

深圳市亿圣邦科技有限公司

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The Holy bond Electronics Co., Ltd.

Antenna Test Report

Customer: 科金明

Project: K300

Product: WIFI Antenna—FPC

Report date: 2024.04.10

Prepared by : 范新竹

Checked by : Eason Huang

Approved by :



Purpose

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

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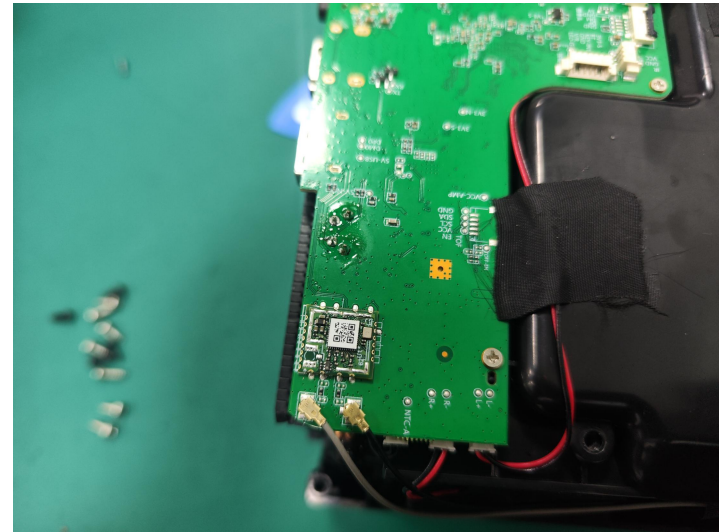
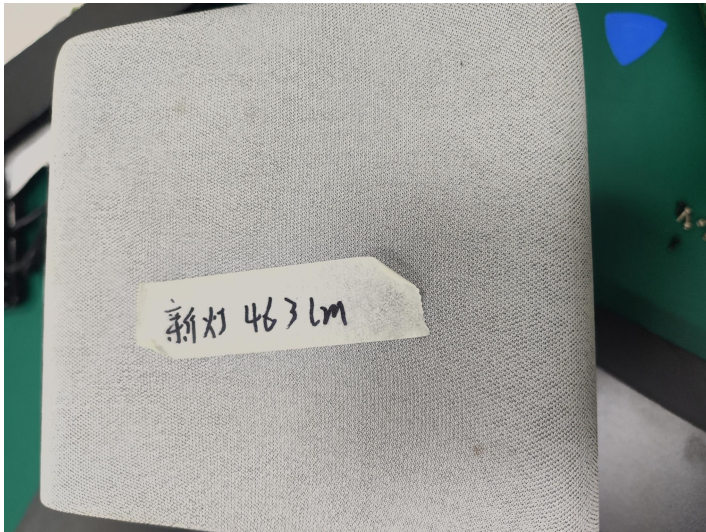
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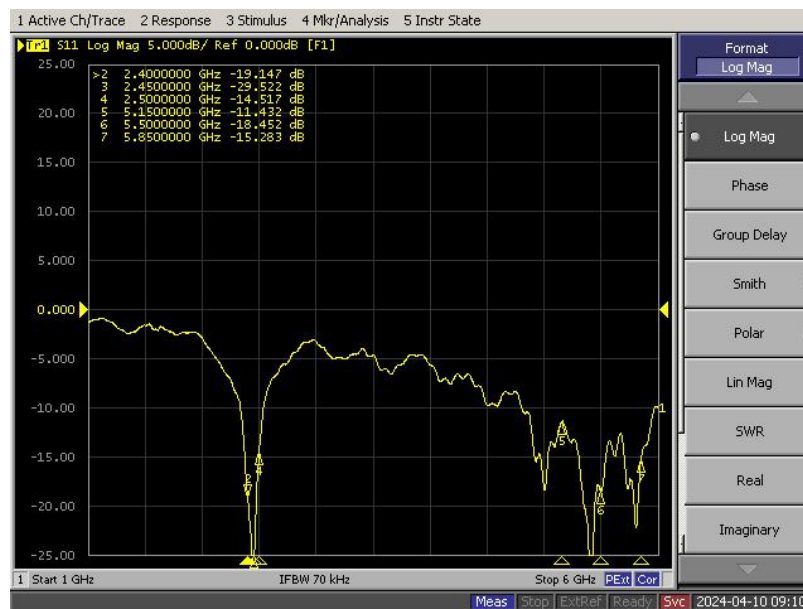
1. Product Overview



