



永辅通科技（上海）有限公司

Forten Technology (ShangHai) Co.,LTD..

Antenna SPEC

Project Name: G5K61

Working Band: WIFI2.4G/WIFI5G

Forten BOM:

ANT Type	YFT P/N
WIFI Antenna	WIIFI

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Shanghai R & D center: Room 203, building 1, No. 3408, Xiupu Road, Pudong New Area, Shanghai.

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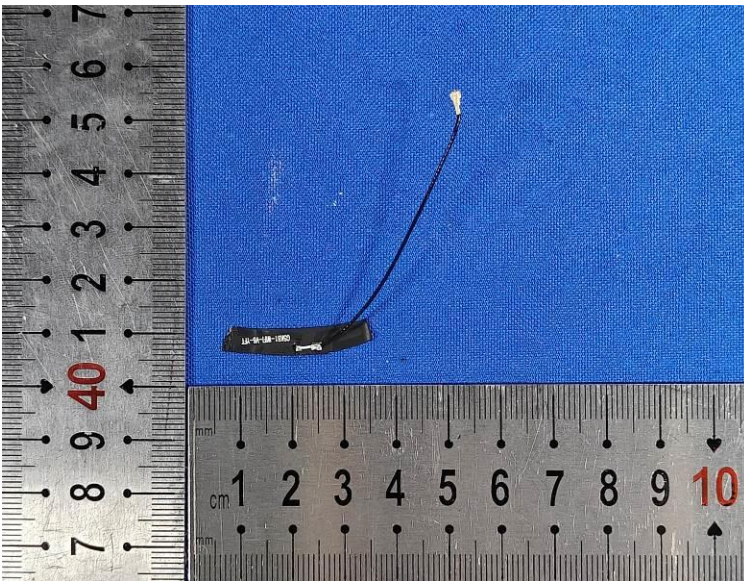
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1. PROJECT PICTURES

project pictures shown below:



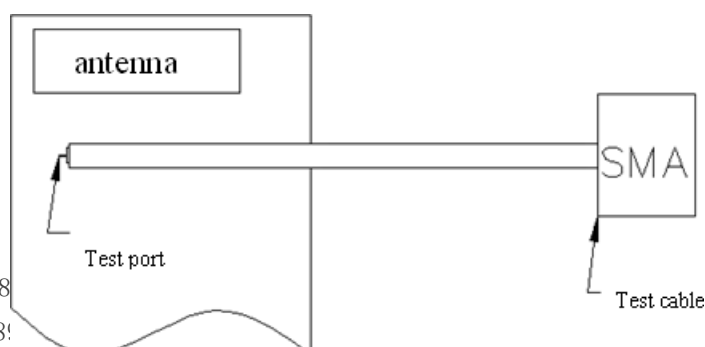
PS:

To ensure that the antenna shipment quality, the final mobile phone Clients validated the antenna's performance, should be kept in our company for at least a year time, facilitate solving antenna amount during abnormal situation.

2. TEST FIXTURE

Purpose: To test antenna passive parameters as accurately as possible .

methods: the fixture is to use a 50 ohm coaxial cable, one end is connected to the pad after the antenna 's matching circuit (the front of the antenna switch) , and the other end is connected to the SMA connector.

