

Antenna Measurement Repor for 电脑WIFI

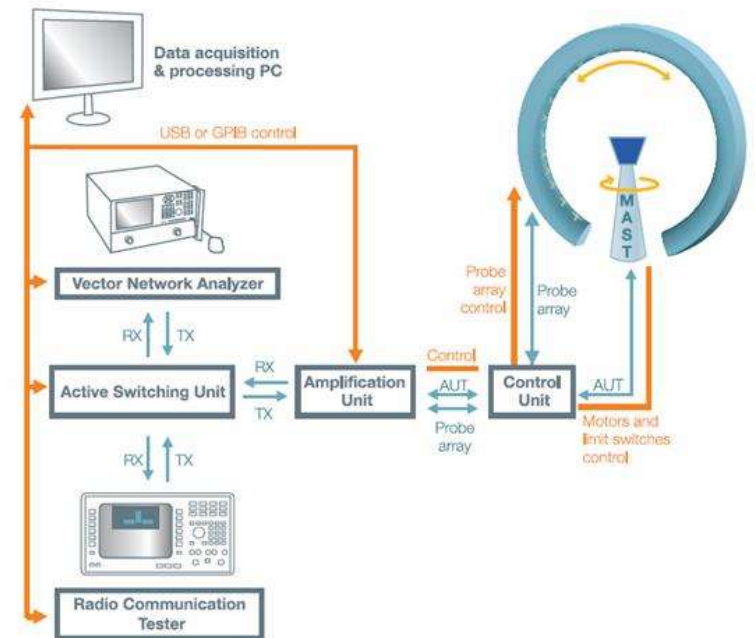
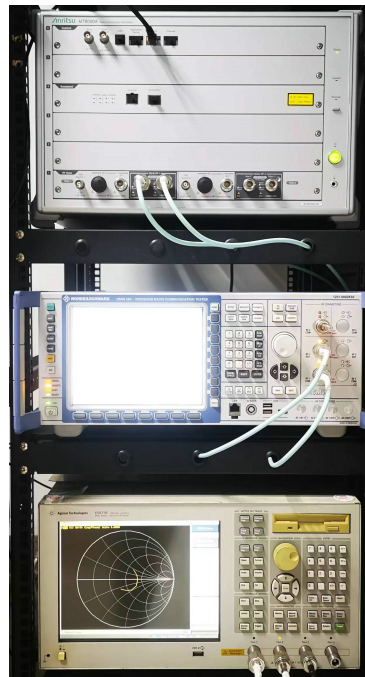
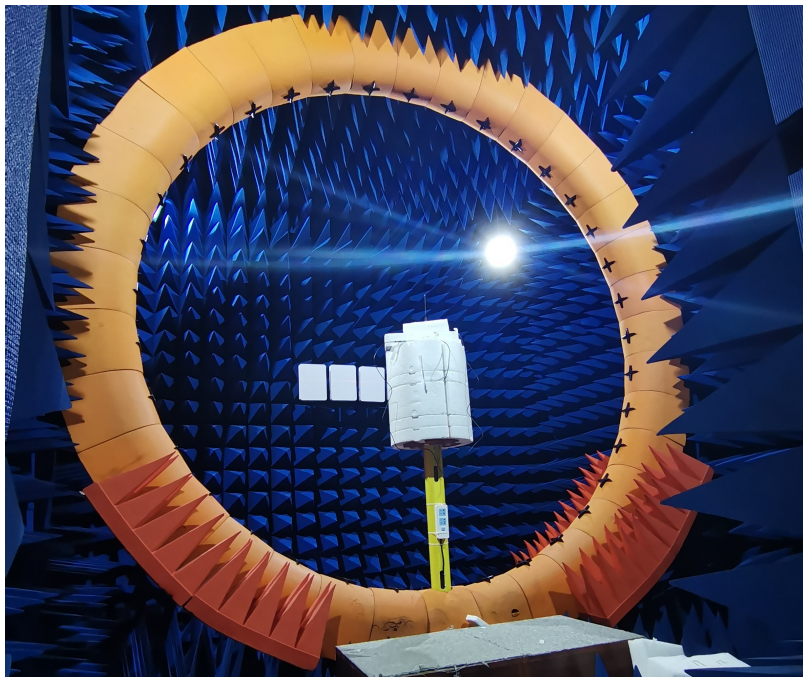
20251029

Antenna Measurement Report

Project name:	
Type of antenna:	WiFi
Frequency range:	2400-2500/5150-5850MHz
Redact:	
Approver:	
Version number:	V1.0
Date:	2025.10.29

