



东莞市一佳电子通讯科技有限公司

Dongguan Yijia Electronic Communication
Technology Co., Ltd

Antenna Test Report

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Tester : Wei Daofa

Approval : Chen Guoqiang

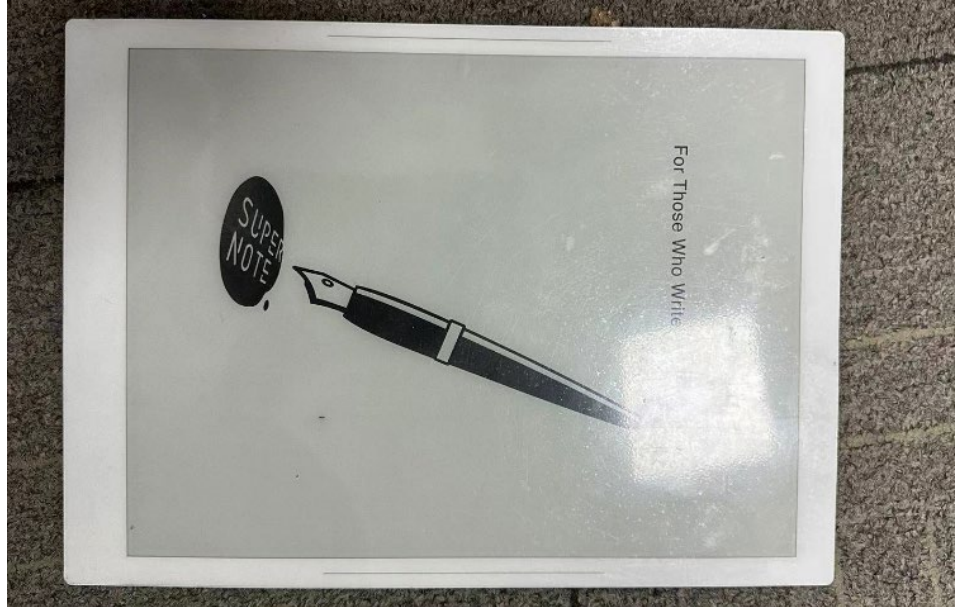
Date : 2024 / 08 / 01

真诚 务实 开拓 创新

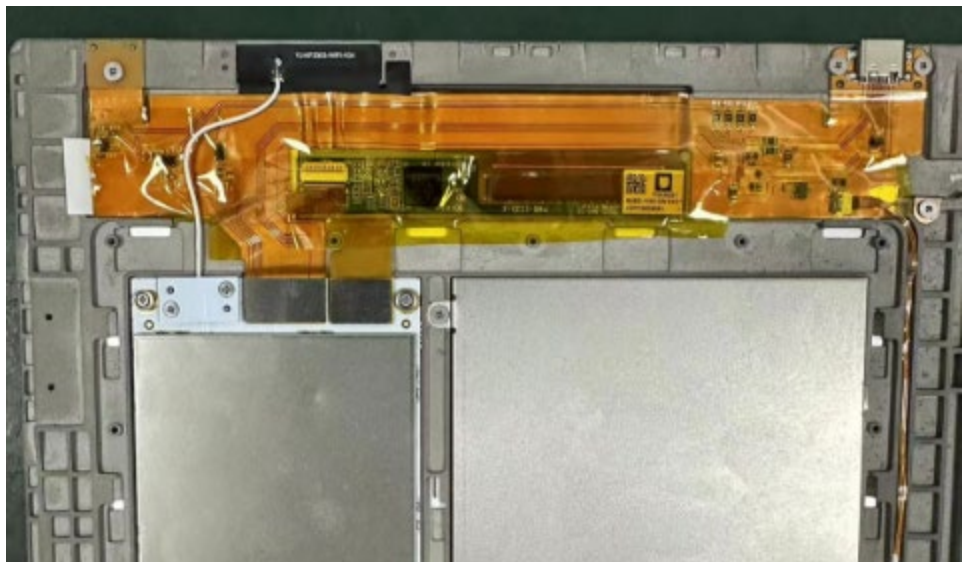


1. Antenna Profile

Device



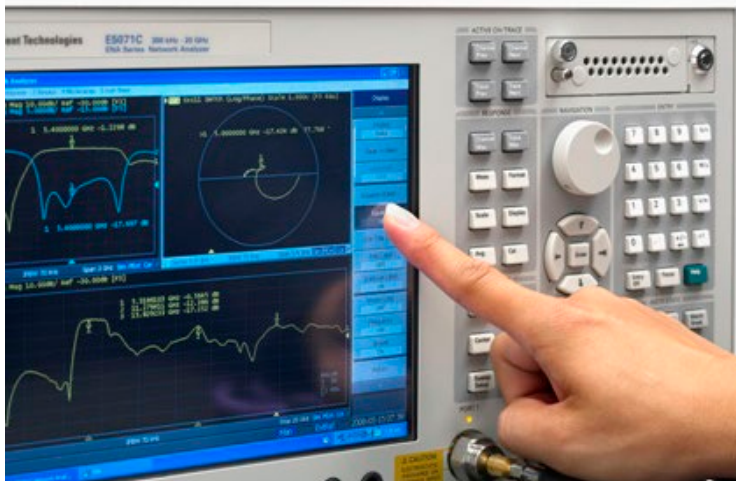
*WIFI
Antenna*



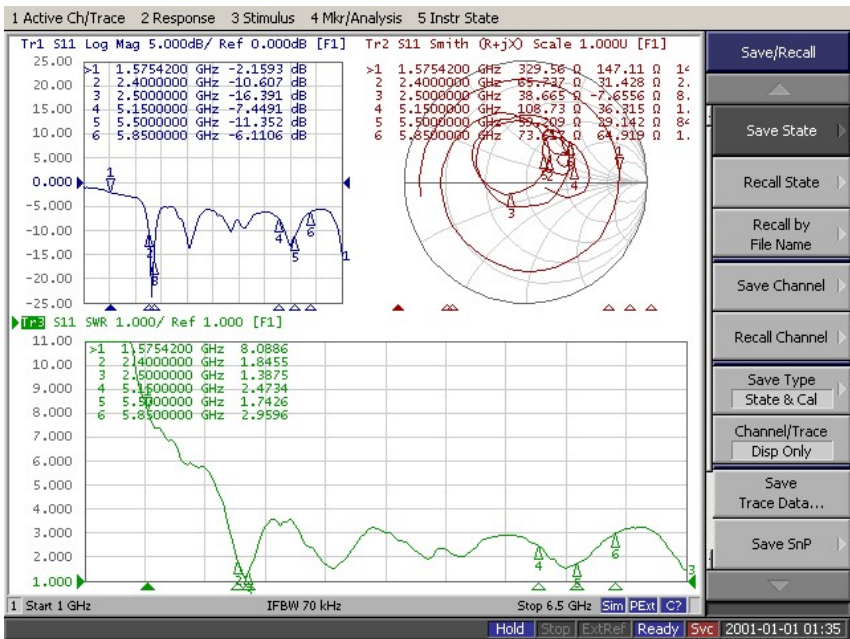