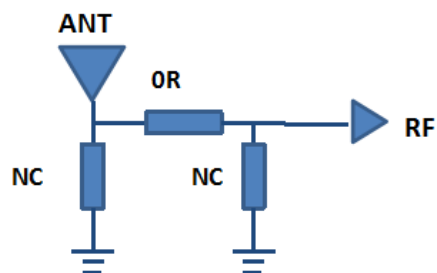


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3. MATCHING CIRCUIT

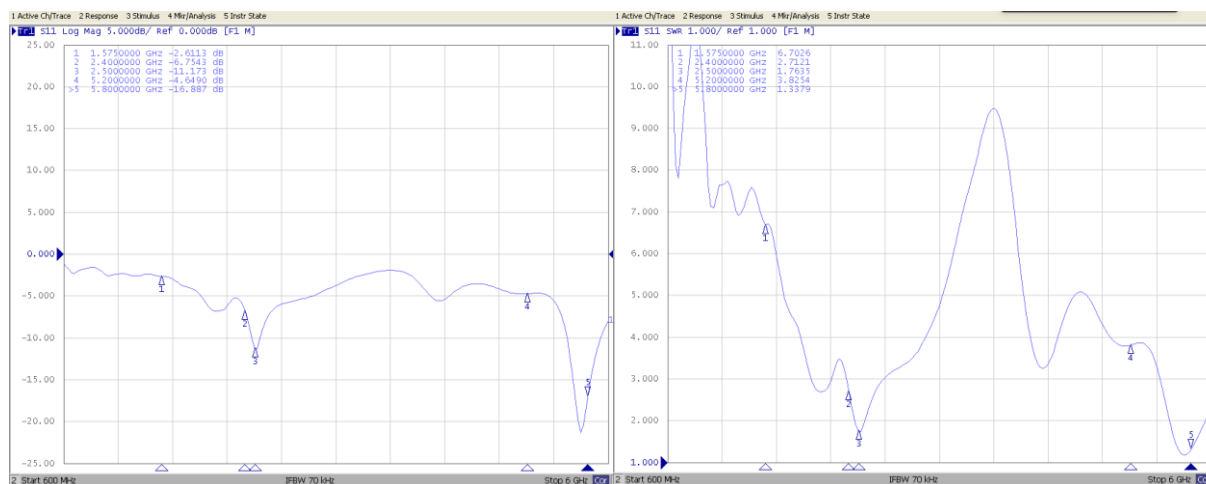


PS: There's NO a change in the matching circuit.

