

深圳市亿圣邦科技有限公司

Shenzhen Yishengbang Technology Co., Ltd Antenna Test Report

Customer: 一恒科

Project: 一体机A2

Product: WIFI/BT Antenna

Report date: 2025-07-21

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Purpose

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

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2.2 WIFI Antenna Gain/Efficiency/3D DATA

2.3 BT Antenna VSWR

2.4 BT Antenna Gain/Efficiency/3D DATA

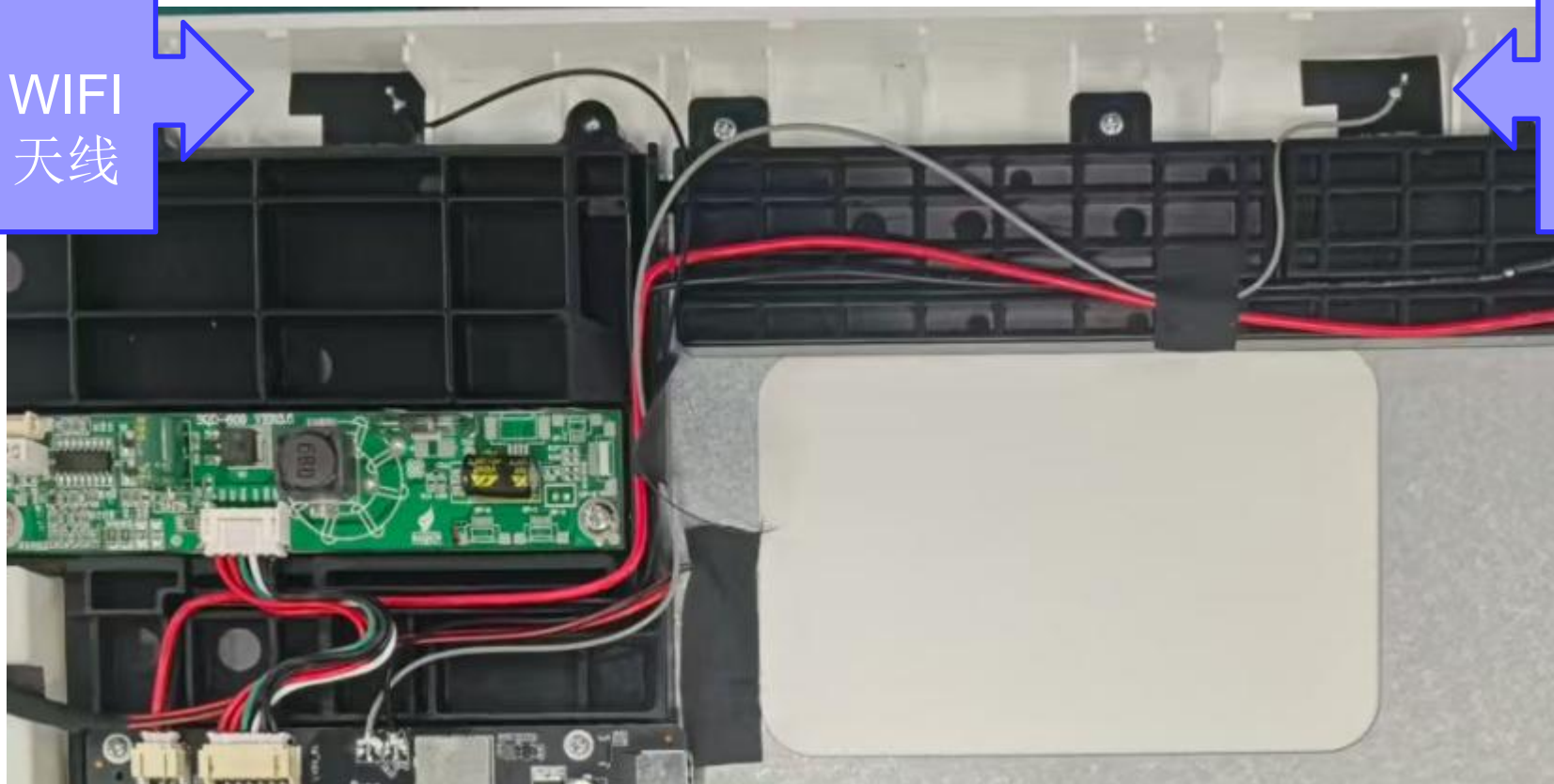
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1. Product Overview

