

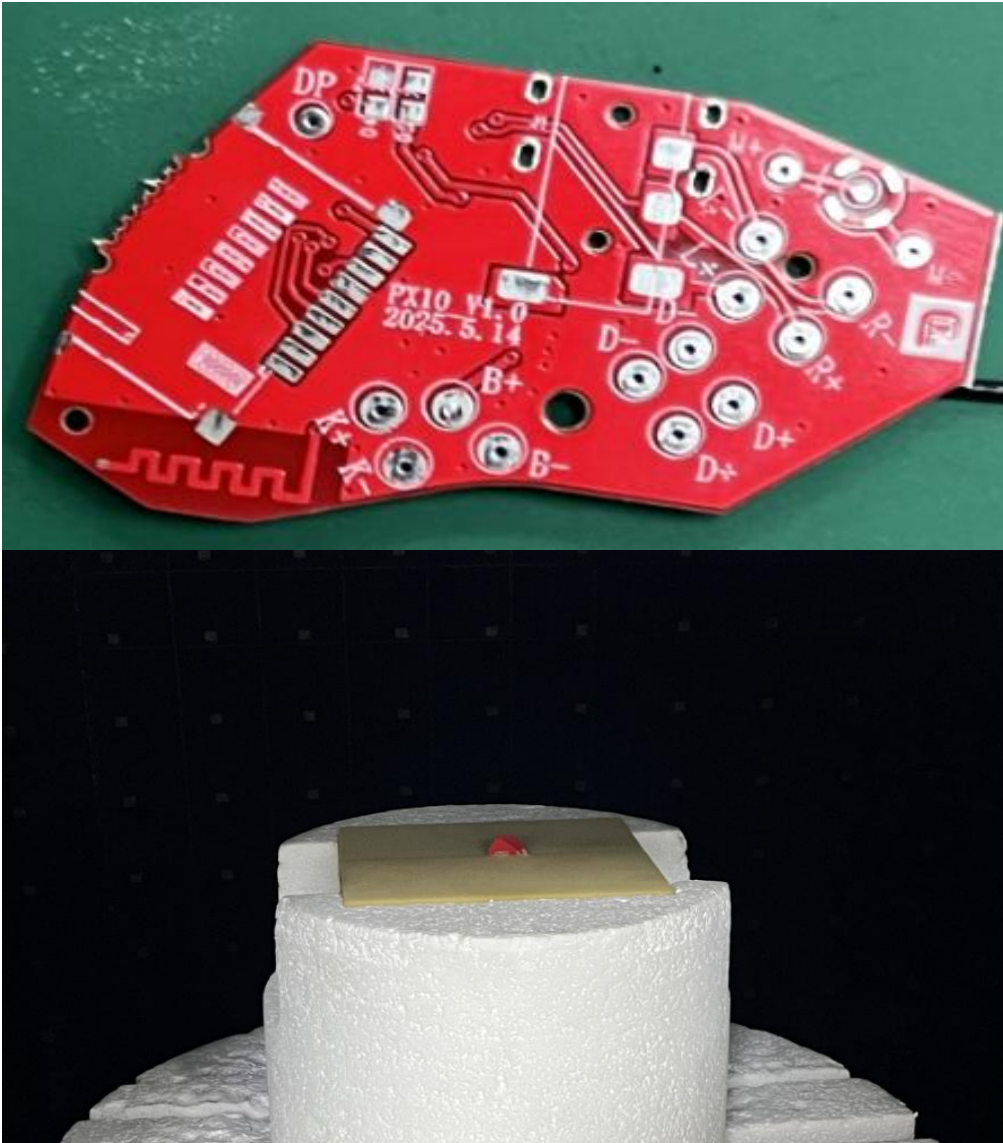
天线测试

- 1、硬件测试
- 2、软件测试
- 3、数据读取

1、硬件测试

