

Antenna test

1. Hardware test

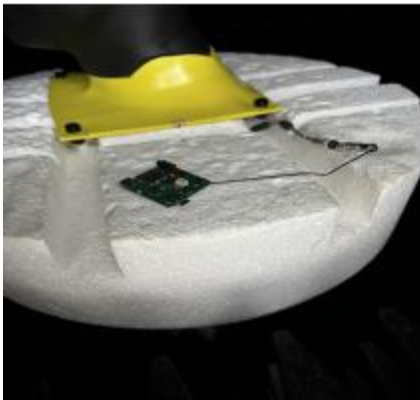
2. Software test

3. Data reads

1. Hardware test

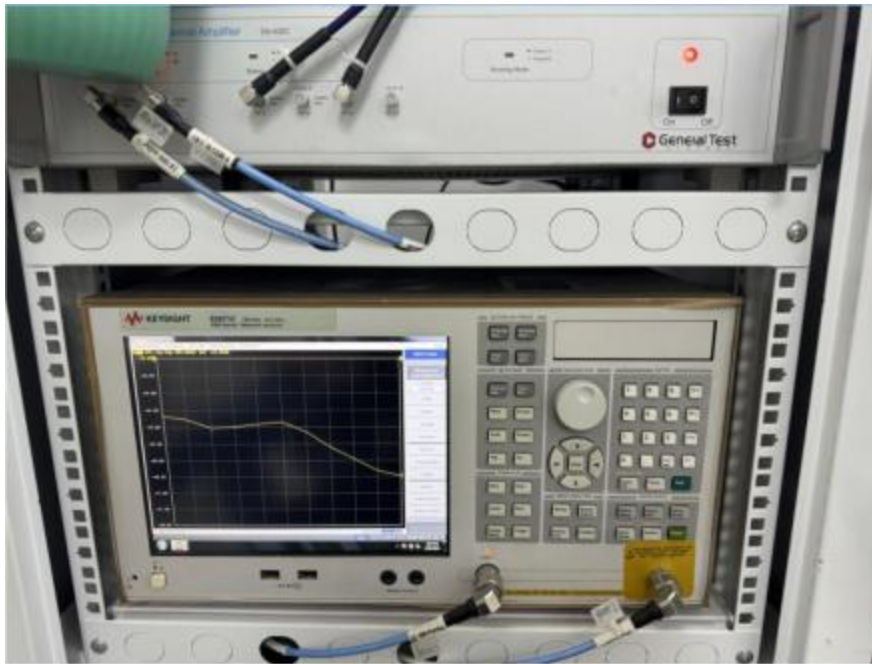
1.1, PCBA bare plate test

Weld the connecting wire with the bare plate, and then connect it with the OTA equipment, and connect the RF connection wire with the bare plate, as shown below:



1.2, the equipment environment

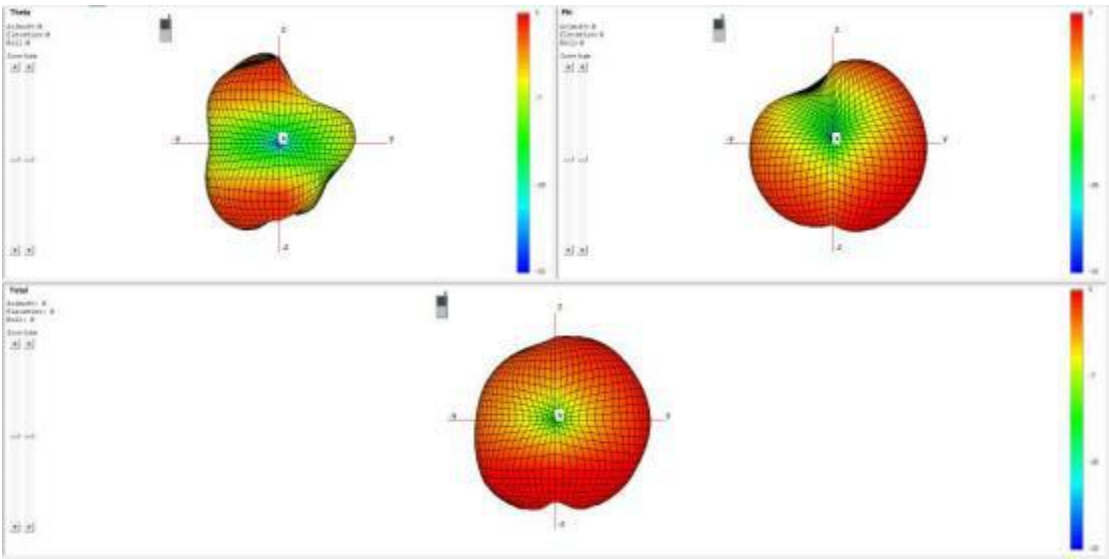
This test requires a computer, spectrometer, amplifier and dark room, as shown below:



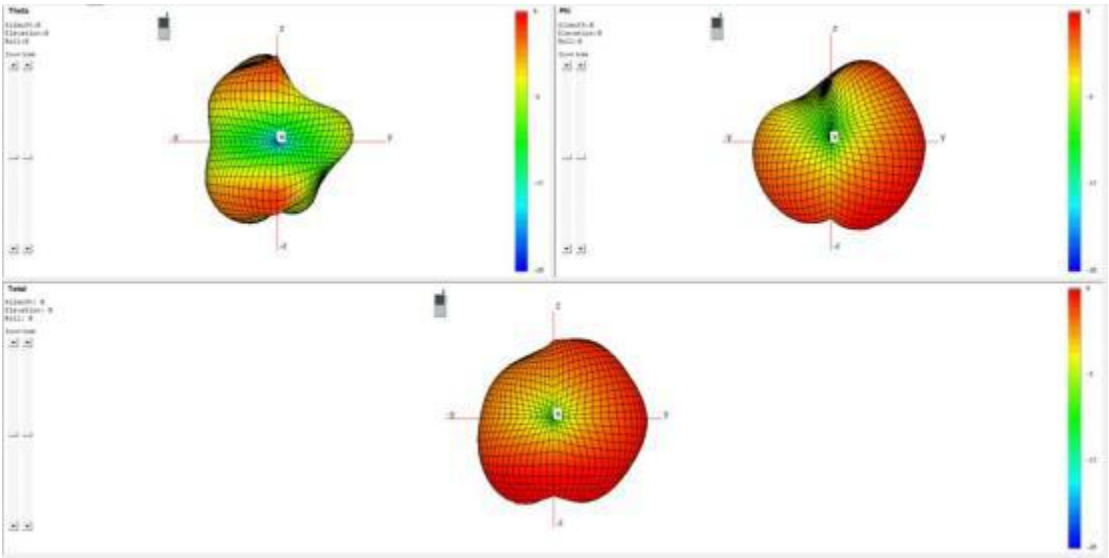
2. Software test

3.1, the radiation map of the 3D map of the scanning antenna

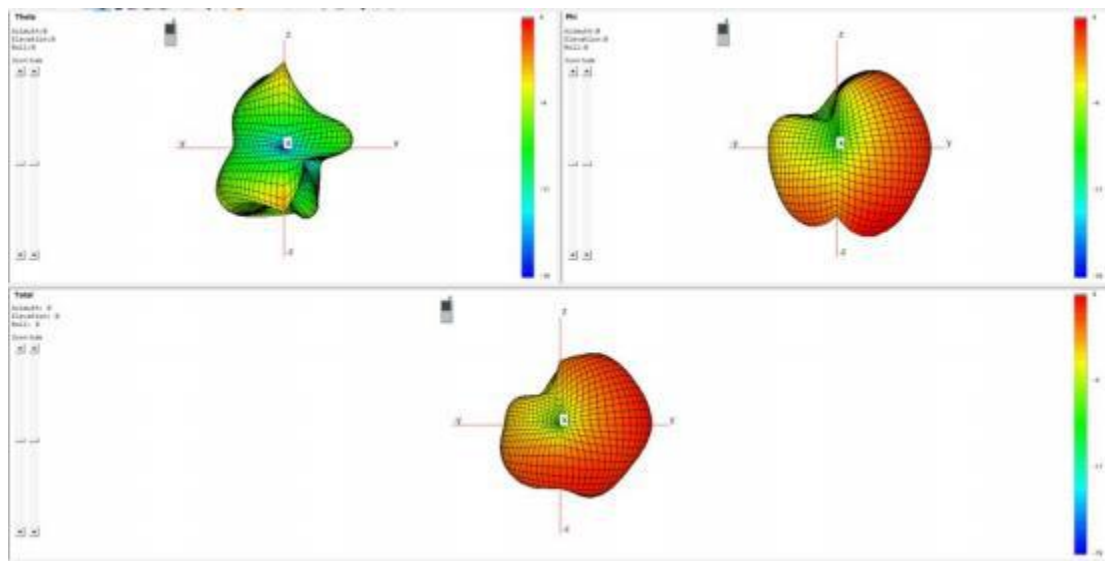
2400MHz:



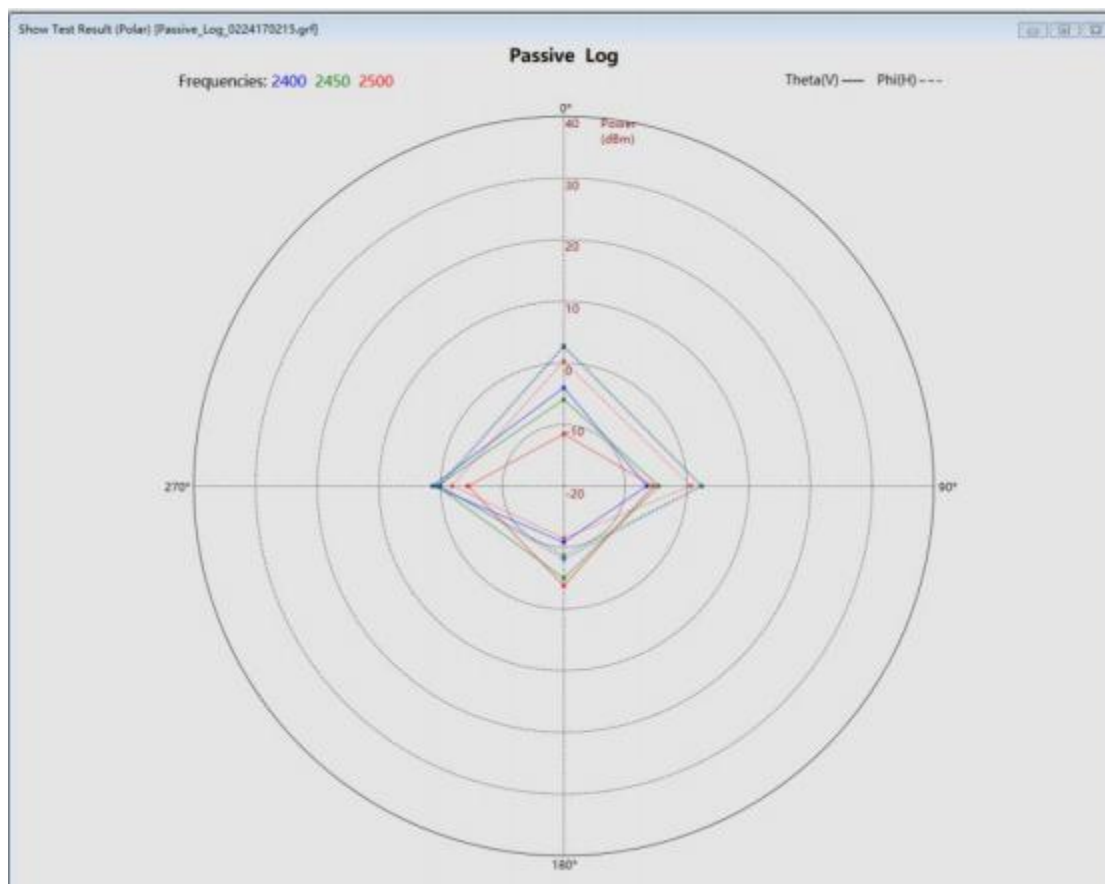
2450 MHz:



2500 MHz:



3.2, scanning antenna 2D radiation map

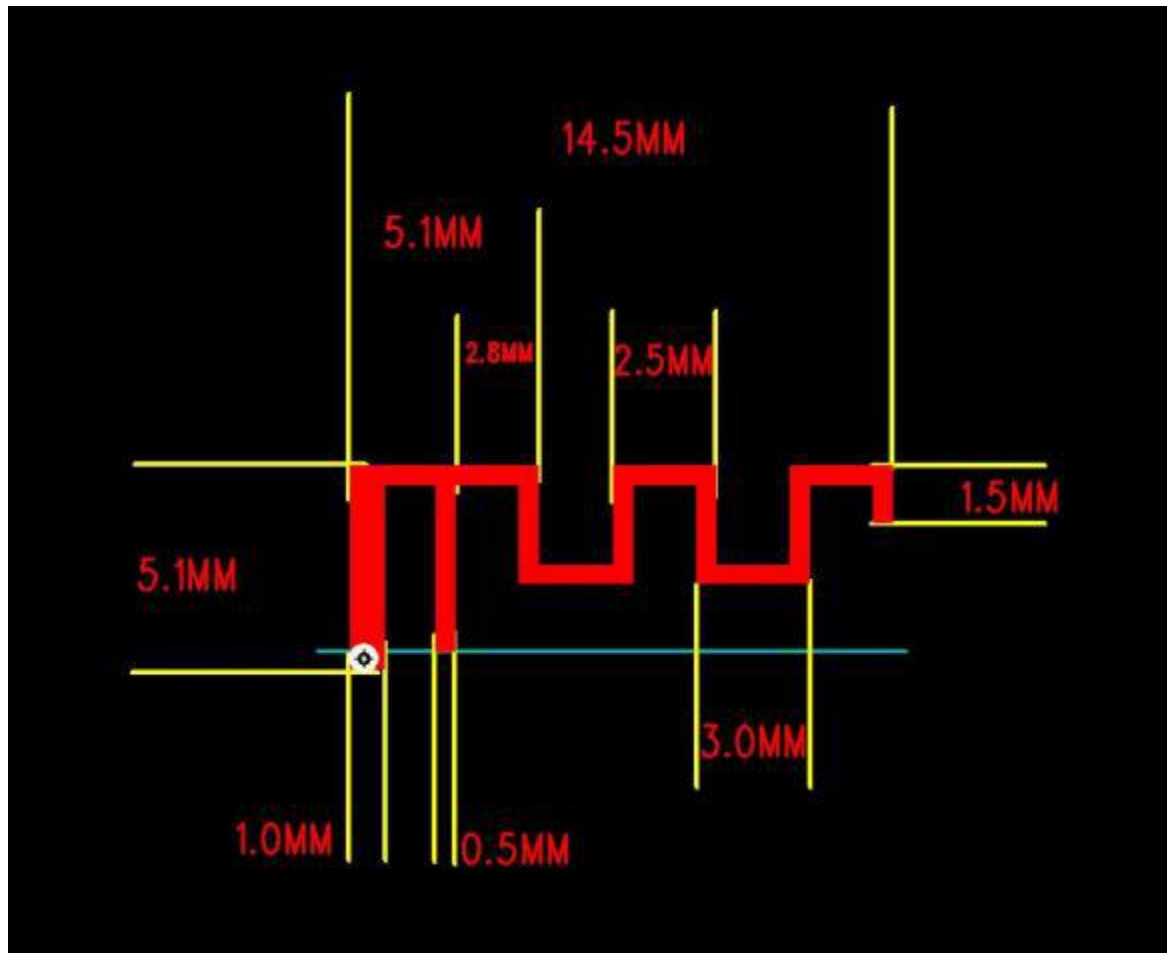


3.3, detailed scan output data results

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	4.73342591	1.773815678	150.4463195
2410	4.961265122	1.895608836	154.7251398
2420	5.067302169	1.962652587	157.1322245
2430	5.368003414	2.188791154	165.5309149
2440	5.600528892	2.350140377	171.7963916
2450	5.654040851	2.390523367	173.4012951
2460	5.521399269	2.267430619	168.5555519
2470	5.001927509	1.794395308	151.1609215
2480	4.563397682	1.323160534	135.6175997
2490	4.023180436	0.746943067	118.7665953
2500	3.691213759	0.453532901	111.0077475

ITEM	ANT SPEC		
Model Name	2.4 G ANT		
Antenna plate	PCB antenna		
Center Frequency	2400 MHz	2450 MHz	2500 MHz
	4.73 dBi	5.65 dBi	3.69 dBi
MAX.Gain	5.65 dBi		
Polarization	Horizontal and Vertical		
Impedance	50 Ohm		
Manufacture			

AntennaPhouo&Length(mm)



Manufacturer: Shenzhen Star Times Technology Electronics Co.,Ltd.

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