

Test Report

Model Name : U8

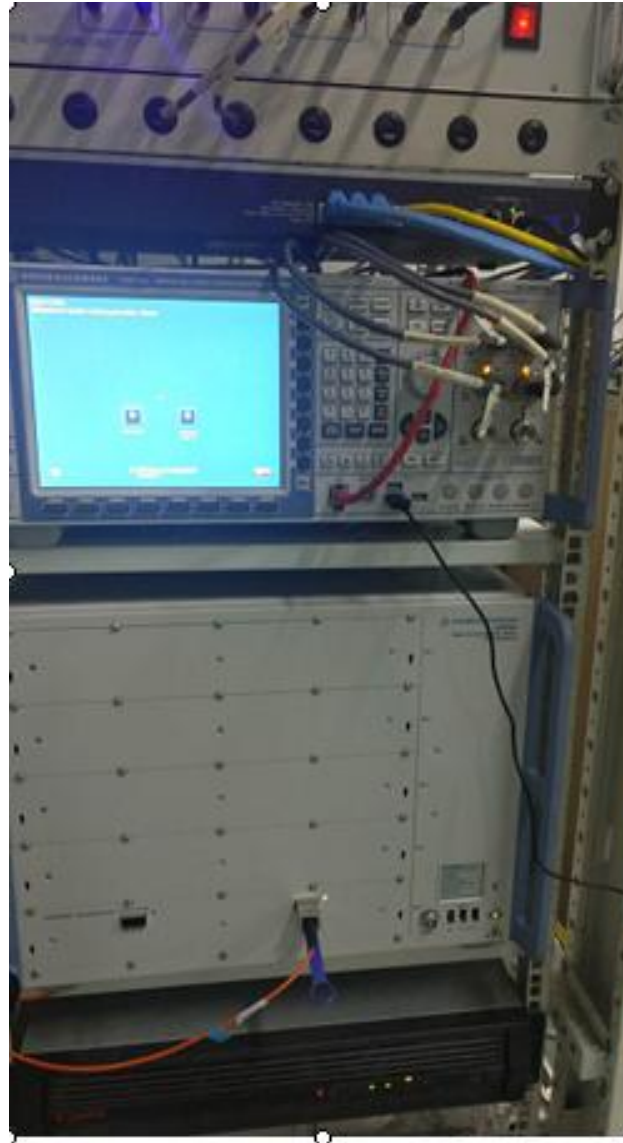
April 3, 2026

Shenzhen Kunpeng Tongda Technology Co., Ltd.
Shenzhen Kunpeng Tongda Technology Co., Ltd.



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2. Report Version History
3. Company Overview and Testing Environment Introduction
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5. Antenna Position Map
6. sum up



1. Project Overview

RF engineer	Kong Gong	Postbox	2532625702@qq. com
		Telephone	18477016343
Antenna Overview			
Prototype Status	Computer Laptop	Project name	U8
Antenna Type	PIFA	Structural style	FPC+4th-generation terminal coaxial cable
Main antenna		Project Image (Right)	
Other Antennas	2. 4G+5G WIFI+BT		
Environmental Treatment			



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2. Report Version History

Edition	Report Time	Debugging Overview
A0	2026.01.22	Antenna Test Report
A1	2026.04.03	Antenna Test Report
A2		
A3		
A4		
A5		
A6		
A7		
A8		
A9		
A10		



3. Company Profile



Shenzhen Kunpeng Tongda Technology Co., Ltd. boasts 12 years of experience in the research, development, and production of antennas for various mobile communication terminals, and has established joint RF component laboratories with universities. The company possesses extensive expertise in antenna technologies for mobile devices across diverse communication standards, along with substantial project development experience, particularly in base station antennas, ultra-thin smartphones, and IoT-based NB-IoT/eMTC technologies. Its product portfolio includes plate-type radio frequency adjustment antennas for base stations, decorative exhaust pipe antennas, omnidirectional fiberglass reinforced plastic antennas, as well as antennas tailored for IoT, smart homes, connected vehicles, wearable devices, smartphones, and tablets. The company remains committed to enhancing its long-term competitiveness by providing comprehensive RF solutions. Guided by a customer-centric approach, all departments—including Engineering R&D, Production, and Quality Control—prioritize meeting client requirements as their primary objective.