2. Antenna Performance Test

*Agilent
E5071B*

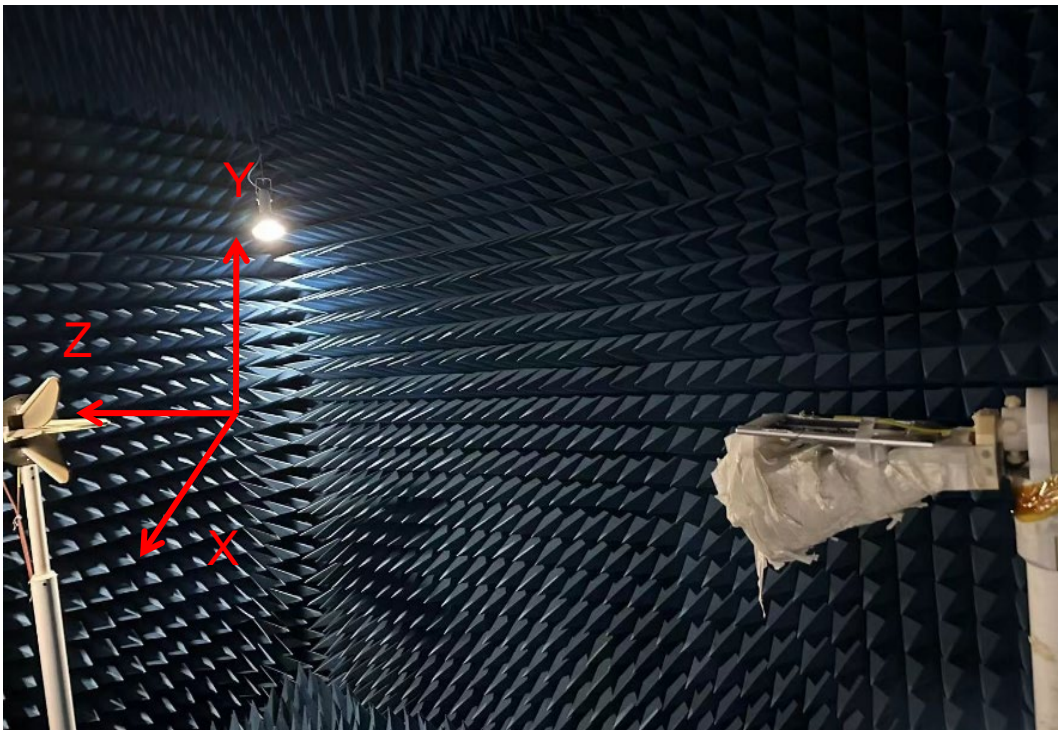


*S
Parameter
Test //
WIFI
Antenna*





3. Antenna Passive Test





3. *Antenna Passive Test*

Passive Test For WiFi Antenna(2.4G)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	40.1	-4.0	-0.3
2410	40.3	-4.0	-0.1
2420	41.2	-3.9	0.0
2430	41.2	-3.9	-0.1
2440	42.1	-3.8	-0.1
2450	46.7	-3.3	0.3
2460	46.9	-3.3	0.4
2470	47.8	-3.2	0.5
2480	45.7	-3.4	0.6
2490	45.6	-3.4	0.9
