

深圳市亿圣邦科技有限公司

Shenzhen Yishengbang Technology Co., Ltd Antenna Specifications

Customer: 一恒科

Project: KB1001

Product: WIFI/BT Antenna

Report date: 2025-06-20

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Approved by : 林美财

Purpose

This report is to measure the performance of SLK for Master Antenna on . All measure data are showed below.

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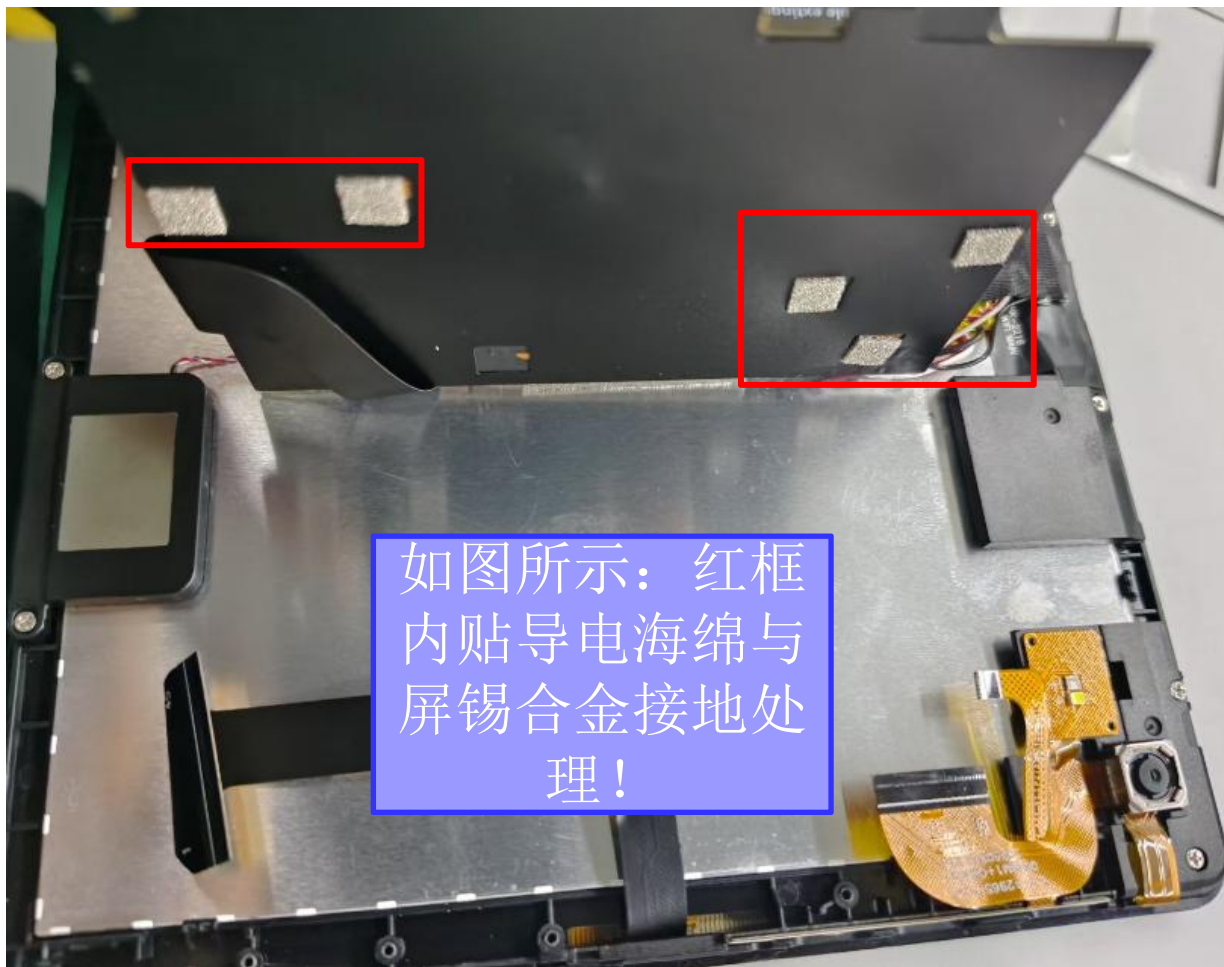
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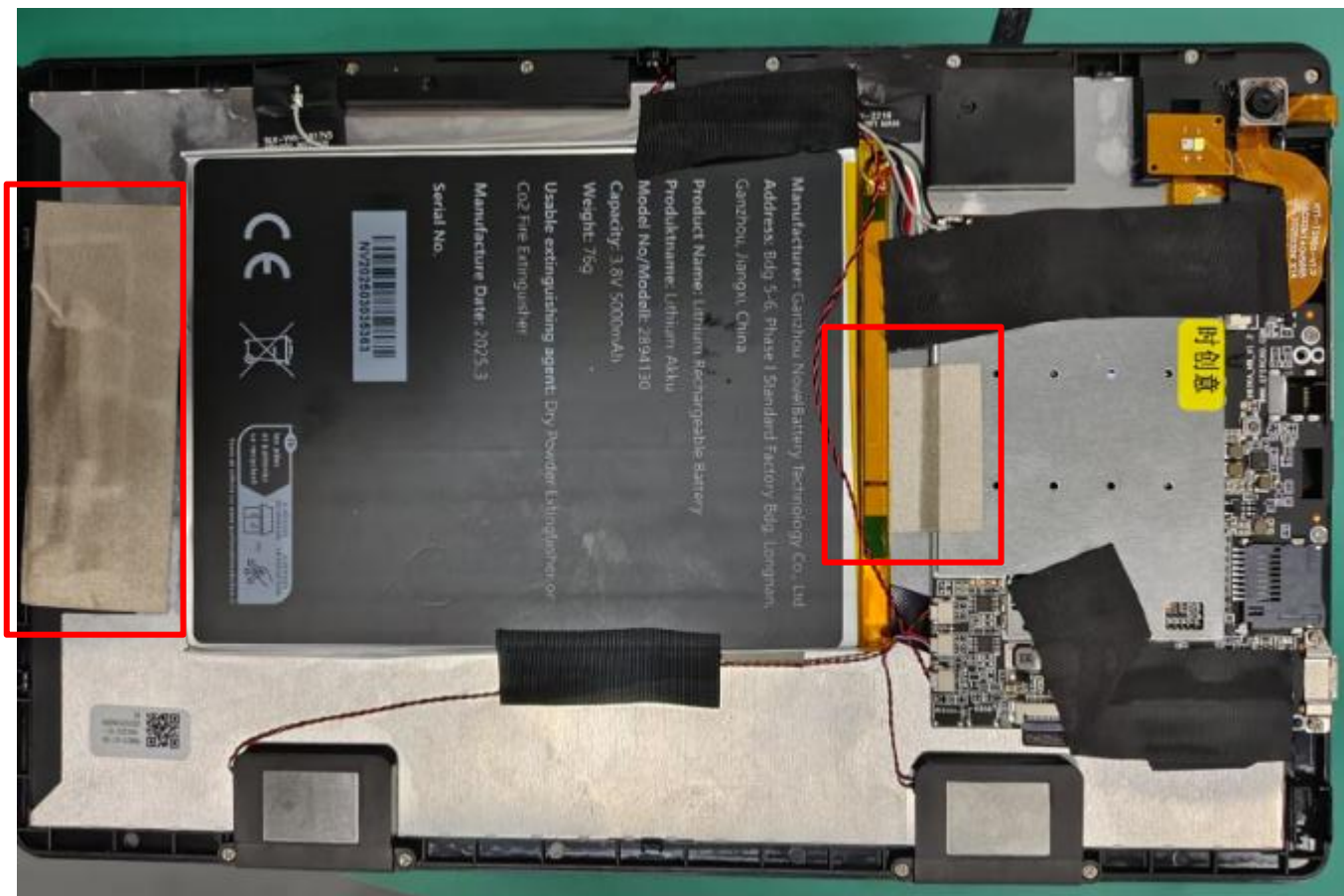
1. Product Overview



