

Ren5000 Antenna Development Report V1

Project Description:

Customer requirement for this debugging: debugging passiver

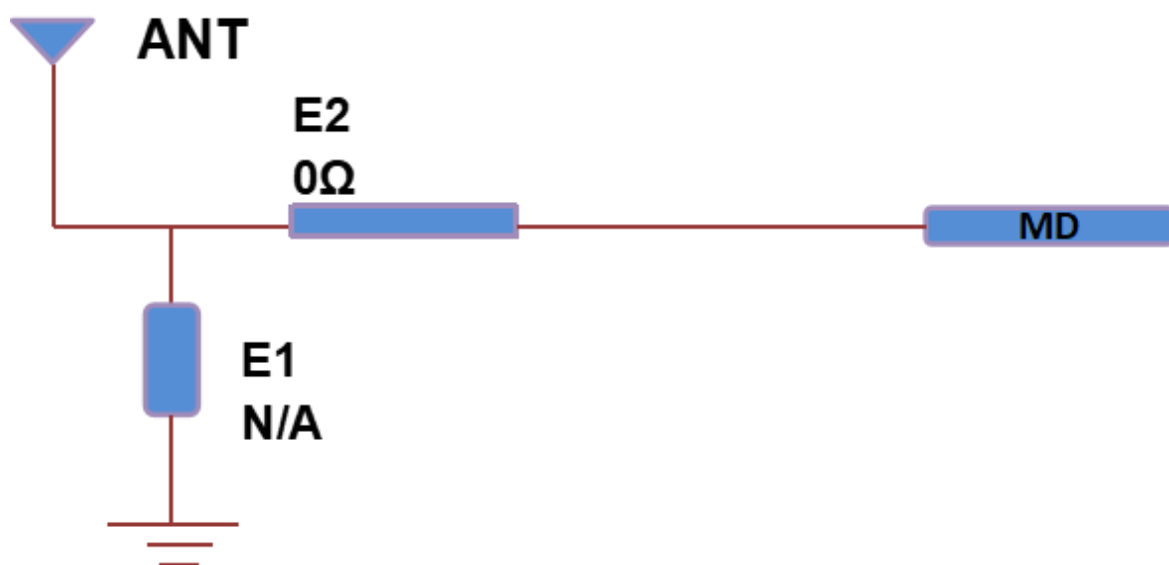
Software version: None

Working frequency:2.4G-5.8G

Key points of this report:

Conclusion of this debugging:

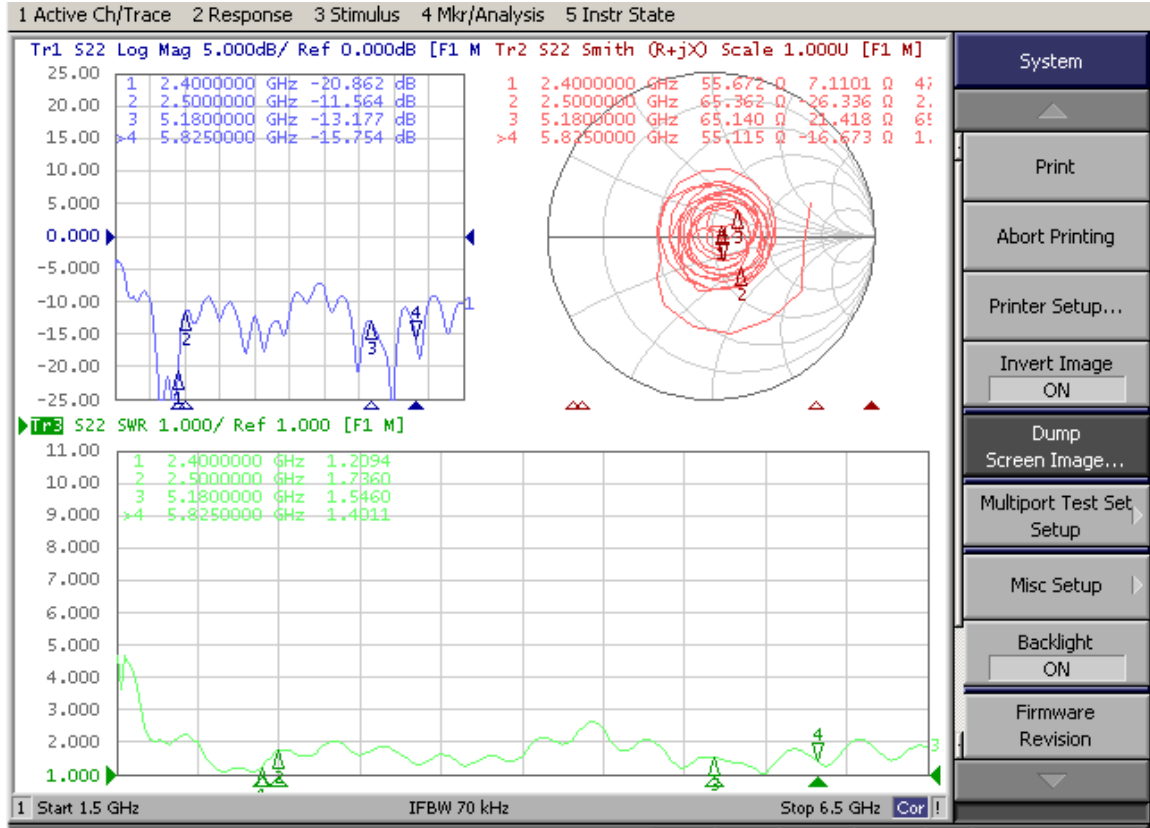
Schmatic diagram for modifying antenna matching circuit WIFI



Origina antenna matching circuit	
E1-(0201)	N/A
E2-(0201)	0 Ω

E3-(0201)	N/A
-----------	-----

Antenna Passive Test Date (S11)



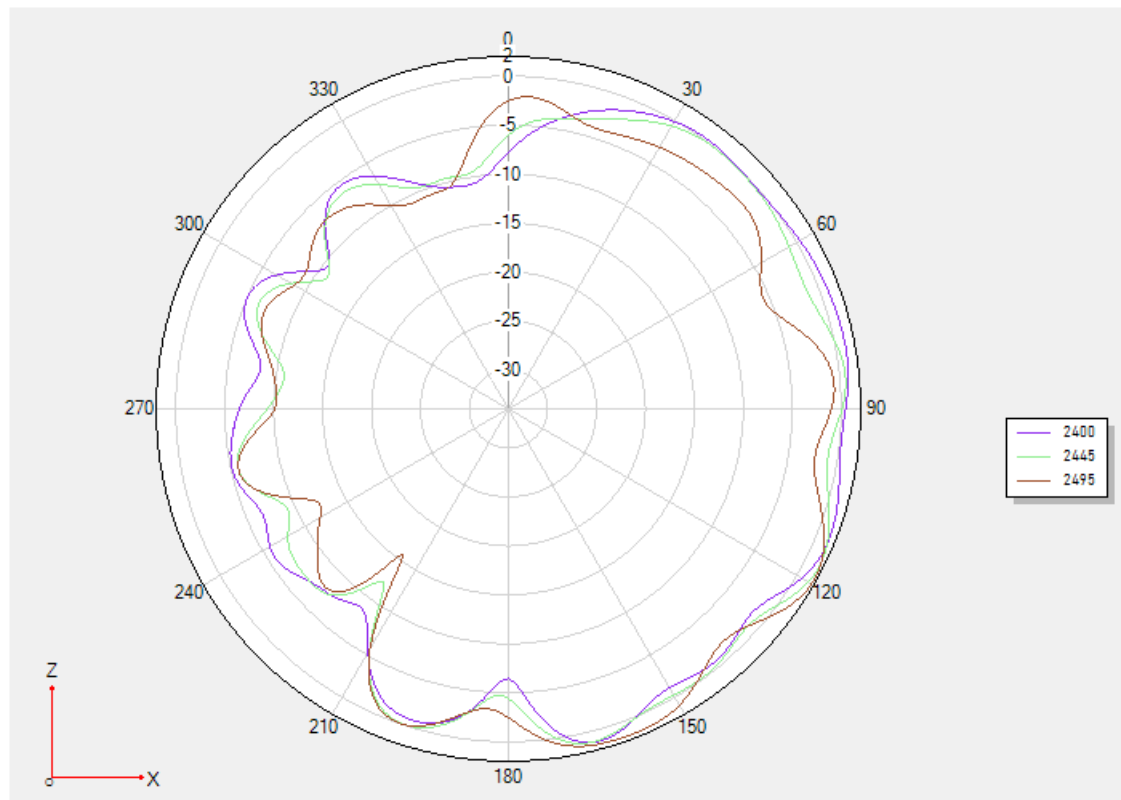
Antenna efficiency Gain test

WIFI					
Passive Test For WIFI-2.4G			Passive Test For WIFI-5G		
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	41.59	3.86	5000	46.67	1.6
2410	41.69	3.79	5100	45.81	2.29
2420	42.17	3.93	5200	48.08	2.03
2430	43.35	3.97	5300	48.19	1.58
2440	41.78	3.82	5400	47.42	2.29
2450	44.16	4.07	5500	47.86	1.87