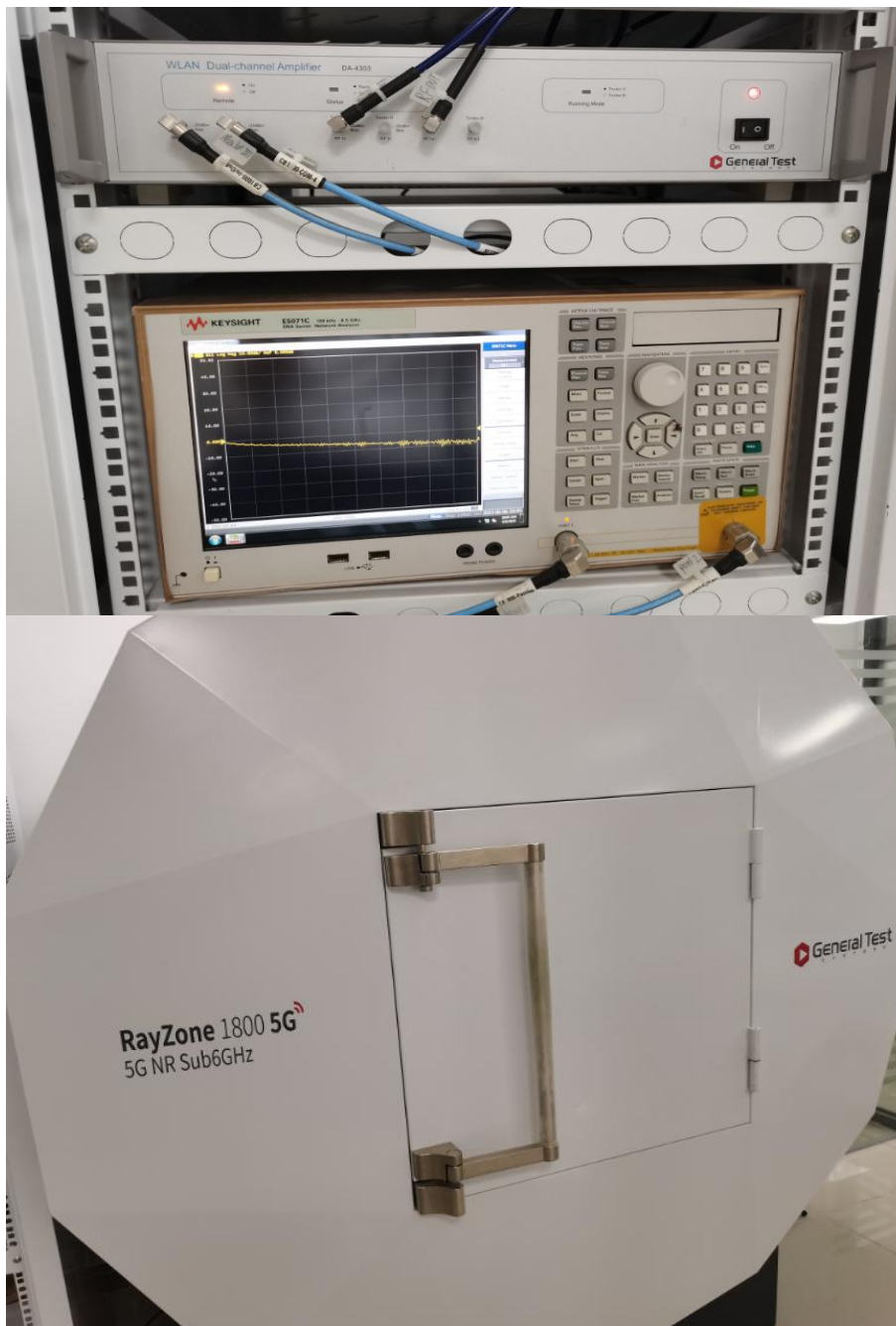
1.1 、PCBA 裸板测试

将射频连接线与裸板焊接好，再将其与 OTA 设备连接。射频连接线与裸板连接图，如下图示：

