



Zigbee Antenna Test Report

Customer	
Project	TZ8258-27A1
Antenna Revision	A0
Product Description	Module+整机
Product No	

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Checked by : Phil_Ye

2024.03.25

Purpose

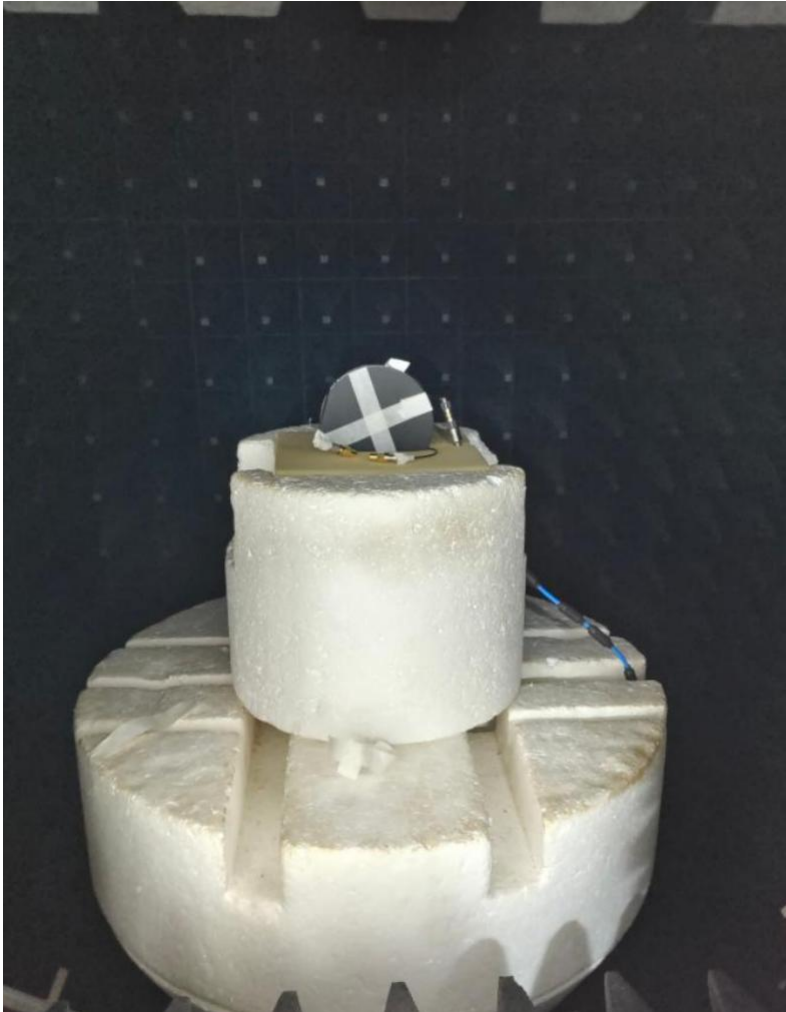
This report is to measure the performance of **W2169-2.4GHZ** for **TZ8258-27A1**. All test data are shown as below.

Content

- 1: Product Overview & Dimension
- 2: Matching Network And test report
- 3 : Conclusion