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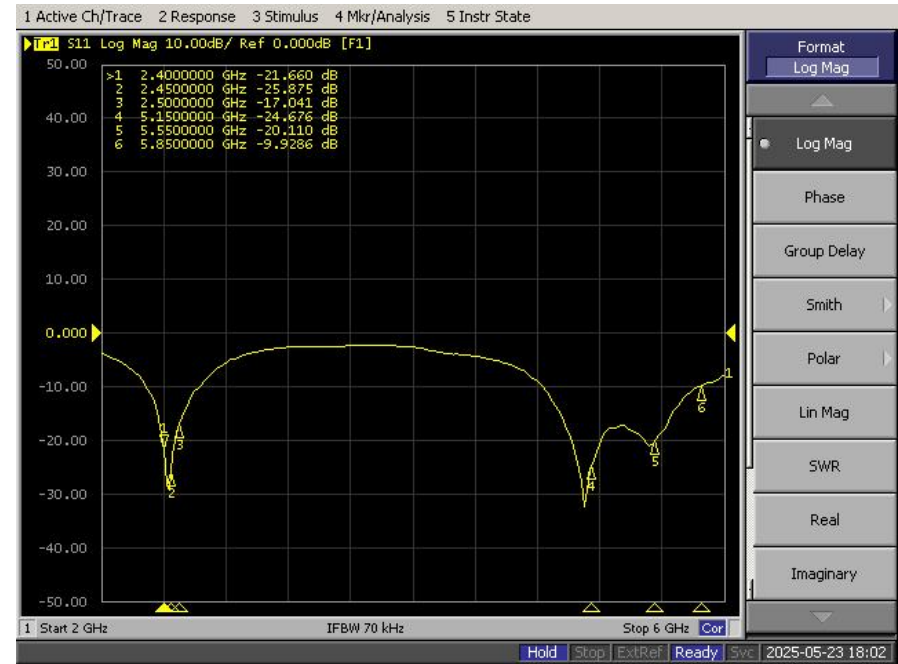
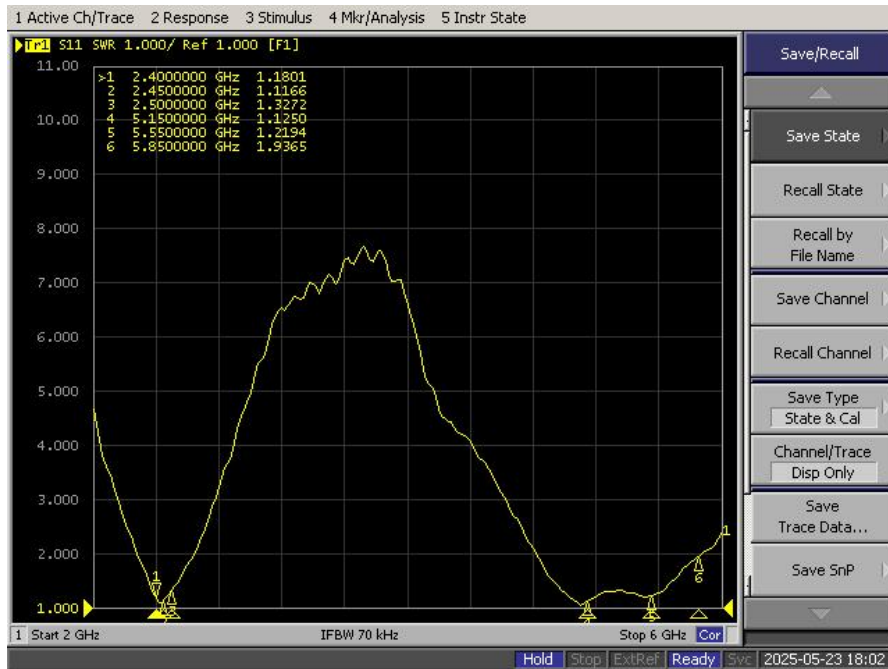
1. Product Overview