4. S11 test

4.1 S11 parameter

FRq (MHz)	2400	2500	5200	5800		
Return loss	-6.7	-11.2	-4.6	-16.9		



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5 OTA TEST DATA

5.1 Passive Gain &efficiency:

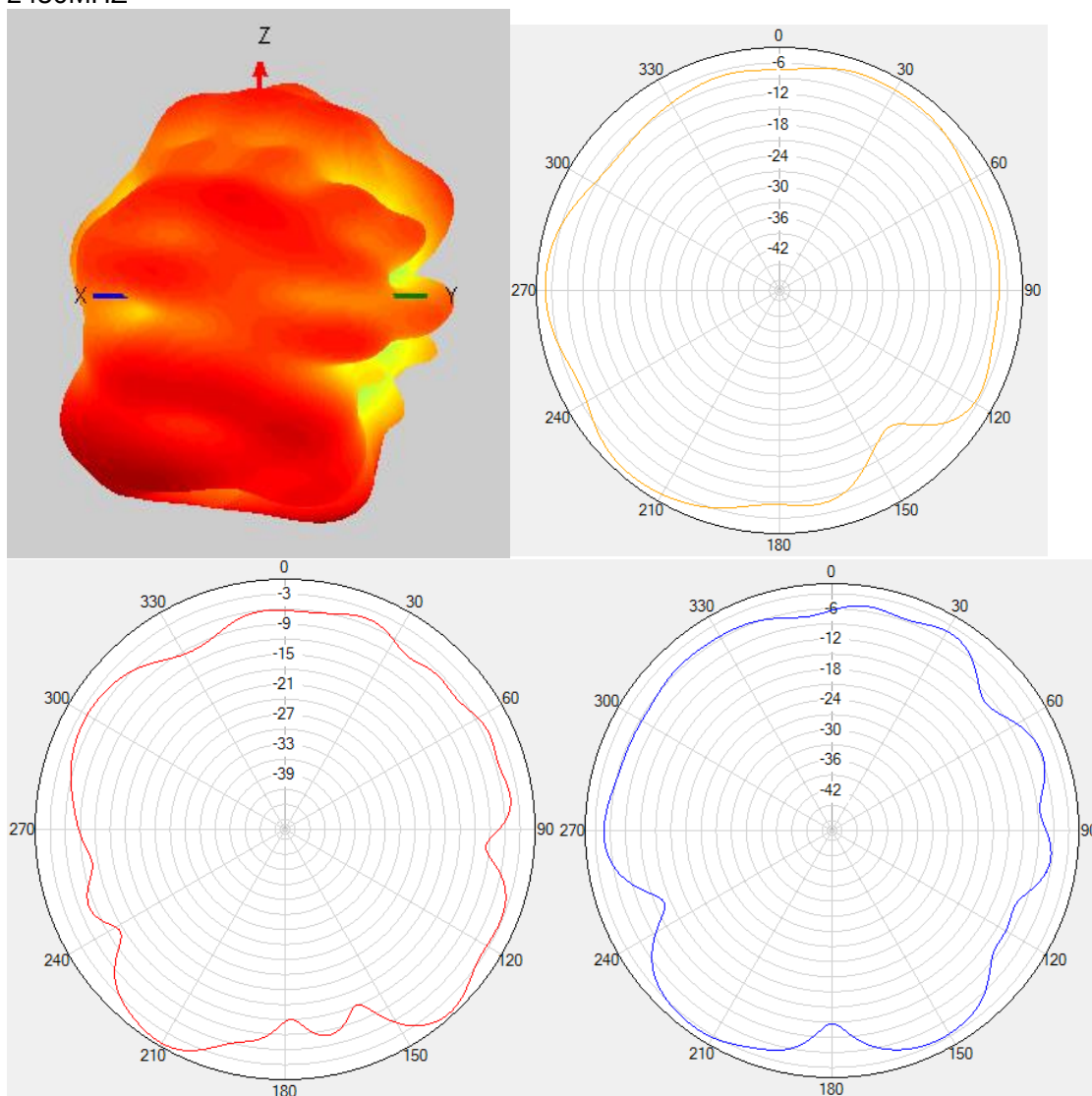
frequency 频率(MHz)	gain 增益 (dBi)	efficiency 效率(%)	frequency 频率(MHz)	gain 增益 (dBi)	efficiency 效率(%)
2400	1.31	32.23	5150	0.85	20.23
2410	1.64	32.68	5200	0.53	22.76
2420	1.55	33.86	5250	0.29	23.35
2430	1.55	35.45	5300	0.34	23.95
2440	1.54	35.73	5350	0.42	25.2
2450	1.34	35.64	5400	0.61	28.02
2460	1.32	34.22	5450	0.71	28.4
2470	1.32	35.35	5500	0.83	30.35
2480	1.13	38.22	5550	1.19	31.21
2490	1.58	40.73	5600	1.37	33.39
2500	1.45	42.32	5650	1.28	34.07
			5700	1.57	35.34
			5750	1.59	35.9
			5800	0.82	30.99
			5850	0.25	28.23
			5900	-0.38	27.31