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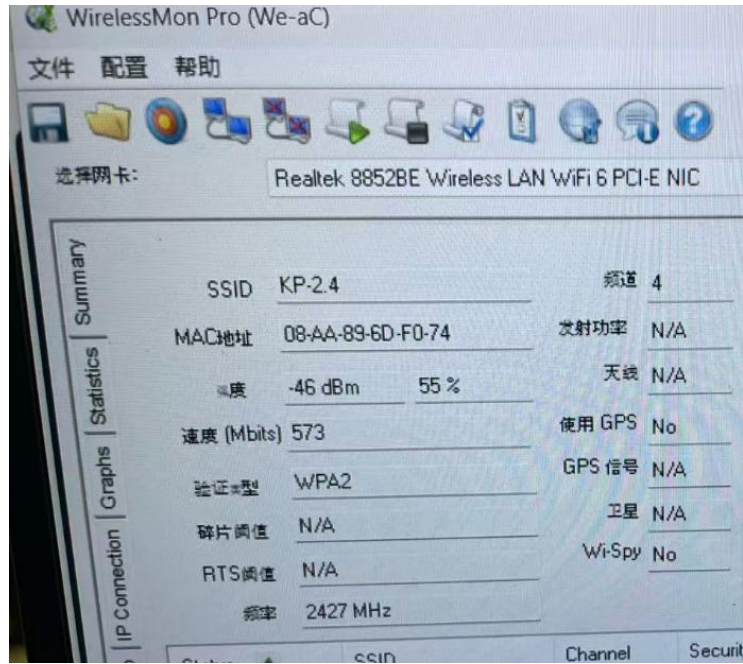
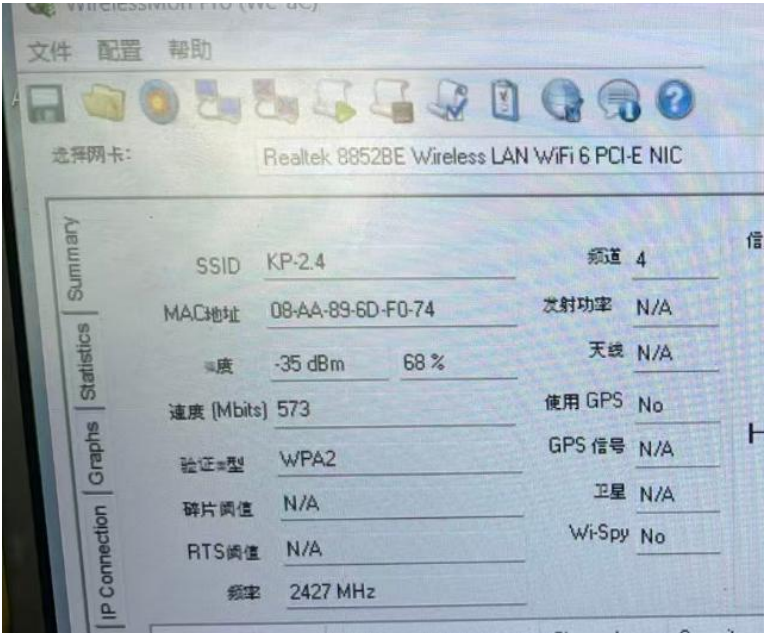
The company operates multiple OTA test chambers with frequency coverage spanning 400 MHz to 8.5 GHz, capable of performing comprehensive OTA testing (TRP/TIS), active WIFI testing (supporting 11b/11g/11n modes), and active Bluetooth/GPS testing. It also provides antenna gain and efficiency measurements, 2D pattern analysis, upper/lower hemisphere efficiency evaluations, and mutual interference correlation coefficient tests.



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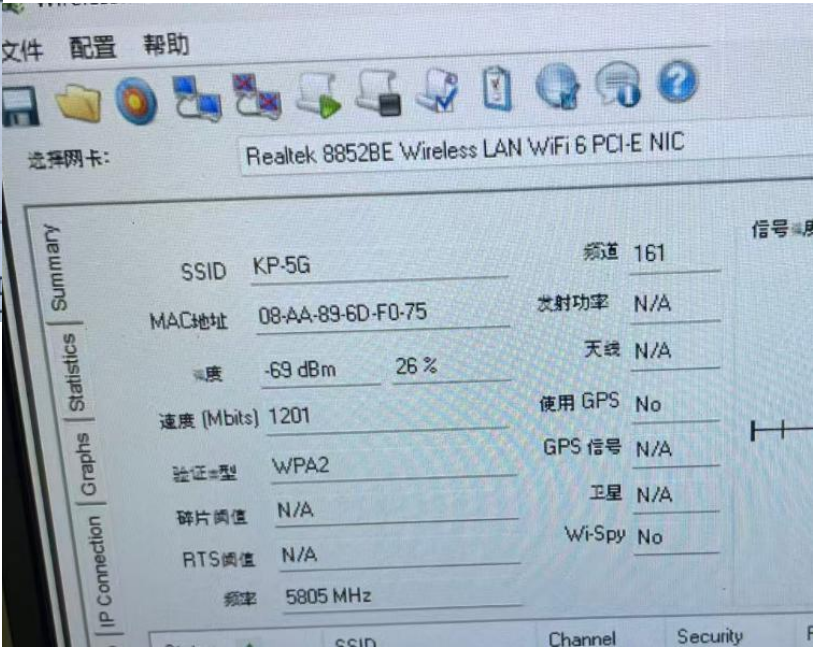
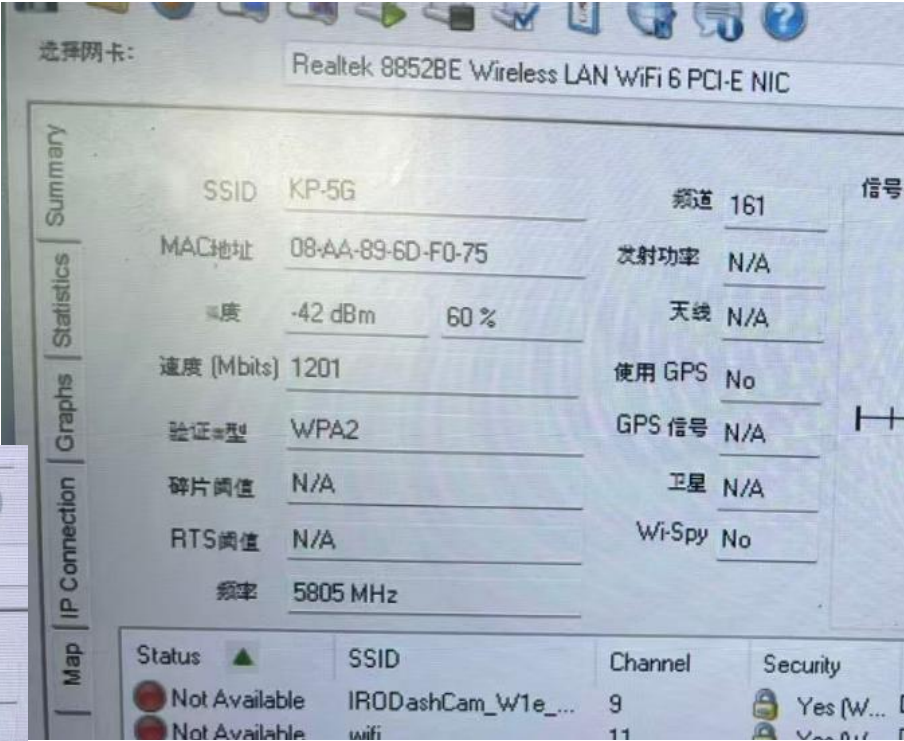
4. Test Data 2.4GWIFI