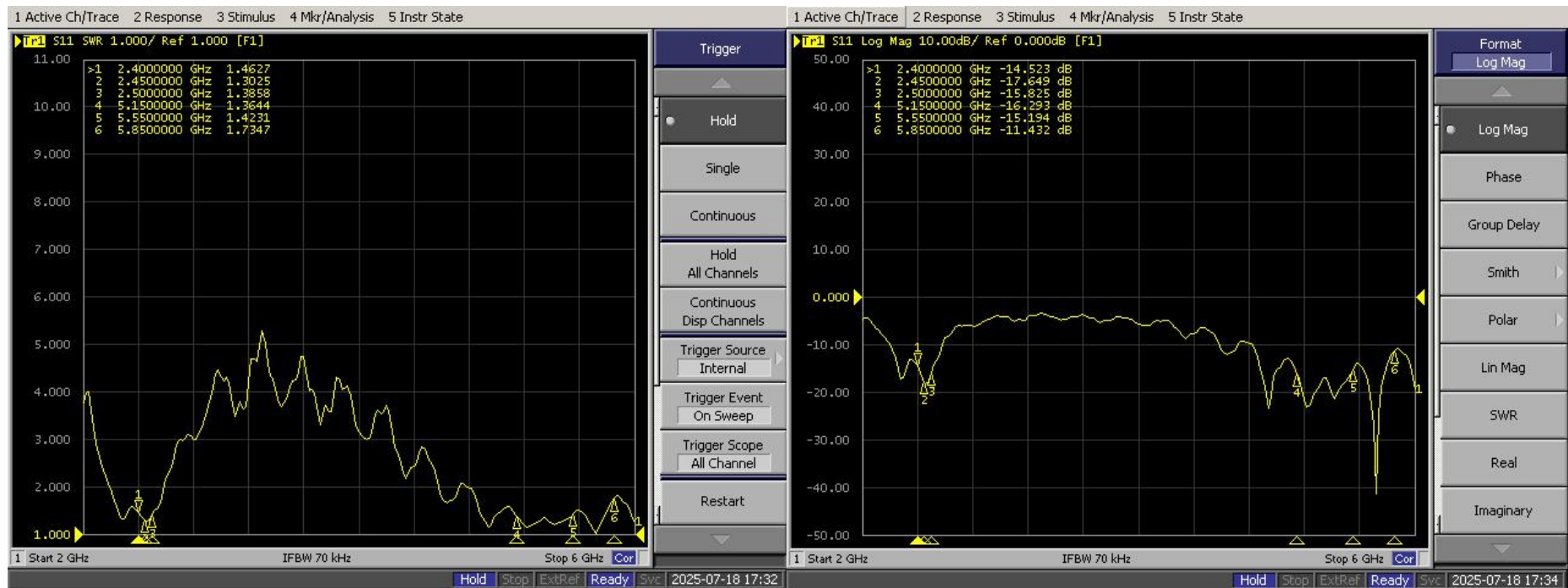
WIFI
天线

BT
天线



2. Test Result

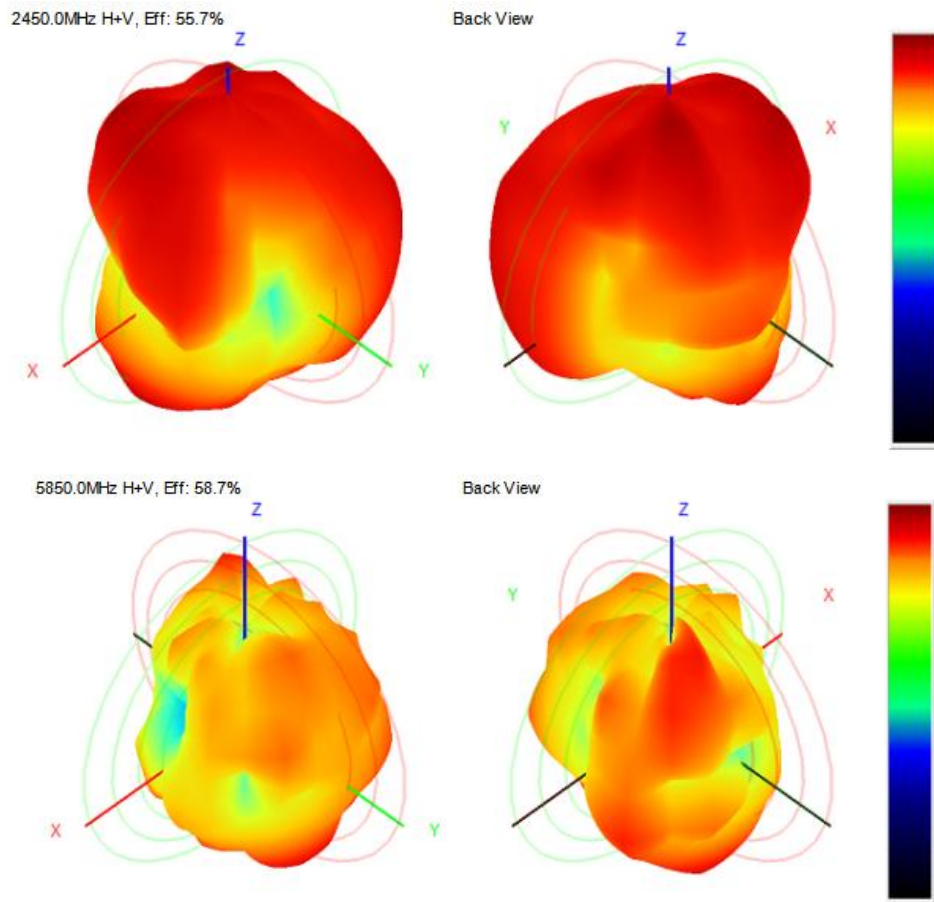
