



深圳市星旺达通信有限公司

Star Wanda Communications

领先的一站式射频服务商

Antenna Specification

RF Engineer: Su Gong



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- 2 版本摘要 Version
- 3 无源数据 Antenna power-down
- 4 测试环境&天线安装位置 Test environment and antenna
- 5 总结&附件说明 Summary & Attachment



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项目调试简介Project Brief Introduction

Antenna Model	A36				
Board Type	FPC				
Frequency Band and Antenna Material	Main Antenna	Communication	Material	Antenna Type	Matching modification
		WIFI/BT	FPC Antenna	IF	N
Frequency Band	2400MHz~2500MHz;				



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版本摘要 Version

Report Version	Report Date	Problems Solved in This Antenna R&D
V1.0	2026-05-15	Antenna Debugging Report
V1.1	2026-07-30	Antenna Debugging Report



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项目样机展示
Prototype



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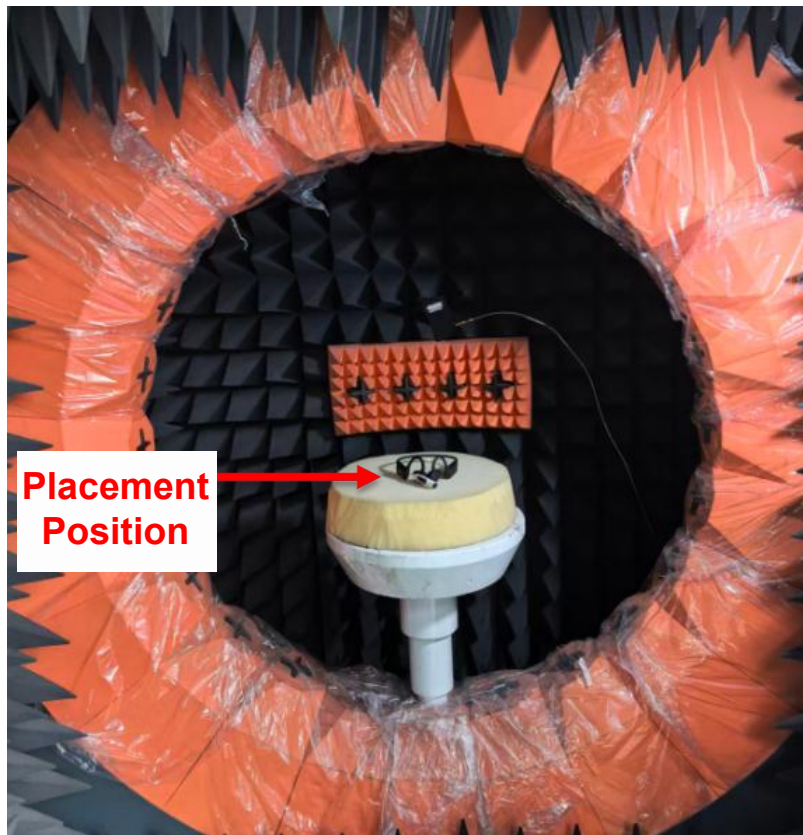


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OTA Active Test Environment



Device Placement Schematic

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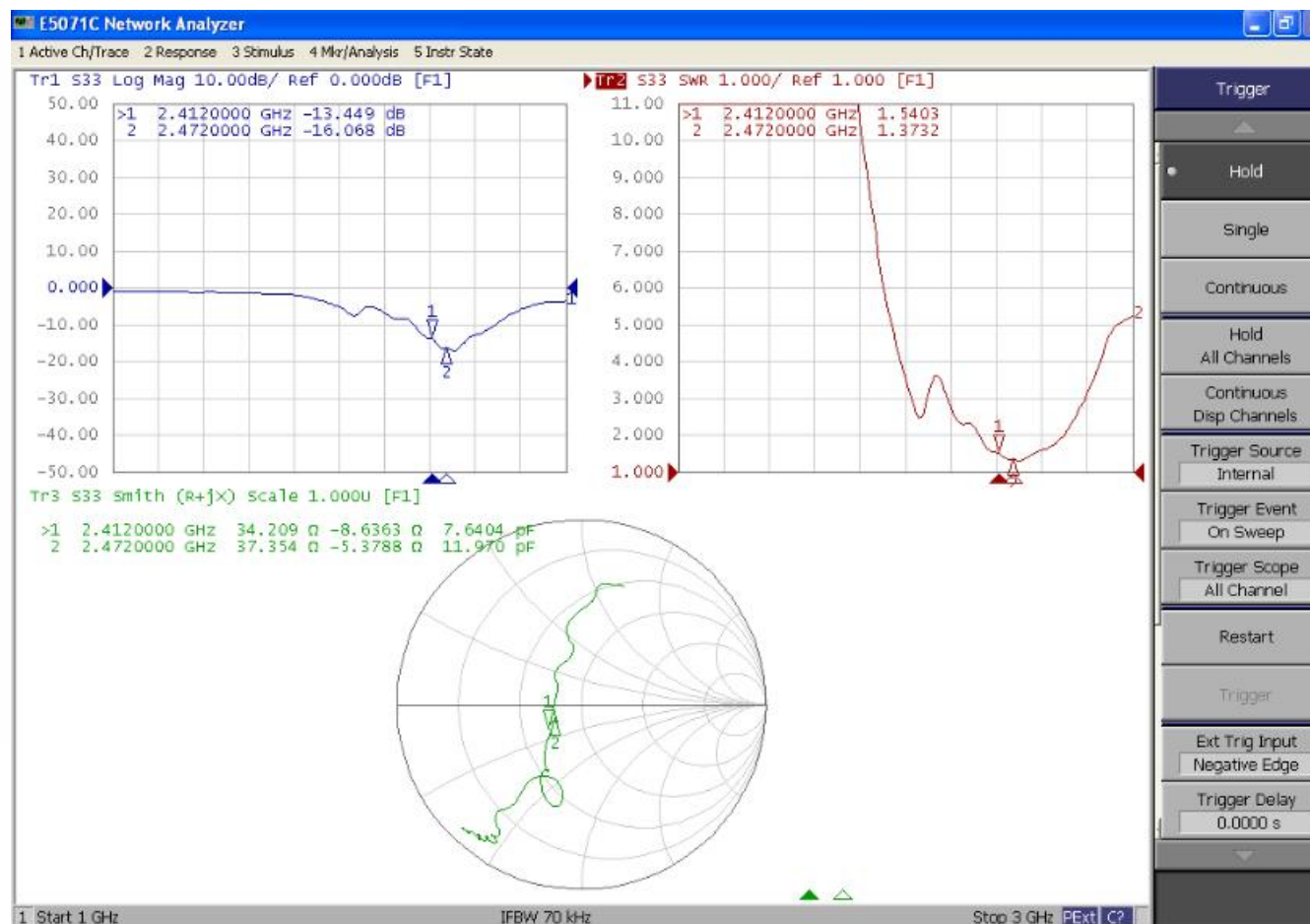


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S11Test Data WIFI



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OTA Passive OTA Passive testing -WiFi

Freq (MHz)	Effi (%)	Gain (dBi)
2400	37.52	-1.61
2410	38.11	-1.59
2420	34.2	-1.66
2430	36.21	-1.61
2440	36.75	-1.63
2450	37.56	-1.68
2460	40.11	-1.81
2470	38	-1.77
2480	39.49	-1.55
2490	41.73	-1.44
2500	42.9	-1.34