Wireless Mon Signal (dBm)	
1 meter (dBm)	-35
5 meters (dBm)	-46
10-meter partition wall (dBm)	-61



4. Test Data 5GWIFI

Wireless Mon Signal (dBm)	
1 meter (dBm)	-42
5 meters (dBm)	-48
10-meter partition wall (dBm)	-69



2.4GWiFi

SPEEDTEST Speed Test		
1 meter	Download	94.99mb
	Upload	57.87mb
5 meters	Download	70.05mb
	Upload	45.66mb
10-meter partition wall	Download	27.15mb
	Upload	6.07mb



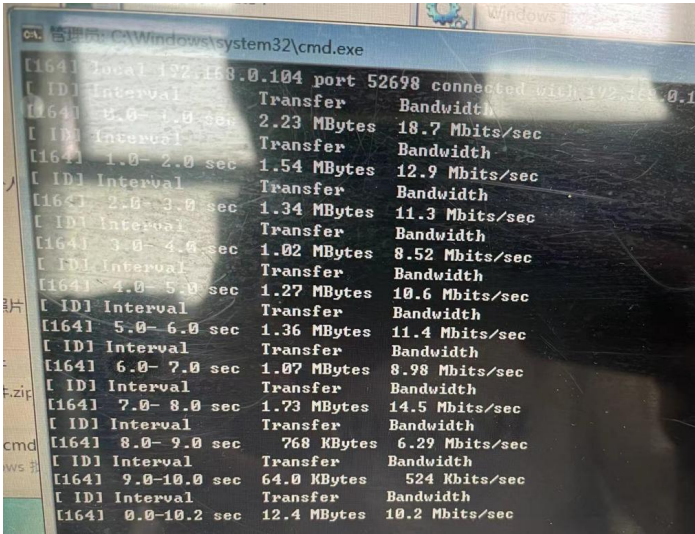
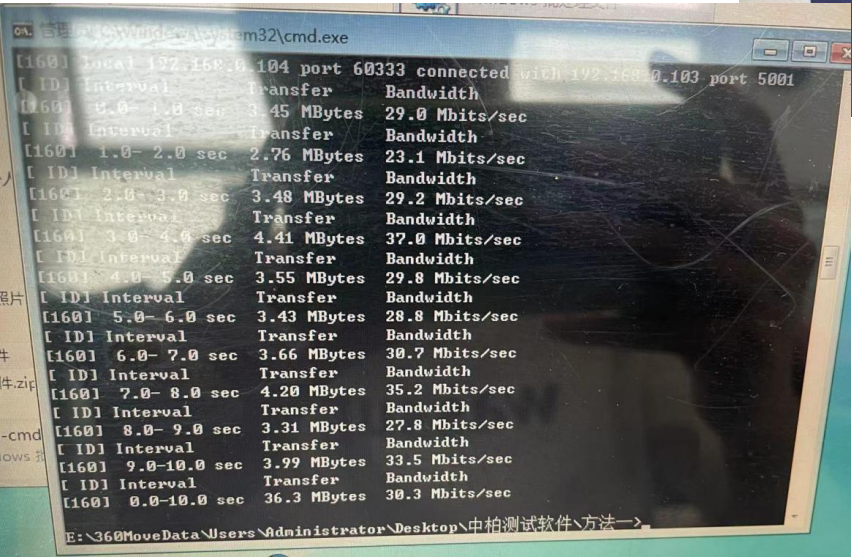
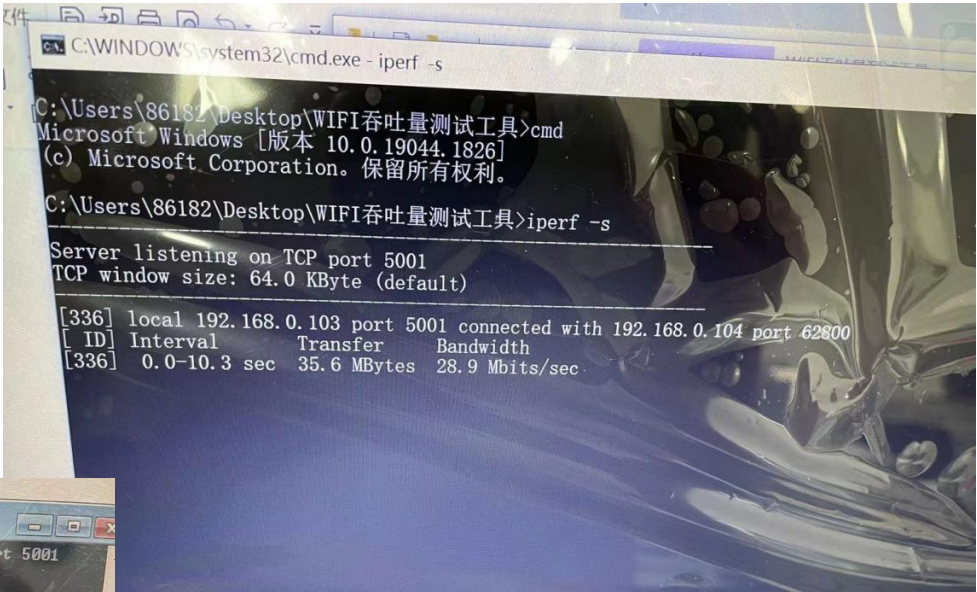
5GWiFi