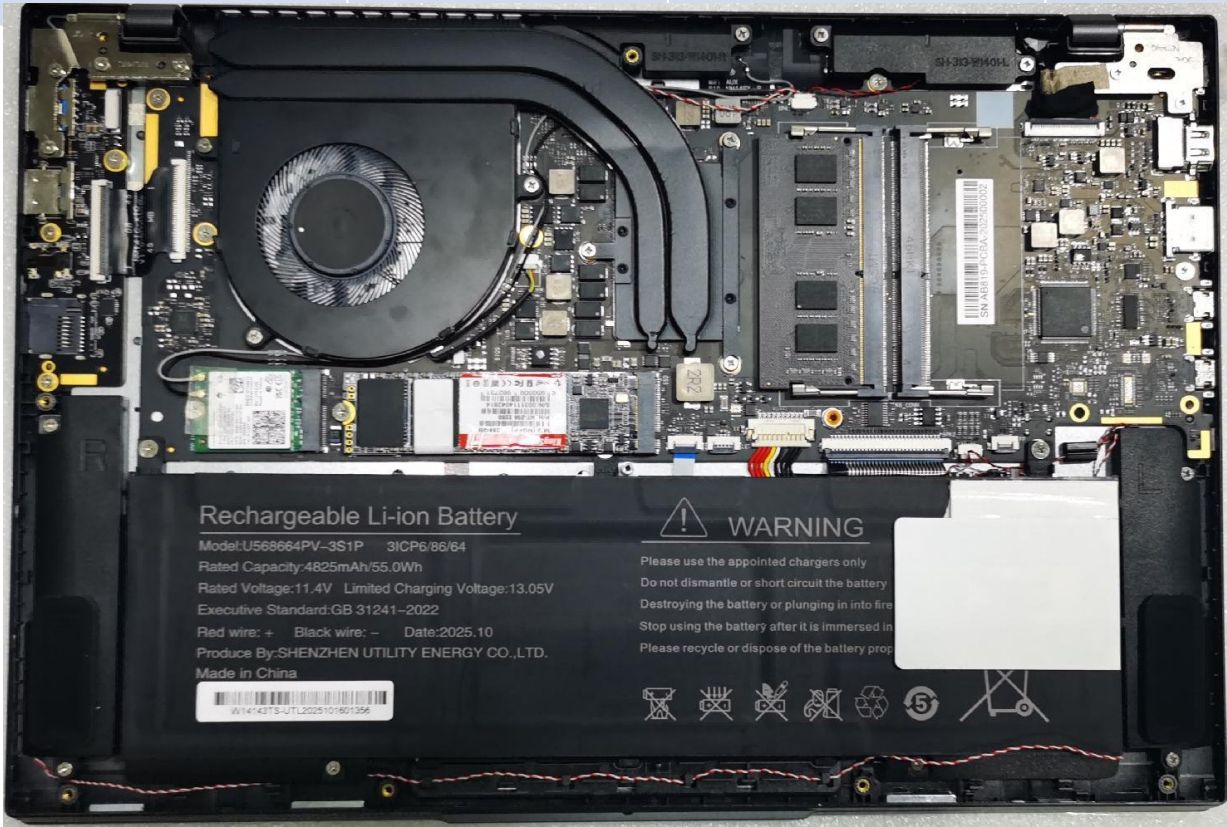
测试项目与设备

1. S参数	网络分析仪E5071C
2. 辐射参数	Microwave chamber E5071B(无源测试) CMW500 (WCDMA/LTE/WiFi/NB) MT8000A(NR)

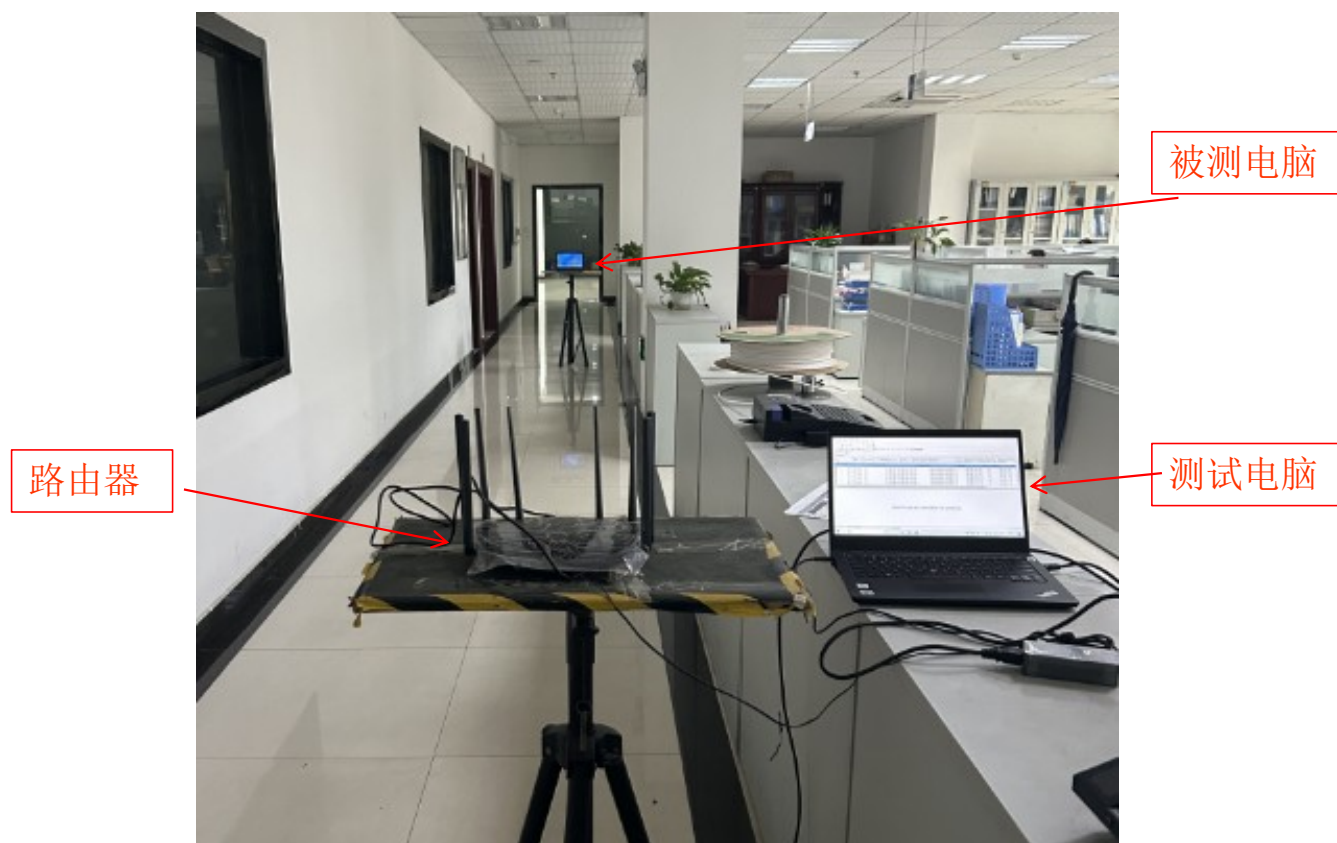


4. 产品信息

产品名称:					
测试频段:	WiFi				
料号: WIFI-MAIN	SLEingB220620250	颜色: 黑色/低损	0.81线径/线长250MM	端子规格:	四代
料号: WIFI-AUX	SLEingB220610260	颜色: 灰色/低损	0.81线径/线长260MM	端子规格:	四代