如图所示：红框内贴导电布拉至屏锡合金接地处理！屏贴导电布屏蔽处理！

2. Test Result

2.1 WIFI Antenna VSWR/S11

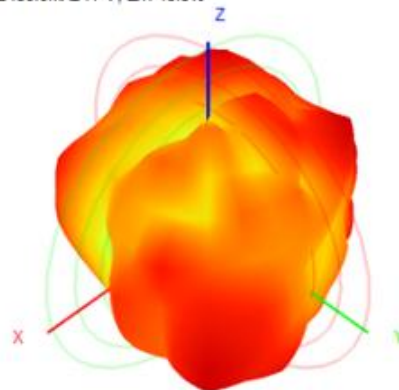


2. Test Result

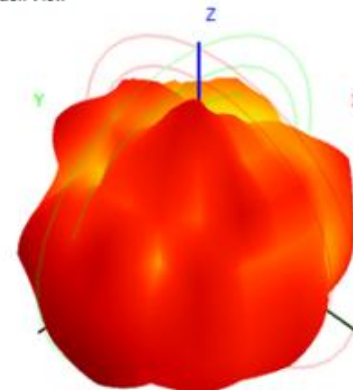
2.2 WIFI MAIN Antenna Gain/Efficiency/3D DATA

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400	-3.78	1.89	41.91
2410	-3.68	1.12	42.85
2420	-3.27	1.55	47.10
2430	-3.41	1.52	45.56
2440	-3.42	1.46	45.47
2450	-3.61	1.34	43.55
2460	-3.39	1.57	45.81
2470	-3.77	1.17	41.98
2480	-3.76	1.22	42.10
2490	-3.66	1.44	43.03
2500	-3.73	1.26	42.33
5150	-3.39	2.22	45.83
5250	-3.67	2.30	42.95
5350	-3.51	2.23	44.56
5450	-3.60	2.80	43.69
5550	-3.87	2.78	41.00
5650	-3.53	2.51	44.38
5750	-3.10	2.99	48.92
5850	-3.25	2.74	47.29