SPEEDTEST Speed Test		
1 meter	Download	205.77mb
	Upload	58.35mb
5 meters	Download	78.05mb
	Upload	59.31mb
10-meter partition wall	Download	7.77mb
	Upload	24.56mb



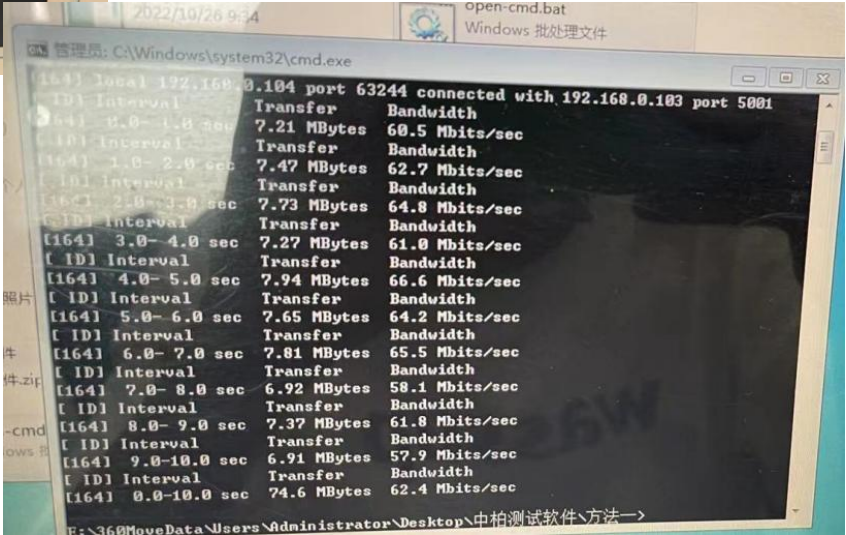
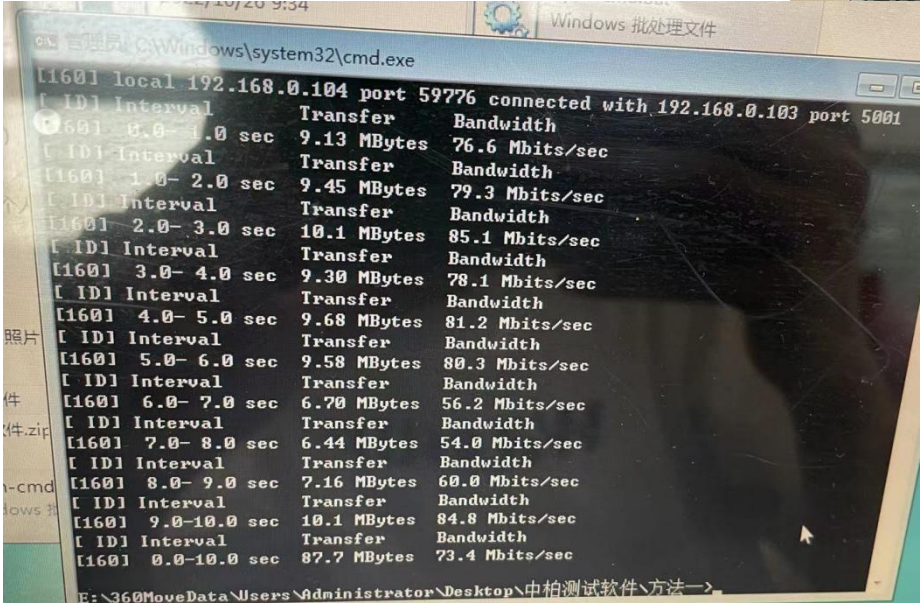
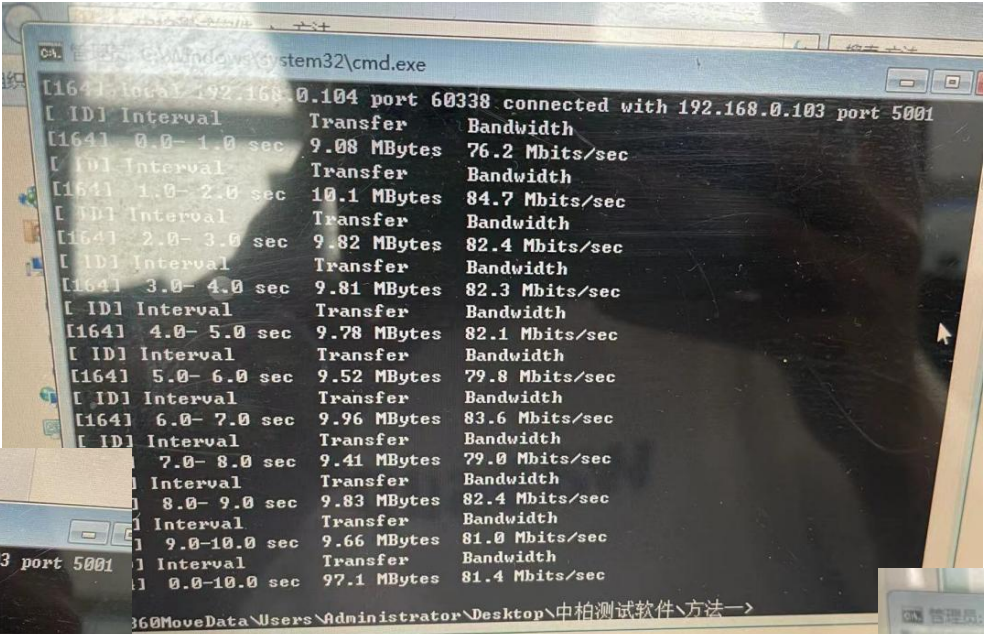
2.4GWiFi