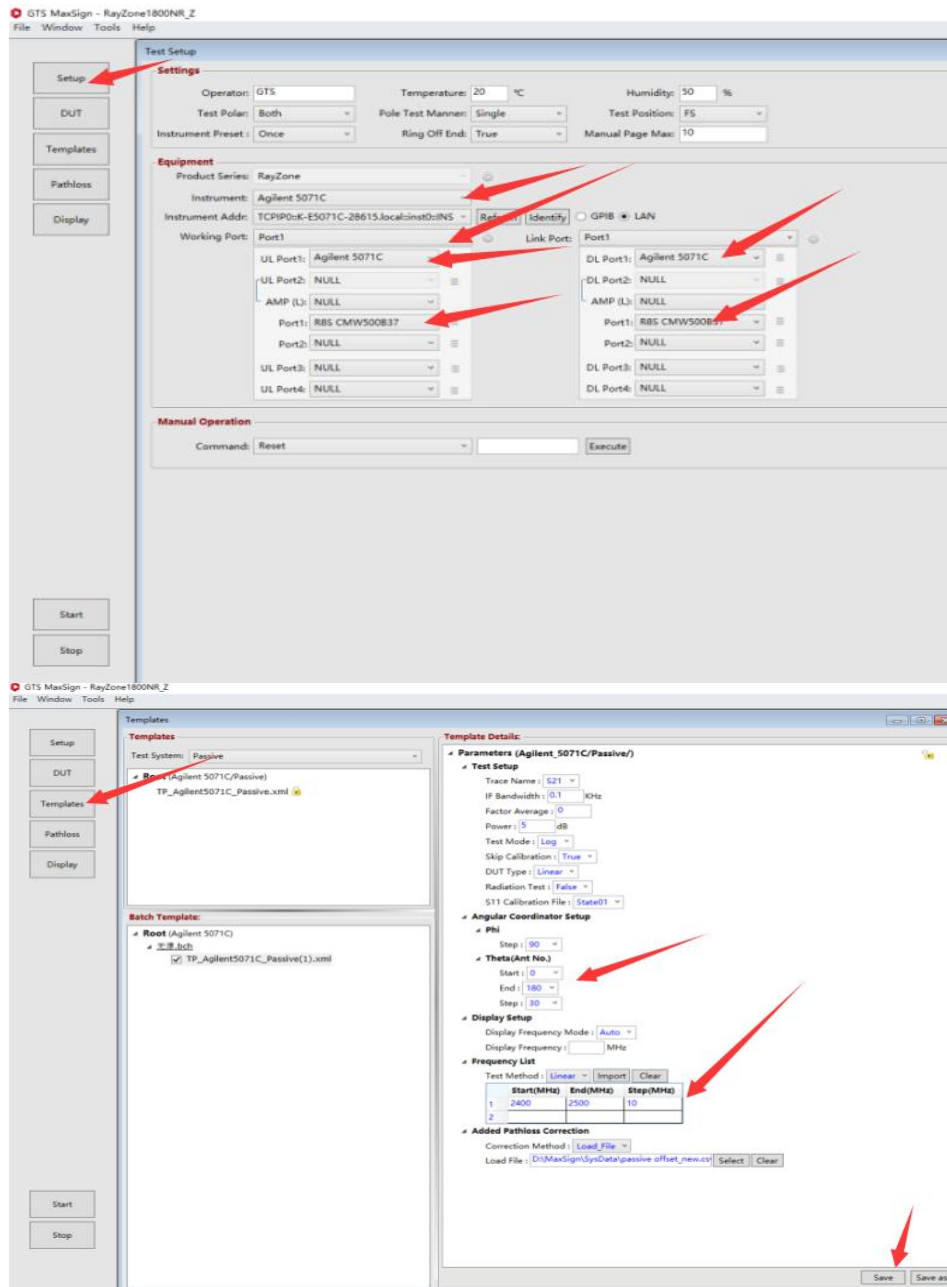


1.2 、设备环境

本次测试需用到的设备有电脑、频谱仪、放大器和暗室，如下图示：



