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Antenna performance test report

customer name	Xiang Mingda	Radio frequency engineer	Xiao Qiang
project name	ET585	construction engineer	Huang Zhenming
Radio frequency band	BT (2400-2500MHZ)		
Report version	time	Content summary	
V2.0	2025-7-22	Antenna performance test report	

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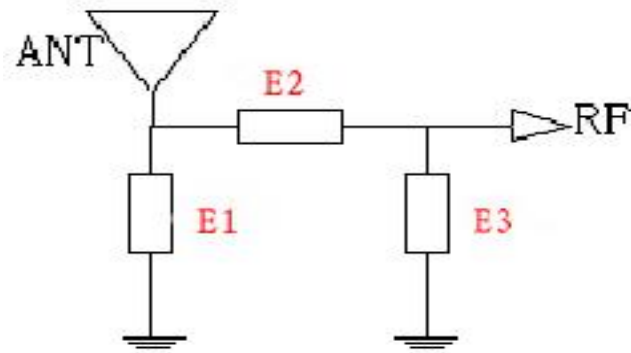
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I Whole Machine Effect Diagram

Front and back of the machine, as shown:



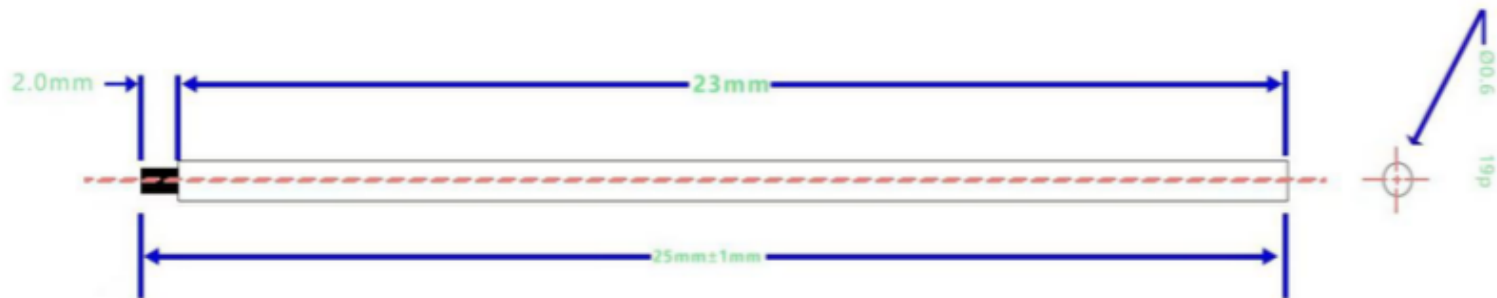
II Building-out Circuit



The motherboard is originally matched and unchanged

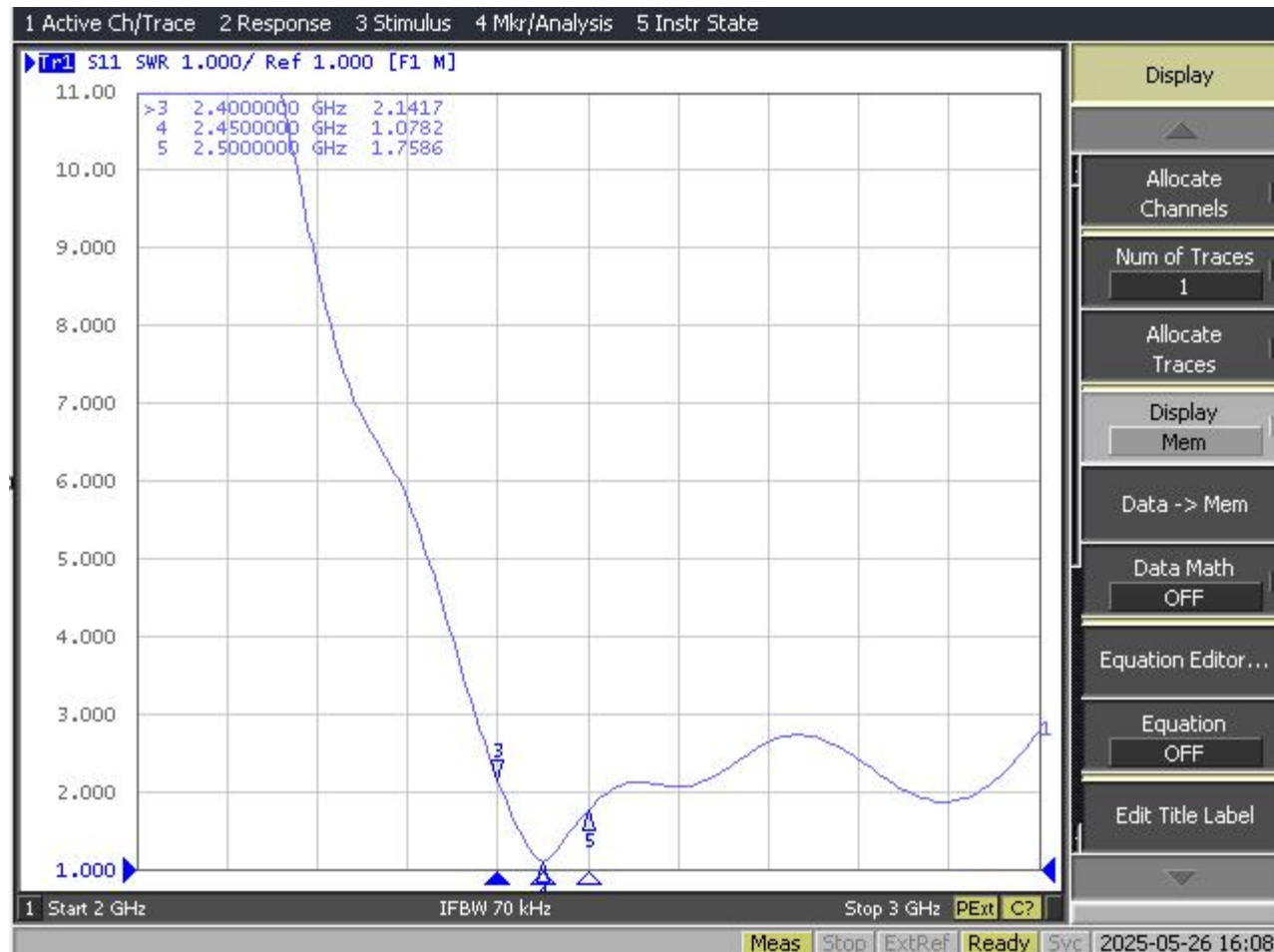
III. Antenna Specification

ProductName : 2.4G antenna length 25mm Red

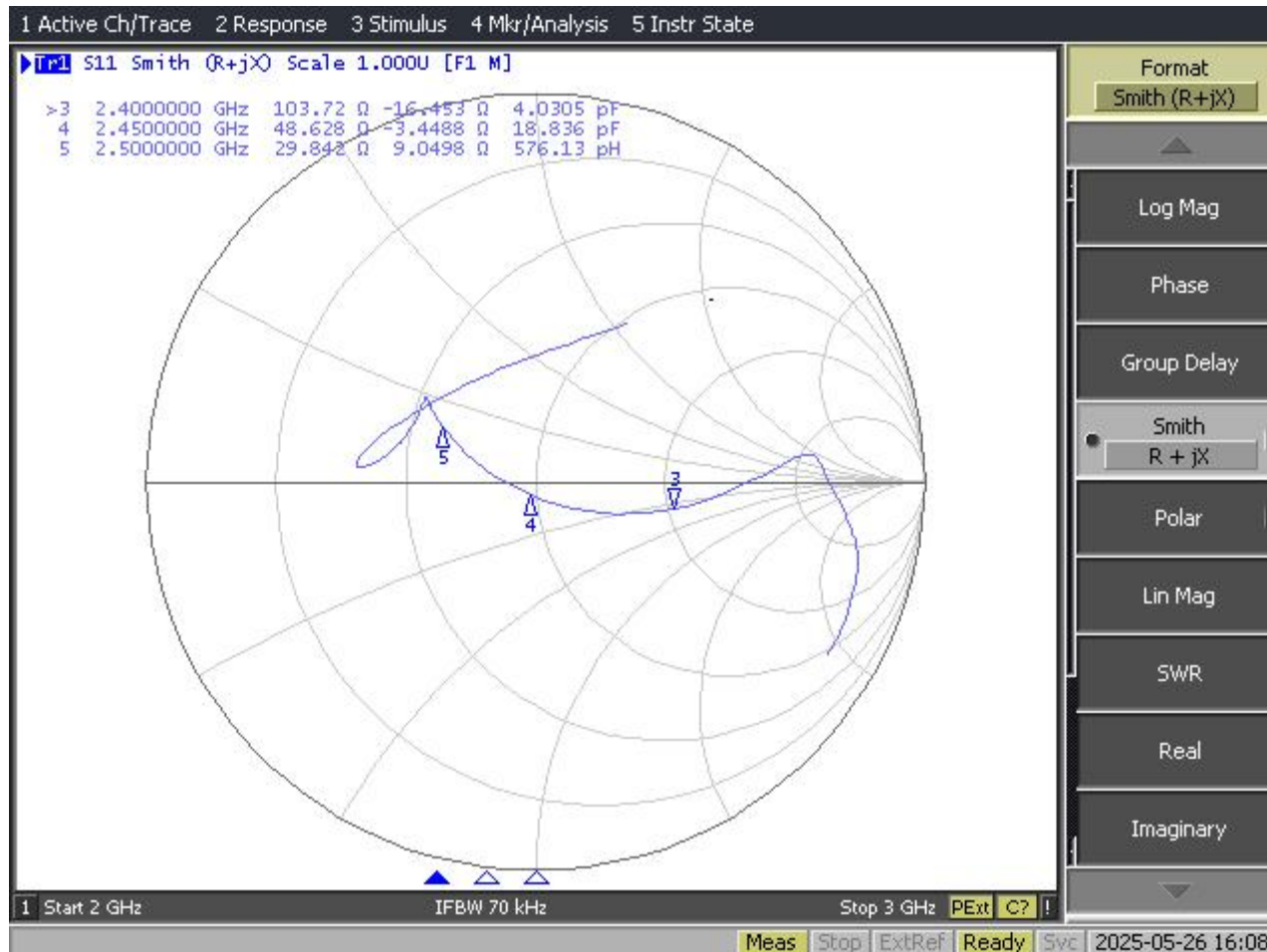


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IV. Antenna Passive Wave Diagram