Throughput Test	
1 meter (mb/s)	28.9mb/s
5 meters (m/s)	30.3 mb/s
10-meter partition wall (mb/s)	10.2mb/s



5GWiFi

Throughput Test	
1 meter (mb/s)	81.4 mb/s
5 meters (m/s)	73.4 mb/s
10-meter partition wall (mb/s)	62.4 mb/s



5. Antenna Position Map



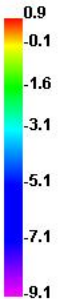
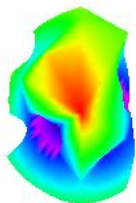
WIFI slave antenna

WIFI main antenna

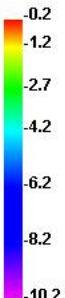
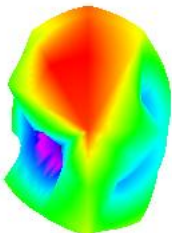
WIFI Slave Antenna

Passive Test For WIFI2.4		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	35.97	0.86
2410	36.46	1.07
2420	34.31	0.74
2430	31.39	0.11
2440	36.07	0.46
2450	35.26	-0.24
2460	35.36	-0.81
2470	33.41	-1.1
2480	32.19	-0.69
2490	31.91	-0.36
2500	41.93	1.28

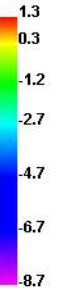
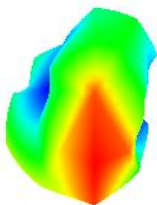
2400.000MHz



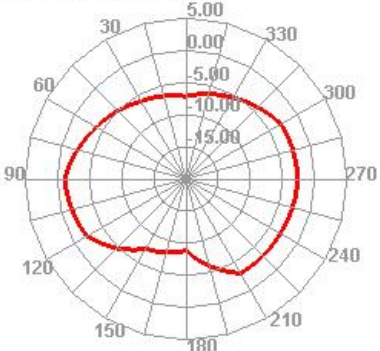
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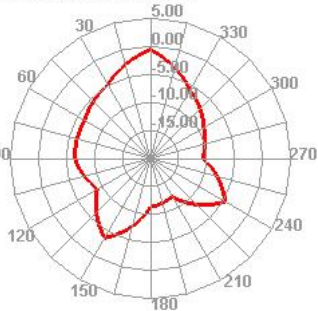
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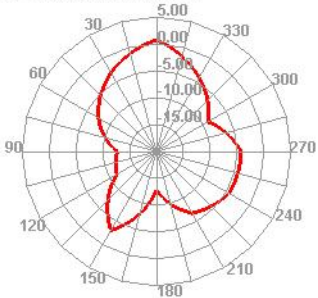
2400.000MHz H



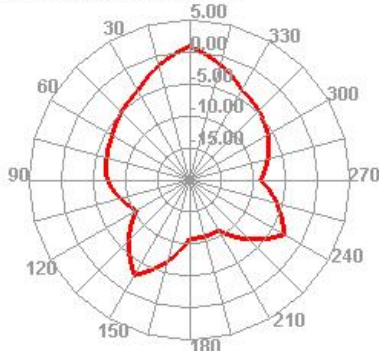
2450.000MHz E1



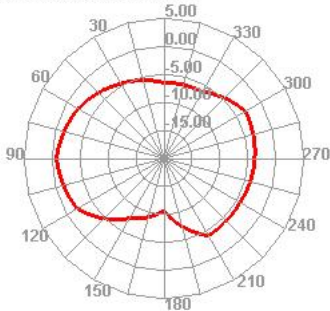
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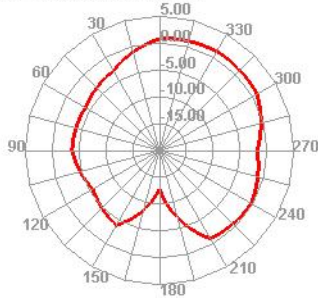
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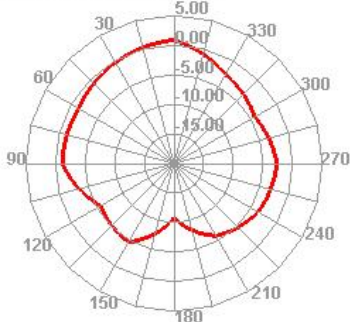
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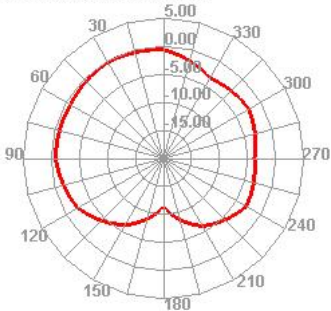
2500.000MHz E2



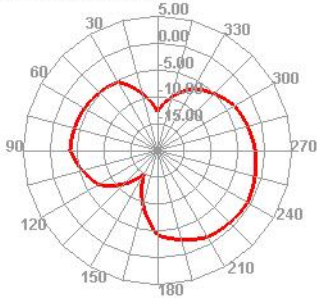
2400.000MHz E2



2450.000MHz E2



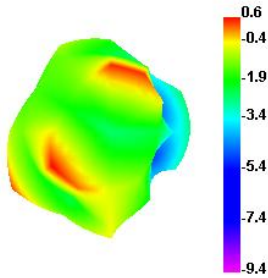
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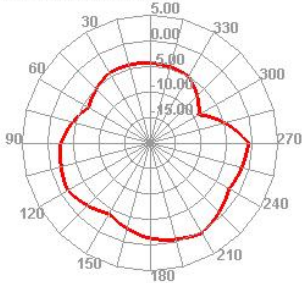
WIFI slave antenna