2500	44.3	-3.5	0.9

蓝牙和WIFI共用2.4G频段



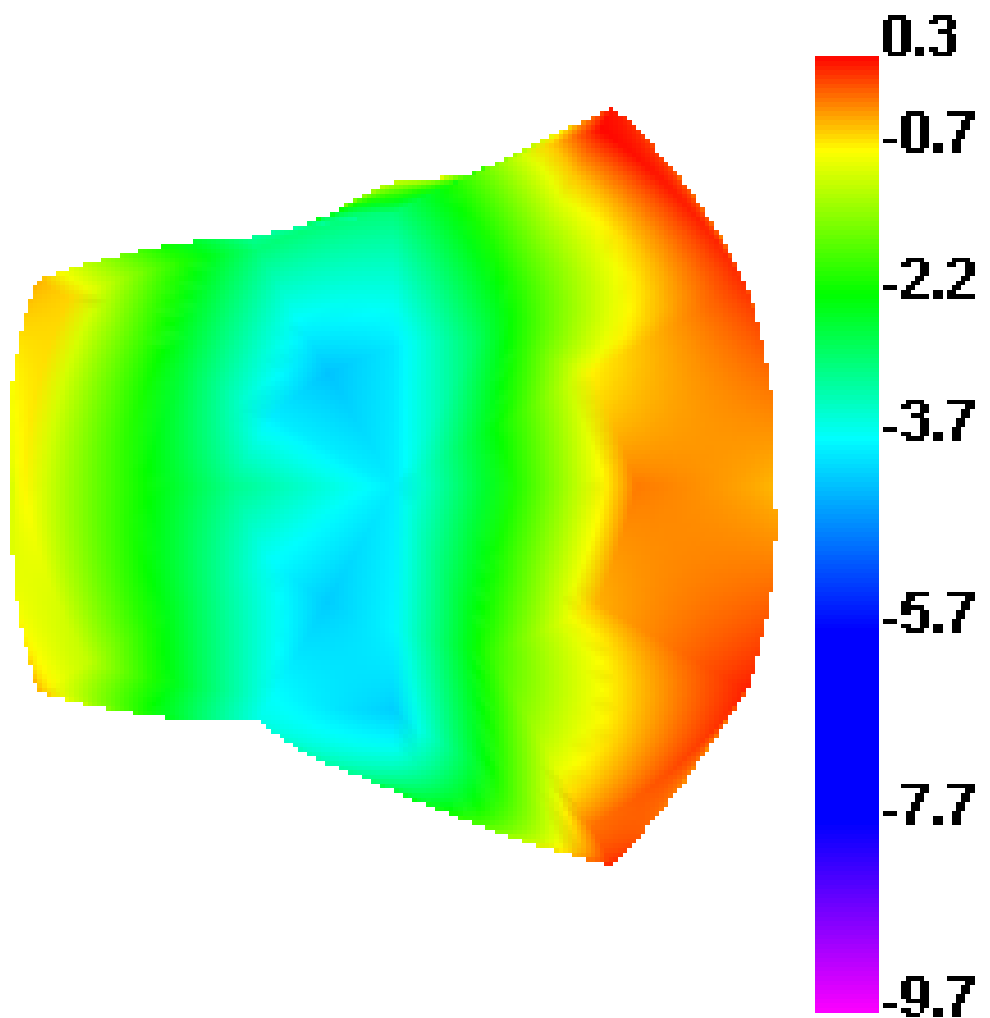
Passive Test For WiFi Antenna(5G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	38.5	-4.1	1.4
5200	41.3	-3.8	1.7
5250	45.0	-3.5	1.9
5300	46.1	-3.4	2.3
5350	47.1	-3.3	2.2
5400	46.6	-3.3	1.8
5450	46.0	-3.4	1.2
5500	44.9	-3.5	1.1
5550	43.2	-3.7	0.6
5600	44.3	-3.5	0.9
5650	49.3	-3.1	1.9
5700	46.5	-3.3	1.5
5750	44.3	-3.5	0.7
5800	37.5	-4.3	0.0
5850	36.3	-4.4	-0.3