5. 吞吐量测试环境

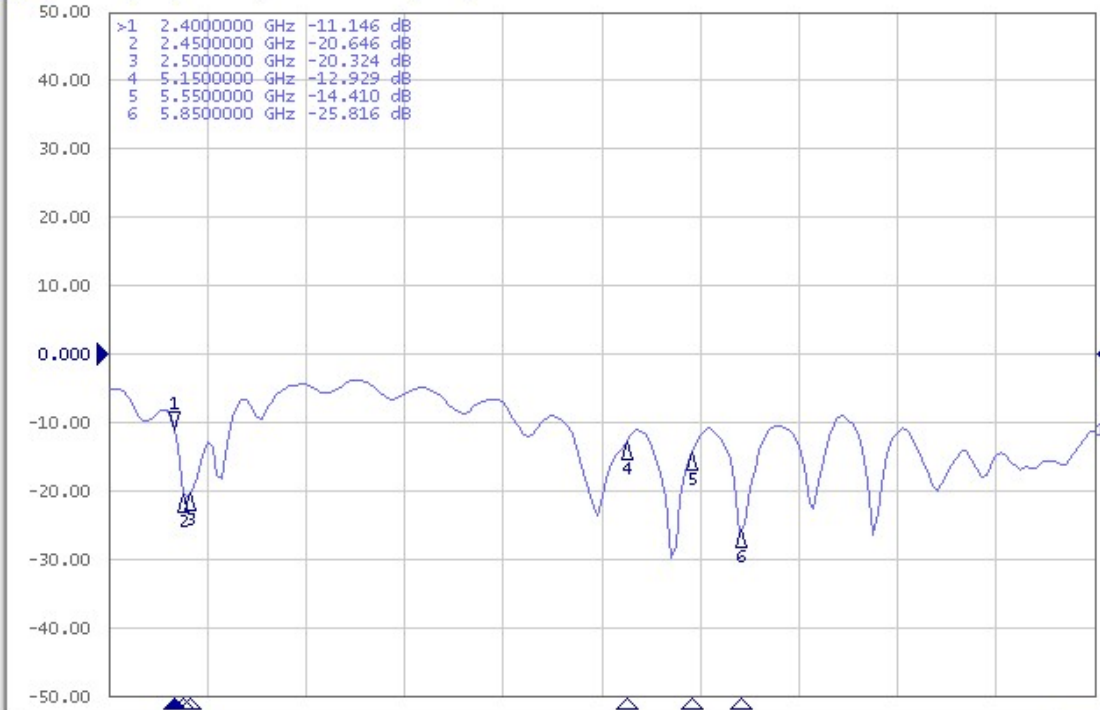


Rough description	WiFi antenna	Dimensions	
Impedance	50Ω	Test environment	Anechoic chamber
Freq. Range		VSWR	
Antenna type		Polarization	linear
HPBW / H	None	HPBW / E	None
Gain		Efficiency	
Connector type		Cable type	
Isolation	None	Special request	None

7. S数据

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

▶ S22 Log Mag 10.00dB/ Ref 0.000dB [F1 M]

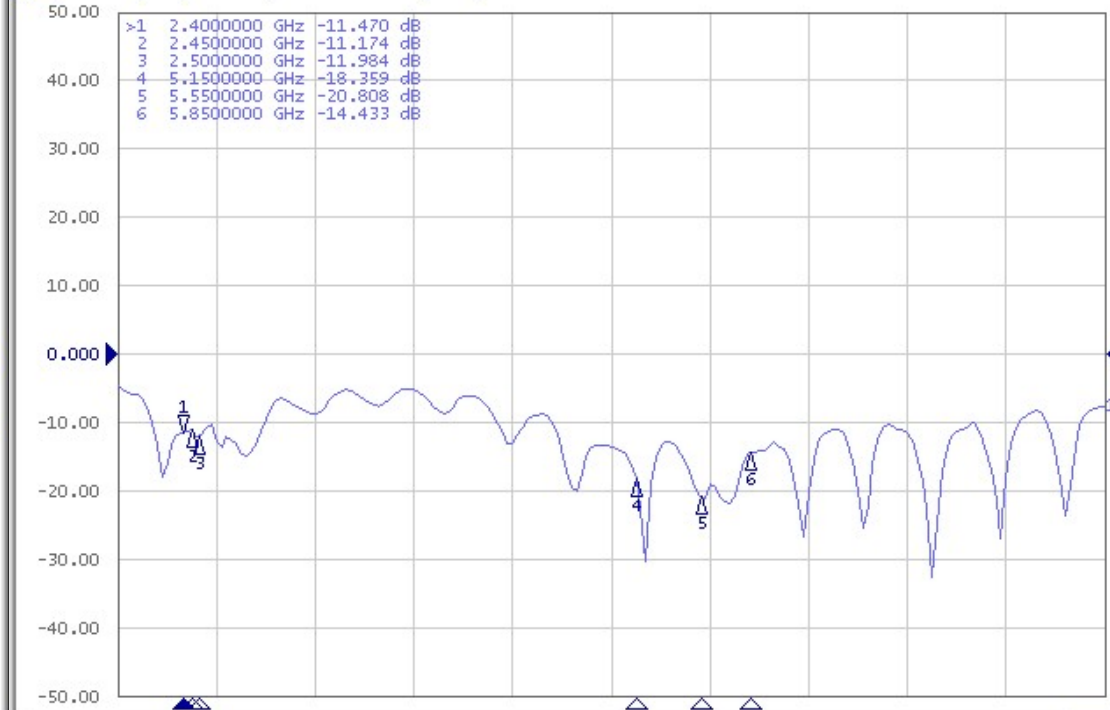


2 Start 2 GHz IFBW 70 kHz Stop 8 GHz Cor

Main

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

▶ S22 Log Mag 10.00dB/ Ref 0.000dB [F1 M]