2. Test Result

2.1 VSWR/S11

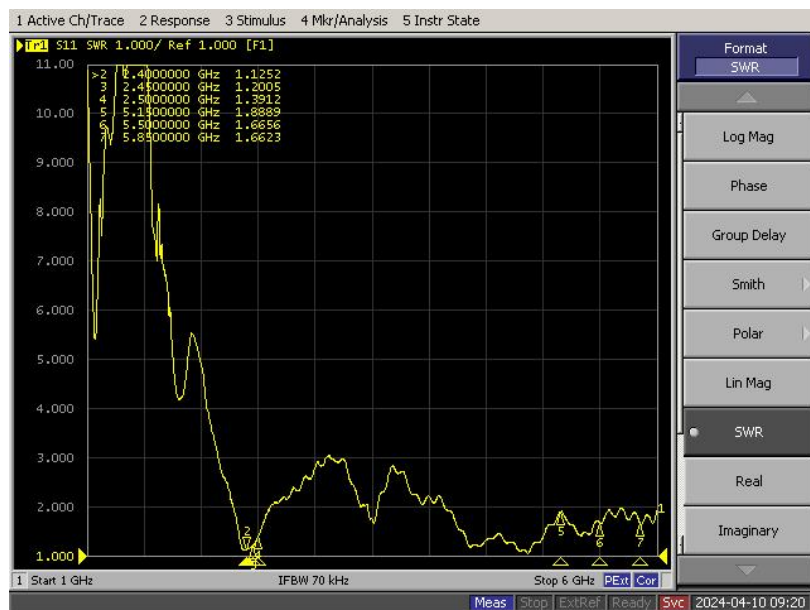
WIFI 1



2. Test Result

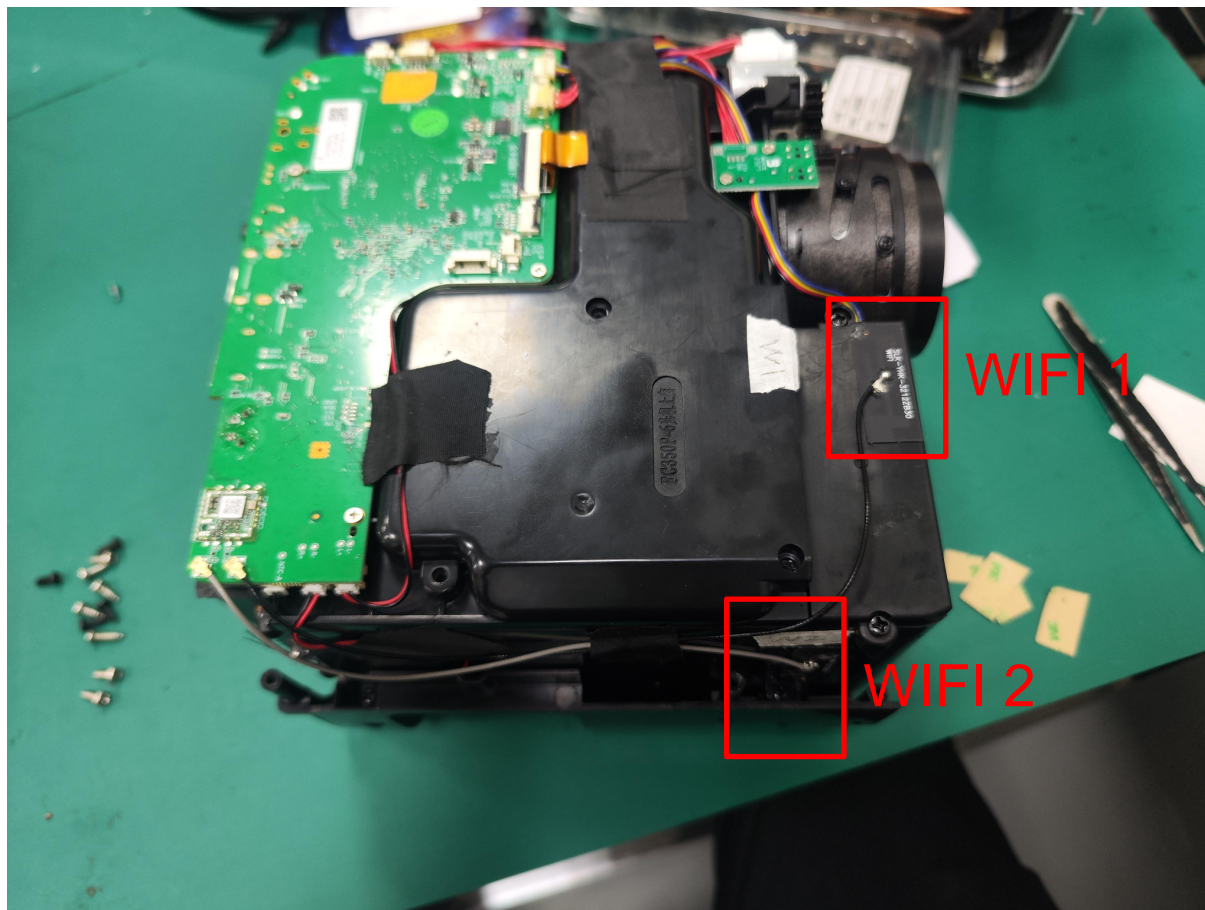
2.1 VSWR/S11

WIFI 2



2. Test Result

2.2 Antenna Parameters



2. Test Result

2.3 WIFI Antenna TRP/TIS

WIFI	CH	功率(54M)	灵敏度(54M)	WIFI	CH	功率(54M)	灵敏度(54M)
802.11a	36	12.71	-73.6	802.11g	1	14.17	-72.95
	149	11.49	-72.9		6	14.2	-72.78
	165	11.33	-73.18		11	15.14	-73.43
WIFI	CH	功率(11M)	灵敏度(11M)	WIFI	CH	功率(MCS7)	灵敏度(MCS7)
802.11b	1	15.12	-80.97	802.11n	1	14.06	-69.03
	6	14.85	-82.57		6	14.21	-68.08
	11	16.04	-81.43		11	14.28	-68.11