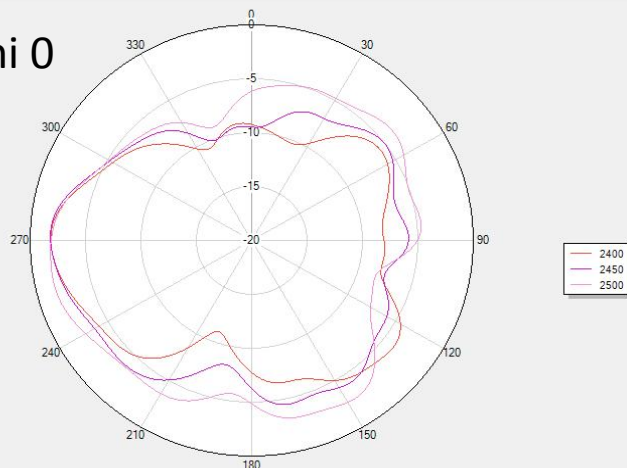
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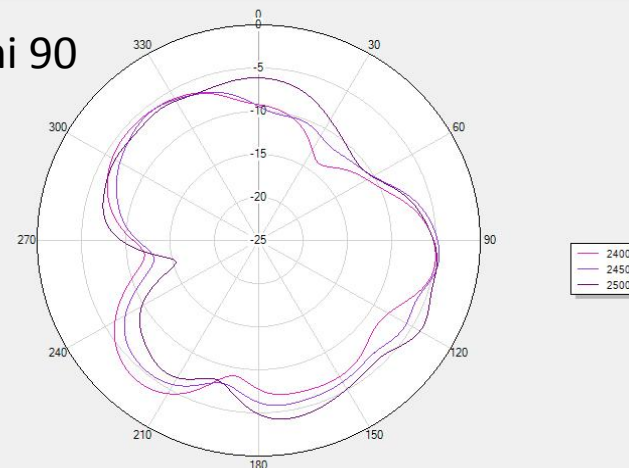
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WIFI 2D Radiation Pattern

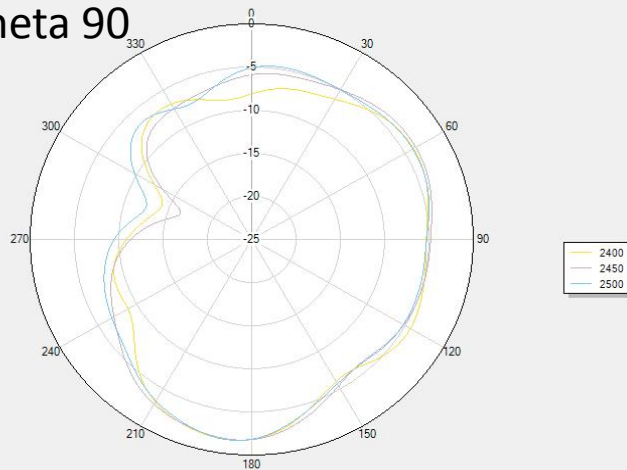
Phi 0



Phi 90



Theta 90





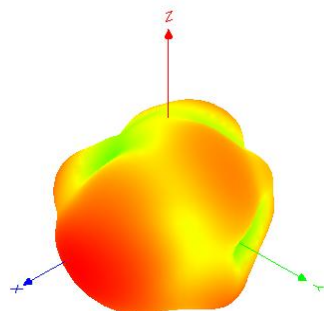
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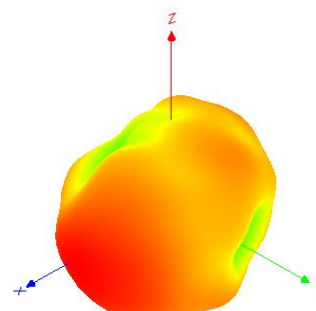
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WIFI 3D Radiation Pattern

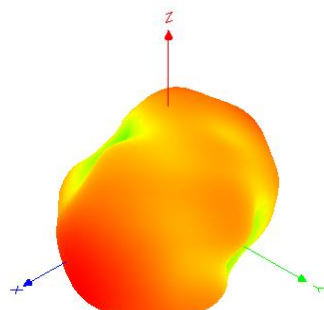
Frequency (MHz) : 2400



Frequency (MHz) : 2450



Frequency (MHz) : 2500





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OTA Active Test OTA active test-WIFI