Passive Test For WIFI5.8		
Freq (MHz)	Effi (%)	Gain (dBi)
5150	48.17	1.24
5200	45.23	1.44
5250	41.89	1.26
5300	41.16	1.12
5350	45.39	1.67
5400	45.37	0.64
5450	43.93	1.04
5500	49.35	1.96
5550	41.85	1.3
5600	36.87	0.6
5650	35.82	0.56
5700	53.39	2.27
5750	42.07	1.41
5800	40.06	1.22
5850	48.24	2.1

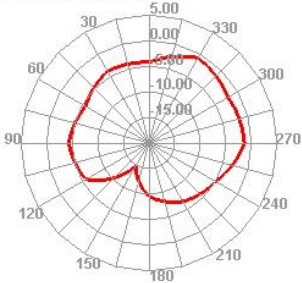
5400.000MHz



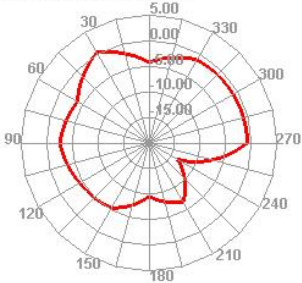
5400.000MHz H



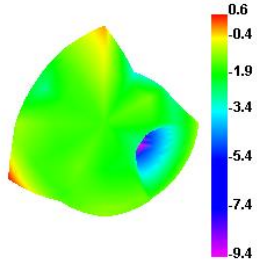
5400.000MHz E1



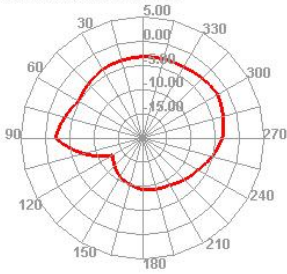
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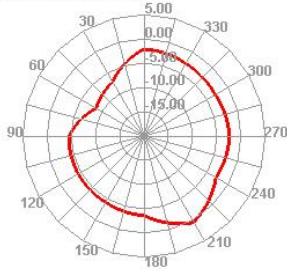
5650.000MHz



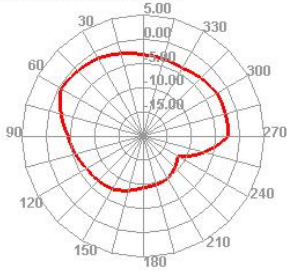
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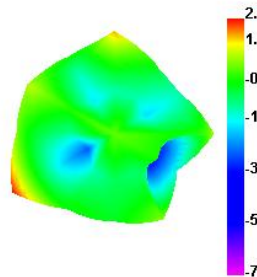
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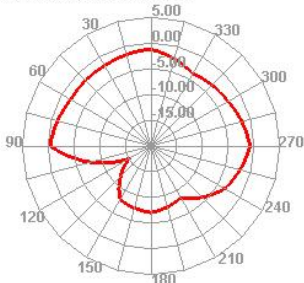
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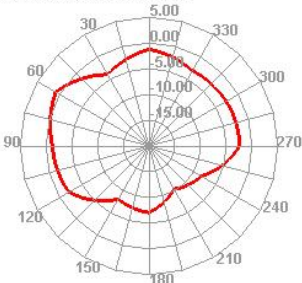
5850.000MHz



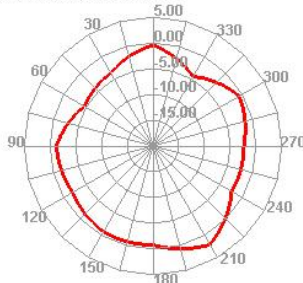
5850.000MHz E1



5850.000MHz E2



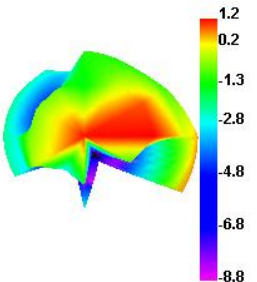
5850.000MHz H



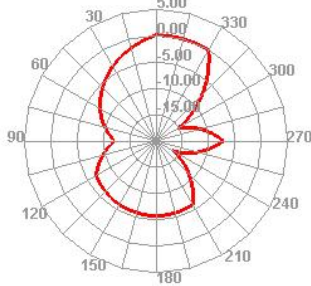
WIFI main antenna

Passive Test For WIFI2.4		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	27.86	1.19
2410	31.3	1.63
2420	31.37	1.64
2430	30.59	1.47
2440	36.75	2.11
2450	38.41	2
2460	36.46	1.51
2470	32.73	0.96
2480	34.32	1.29
2490	33.56	1.19
2500	43.77	2.3

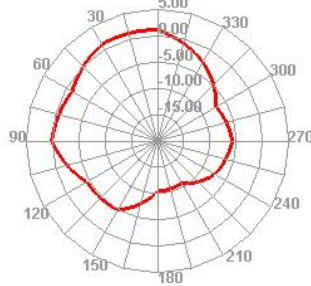
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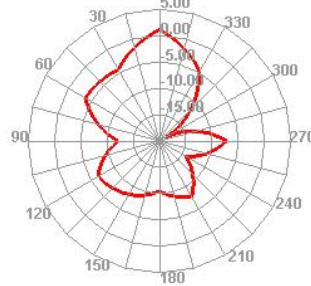
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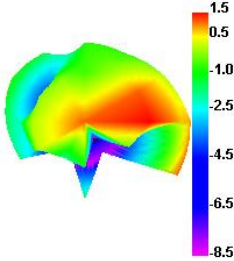
2400.000MHz E1



