

深圳市亿圣邦科技有限公司

Shenzhen Yishengbang Technology Co., Ltd.

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Xixiang Street, Bao'an District, Shenzhen, China

Antenna Test Report

Customer: 亿莱顿

Project: WF2189

WIFI : SLK-YLD-3028A-L-320I-B

Product: WIFI Antenna—FPC

Report date: 2024.08.12

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Checked by : Eason Huang

Approved by :

Purpose

This report is to measure the performance of SLK for Master Antenna on 亿莱顿. All measure data are showed below.

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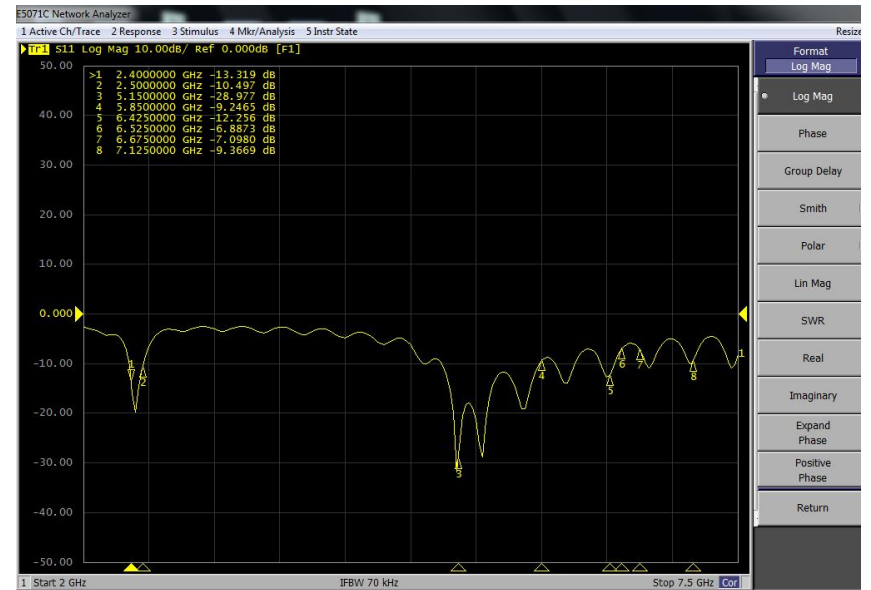
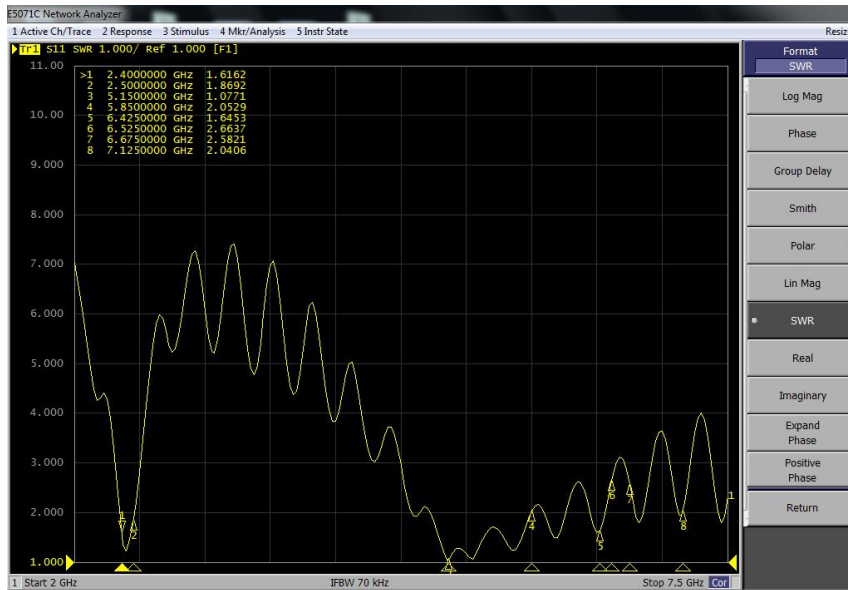
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1. Product Overview