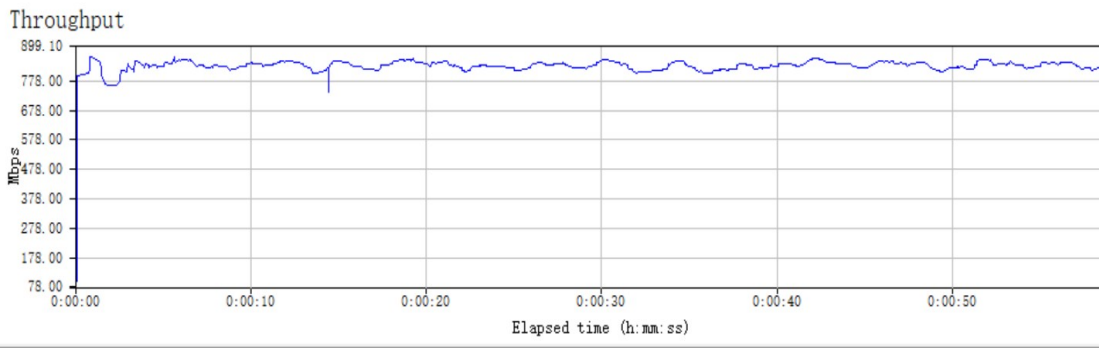
2 Start 2 GHz IFBW 70 kHz Stop 8 GHz Cor

AUX

8. 吞吐量数据

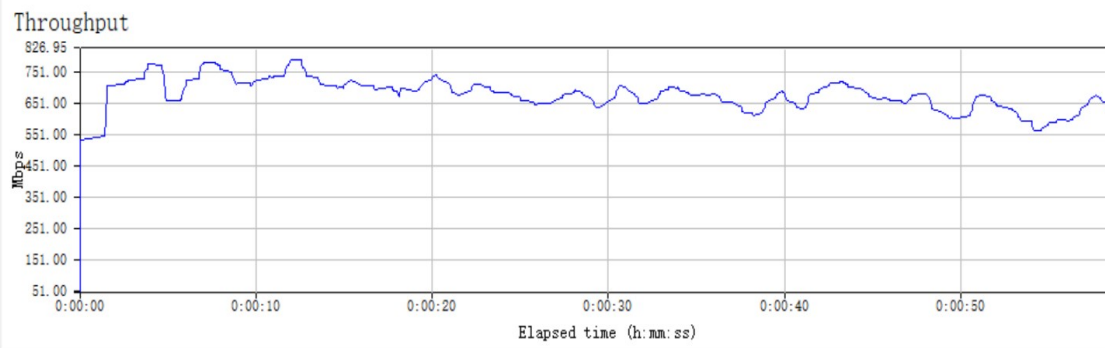
5.8GRX-823

Test Setup		Throughput	Transaction Rate	Response Time	Raw Data Totals		Endpoint Configuration				
Group	Pair Group Name	Run Status	Timing Records Completed	95% Confidence Interval	Average (Mbps)	Minimum (Mbps)	Maximum (Mbps)	Measured Time (sec)	Relative Precision		
All Pairs			617		823.477	23.974	124.805				
	Pair 1 No Group	Finished	65	-1.353 : +1.353	87.285	80.727	124.805	59.575	1.550		
	Pair 2 No Group	Finished	63	-1.414 : +1.414	84.363	77.444	120.846	59.742	1.676		
	Pair 3 No Group	Finished	61	-4.706 : +4.706	82.805	31.496	90.600	58.934	5.683		
	Pair 4 No Group	Finished	64	-0.949 : +0.949	85.594	79.920	101.781	59.817	1.109		
	Pair 5 No Group	Finished	64	-1.055 : +1.055	85.569	78.663	102.960	59.835	1.233		
	Pair 6 No Group	Finished	63	-1.354 : +1.354	84.335	78.740	119.780	59.762	1.606		
	Pair 7 No Group	Finished	59	-6.461 : +6.461	79.386	23.974	88.889	59.456	8.139		
	Pair 8 No Group	Finished	60	-5.695 : +5.695	81.137	27.146	88.300	59.159	7.019		
	Pair 9 No Group	Finished	54	-1.247 : +1.247	73.412	67.854	91.220	58.846	1.698		



5.8GTX-671

Test Setup		Throughput	Transaction Rate	Response Time	Raw Data Totals		Endpoint Configuration				
Group	Pair Group Name	Run Status	Timing Records Completed	95% Confidence Interval	Average (Mbps)	Minimum (Mbps)	Maximum (Mbps)	Measured Time (sec)	Relative Precision		
All Pairs			502		671.392	7.639	88.790				
	Pair 1 No Group	Finished	50	-2.360 : +2.360	68.006	50.697	88.398	58.818	3.471		
	Pair 2 No Group	Finished	51	-2.318 : +2.318	68.245	51.613	88.790	59.785	3.397		
	Pair 3 No Group	Finished	52	-2.019 : +2.019	69.746	53.333	87.146	59.645	2.894		
	Pair 4 No Group	Finished	52	-1.997 : +1.997	69.846	53.800	86.486	59.560	2.859		
	Pair 5 No Group	Finished	52	-1.828 : +1.828	70.343	56.778	87.816	59.139	2.599		
	Pair 6 No Group	Finished	52	-1.900 : +1.900	70.318	55.134	85.745	59.160	2.702		
	Pair 7 No Group	Finished	50	-2.378 : +2.378	68.063	51.847	85.562	58.769	3.494		
	Pair 8 No Group	Finished	52	-1.847 : +1.847	70.296	55.172	85.837	59.178	2.828		
	Pair 9 No Group	Finished	52	-1.947 : +1.947	70.211	54.385	88.398	59.250	2.773		