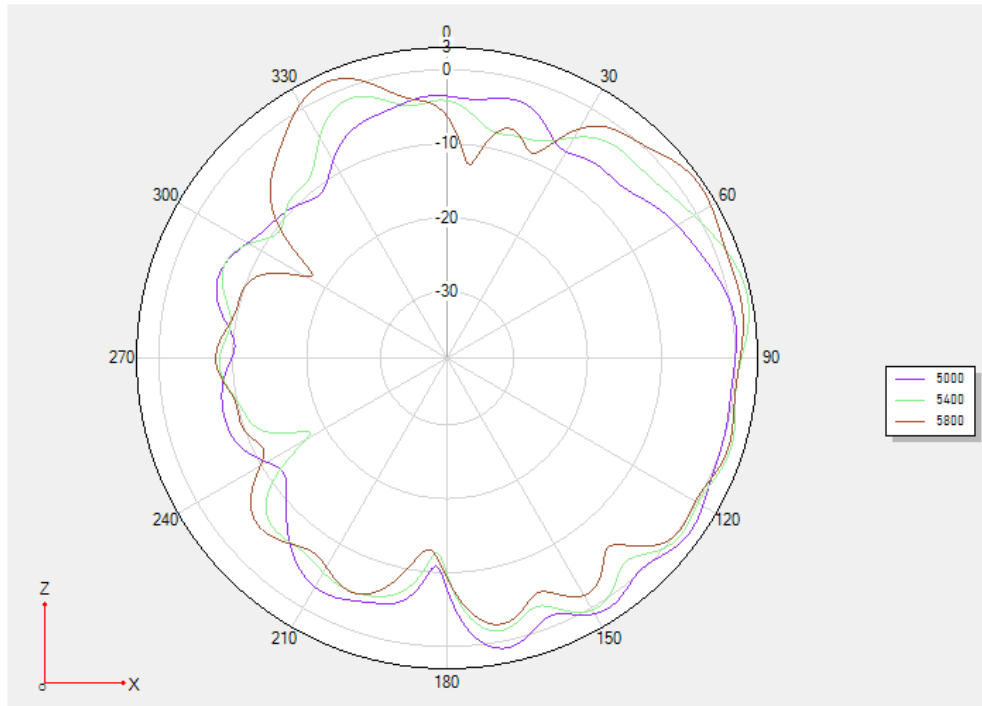
2460	41.69	3.92	5600	45.08	1.89
2470	43.75	3.44	5700	46.56	2.36
2480	42.36	3.52	5800	45.19	2.04

2D Directional pattern

2.4G

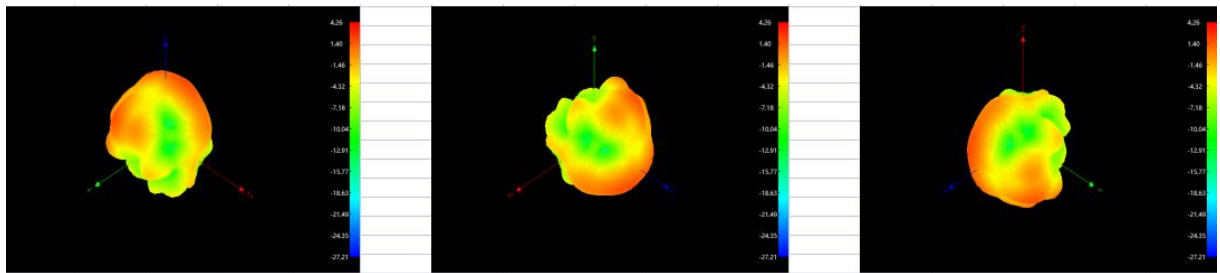


5G

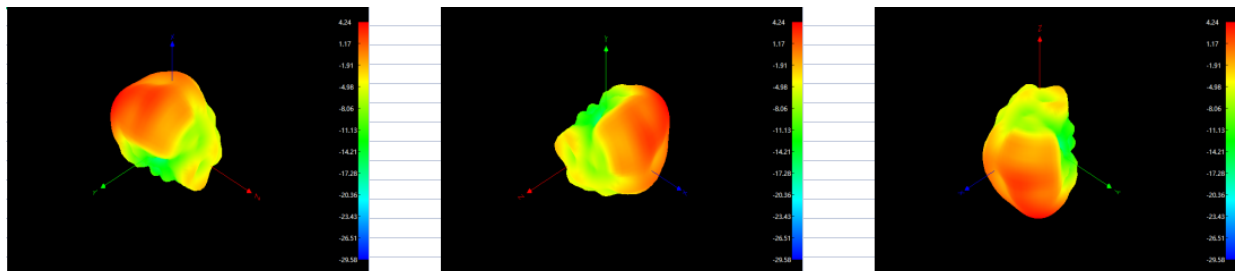


3D Directional pattern

2.4G



5.0G



Antenna location