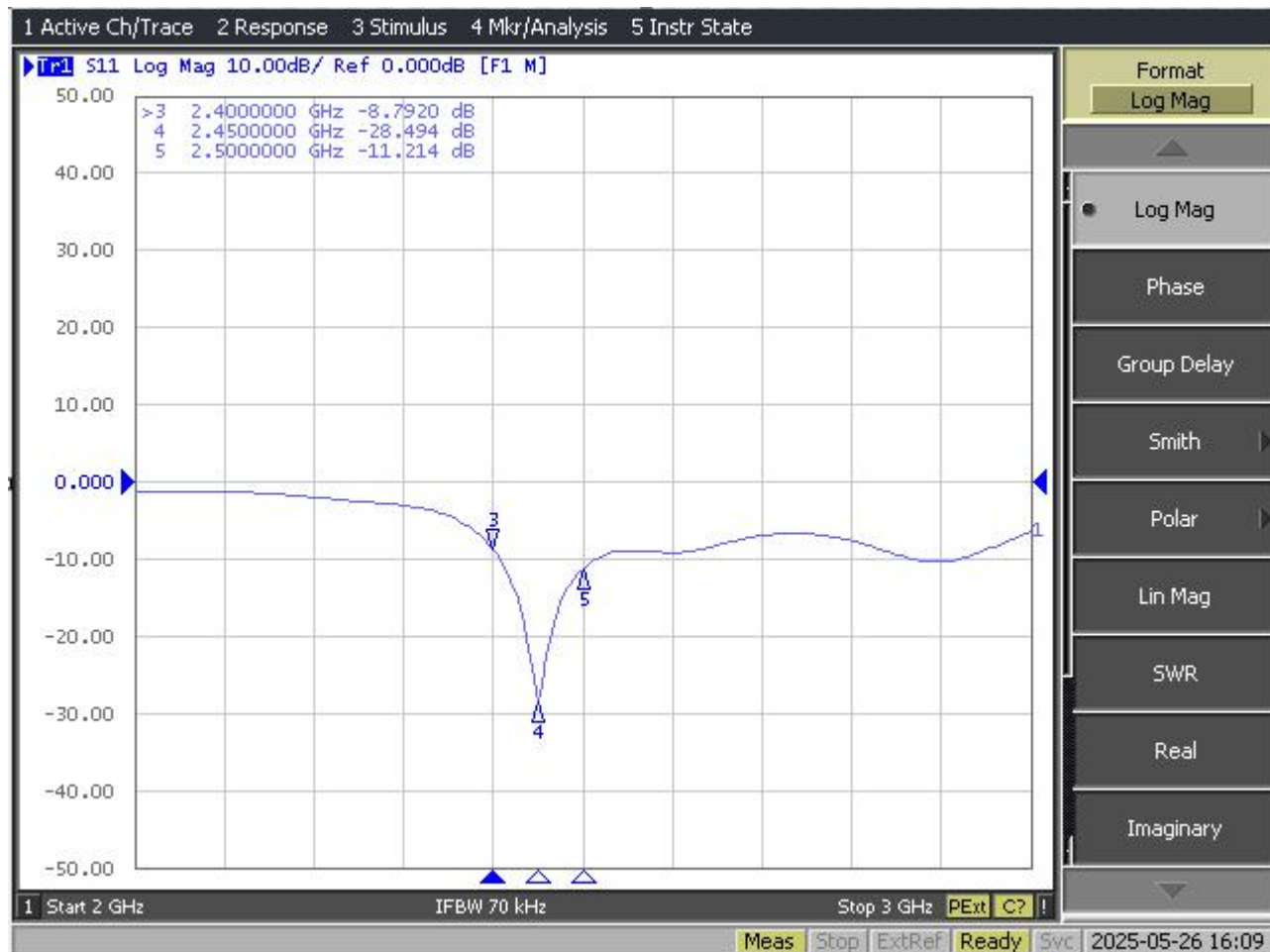


V . Antenna Passive Smithian Circle Diagram



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VI. Antenna Passive Return Loss



VII. Antenna Passive Gain Efficiency

Freq (MHz)	Effi (%)	Gain (dBi)
2400	35.39	2.58
2410	33.67	2.45
2420	33.78	2.37
2430	30.58	1.88
2440	27.29	1.37
2450	29.54	1.69
2460	30.47	1.61
2470	30.24	1.35
2480	33.27	1.52
2490	32.69	0.94
2500	28.78	0.21

VIII. Passive Apple Diagram of Antenna