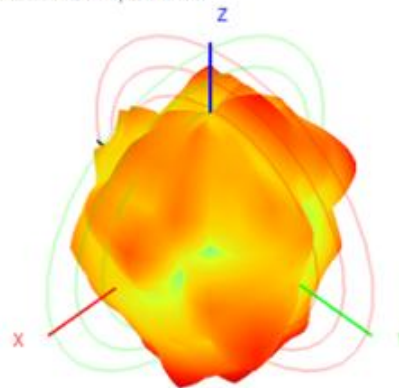
2450.0MHz H+V, Eff: 43.5%



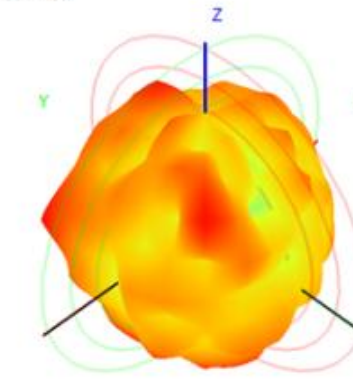
Back View



5850.0MHz H+V, Eff: 47.3%

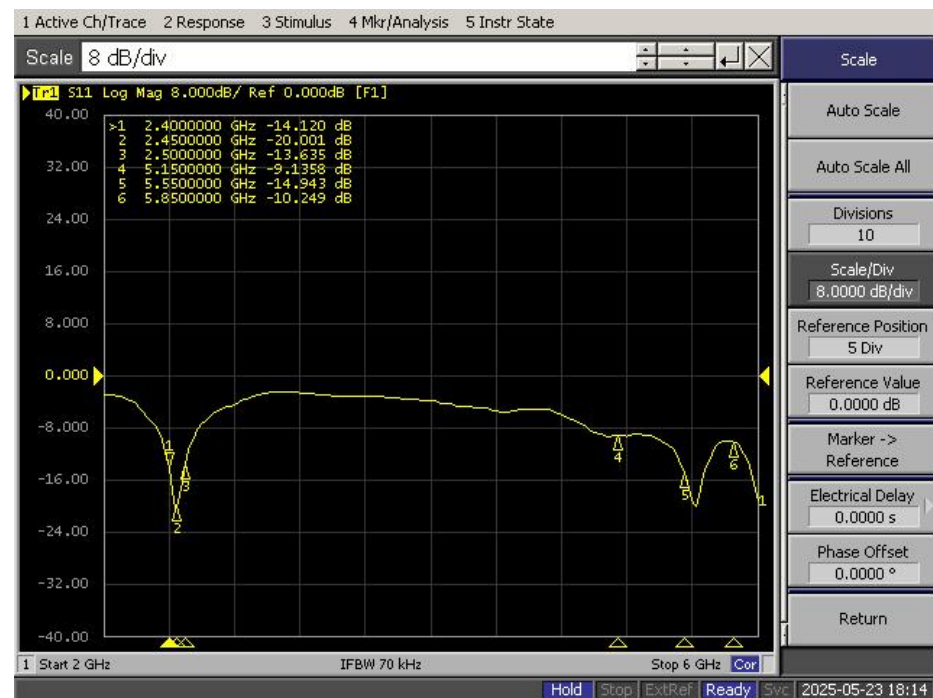
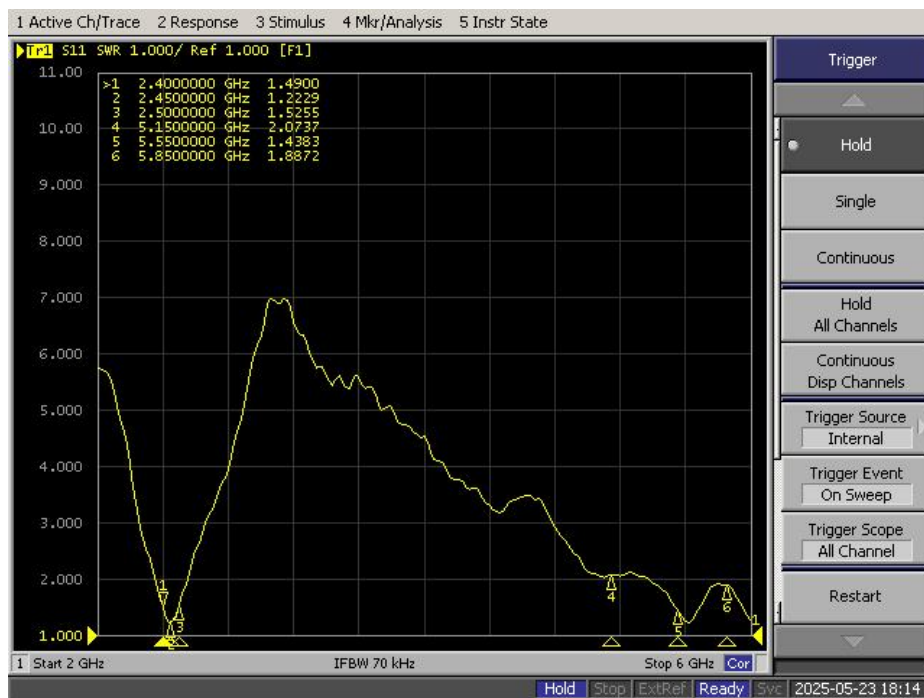


