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H201 Antenna Test

date :

2025/6/3

The main purpose of this report is:

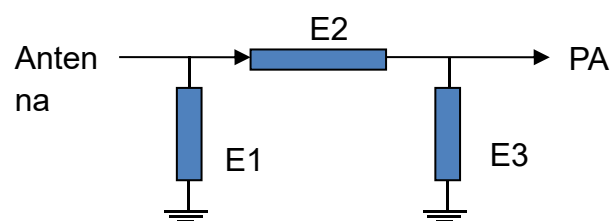
Report V1 New Project Debugging

The main conclusions of this report are as follows:

Antenna	Frequency range	Material quality	Performance requirement
BT	2400-2480MHz	FPC	

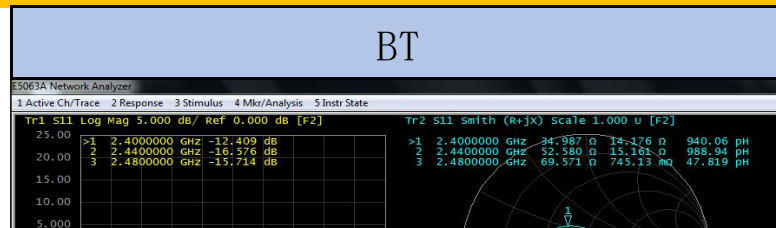
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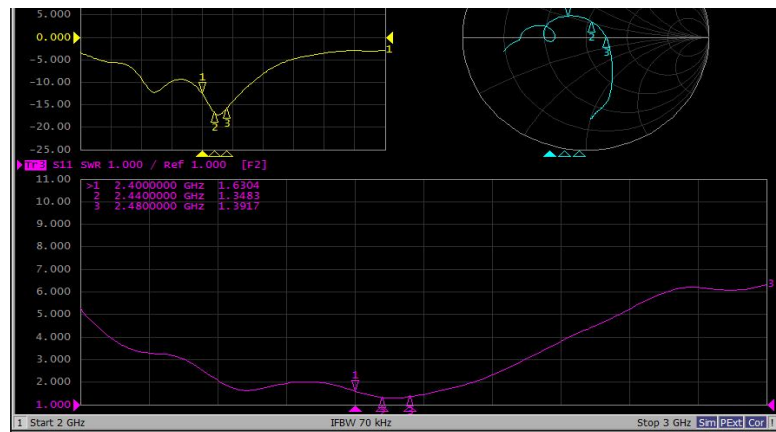
Antenna matching circuit:



BT	
Element	
E1(0402)	
E2(0402)	1.5nH
E3(0402)	1.2pF

Antenna passive S11 parameter test:





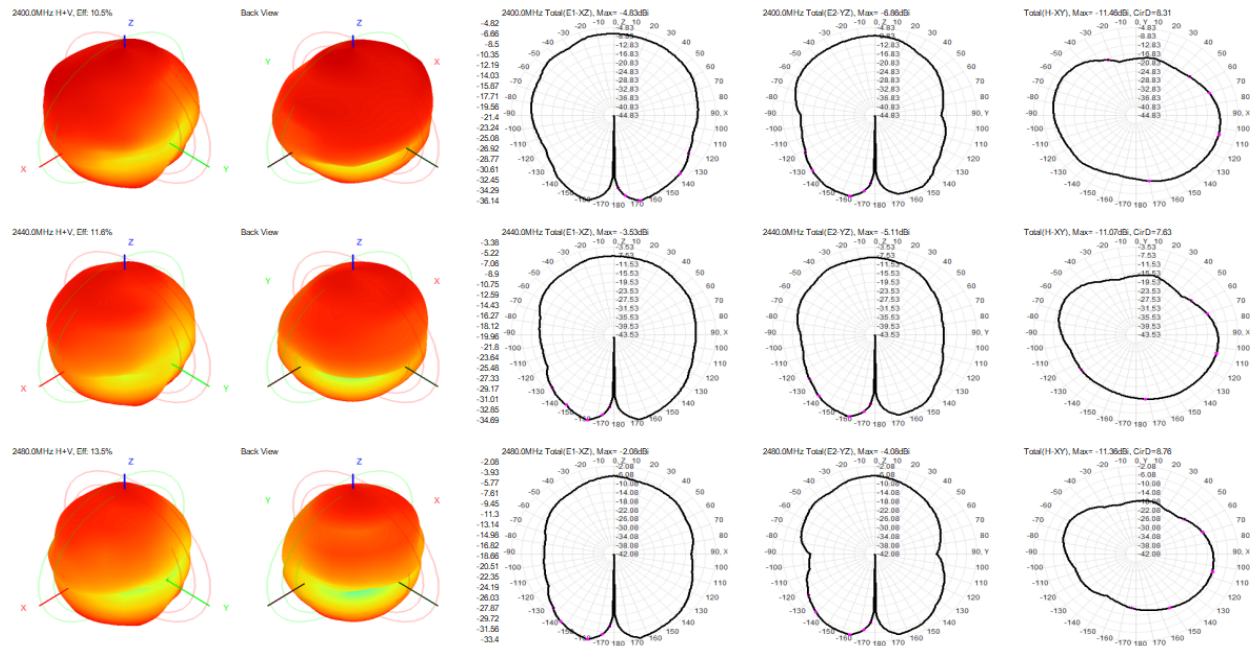
Freq (MHz)	2400	2440	2480
SWR	1.63	1.35	1.39
Log Mag	-12.41	-16.58	-15.71

Antenna passive efficiency and gain test:

BT		
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	-4.82	10.45
2410	-4.22	10.82
2420	-3.77	11.06
2430	-3.49	11.32
2440	-3.38	11.62

2450	-3.15	12.01
2460	-2.77	12.42
2470	-2.39	13.01
2480	-2.08	13.53
2490	-1.87	14.24
2500	-1.62	15.06

Antenna passive radiation pattern:



Antenna location and matching image:

