



Shenzhen Meihejia Technology Co., Ltd.

Antenna Test Report



Customer name	Mingyou Times	Project Name	S10-T606
frequency band	WIFI/GPS/BT	Structural	FPC
Antenna type	FPC	Date	2024-7-12

测试环境
Test environment

	Test items	Equipment
1. S参数 (S-parameter)	1. 回波损耗 (Return Loss) 2. 电压驻波比 (VSWR)	Network analyzer: Agilent E5071B HP 8753D
2. 有源测试 (Active)	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS)	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Comprehensive tester: Agilent 8960 E5515B × 2 StarPoint SP6011
3. 无源测试 (Passive)	1. 天线增益 (Gain) 2. 天线效率 (Efficiency)	1. Darkroom: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Network analyzer: Agilent E5071B HP 8753D

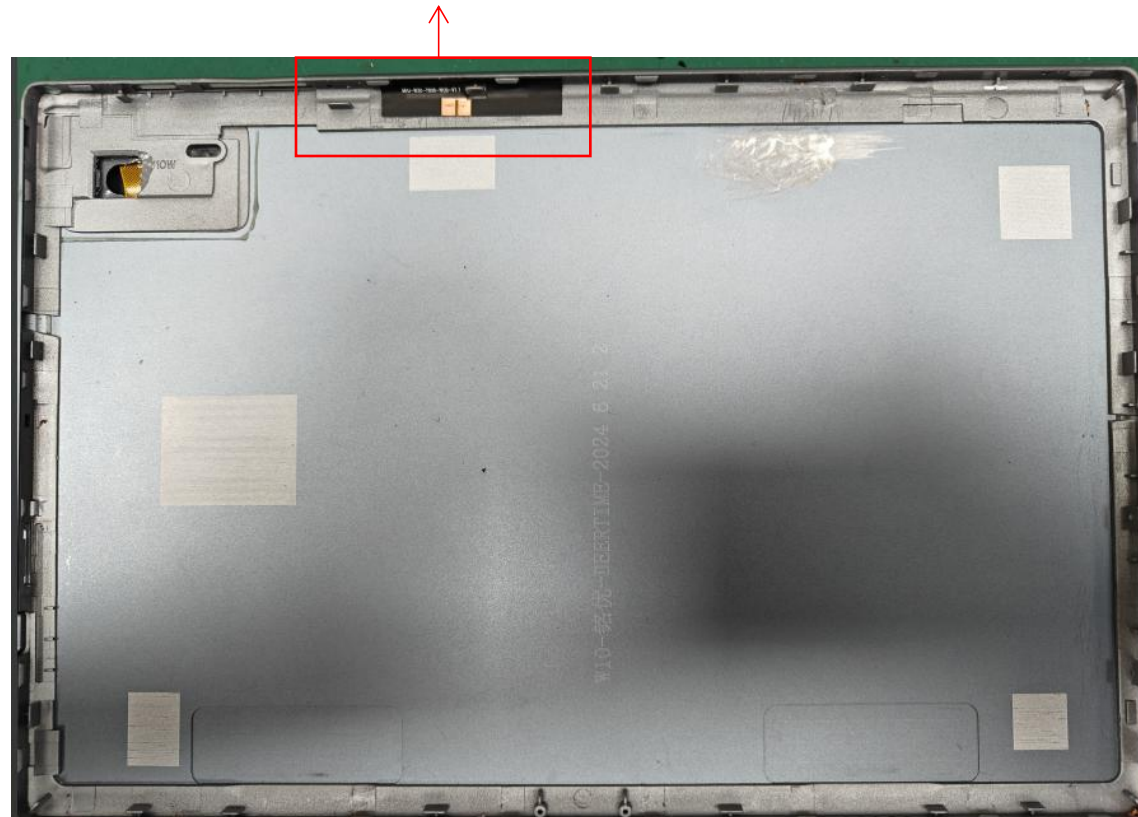
测试设备 Test Equipment





天线位置 Antenna position

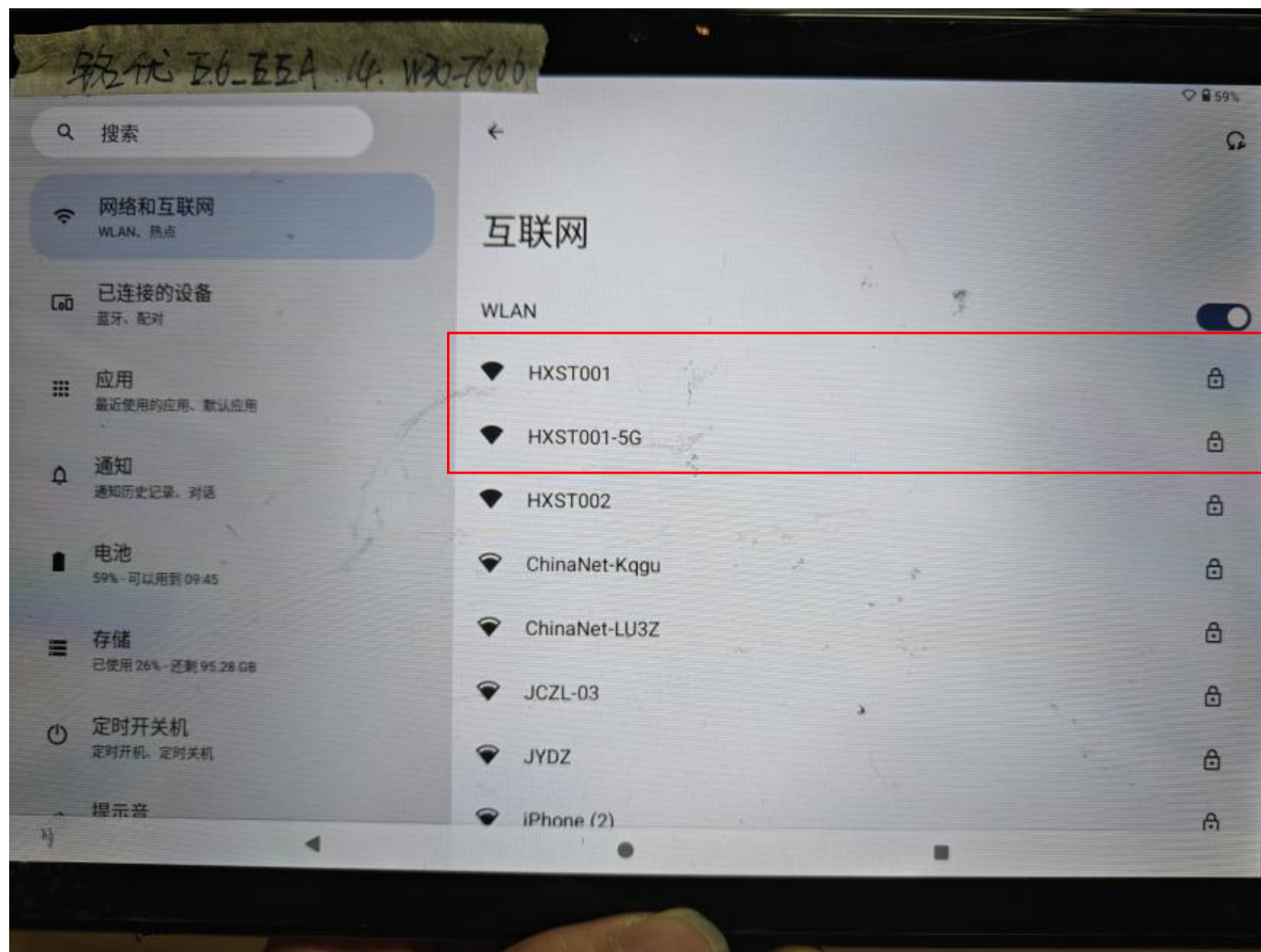
W/G/B Antenna



Wifi天线实测

Wifi Antenna test

Test environment:
Inside the office
Distance of the router:
About 15 meters





有源数据
Active data

Application Information					
04Version	5. 218. 327				
TotalTime	9m 18s 425ms				
AdditionalInfor	802. 11b : 11Mbps				
Test	Wifi 2G TRP			Test	Wifi 2G TIS
Result	1	6	11	Result	11
Txp Ave (dBm)	13. 3	13. 2	14. 1	Sens Ave (dBm)	-81. 5

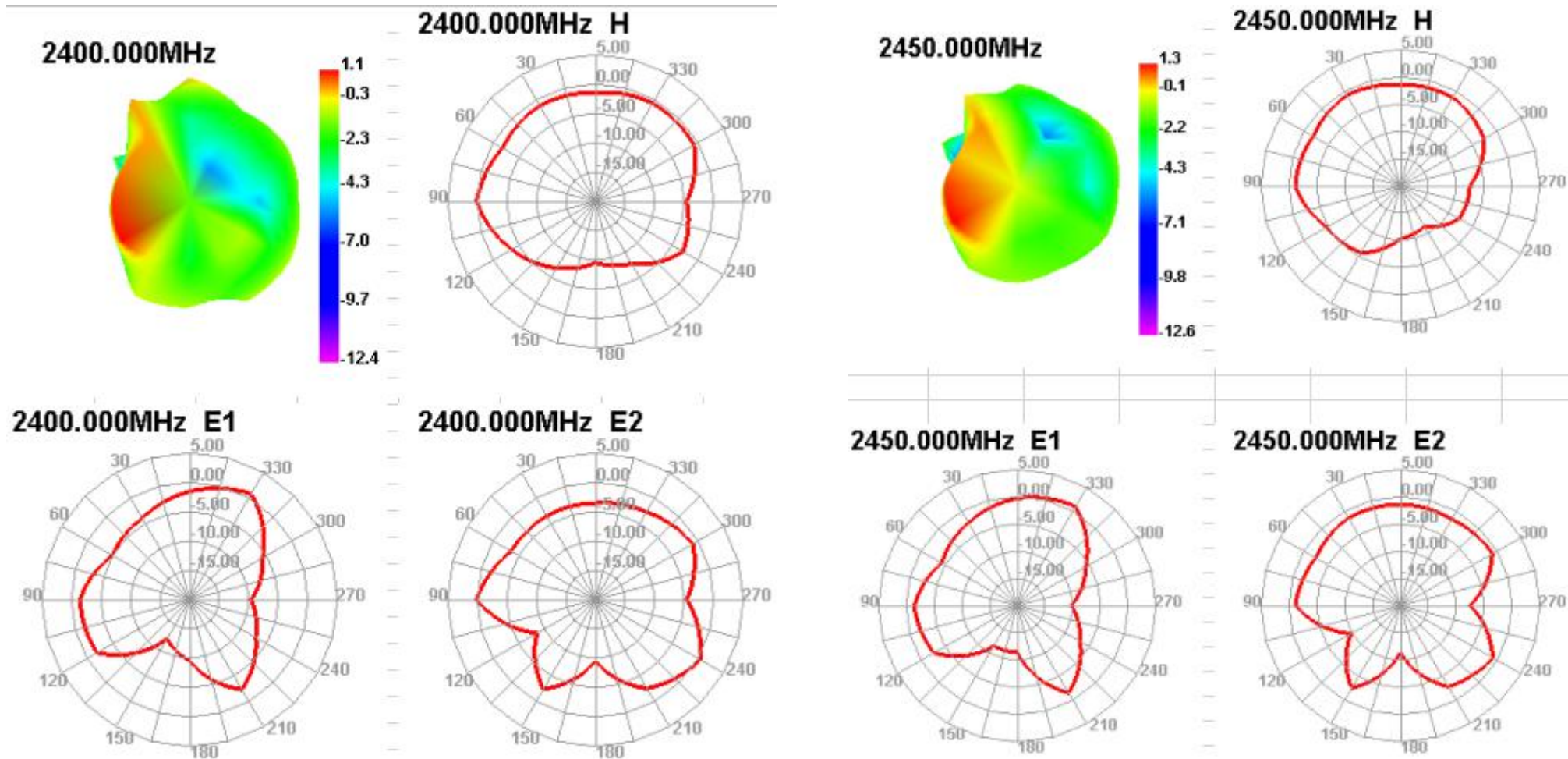
Application Information					
04Version	5. 218. 327				
TotalTime	16m 43s 465ms				
AdditionalInfor	802. 11a : 54Mbps				
Test	Wifi 5G TRP			Test	Wifi 5G TIS
Result	36	64	165	Result	165
Txp Ave (dBm)	11. 4	10. 3	8. 7	Sens Ave (dBm)	-67. 0



Gain and Efficiency

Passive Test For WIFI2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	53.75	-2.7	1.07	-1.08	29.839	23.915	1.07	-12.36	52.03	53.99
2410	52.53	-2.8	1.36	-0.79	29.277	23.254	1.36	-12.66	51.99	53.84
2420	45.27	-3.44	0.93	-1.22	25.085	20.183	0.93	-13.88	52.04	53.98
2430	44.89	-3.48	0.82	-1.33	24.817	20.072	0.82	-13.91	52.23	54.02
2440	56.13	-2.51	1.69	-0.46	31.253	24.876	1.69	-12.48	52.54	54.25
2450	52.48	-2.8	1.3	-0.85	29.203	23.28	1.3	-12.62	52.64	54.11
2460	47.47	-3.24	0.88	-1.27	26.704	20.768	0.88	-12.52	52.59	54.02
2470	49.39	-3.06	1.01	-1.14	27.997	21.394	1.01	-12.17	52.66	54.04
2480	57.15	-2.43	1.68	-0.47	32.513	24.636	1.68	-11.84	53.06	54.43
2490	62.03	-2.07	2.13	-0.02	35.74	26.288	2.13	-12.93	53.33	54.57
2500	51.26	-2.9	1.45	-0.7	29.748	21.509	1.45	-13.99	53.11	54.29

Gain and Efficiency

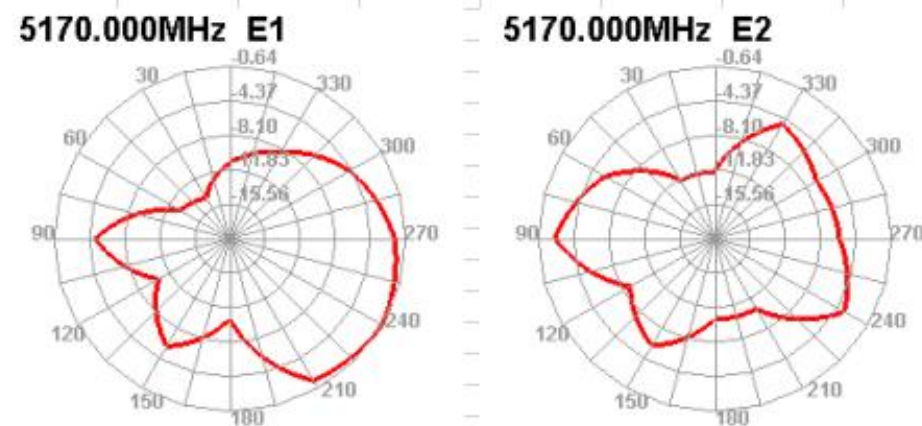
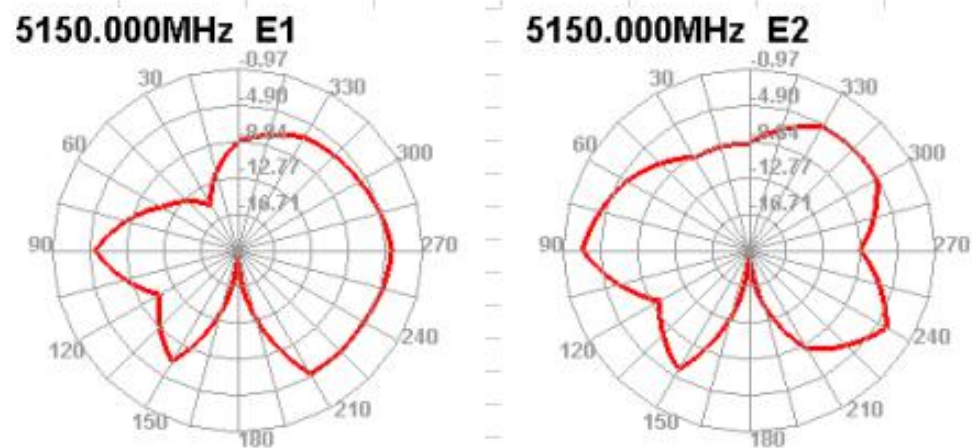
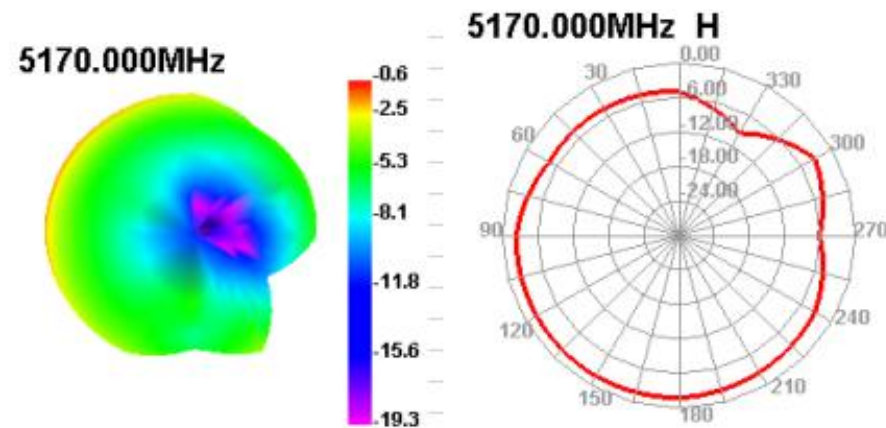
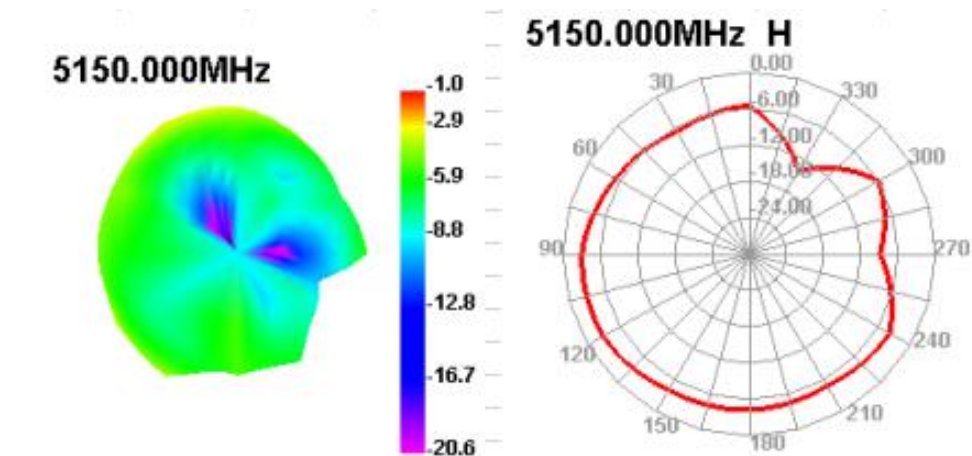




Gain and Efficiency

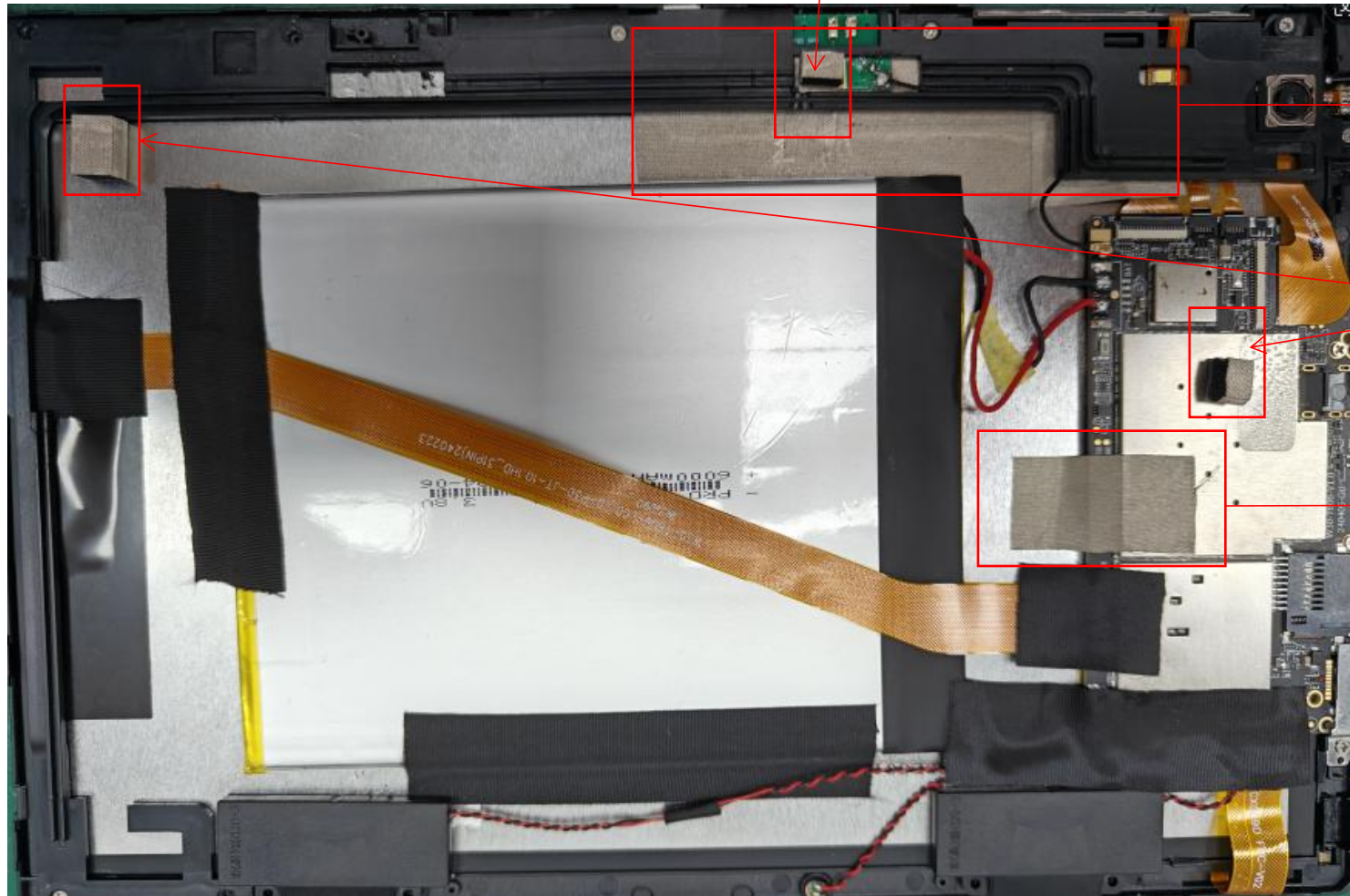
Passive Test For WIFI5.8										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
5150	23.45	-6.3	-0.97	-3.12	10.716	12.729	-0.97	-20.64	67.1	67.06
5200	28.62	-5.43	-0.75	-2.9	12.947	15.669	-0.75	-18.08	66.82	66.31
5250	35.67	-4.48	0.15	-2	14.146	21.524	0.15	-16.76	66.81	66.91
5300	34.22	-4.66	-0.43	-2.58	14.334	19.886	-0.43	-16.55	67.46	67.1
5350	43.1	-3.66	0.41	-1.74	16.438	26.661	0.41	-15.91	67.85	68.05
5400	48.62	-3.13	1.05	-1.1	19.726	28.899	1.05	-13.75	68.31	68.3
5450	45.82	-3.39	1.99	-0.16	16.624	29.198	1.99	-20.82	68.63	69.56
5500	38.87	-4.1	1.32	-0.83	14.642	24.229	1.32	-17.87	69.22	69.75
5550	37.57	-4.25	0.35	-1.8	13.182	24.391	0.35	-16.87	70.49	71.74
5600	39.86	-3.99	2.97	0.82	13.852	26.013	2.97	-15.01	70.64	72.39
5650	33.7	-4.72	1.72	-0.43	10.928	22.776	1.72	-19.27	70.41	70.91
5700	35.58	-4.49	1.72	-0.43	12.142	23.436	1.72	-15.5	70.26	71.01
5750	32.33	-4.9	1.92	-0.23	12.275	20.058	1.92	-15.51	69.85	70.95
5800	34.86	-4.58	1.32	-0.83	13.086	21.771	1.32	-16.35	69.93	71.14
5850	30.01	-5.23	0.77	-1.38	13.087	16.922	0.77	-17.65	70.26	70.23

Gain and Efficiency



环境处理 Environmental treatment

1. Ground the exposed copper position of the antenna small board with a conductive cloth, and then ground it with a conductive sponge to the bottom shell

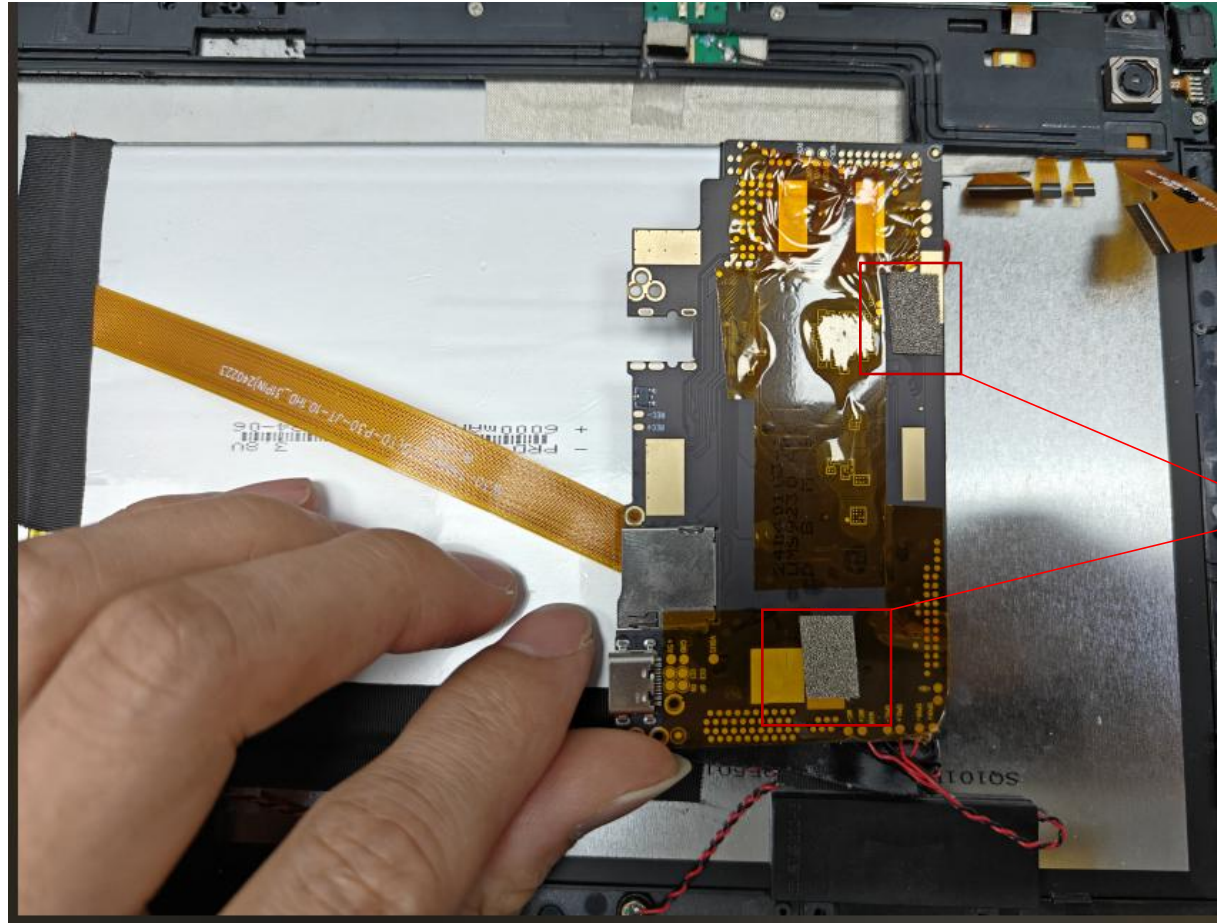


2: The camera cable is shielded with conductive cloth

3: Ground the conductive sponge and the laser-engraved area of the bottom shell

4: Attach conductive cloth to the mainboard and ground it to the screen

环境处理 Environmental treatment



5: Conductive wool is attached to the back of the motherboard and grounded to the screen



Provide better services for customers

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