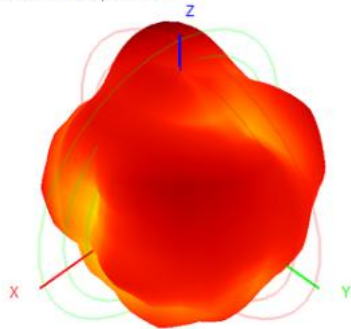
2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

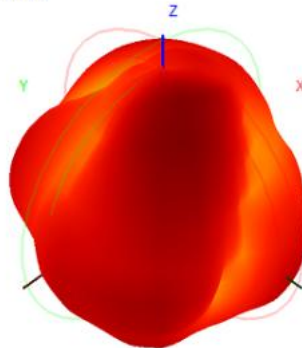
WIFI 1

Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	5150.0	5350.0	5500.0	5650.0	5850.0
Efficiency (dBi)	-3.02	-2.85	-2.84	-2.77	-2.85	-2.97	-3.04	-2.94	-2.82	-3.09	-3.13	-3.53	-3.22	-3.32	-3.61	-3.51
Gain (dBi)	2.18	2.37	2.54	2.62	2.45	2.20	2.21	2.46	2.32	2.07	1.94	2.41	2.49	2.06	2.88	2.26
Efficiency (%)	49.88	51.92	52.00	52.81	51.91	50.43	49.71	50.79	52.18	49.09	48.69	44.37	47.62	46.56	43.58	44.52

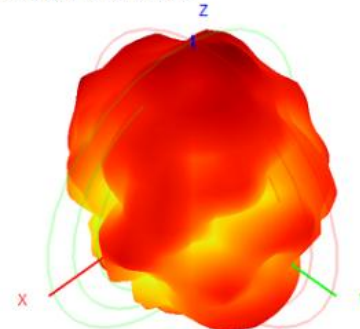
2450.0MHz H+V, Eff: 50.4%



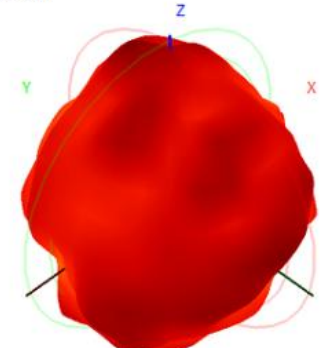
Back View



5850.0MHz H+V, Eff: 44.5%



Back View



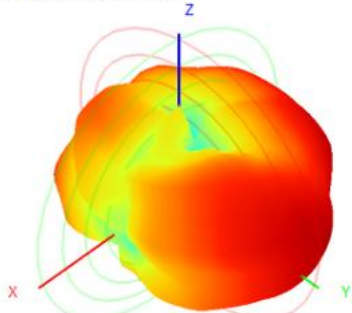
2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

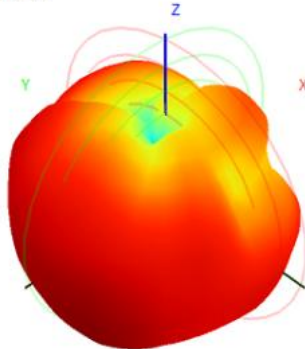
WIFI 2

Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	5150.0	5350.0	5500.0	5650.0	5850.0
Efficiency (dBi)	-3.61	-3.39	-3.41	-3.24	-3.22	-3.26	-3.40	-3.24	-3.10	-3.23	-3.24	-3.77	-3.48	-3.60	-3.71	-3.70
Gain (dBi)	2.36	2.45	2.30	2.56	2.56	2.70	2.60	2.59	2.65	2.52	2.47	2.56	2.59	2.41	1.67	2.40
Efficiency (%)	43.53	45.81	45.56	47.37	47.65	47.20	45.74	47.47	48.99	47.52	47.43	41.94	44.89	43.70	42.51	42.69

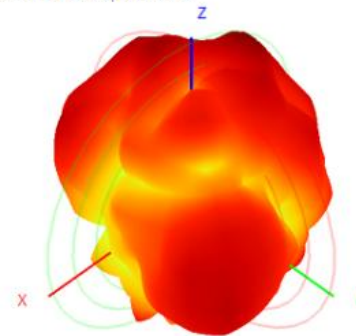
2450.0MHz H+V, Eff: 47.2%



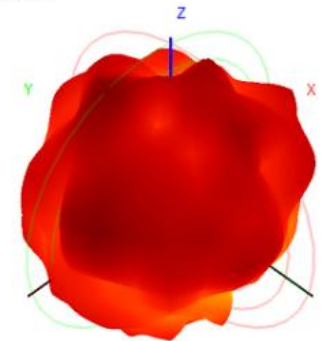
Back View



5850.0MHz H+V, Eff: 42.7%



Back View



3. Size