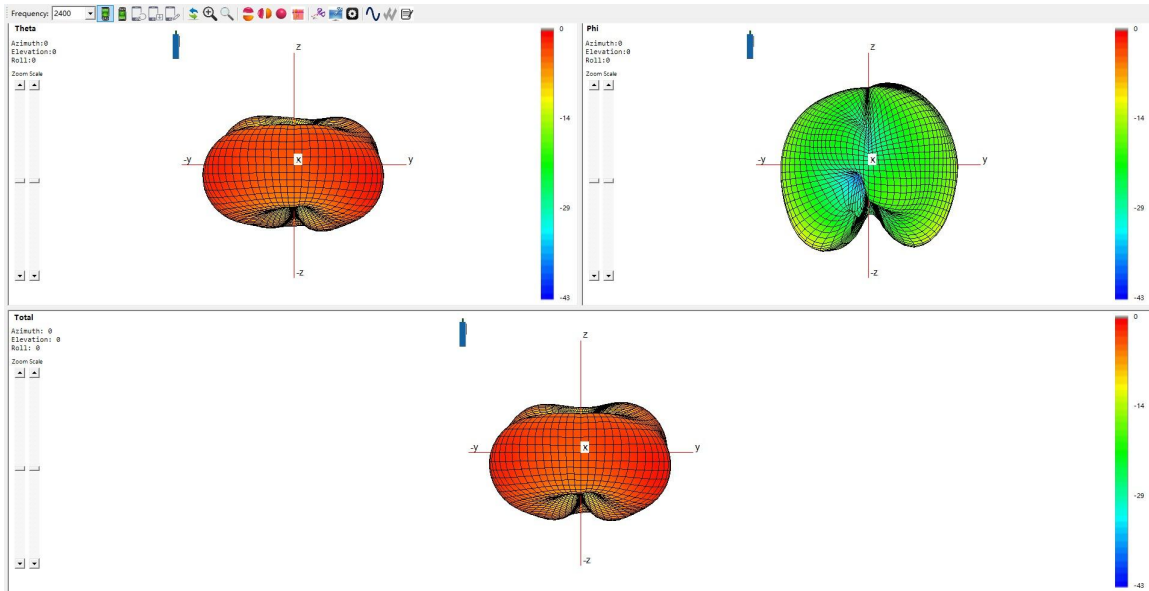
2、软件测试



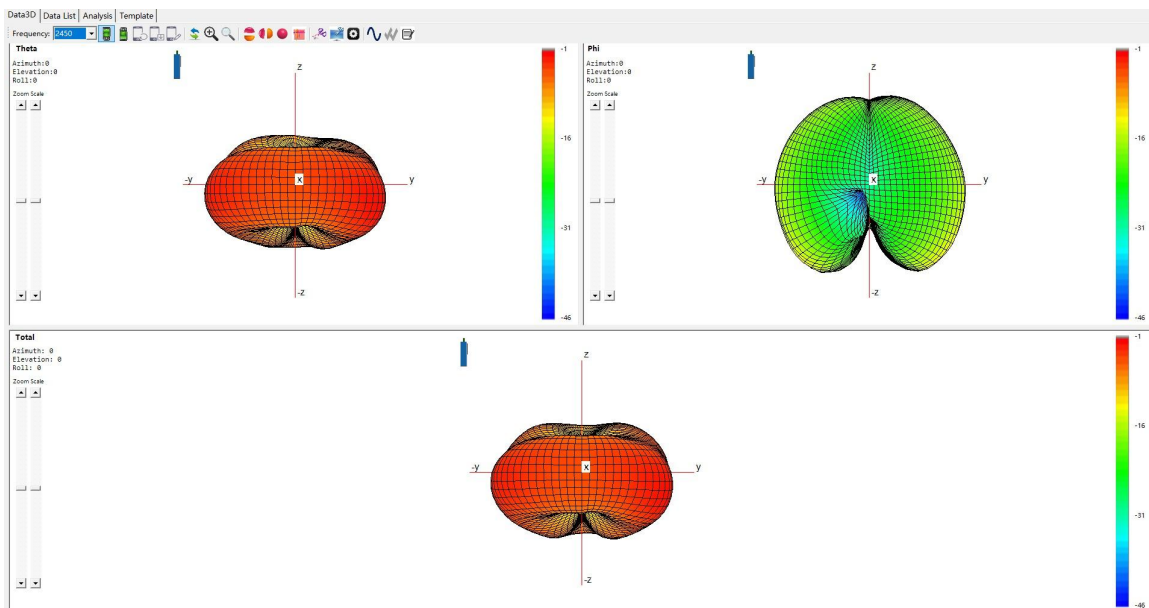
