

Antenna gain test datasheet

Index:

1. Overview
2. Revision History
3. Test Item & Equipment
4. Matching Circuit
5. S Parameter Test
6. Active Test
7. Conducted Emission Test
8. Environmental Processing

Project Name: UTI165B+/260B+

Author: 黄文华

Update: 2024-03-21

项目概况

OverView

CUSTOMER NAME	优利德	PROJECT NAME	UTi260B+
Items		Details	
• FREQUENCY		WIFI: 2400MHz-2500MHz	
• PROJECT TYPE			
• ANTENNA SPACE			
• FEED & GROUND PAD			
• SENSITIVE ELEMENTS			
• ANTENNA TYPE			
• PCB			
• OTHERS			

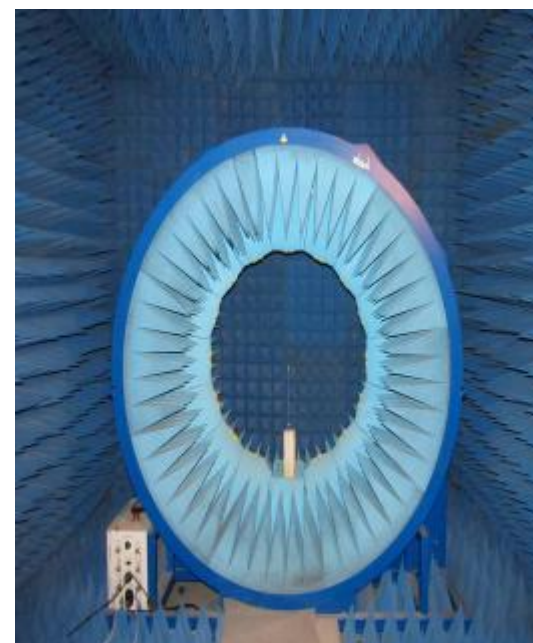
历史报告记录

Revision History

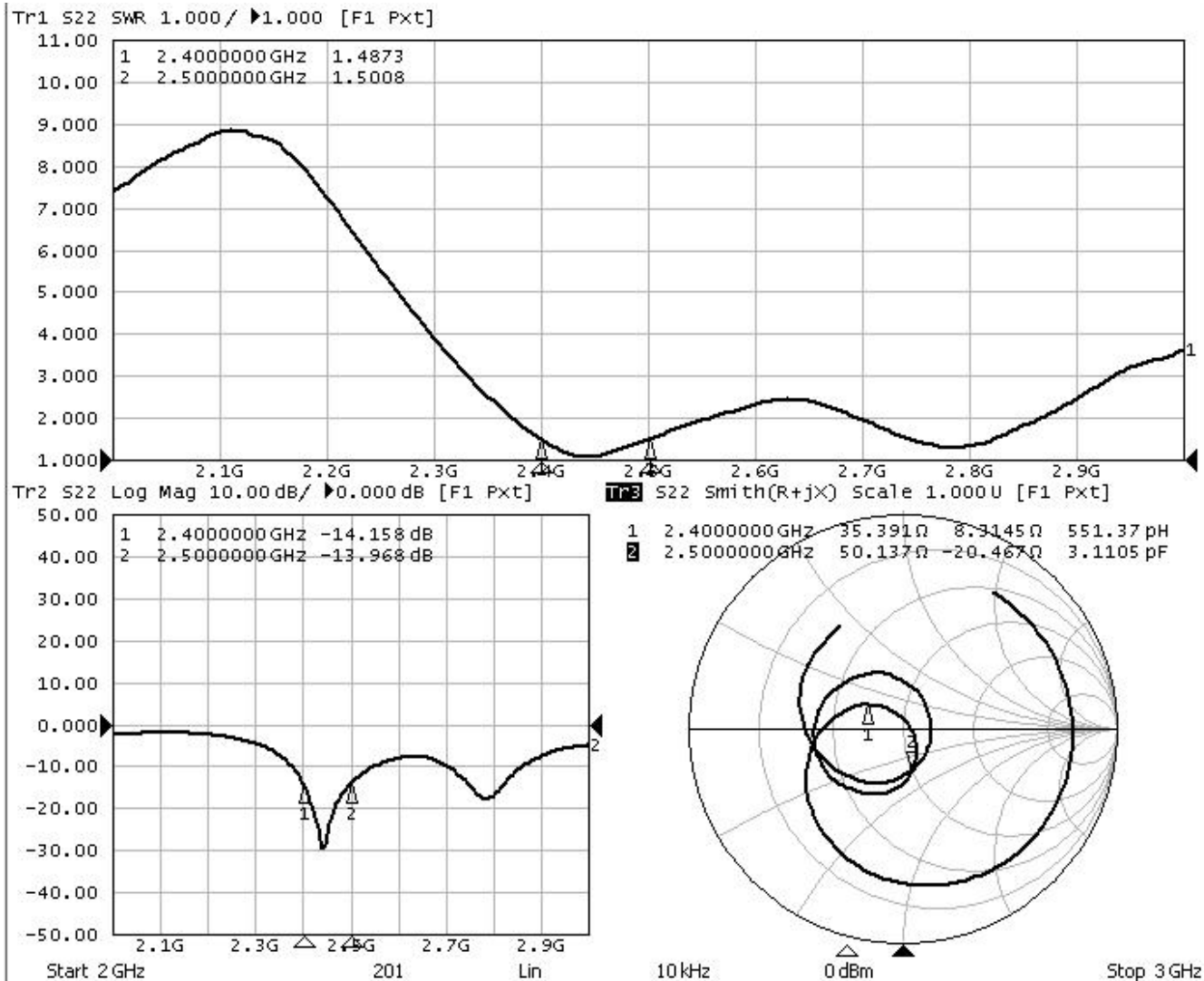
日期 (Date)	版本 (Revision)	负责人 (Author)	更改原因 (Description of changes)
2024-03-21	A	黄文华	样机初版报告