5.2 Active OTA test data :

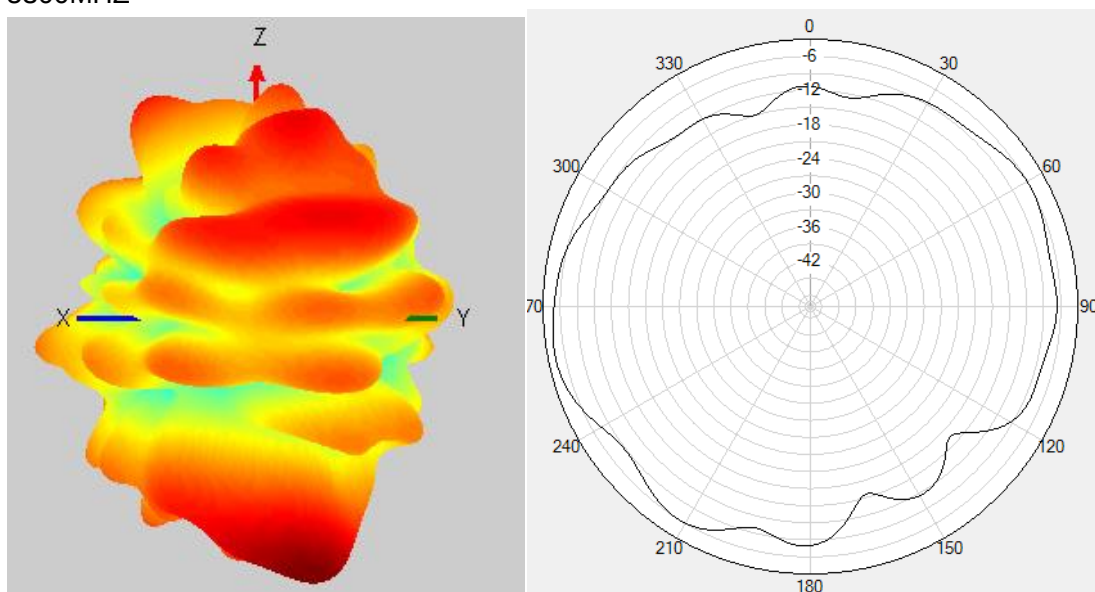
Test Result	Wifi2G-11B11M			Wifi5G-11A54M		
	1	7	11	36	64	165
Frequency (MHz)	2412	2442	2462	5180	5320	5825
TRP (dBm)	11.17	12.26	12.49	10.18	11.54	10.5
TIS (dBm)			-75.15			-67.24

6. Radiation Pattern

2450MHZ



5300MHZ

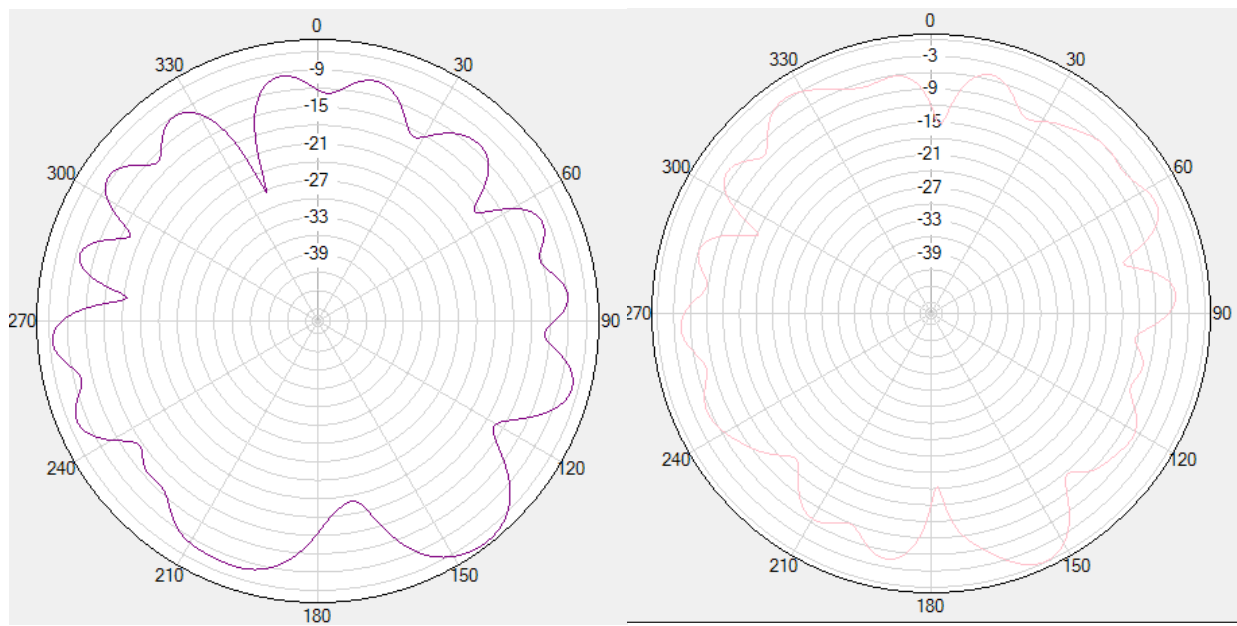


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Forten Technology (Shanghai) Ltd. Company Antenna Specification



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