9. 无源数据

Main

Frequency ID	1	2	3	4	5	6	7	8	9	10	11				
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500				
Gain (dBi)	1.60	1.65	1.52	1.41	1.39	1.64	1.38	2.50	0.59	0.06	0.47				
Efficiency (%)	27.14	27.90	28.27	28.74	30.05	31.41	32.48	33.43	34.09	35.55	37.33				
Frequency ID	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Frequency (MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Gain (dBi)	1.57	1.40	2.50	2.64	1.38	2.10	1.70	1.56	0.90	0.64	0.88	1.88	2.23	2.38	2.10
Efficiency (%)	27.03	27.04	33.88	30.82	30.73	31.26	32.19	26.44	27.89	32.68	29.18	29.65	31.16	33.28	30.73

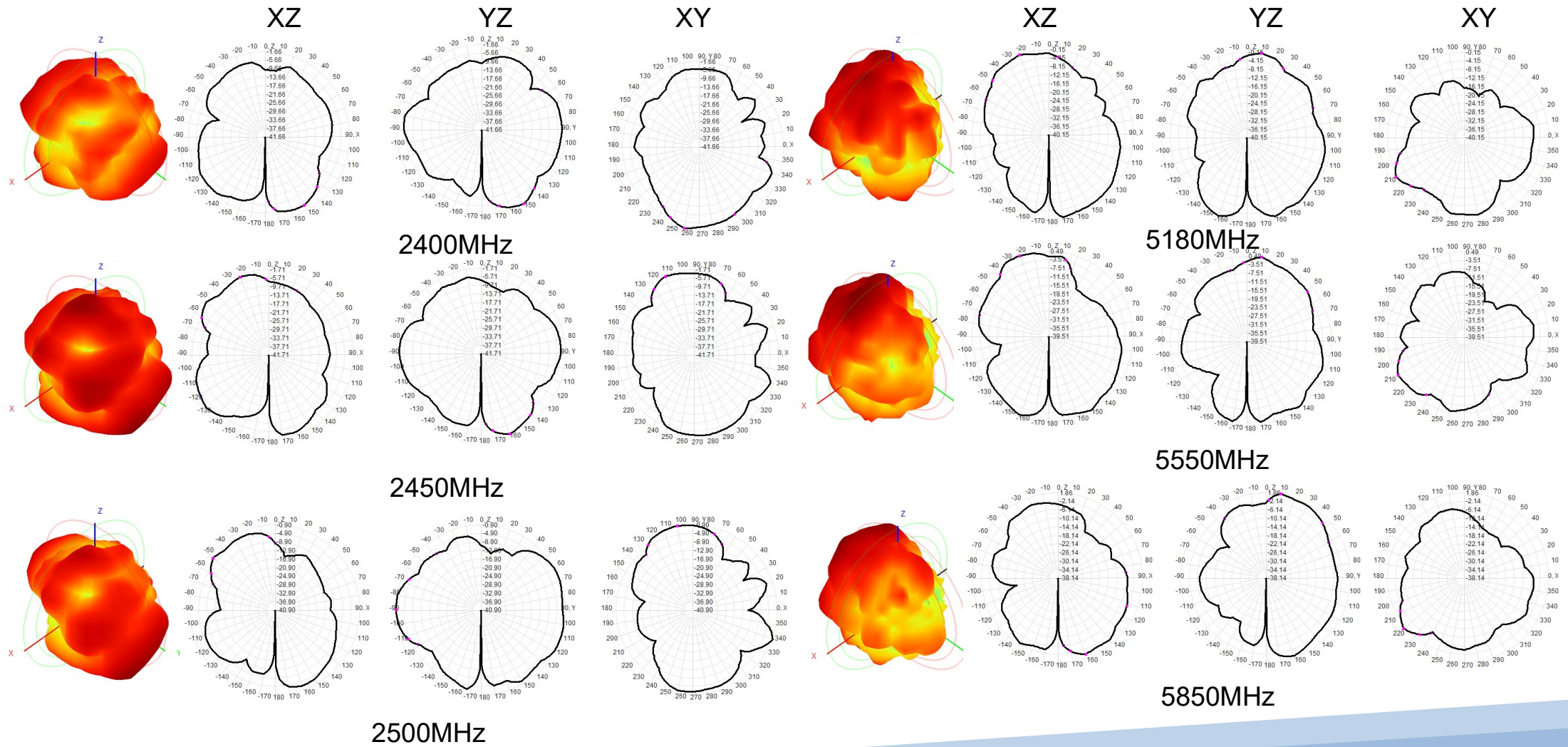
10. 无源数据

AUX

Frequency ID	1	2	3	4	5	6	7	8	9	10	11				
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500				
Gain (dBi)	1.98	1.59	1.07	1.42	1.28	1.25	2.02	2.50	2.43	1.86	1.38				
Efficiency (%)	33.36	32.50	30.75	35.24	36.76	35.45	33.79	32.64	31.77	32.58	33.35				
Frequency ID	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Frequency (MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Gain (dBi)	1.53	2.12	2.50	1.45	0.88	0.99	1.76	0.41	1.21	0.71	1.43	1.36	1.61	1.95	1.61
Efficiency (%)	29.97	31.46	27.57	30.74	28.92	29.01	31.67	27.90	30.90	28.67	29.38	28.38	28.46	31.92	31.25