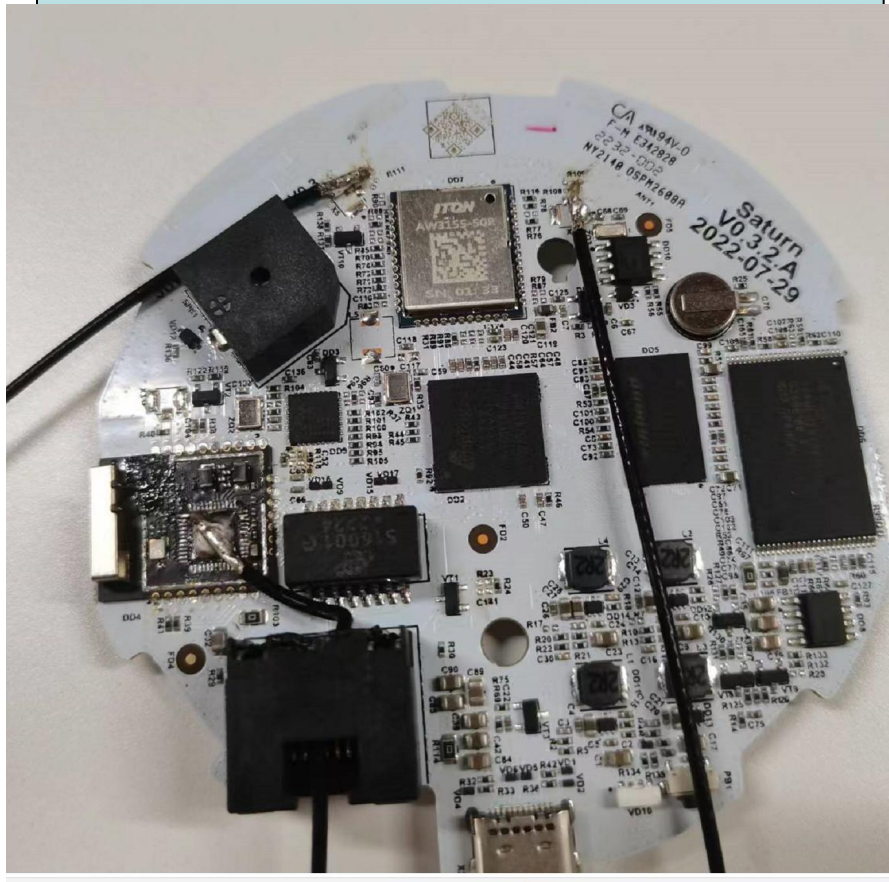
1. Product Overview & Dimension

Antenna

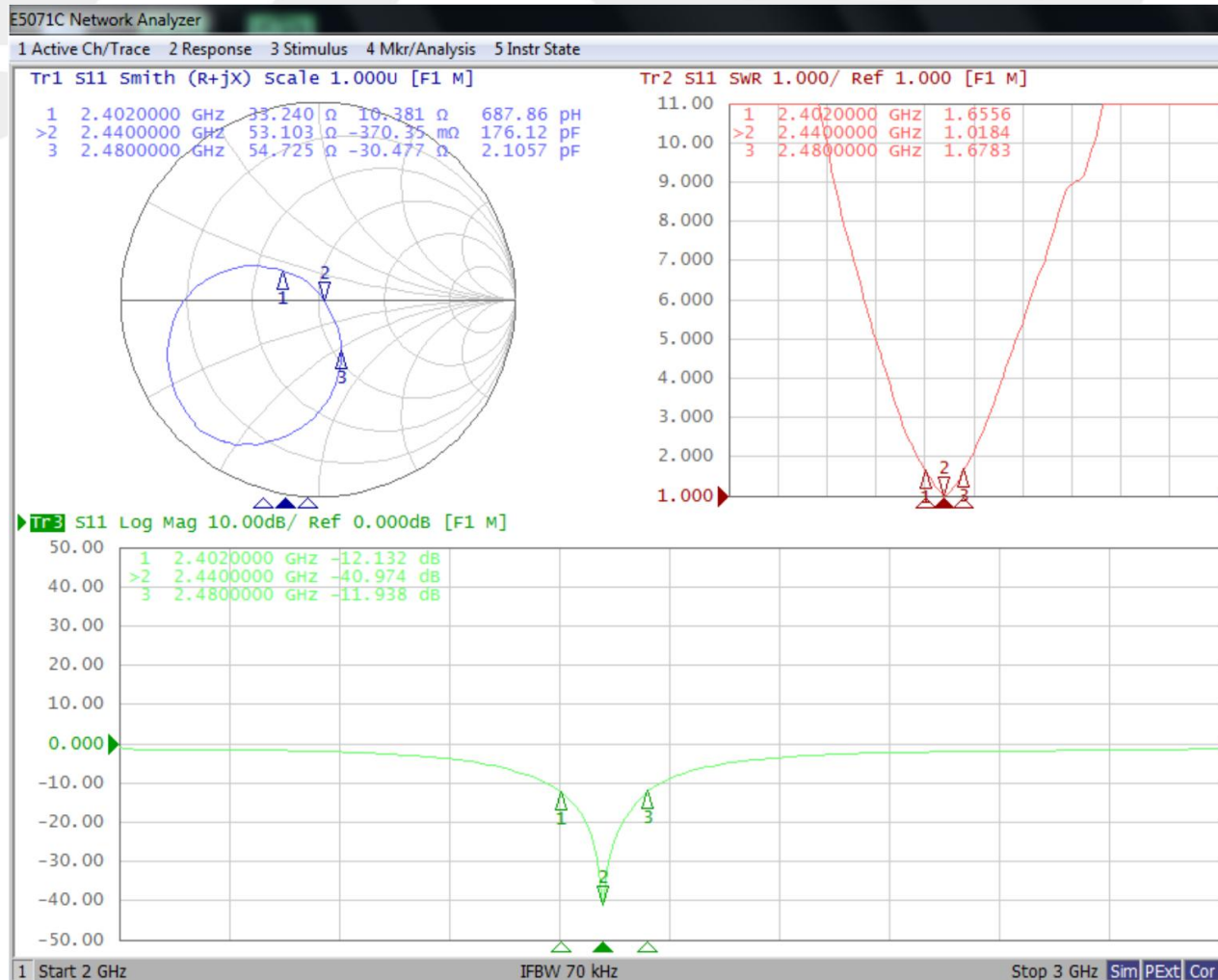


2.1 Antenna Matching Network

PCB板端匹配电路无改动如下图



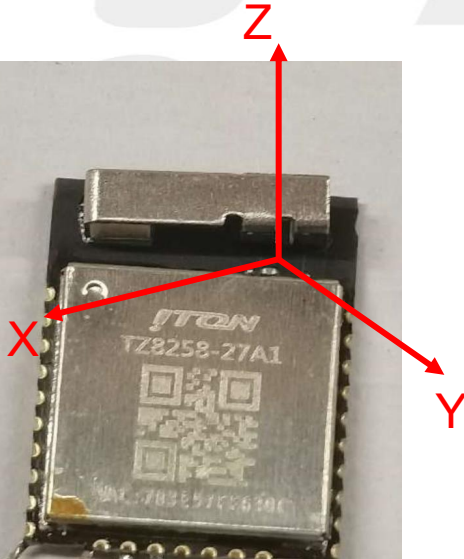
2.2 Smith & VSWR & Return Loss



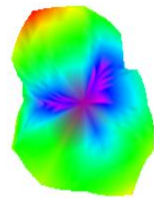
2.3 *GAIN & Efficiency*

Frequency (MHz)	Efficiency_ dB	Efficiency_ %	Gain
2400	-4.75	33.47	1.41
2410	-4.64	34.37	1.36
2420	-4.45	35.86	1.55
2430	-4.34	36.82	1.78
2440	-4.3	37.16	1.82
2450	-4.21	37.91	1.98
2460	-4.08	39.09	2.19
2470	-4.16	38.38	2.25
2480	-4.25	37.56	2.26
2490	-4.33	36.93	2.16
2500	-4.38	36.47	1.98

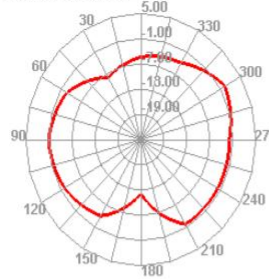
2.4 WIFI 3D DATA