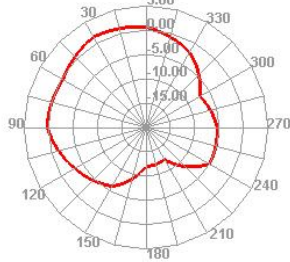
2400.000MHz E2



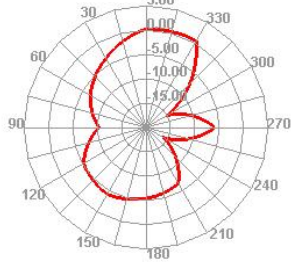
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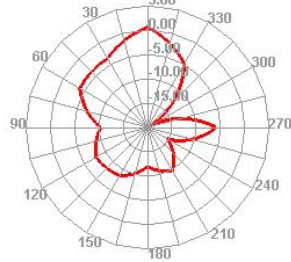
2430.000MHz E1



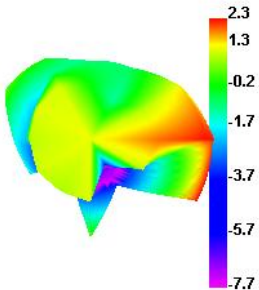
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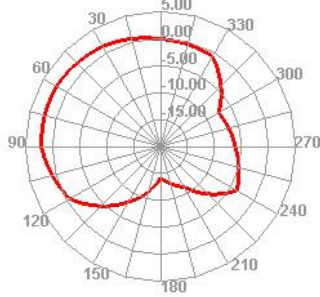
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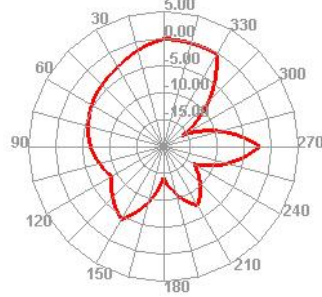
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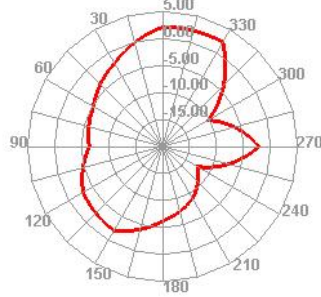
2500.000MHz E1



2500.000MHz E2

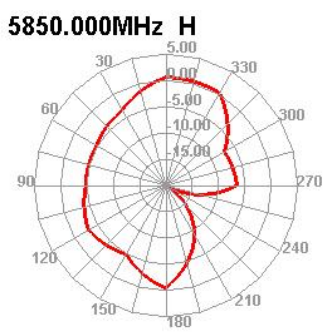
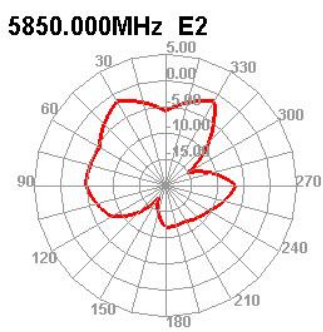
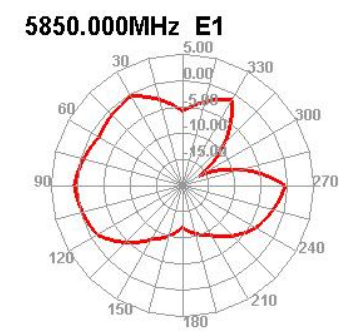
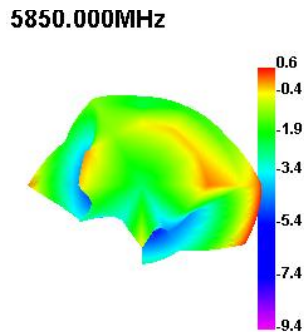
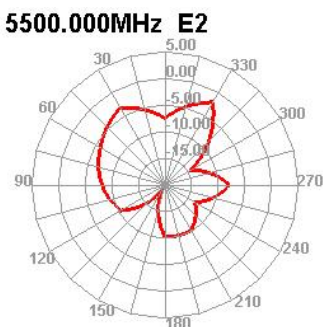
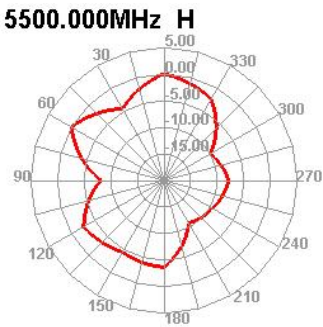
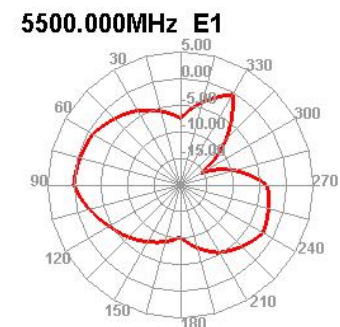
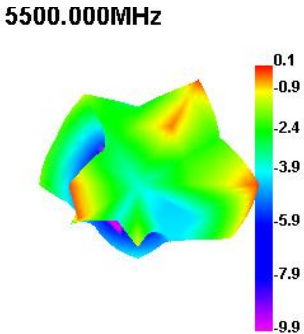
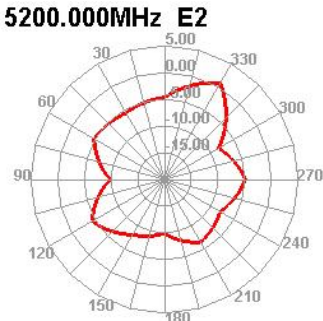
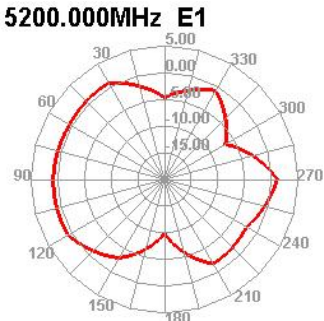
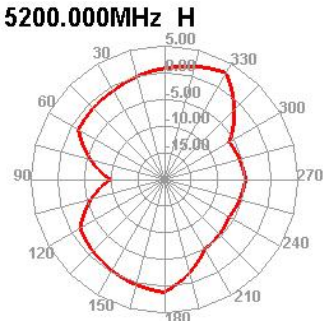
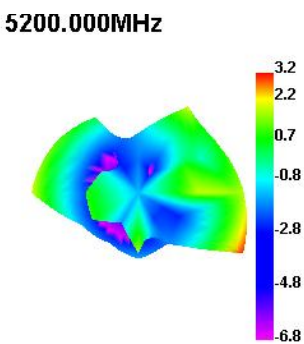


