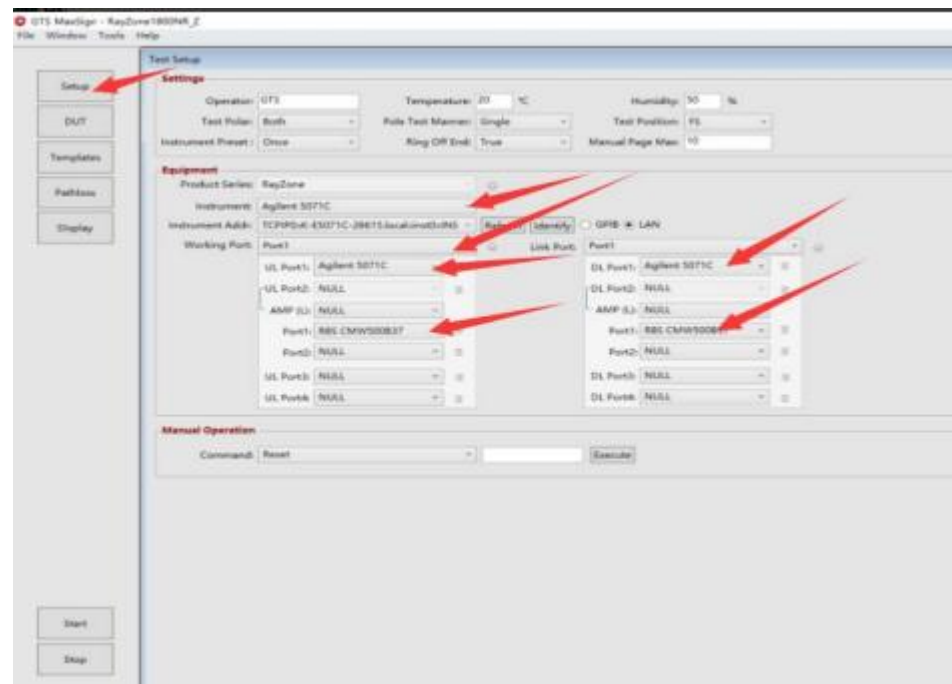


1.2, Equipment Environment

The equipment required for this test includes a computer, a spectrum analyzer, an amplifier, and a darkroom, as shown in the figure below.:



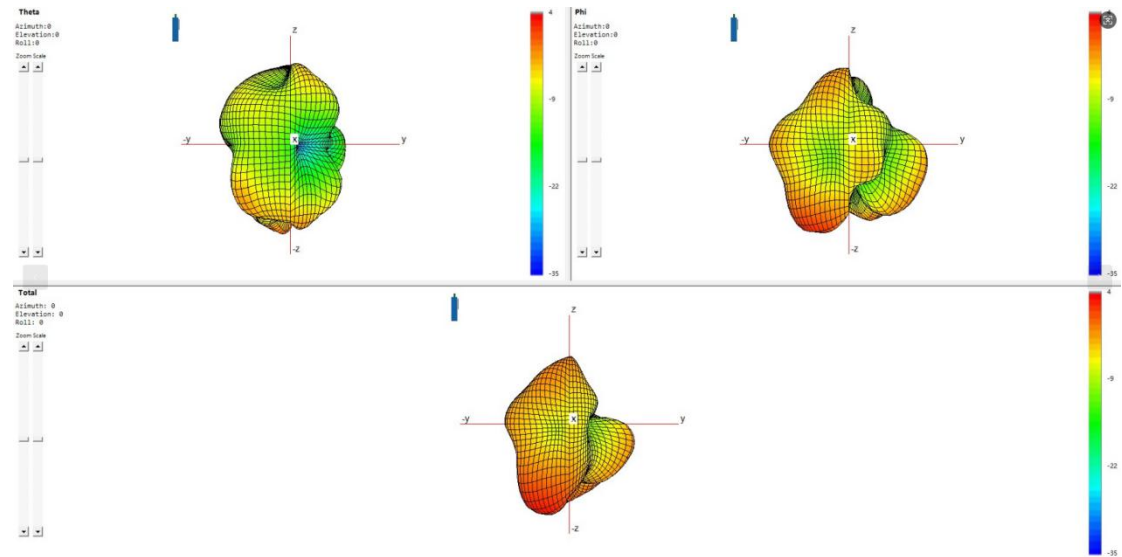
2, Software Testing



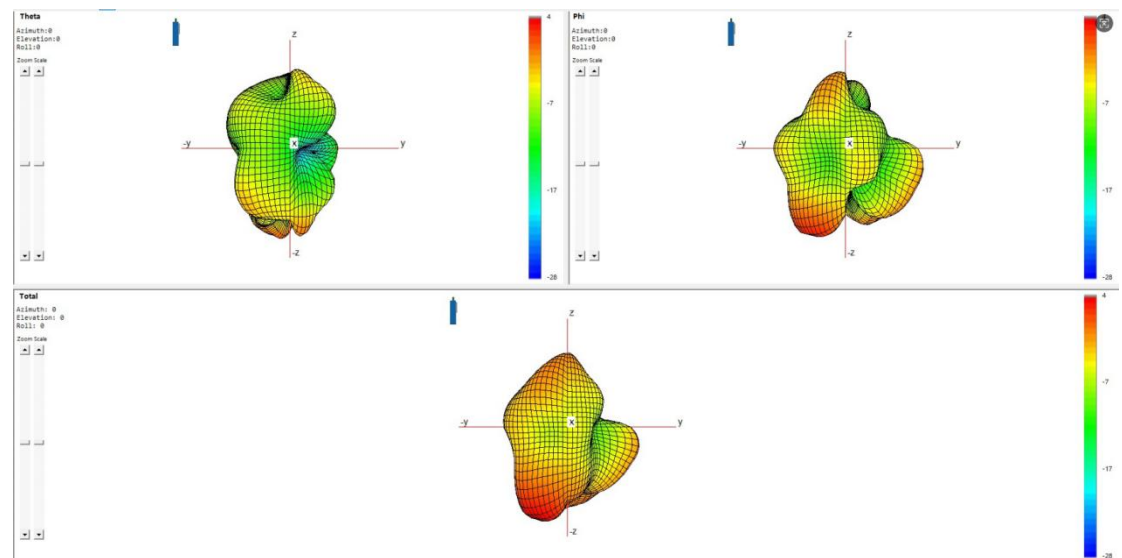
3, Data Reading

3.1, 3D Radiation Pattern of the Scanning Antenna

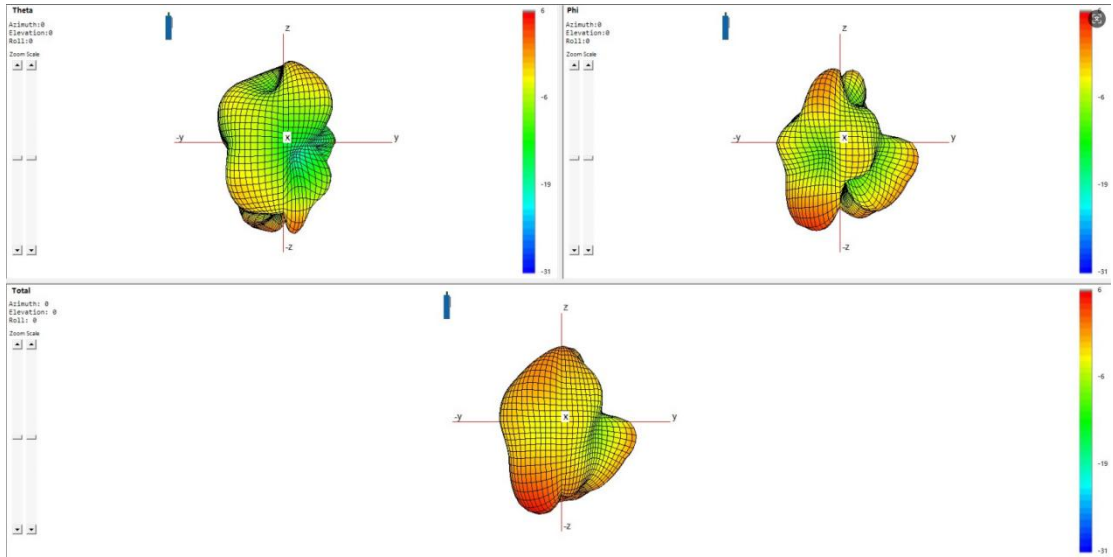
2400MHz:



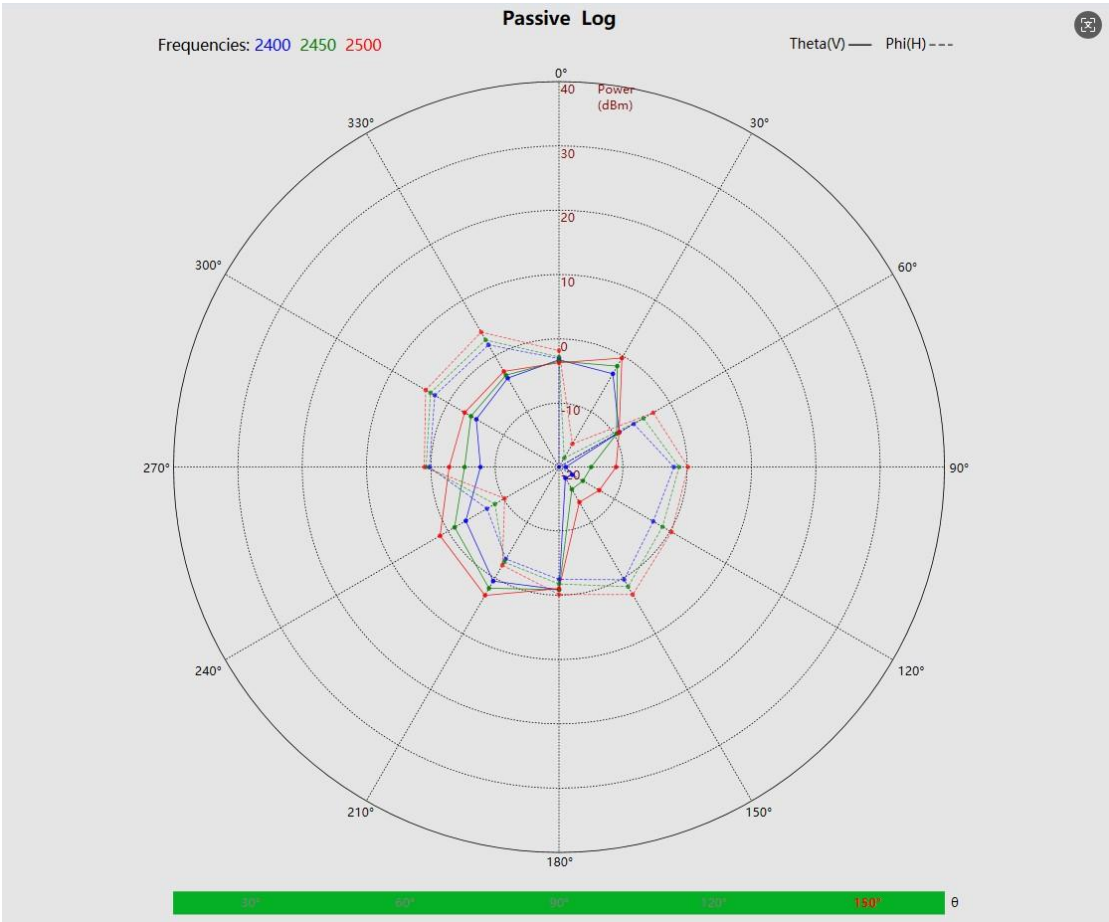
2450MHz:



2500MHz:



3.2, 2D Radiation Pattern of the Scanning Antenna



3.3, Detailed scan output data results

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	3.03307700	-3.42802476	45.41481229
2410	3.07467877	-3.44602691	45.22695074
2420	2.99052817	-3.55040015	44.15297629
2430	3.36407004	-3.19082591	47.96422244
2440	3.88483411	-2.77988360	52.72439919
2450	3.83815084	-2.78363979	52.67881784
2460	4.18517206	-2.40952950	57.41786624
2470	4.45127640	-2.17178345	60.64872204
2480	4.77107475	-1.90168845	64.54032595
2490	5.28804340	-1.45261943	71.57116007
2500	5.01169969	-1.65249364	68.35190697

ITEM	ANT SPEC		
Model Name	2.4G ANT		
Antenna plate	PCB antenna		
Center Frequency	2400MHz	2450MHz	2480MHz
	3.03dBi	3.83dBi	4.77dBi
MAX.Gain	4.77dBi		
Polarization	Horizontal and Vertical		
Impedance	50Ohm		
Manufacture			

AntennaPhouo&Length(mm)