Back View



2. Test Result

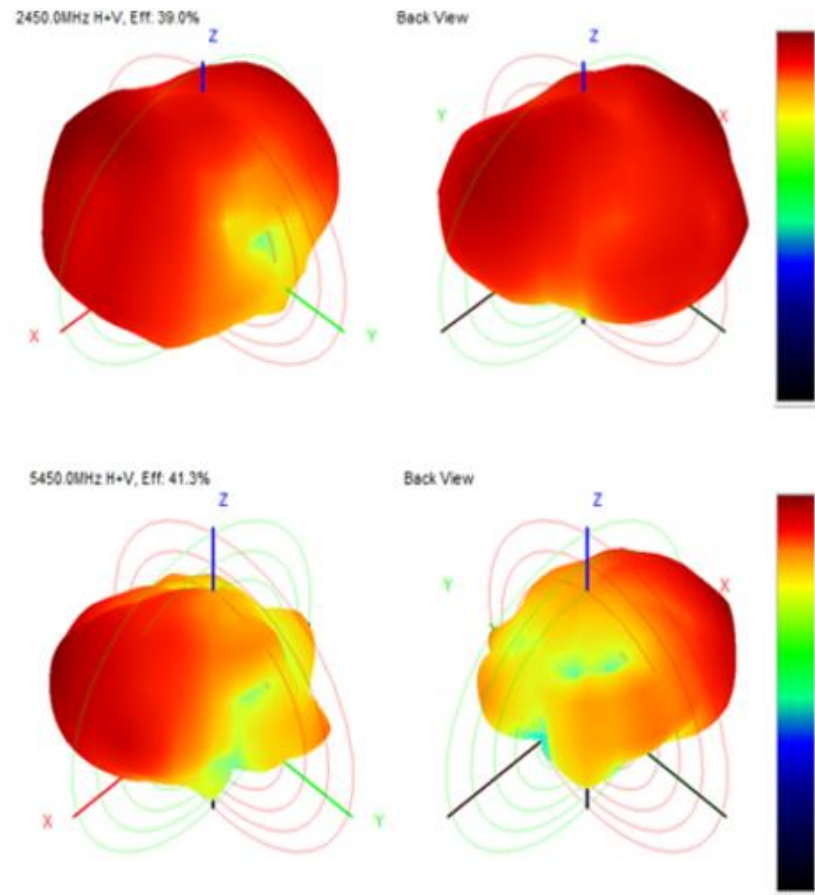
2.3 BT Antenna VSWR/S11



2. Test Result

2.4 BT MAIN Antenna Gain/Efficiency/3D DATA

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400	-4.39	1.65	36.34
2410	-4.25	1.82	37.54
2420	-4.24	1.85	37.59
2430	-4.13	1.94	38.62
2440	-4.29	1.97	37.18
2450	-3.98	1.17	39.95
2460	-4.22	1.02	37.78
2470	-4.10	1.15	38.89
2480	-4.02	1.24	39.58
2490	-3.98	1.07	39.97
2500	-3.95	1.91	40.22
5150	-3.93	2.43	40.45
5250	-3.68	2.16	42.84
5450	-3.84	2.80	41.25
5850	-3.71	2.60	42.49