BAND	Channel	TRP	TIS
WIFI 11B (11Mbps)	1	15.4	-83.1
	7	15.39	-82.85
	13	15.26	-83.56

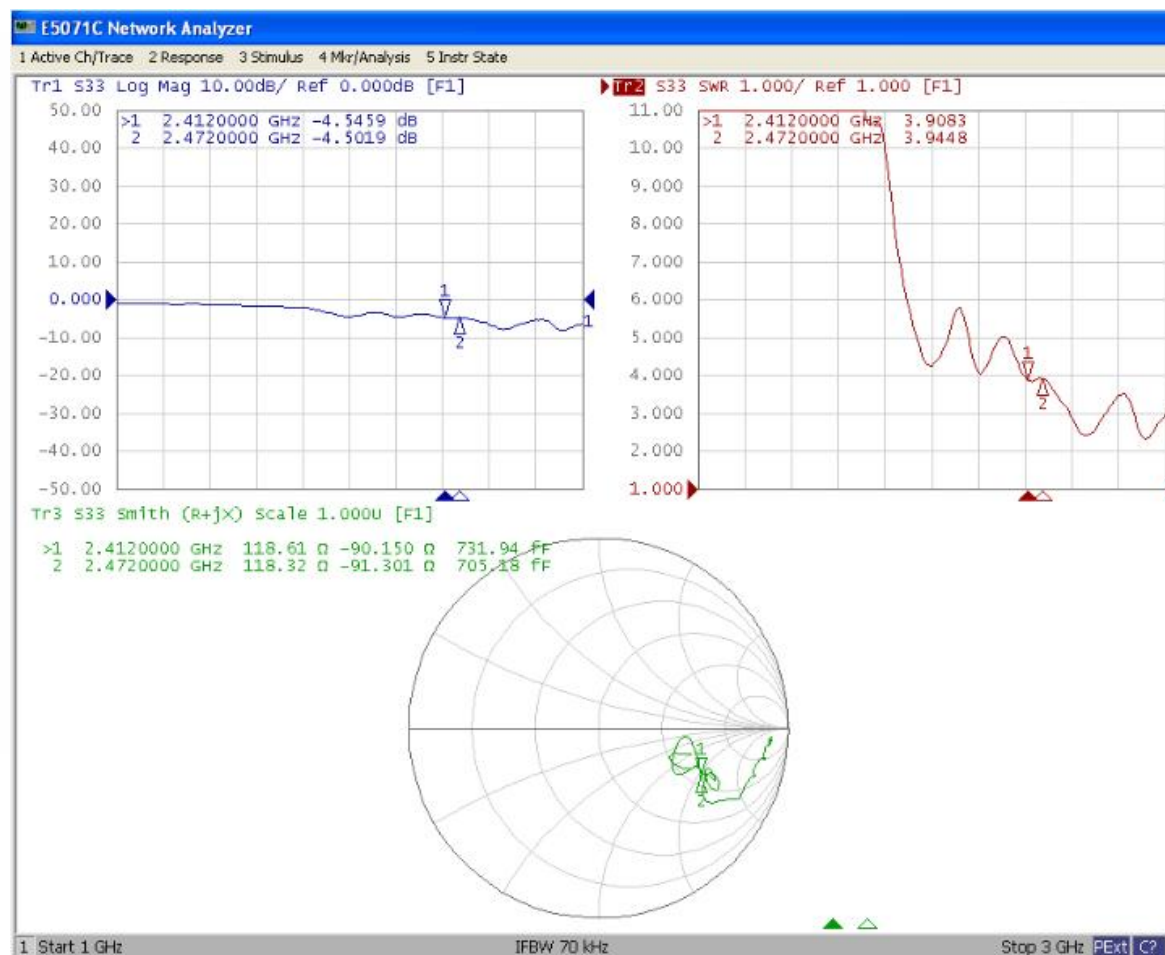


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S11 Test Data BT



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OTA Passive OTA Passive testing -BT