2.1 WIFI Antenna VSWR/S11



2. Test Result

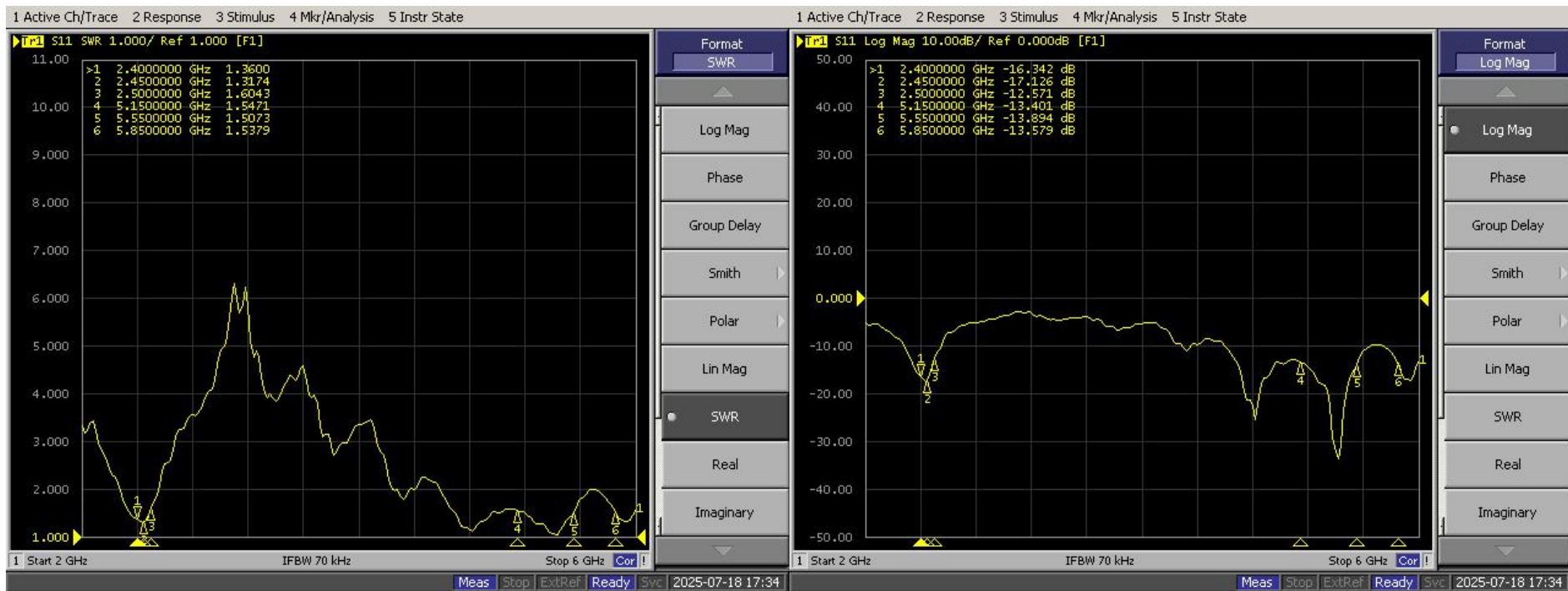
2.2 WIFI Antenna Gain/Efficiency/3D DATA