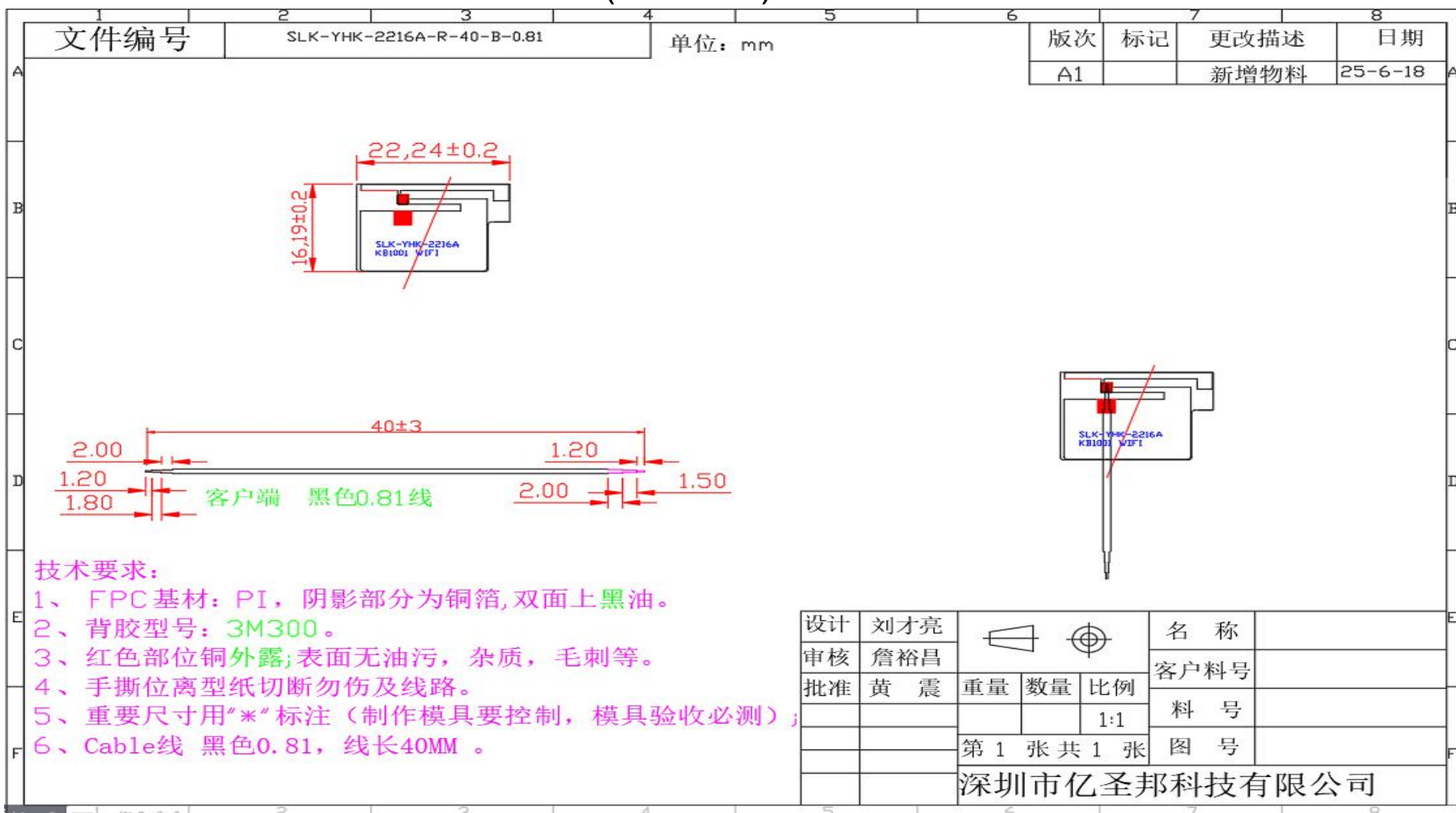
2. Test Result

2.5 WIFI Antenna TRP/TIS

2. 4G/5G-WIFI有源测试			
频段	1	6	11
B-TRP-11Mbps	13.12	11.93	13.5
B-TIS-11Mbps	-82.35	-82.34	-82.1
G-TRP-54Mbps	12.32	12.85	12.74
G-TIS-54Mbps	-70.31	-70.26	-70.07
N-TRP-MCS7	12.06	12.22	12.05
N-TIS-MCS7	-67.38	-67.49	-67.52
频段	36	149	165
A-TRP-54Mbps	13.44	13.1	12.51
A-TIS-54Mbps	-69.02	-69.27	-69.31

