

深圳市亿圣邦科技有限公司

Shenzhen Yi Sheng Bang technology Co., LTD Antenna Test Report

Customer: 星王

Project: M55

Product: WIFI Antenna—FPC

Report date: 2023-07-05

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Purpose

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

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2.1 WIFI Antenna VSWR

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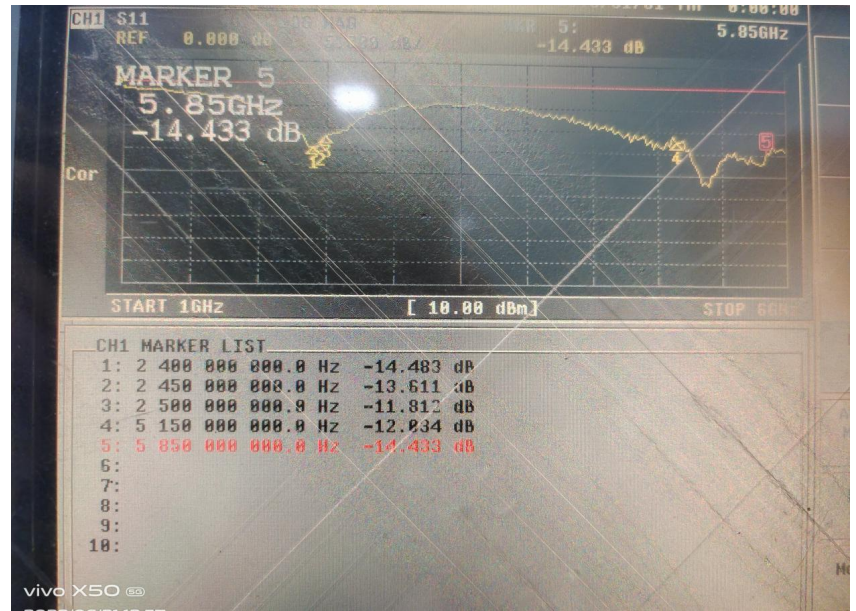
3. Conclusions

1. Product Overview & Dimension



2. Test Result

2.1 WIFI Antenna VSWR/S11



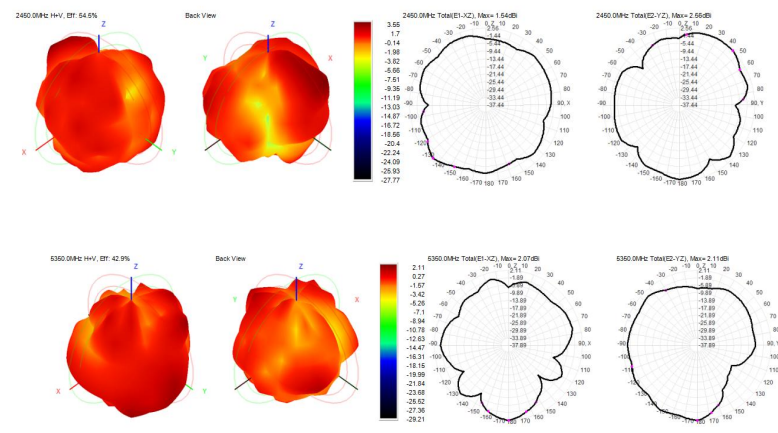
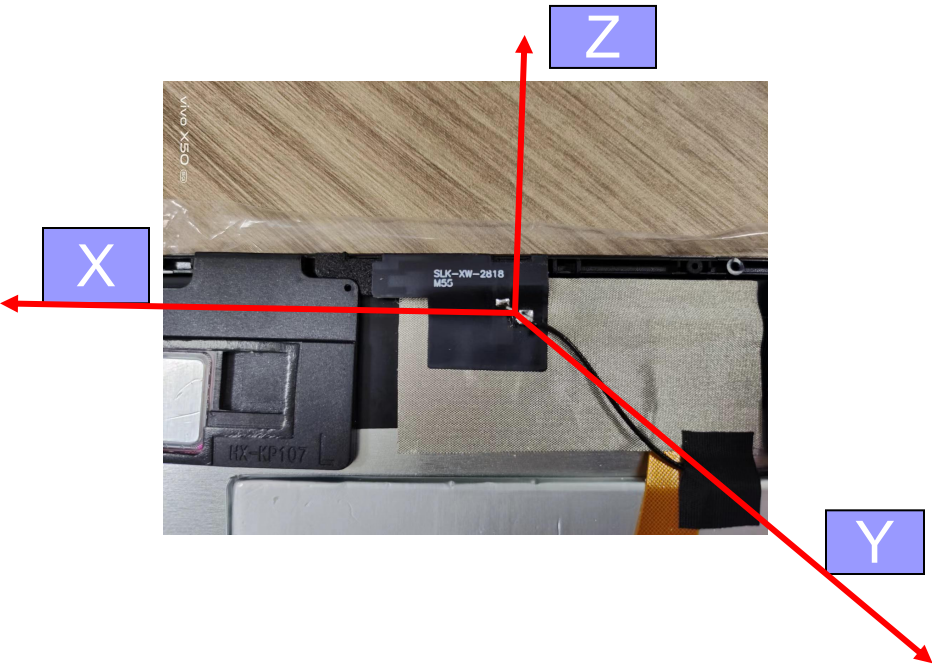
2. Test Result

2.2 WIFI Antenna Gain/Efficiency/3D DATE

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-2.37	3.41	57.96
2410.0	-2.40	3.59	57.50
2420.0	-2.40	3.69	57.51
2430.0	-2.54	3.59	55.71
2440.0	-2.56	3.60	55.51
2450.0	-2.63	3.55	54.51
2460.0	-2.66	3.45	54.22
2470.0	-2.76	3.24	52.91
2480.0	-2.90	3.00	51.29
2490.0	-2.83	2.95	52.14
2500.0	-2.78	2.78	52.71
5150.0	-3.88	1.79	40.91
5250.0	-3.91	2.21	40.66
5350.0	-3.68	2.11	42.90
5550.0	-3.98	2.51	40.03
5750.0	-3.94	2.77	40.41
5850.0	-3.96	2.76	40.14

2. Test Result

2.2 WIFI Antenna Gain/Efficiency/3D DATA



2. Test Result

2.3 WIFI active test

WIFI有源测试			
频段	1	6	11
B-TRP-11Mbps	16.53	16.21	15.76
B-TIS-11Mbps	-80.47	-80.43	-70.31
G-TRP-54Mbps	14.71	14.28	14.61
G-TIS-54Mbps	-69.48	-69.73	-70.09
N-TRP-MCS7	14.71	14.24	17.73
N-TIS-MCS7	-65.68	-65.04	-66.47
频段	36	149	165
A-TRP-54Mbps	13.11	13.45	13.08
A-TIS-54Mbps	-70.11	-70.29	-70.37

3. Conclusions



如图所示：

- 1.把屏排线拉一块导电布包起来屏蔽干扰处理
- 2.在主板屏蔽罩拉一块导电布与屏接地处理
- 3.主板底部漏铜区贴导电海绵与屏接地处理

3. Conclusions

Thank you