Freq (MHz)	Effi (%)	Gain (dBi)
2400	33.13	1.34
2410	33.89	1.14
2420	30.65	0.89
2430	33.04	0.8
2440	35.5	0.7
2450	36.65	0.55
2460	35.22	0.37
2470	35.29	0.35
2480	39.35	0.46
2490	38.87	0.36
2500	37.54	0.16



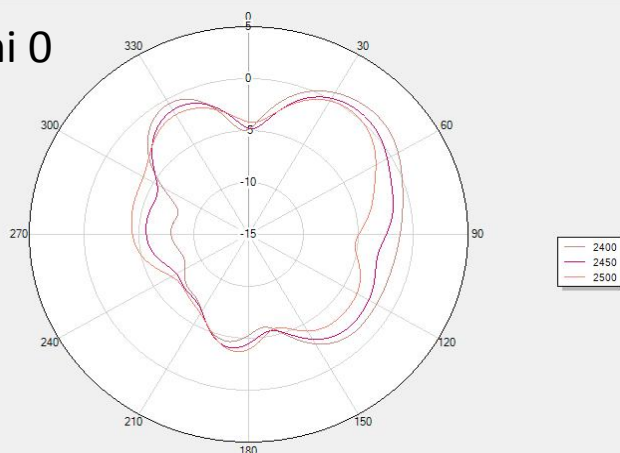
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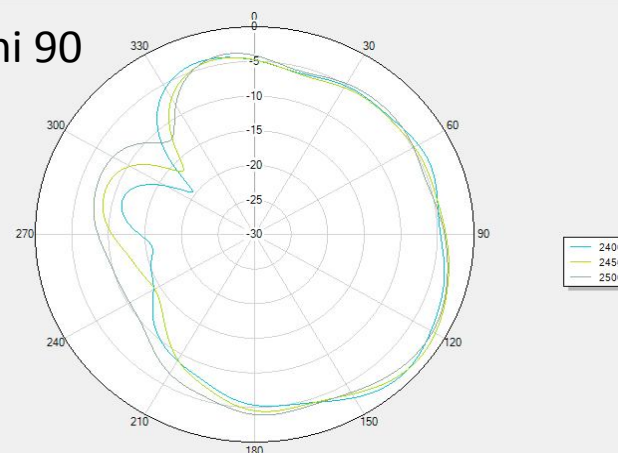
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BT 2D Radiation Pattern

Phi 0



Phi 90



Theta 90





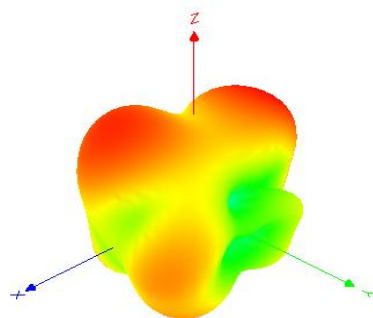
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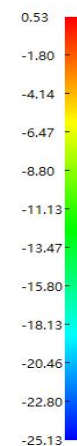
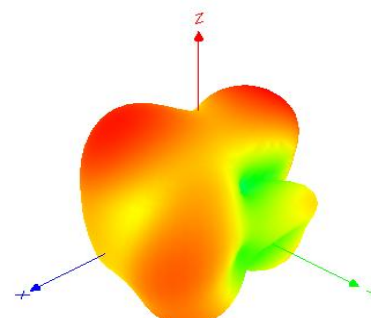
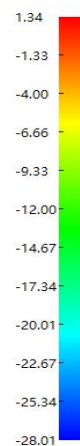
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BT 3D Radiation Pattern

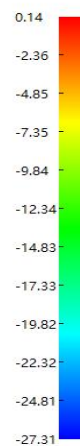
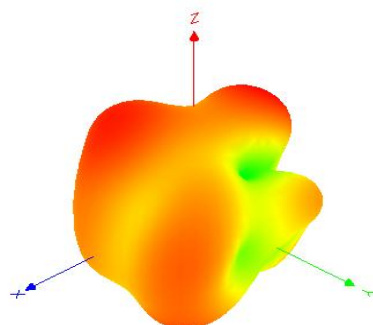
Frequency (MHz) : 2400



Frequency (MHz) : 2450



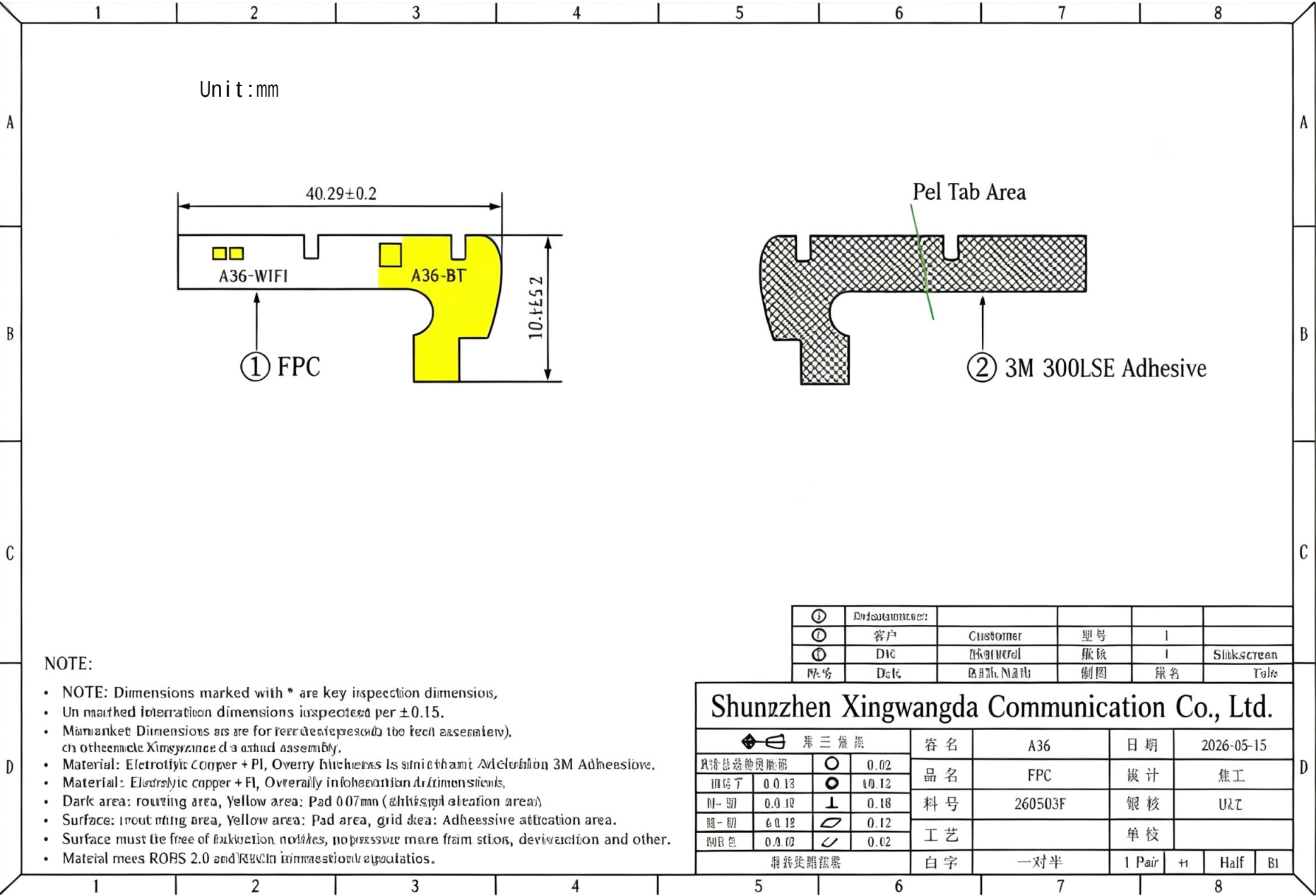
Frequency (MHz) : 2500



Antenna Location Diagram



Antenna Dimension Drawing





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Thanks

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