2500.000MHz H



WIFI main antenna

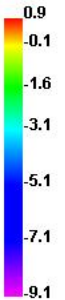
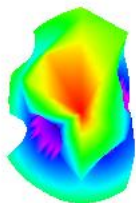
Passive Test For WIFI5.8		
Freq (MHz)	Effi (%)	Gain (dBi)
5150	40.79	2.19
5200	50.83	3.2
5250	36.81	1.76
5300	29.62	0.56
5350	32.8	0.85
5400	26.7	0.14
5450	27.57	0.23
5500	30.03	0.07
5550	24.51	-0.86
5600	22.66	-1.37
5650	21.77	-1.29
5700	33.57	0.57
5750	29.04	-0.43
5800	27.95	-0.44
5850	32.71	0.58



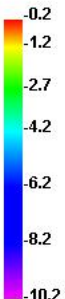
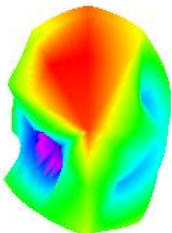
BT antenna

Passive Test For WIFI2.4		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	35.97	0.86
2410	36.46	1.07
2420	34.31	0.74
2430	31.39	0.11
2440	36.07	0.46
2450	35.26	-0.24
2460	35.36	-0.81
2470	33.41	-1.1
2480	32.19	-0.69
2490	31.91	-0.36
2500	41.93	1.28

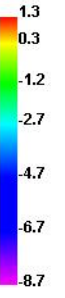
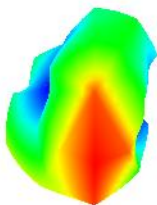
2400.000MHz



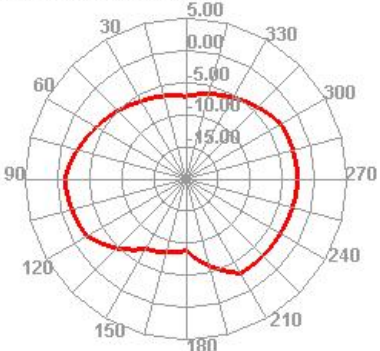
2450.000MHz



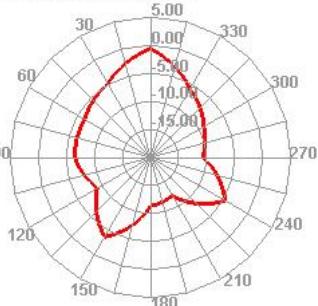
2500.000MHz



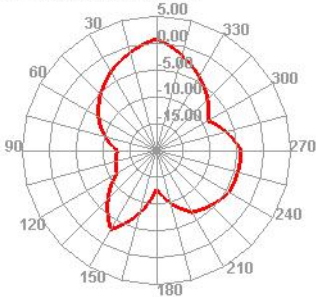
2400.000MHz H



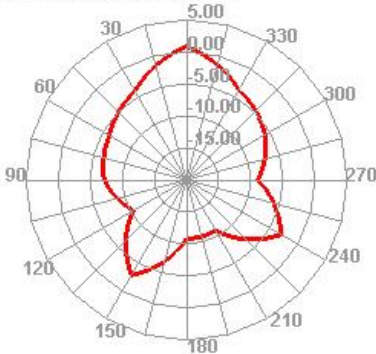
2450.000MHz E1



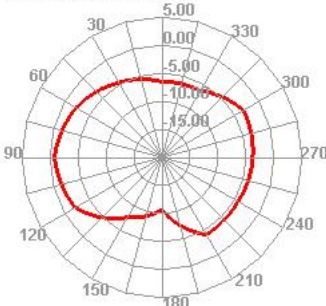
2500.000MHz E1



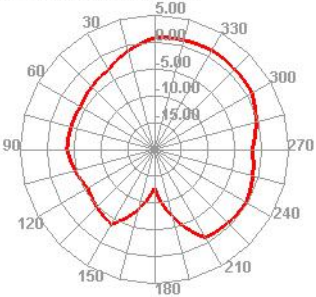
2400.000MHz E1



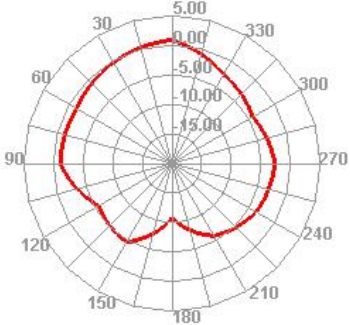
2450.000MHz H



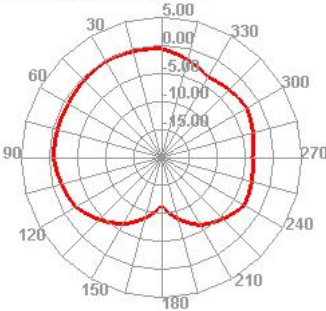
2500.000MHz E2



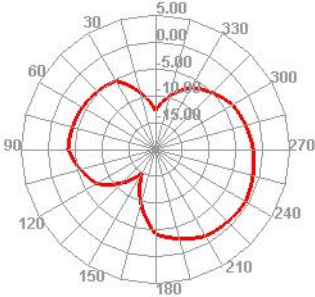
2400.000MHz E2



2450.000MHz E2



2500.000MHz H



6.Sum Up



THANKS