3、数据读取

3.1、扫描天线的 3D 辐射图

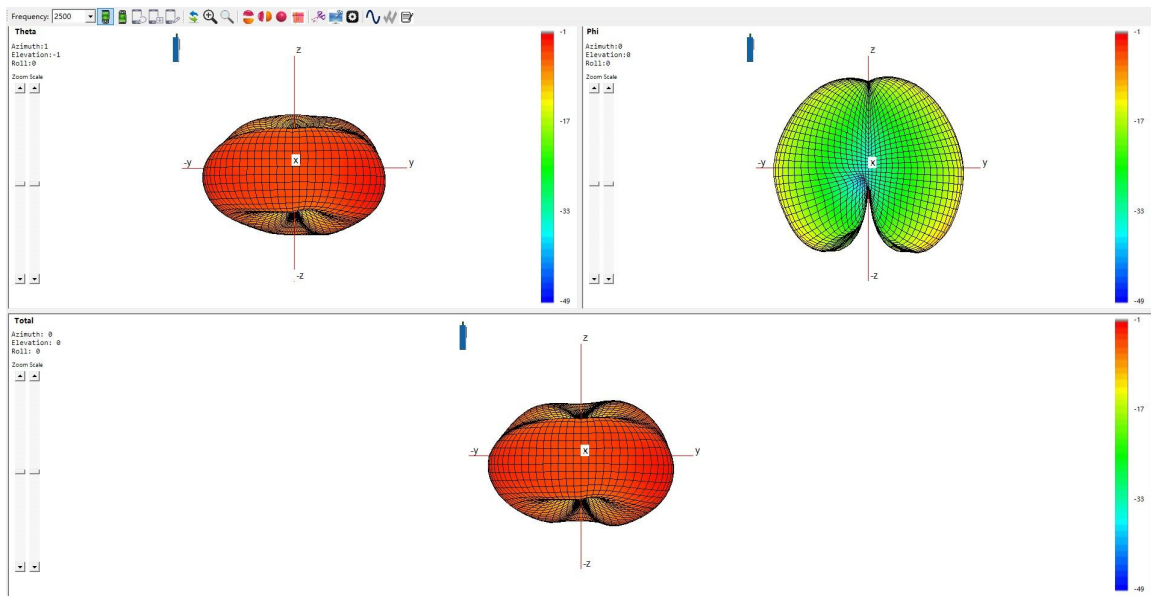
2400MHz:



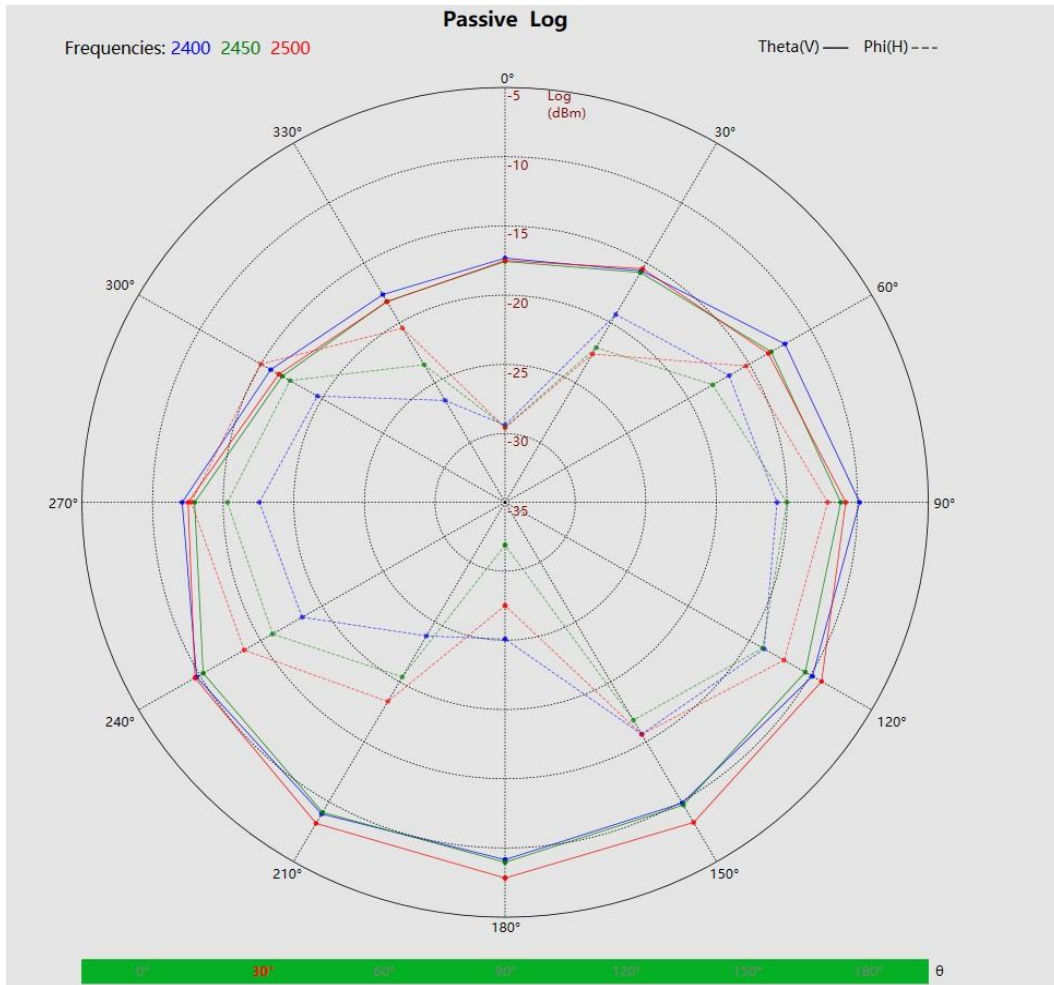
2450MHz:



2500MHz



3.2、扫描天线的 2D 辐射图



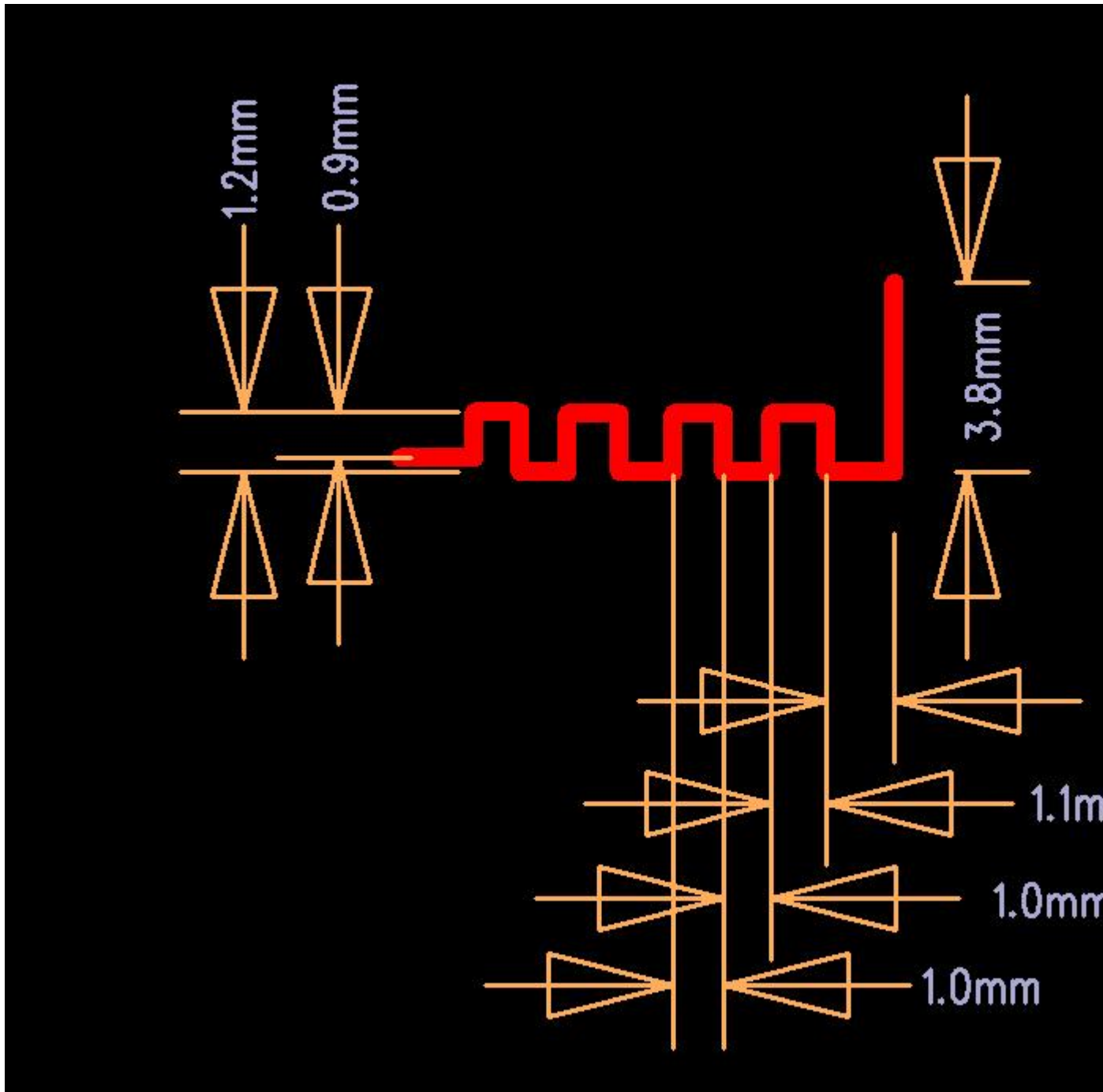
3.3、详细的扫描输出数据结果

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-0.70	-3.97	40.13
2410	-1.01	-4.17	38.29
2420	-1.58	-4.66	34.18
2430	-2.03	-5.15	30.57
2440	-1.70	-4.86	32.66
2450	-1.75	-4.90	32.39
2460	-2.06	-5.21	30.15
2470	-2.14	-5.25	29.87
2480	-2.34	-5.39	28.93
2490	-2.07	-5.14	30.65
2500	-1.53	-4.57	34.92

Summary

ITEM	ANT SPEC		
Model Name	2.4G ANT		
Antenna plate	PCB antenna		
Center Frequency	2400MHz	2450MHz	2500MHz
	-0.70dBi	-1.75dBi	-1.53dBi
MAX. Gain	-0.70dBi		
Polarization	Horizontal and Vertical		
Impedance	50Ohm		
Manufacture			

AntennaPhoto&Length(mm)



Antenna manufacturer:
Guangdong Pangpai technology CO., Ltd.
Building H-2,Jinxin Industrial Zone,South Of Xingguojing Road, Shangbao Residents Committee,
Gurao Town, Shantou, Guangdong