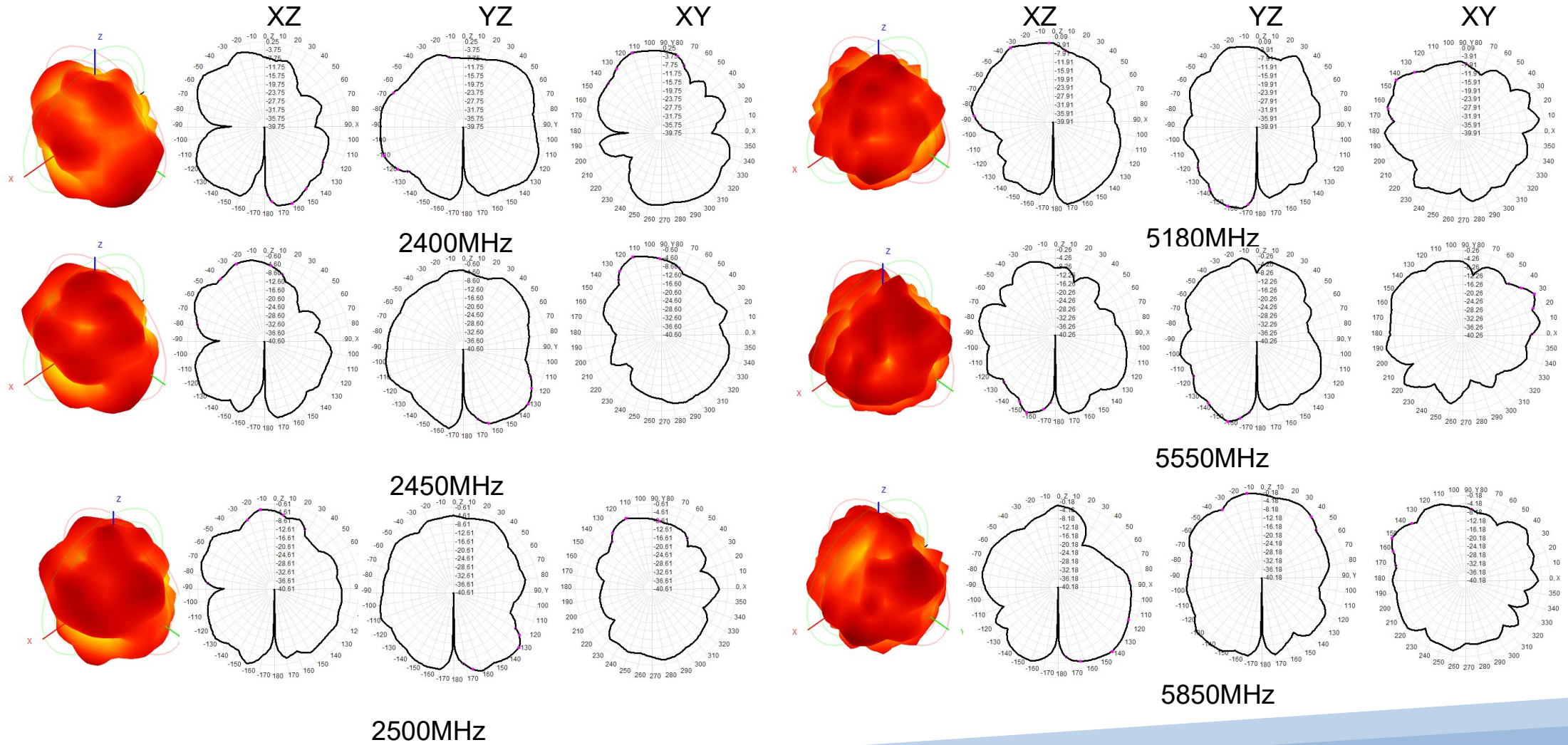
11. 苹果图

Main

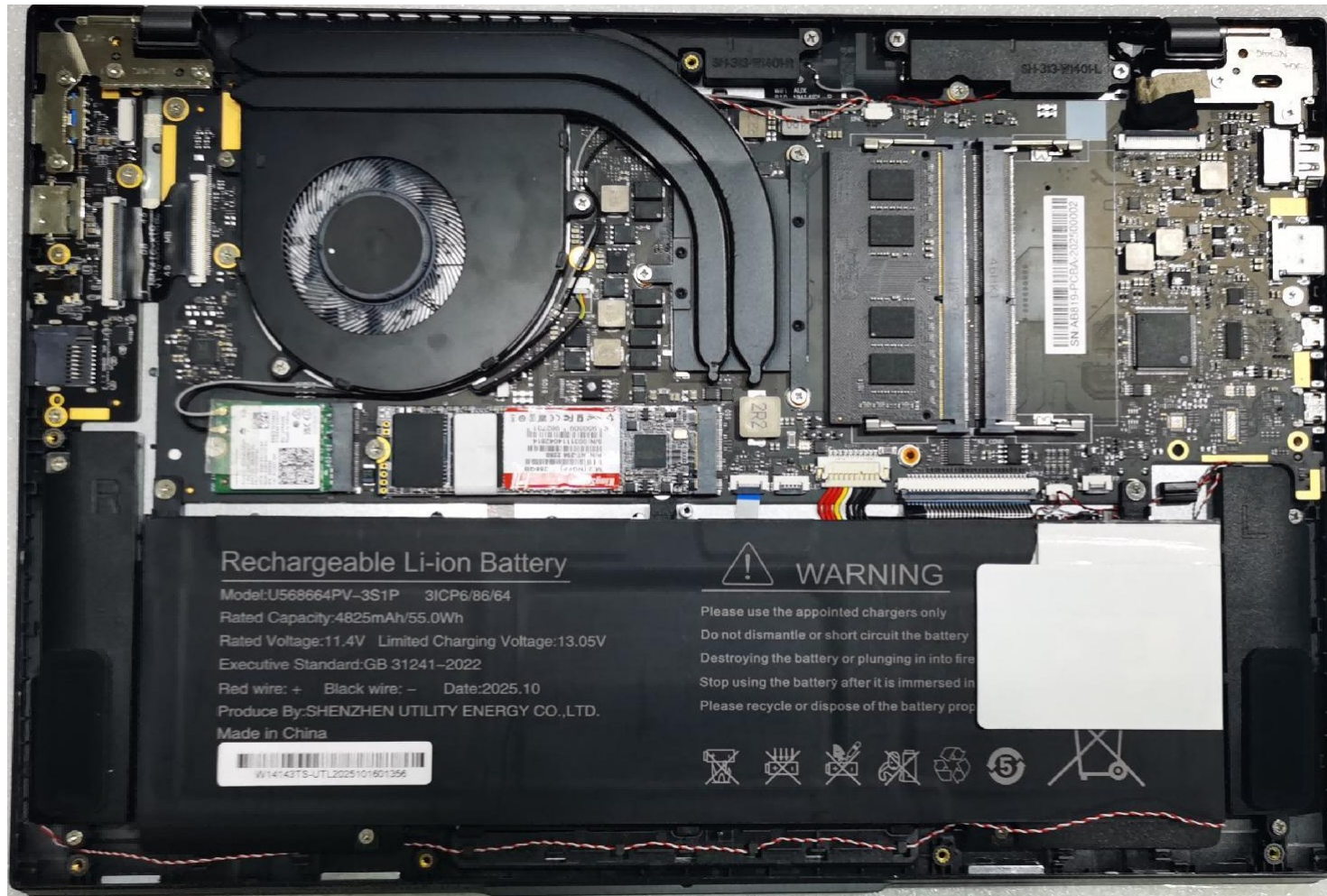


12. 苹果图

AUX



13. 环境处理



14. 模块信息



15. 总结

除原有处理外其他无改变。