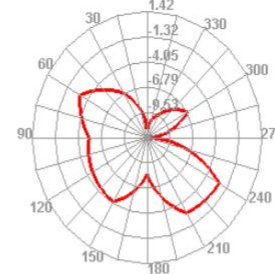
2400.000MHz



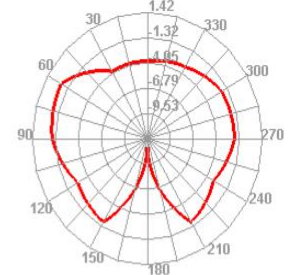
2400.000MHz H



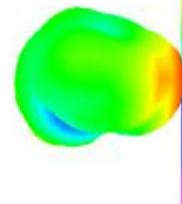
2400.000MHz E1



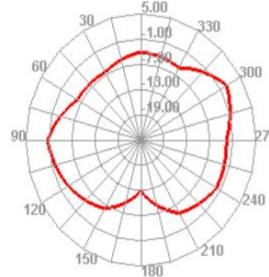
2400.000MHz E2



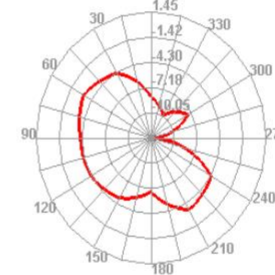
2450.000MHz



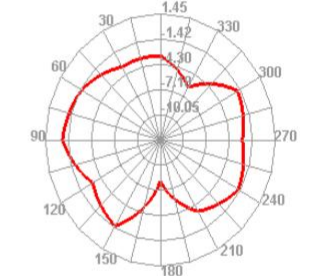
2450.000MHz H



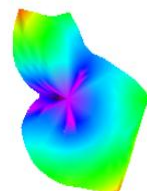
2450.000MHz E1



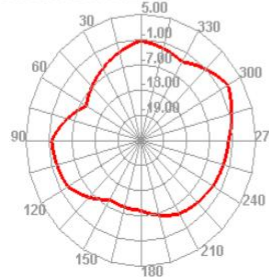
2450.000MHz E2



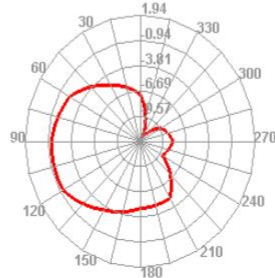
2500.000MHz



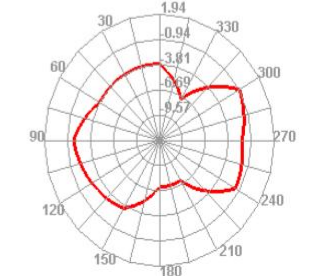
2500.000MHz H



2500.000MHz E1



2500.000MHz E2





3. Conclusion

PCB板端匹配电路有改动，无源驻波调试到2.0以下，达到要求。
如有其他问题电话联系，谢谢！