Radiation Pattern For WIFI Antenna

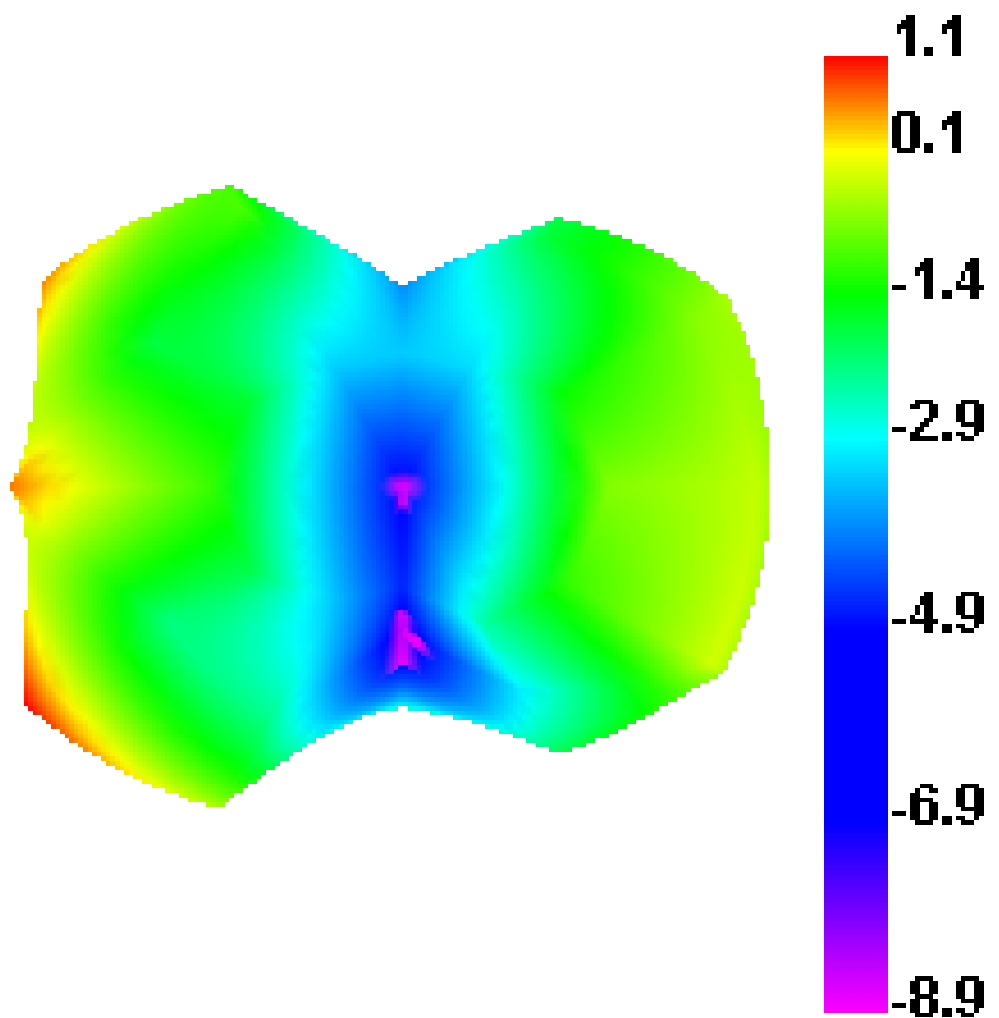
2450.000MHz





Radiation Pattern For WIFI Antenna

5500.000MHz



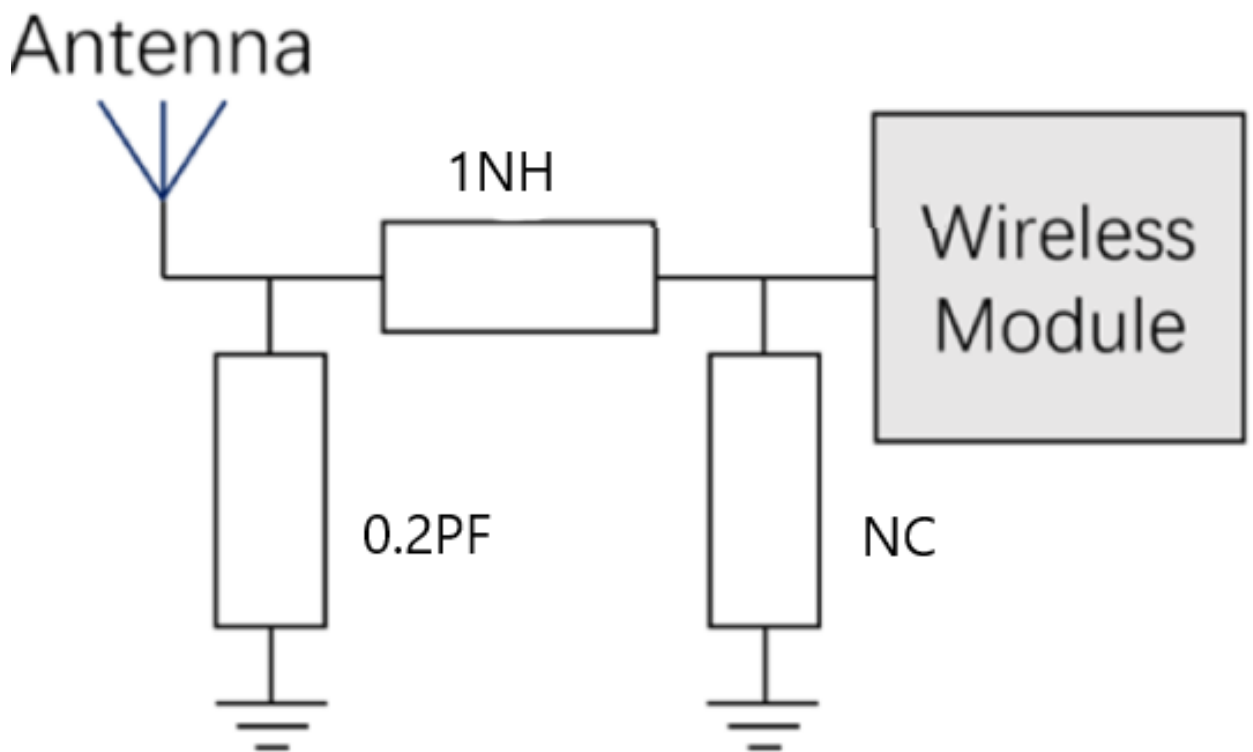


Active Test For WIFI

Band	Channel	Data Rate	TRP	Data Rate	TIS
WIFI 2.4G 802.11b	1	11Mbps	13.1	11Mbps	-83.1
	7		13.7		-83.8
	13		13.8		-82.4
WIFI 2.4G 802.11g	1	54Mbps	11.2	54Mbps	-69.6
	7		11.0		-70.5
	13		11.4		-69.7
WIFI 2.4G 802.11gn	1	MCS7	11.5	MCS7	-69.1
	7		11.5		-67.6
	13		11.6		-69.6
WIFI 5G 802.11a	36	6Mbps	10.0	54Mbps	-68.6
	149		10.7		-69.1
	165		10.7		-68.8
WIFI 5G 802.11an	36	MCS7	10.1	MCS7	-66.7
	149		10.5		-67.6
	165		10.6		-67.1



WIFI Antenna Matching Circuit





4. Assembly Picture

size: 32mm*18mm

Antenna
天线

