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Antenna Performance Test Report

Customer name	Xiangmingda	Radio frequency engi-neer	Xiao Gong
Project name	ET491	Construction engineer	Huang Zhenming
Antenna band	BT		
Report Version	Time	Content Summary	
V1. 0	2025-12-10	Antenna performance test results	

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Test Report Directory

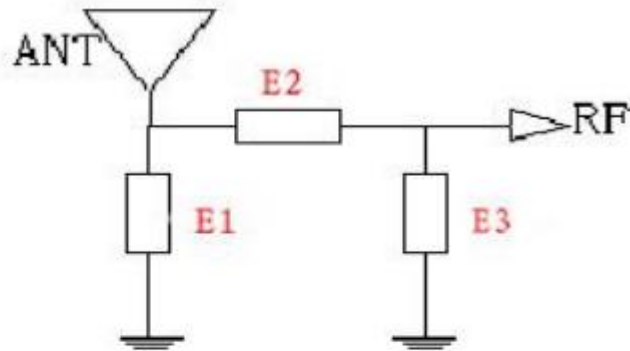
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I. Full Machine Rendering



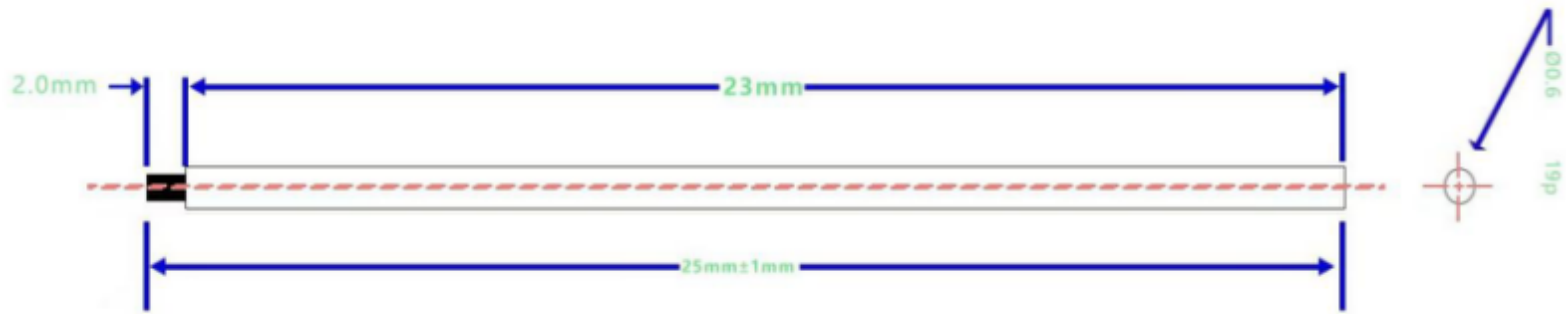
II. Matching Circuits



主板原匹配，未做更改

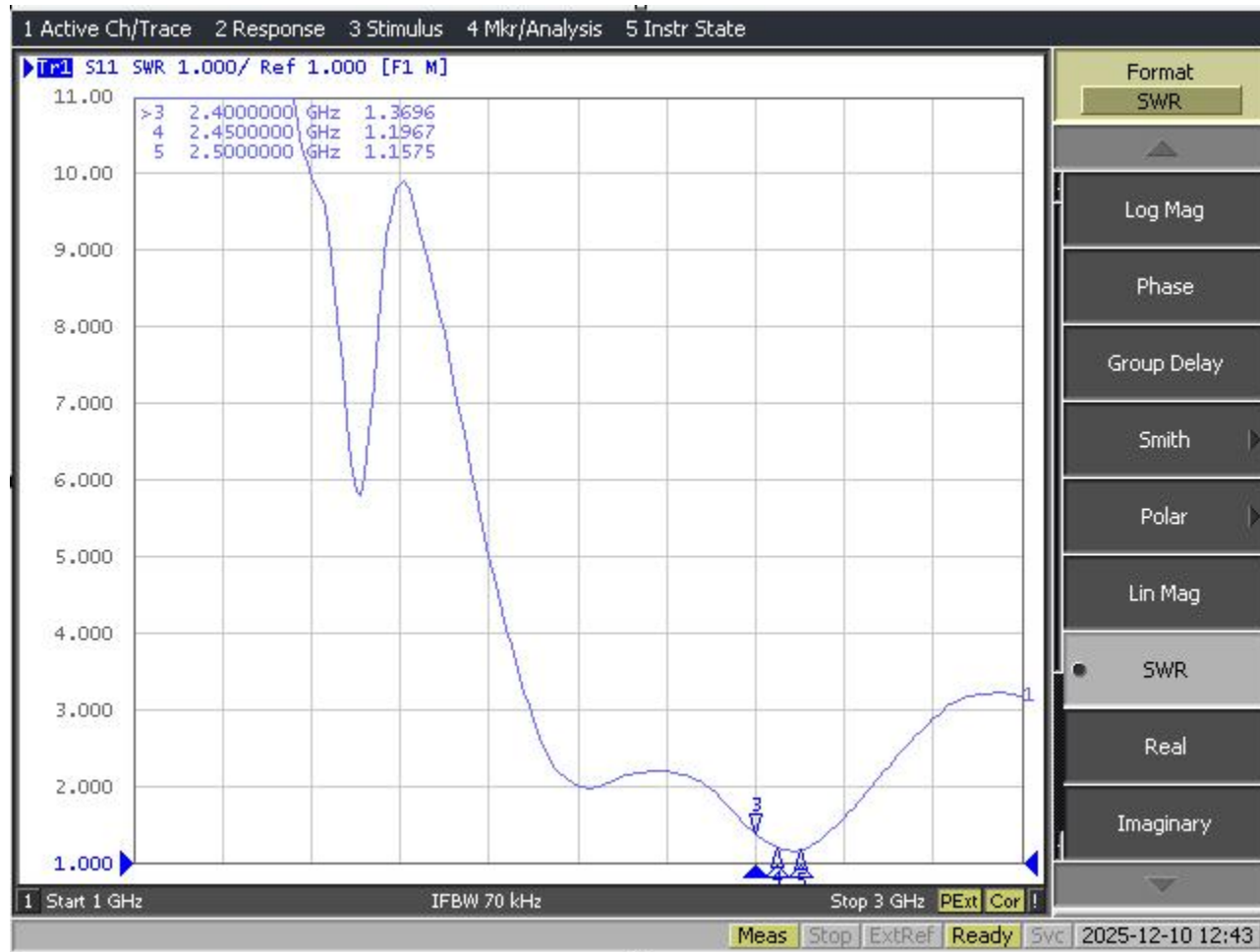
III . Antenna Specification

ProductName : 2.4G antenna length 25mm Red



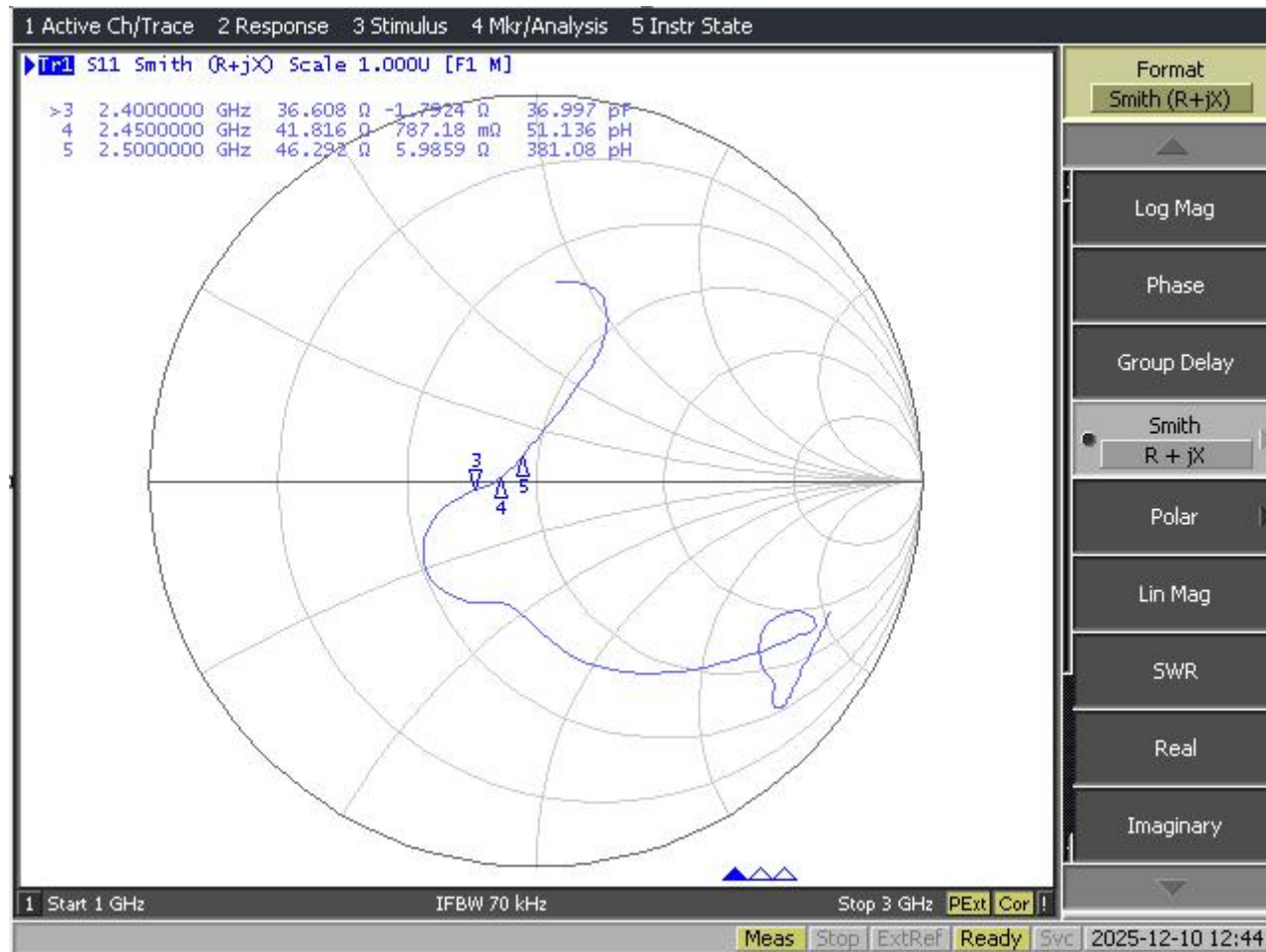
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IV . Antenna Passive Standing Wave Patt-ern



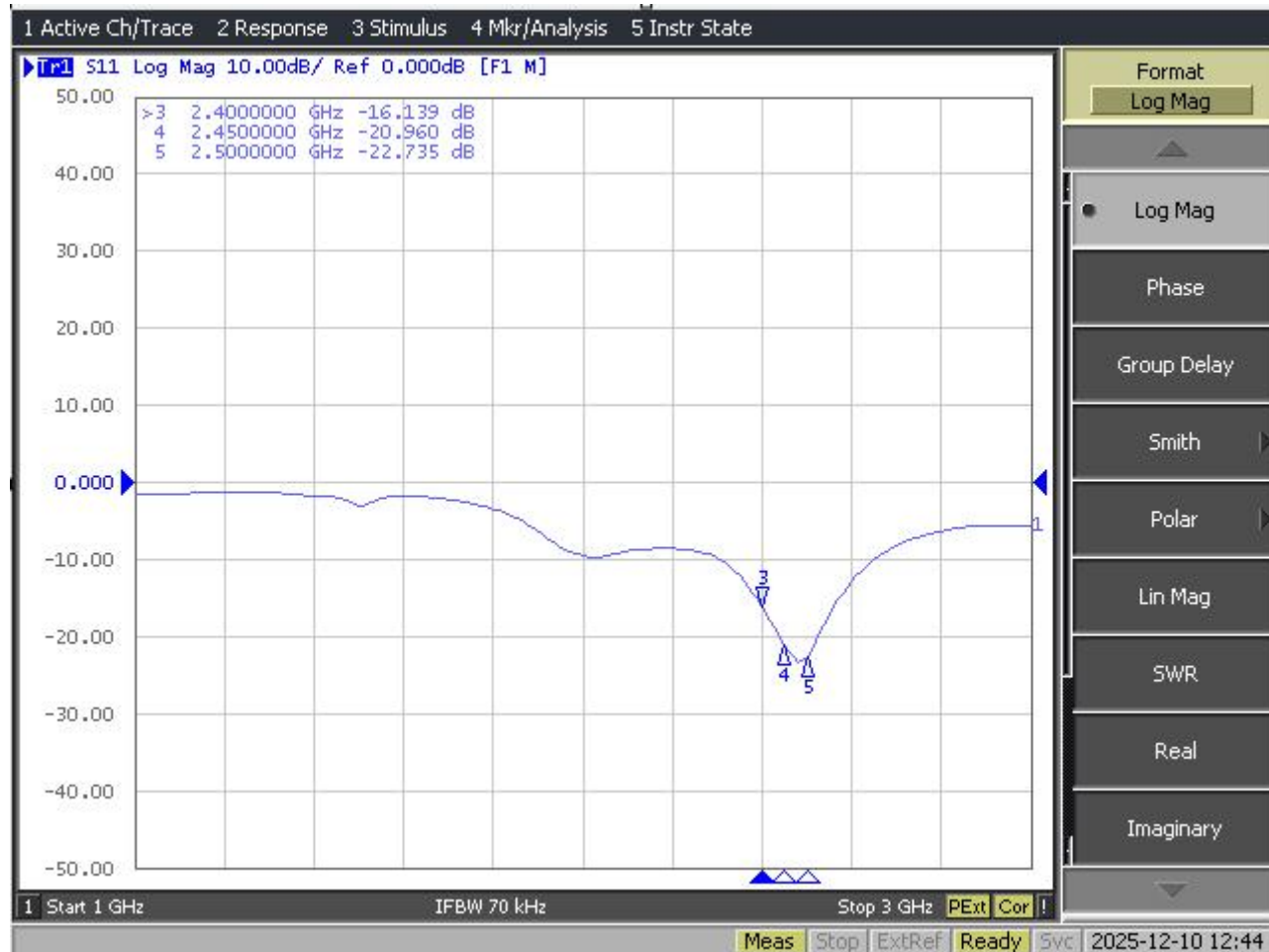
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V . Antenna Passive Smith Circle Diagram



