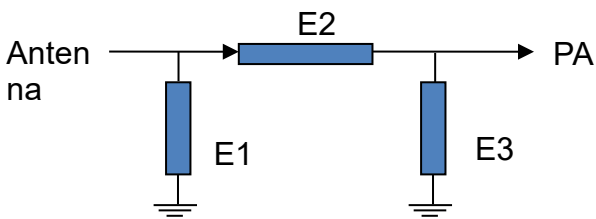


TAZ5000 BT Antenna spec.

DATE: 2025/2/16

Antenna	Frequency band	Fype	Supplier&address
BT	2400-2480MHz	PCB Antenna	Baikai Electronics Co., Ltd &Room 601, Building H, No. 1, Tailian Lane, Shuanglong Road,The 2nd Industrial zone, Xiaobian Community, Chang 'an Town, Dongguan city

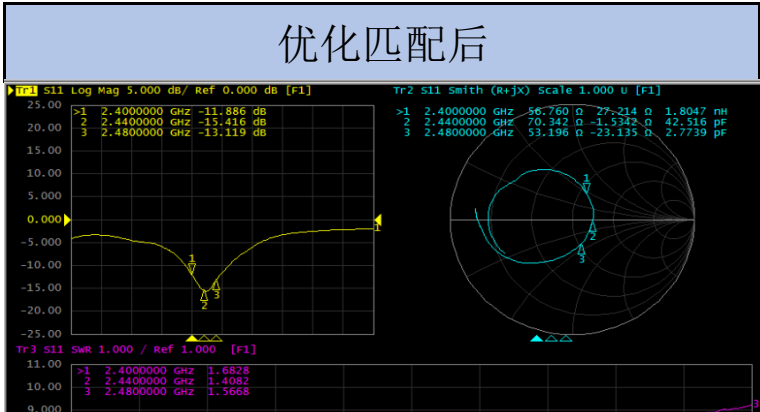
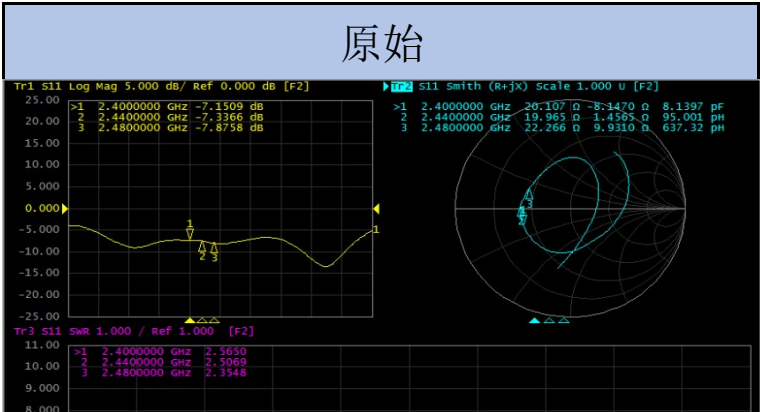
Antenna end matching circuit:

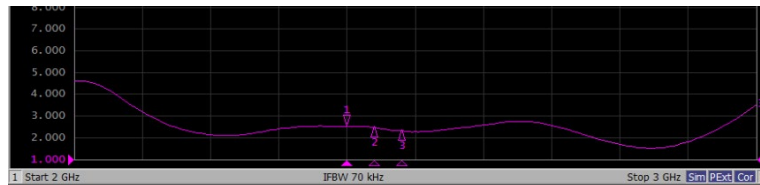


BT	
Element	
E1(0402)	原匹配
E2(0402)	原匹配
E3(0402)	原匹配

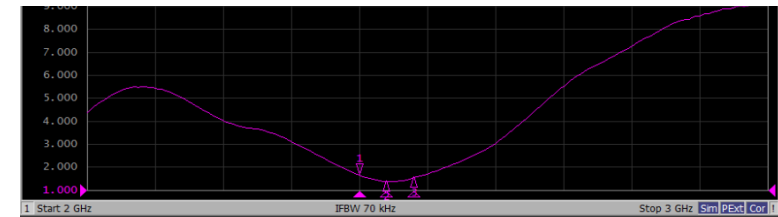
优化匹配	
Element	
E1(0402)	0.8pF
E2(0402)	2.0nH
E3(0402)	

Antenna passive S11 parameter test:





Freq (MHz)	2400	2440	2480
SWR	2.57	2.51	2.35
Log Mag	-7.15	-7.34	-7.88



Freq (MHz)	2400	2440	2480
SWR	1.68	1.41	1.57
Log Mag	-11.89	-15.42	-13.12

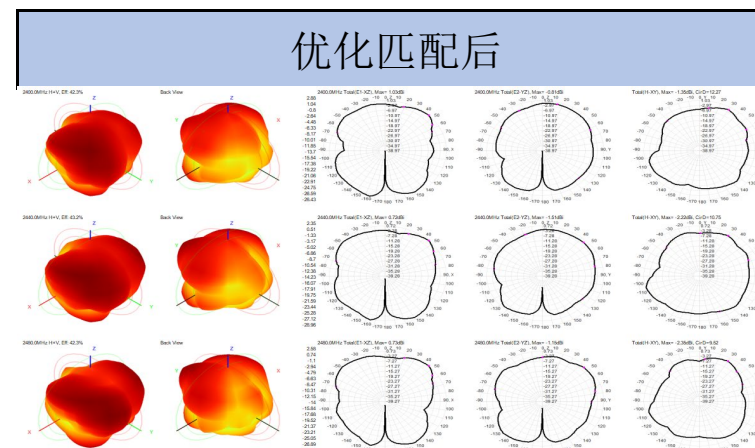
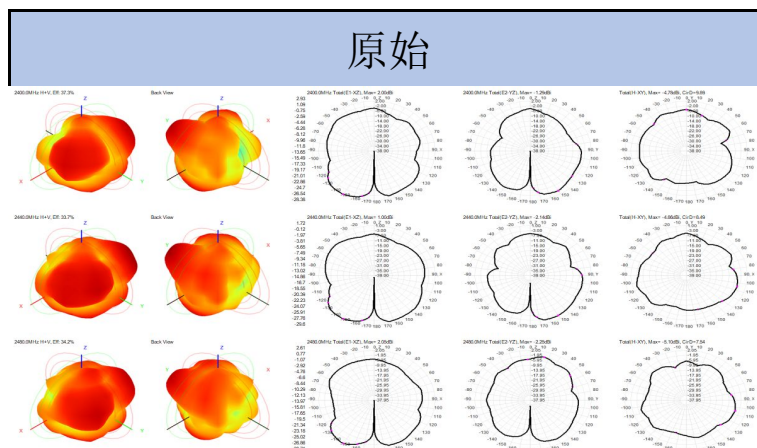
Antenna passive efficiency and gain test:

Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	2.88	42.33
2410	4.81	43.28
2420	2.71	43.64
2430	2.63	43.94
2440	2.35	43.21
2450	2.24	42.62
2460	2.36	42.66
2470	2.54	42.41
2480	2.58	42.29

2490	4.81	35.43
2500	3.18	36.40

2490	2.52	43.40
2500	2.57	43.63

Antenna passive radiation pattern:



Antenna OTA test:

原始		
Channels	TRP	TIS
0	0.34	-85.55
39	0.83	-84.03
78	0.5	-85.68

优化匹配后		
Channels	TRP	TIS
0	0.57	-89.11
39	0.57	-87.46
78	0.48	-87.32

Antenna position and matching pictures:

BT