Test Item & Equipment

List	Test Item	Equipment	
1.S Parameter	VSWR, Return Loss	Agilent VNA	
2.Active Test	TRP, TIS	Agilent 8960	RayZone1800
3.Passive Test	Gain, Efficiency, Pattern	Agilent E5071C	



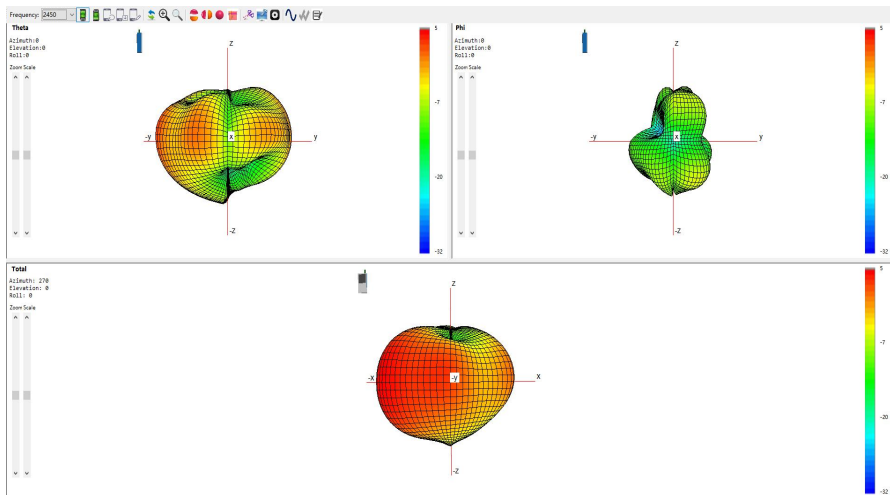
天线VSWR



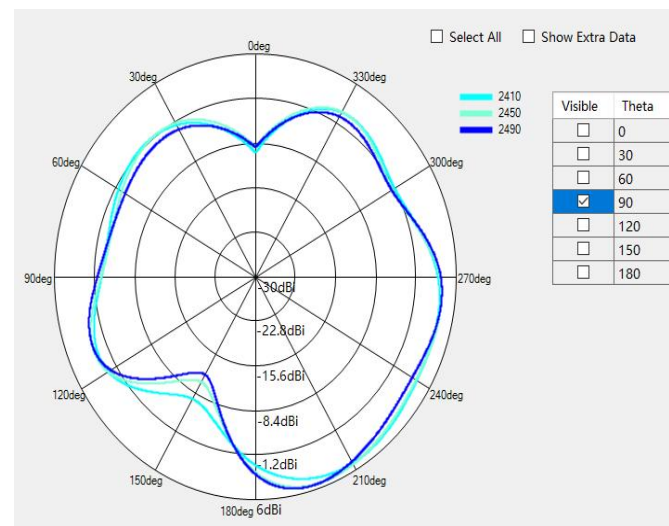
天线无源数据:

Freq (MHz)	Gain	Efficiency (%)
2400	4.72	57.74
2410	4.78	57.64
2420	4.77	57.01
2430	4.81	56.98
2440	4.94	57.74
2450	4.97	58.9
2460	4.84	58.18
2470	4.74	57.77
2480	4.69	58.24
2490	4.48	56.58
2500	4.16	54.66

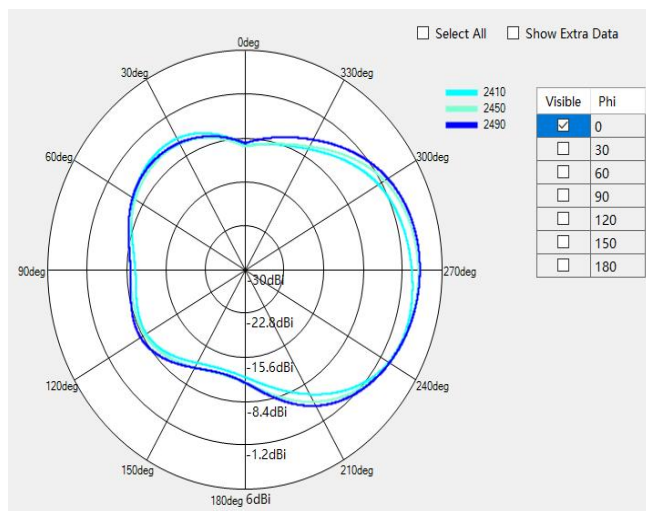
天线2D/3D方向图@2450MHz



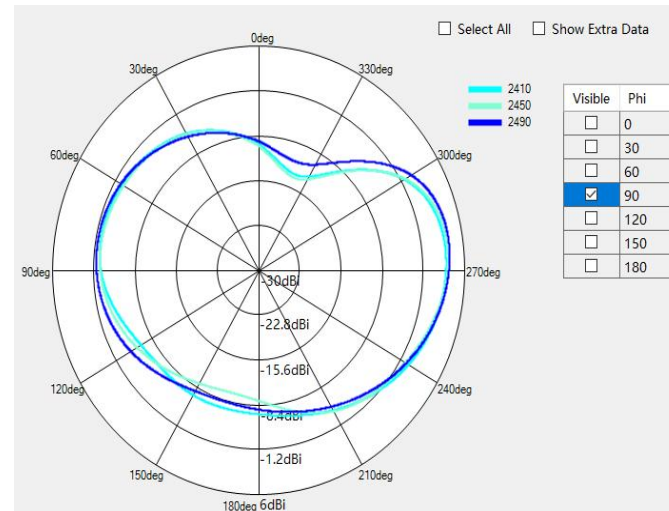
3D



H



E1



E2

总结

- 1、主板天线模块靠近高数据传输的端口，可能对天线存在影响，建议天线模块远离高数据传输的端口、电源等电路；
- 2、报告数据由于治具的原因会存在一定的误差，数据仅供参考。