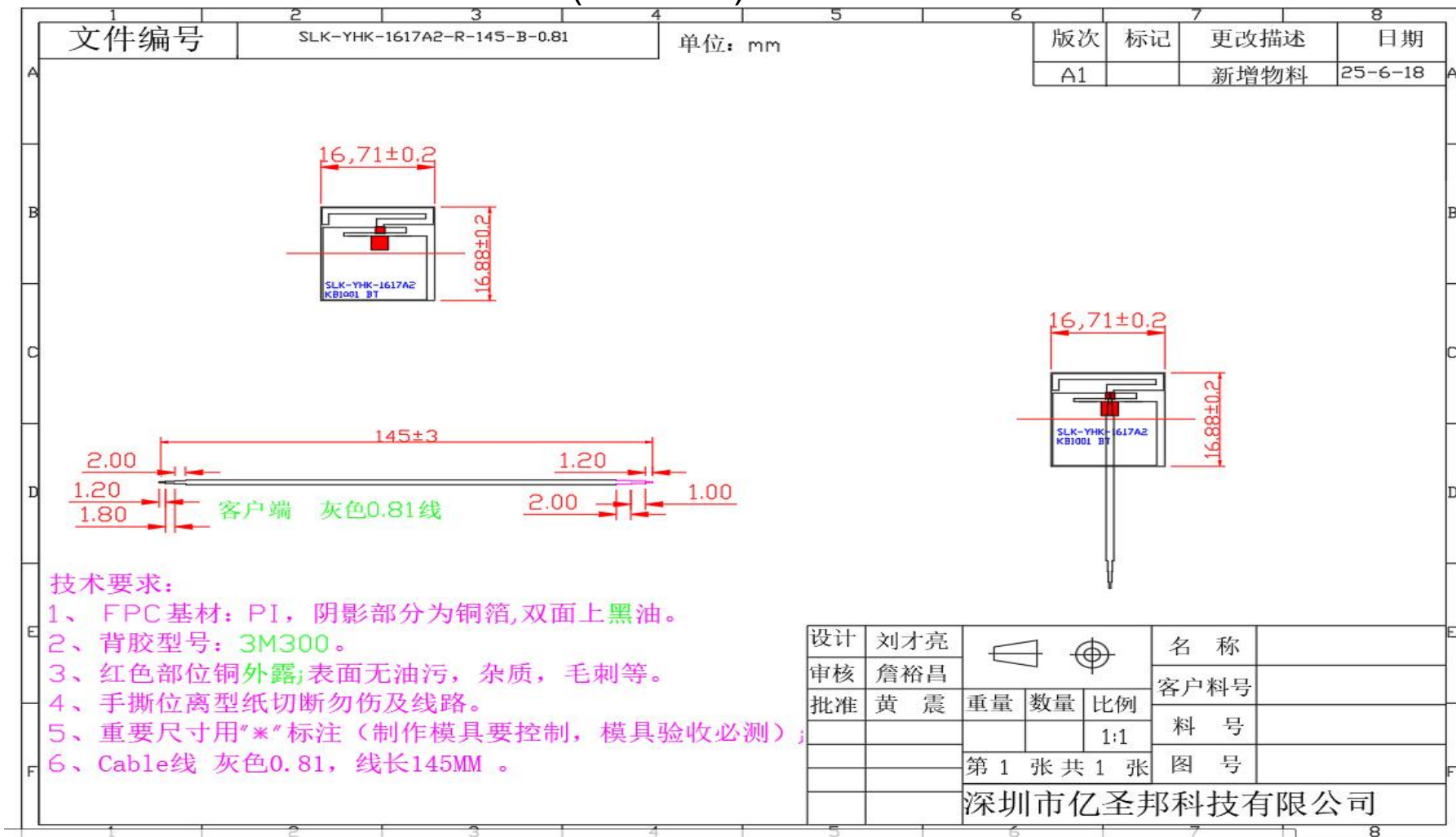
2. Test Result

2.6 WIFI Antenna Dimensions (unit: mm)



2. Test Result

2.6 BT Antenna Dimensions (unit: mm)





3. Conclusions

Thank you!