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400	-3.02	2.39	49.85
2410	-2.88	2.31	51.51
2420	-2.61	2.50	54.89
2430	-2.53	2.60	55.82
2440	-2.53	2.31	55.80
2450	-2.54	2.53	55.73
2460	-2.32	2.75	58.56
2470	-2.59	2.71	55.08
2480	-2.50	3.05	56.25
2490	-2.46	3.30	56.76
2500	-2.51	3.32	56.13
5150	-4.37	3.16	36.58
5250	-3.79	3.77	41.77
5350	-3.23	3.18	47.53
5450	-3.04	2.89	49.65
5550	-3.49	3.51	44.79
5650	-3.06	3.69	49.41
5750	-2.96	3.63	50.58
5850	-2.31	3.95	58.69



2. Test Result

2.3 BT Antenna VSWR/S11

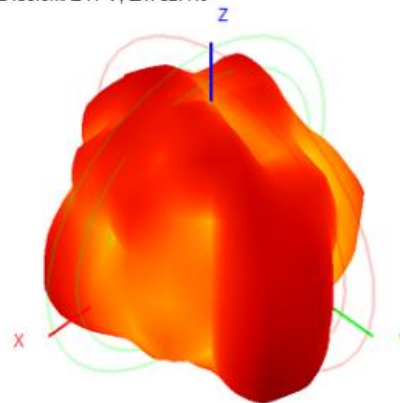


2. Test Result

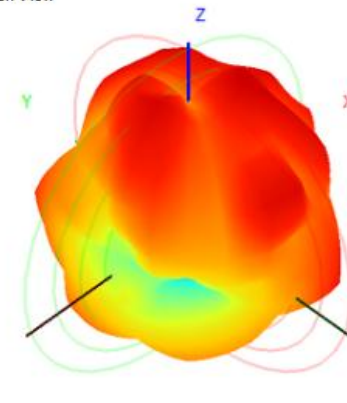
2.4 BT Antenna Gain/Efficiency/3D DATA

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400	-3.30	2.56	46.74
2410	-3.16	2.76	48.35
2420	-2.69	2.20	53.80
2430	-2.75	2.27	53.09
2440	-2.70	2.80	53.67
2450	-2.81	2.98	52.38
2460	-2.60	3.05	54.93
2470	-2.94	2.88	50.87
2480	-2.93	3.00	50.98
2490	-2.88	2.95	51.53
2500	-2.94	2.85	50.78
5150	-4.22	1.13	37.82
5250	-4.32	1.35	36.95
5350	-3.87	1.75	41.00
5450	-3.43	2.62	45.42
5550	-3.56	2.41	44.06
5650	-3.13	2.94	48.60
5750	-2.88	2.76	51.51
5850	-2.69	2.69	53.82

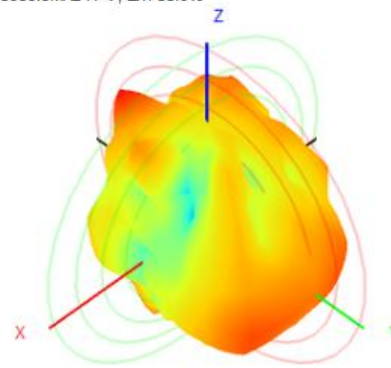
2450.0MHz H+V, Eff: 52.4%



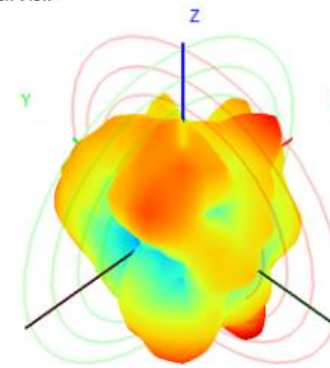
Back View



5850.0MHz H+V, Eff: 53.8%



Back View



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	14.56	14.35	14.62
B-TIS-11Mbps	-82.45	-82.13	-82.49
G-TRP-54Mbps	14.22	14.49	14.37
G-TIS-54Mbps	-71.86	-71.75	-71.29
N-TRP-MCS7	14.27	14.48	14.6
N-TIS-MCS7	-67.27	-67.98	-67.29
频段	36	149	165
A-TRP-54Mbps	12.6	12.86	11.63
A-TIS-54Mbps	-69.04	-69.74	-70.84



3. Conclusions

Thank you!