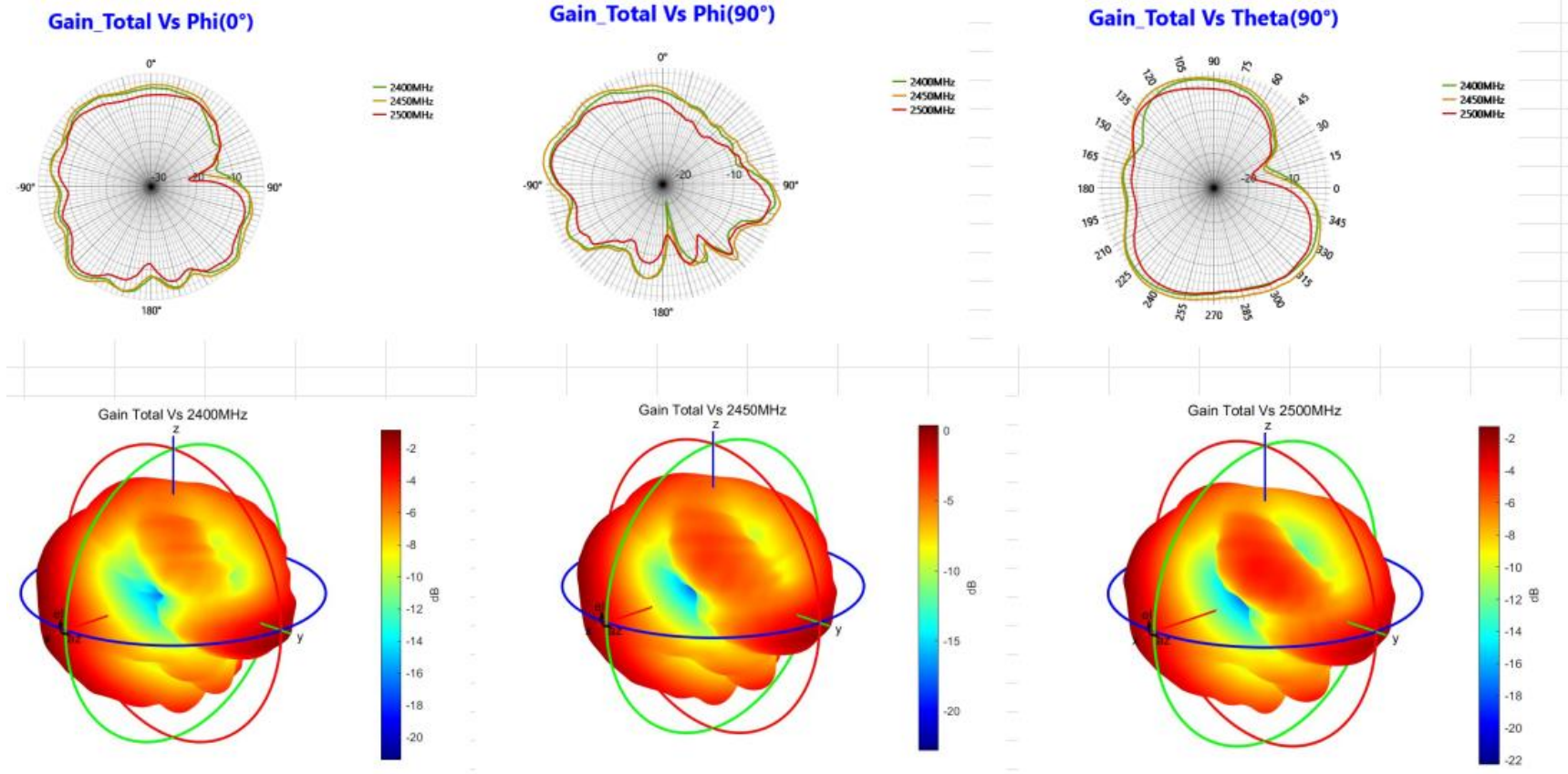
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VI. Antenna Passive Return Loss Diagram



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VII. Antenna Passive Apple Diagram



VIII. Passive Gain Efficiency of Antenna

Freq (MHz)	Effi (%)	Gain (dBi)
2400	31.74	-0.93
2410	33.94	-0.23
2420	34.01	-0.11
2430	34.94	0.34
2440	34.08	0.05
2450	31.63	-1.02
2460	32.12	-0.88
2470	32.64	-0.64
2480	34.8	0.21
2490	37.28	0.88
2500	35.44	0.21