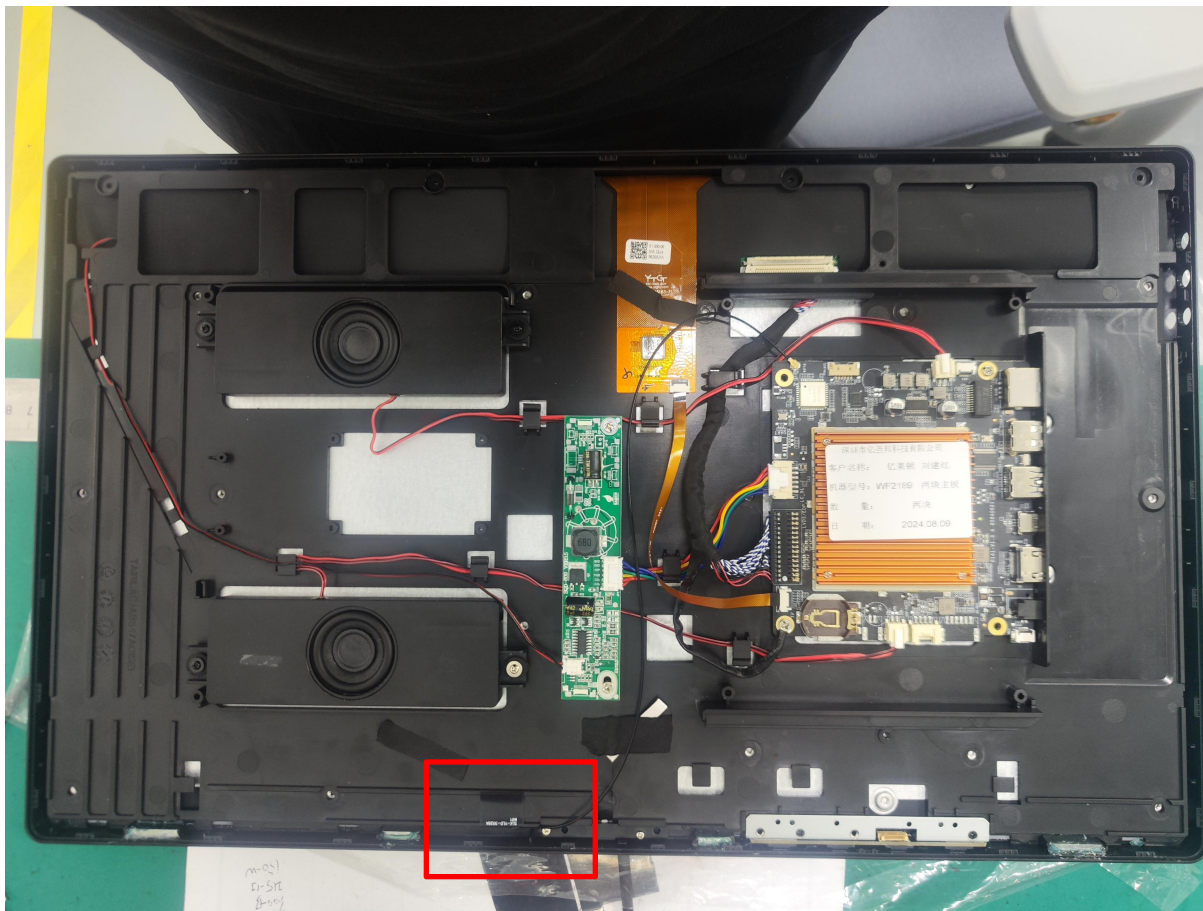
2. Test Result

2.1 VSWR/S11



2. Test Result

2.2 Antenna Parameters



2. Test Result

2.3 WIFI Antenna TRP/TIS

1#

WIFI	CH	功率 (54M)	灵敏度 (54M)	A级标准值	WIFI	CH	功率 (54M)	灵敏度 (54M)	A级标准值
802.11a	36	9.05	-68.62	≥10 ≤-63	802.11g	1	15.07	-72.68	≥11 ≤-63
	149	9.39	-67.63			6	15.59	-72.4	
	165	10.15	-68.98			11	14.66	-71.68	
WIFI	CH	功率 (11M)	灵敏度 (11M)	A级标准值	WIFI	CH	功率 (MCS7)	灵敏度 (MCS7)	A级标准值
802.11b	1	14.73	-84.03	≥12 ≤-78	802.11n	1	15.06	-70.24	≥10 ≤-63
	6	15.34	-84.32			6	15.48	-70	
	11	14.42	-83.3			11	14.68	-69.1	

2. Test Result

2.3 WIFI Antenna TRP/TIS

2#

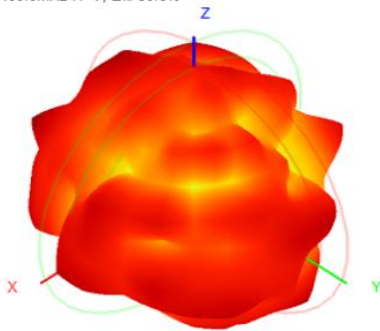
WIFI	CH	功率 (54M)	灵敏度 (54M)	A级标准 值	WIFI	CH	功率 (54M)	灵敏度 (54M)	A级标准 值
802.11a	36	10.02	-68.64	≥10 ≤-63	802.11g	1	15.44	-70.83	≥11 ≤-63
	149	9.5	-67.34			6	16.1	-70.43	
	165	10.54	-67.91			11	16.25	-69.57	
WIFI	CH	功率 (11M)	灵敏度 (11M)	A级标准 值	WIFI	CH	功率 (MCS7)	灵敏度 (MCS7)	A级标准 值
802.11b	1	14.45	-83.62	≥12 ≤-78	802.11n	1	15.41	-68.24	≥10 ≤-63
	6	15.25	-83.04			6	16.07	-69.49	
	11	15.59	-82.96			11	16.2	-67.46	

2. Test Result

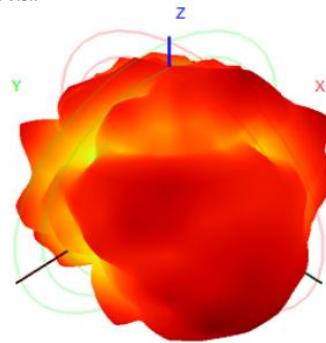
2.4 WIFI Antenna Gain/Efficiency/3D DATA

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	6010.0	6550.0	6890.0	7200.0
Efficiency (dBi)	-2.95	-2.76	-2.72	-2.59	-2.51	-2.66	-2.77	-2.71	-2.67	-2.69	-2.55	-2.60	-2.86	-2.81	-2.86	-2.90	-4.33	-4.91	-4.62	-5.12
Gain (dBi)	1.58	1.85	2.02	2.28	2.57	2.54	2.36	2.23	2.00	1.93	2.08	2.82	2.31	2.83	2.68	2.53	2.71	2.44	2.02	1.43
Efficiency (%)	50.61	52.88	53.44	55.02	56.07	54.19	52.72	53.47	54.07	53.78	55.58	54.99	51.77	52.29	51.65	51.17	36.83	32.24	34.51	30.71

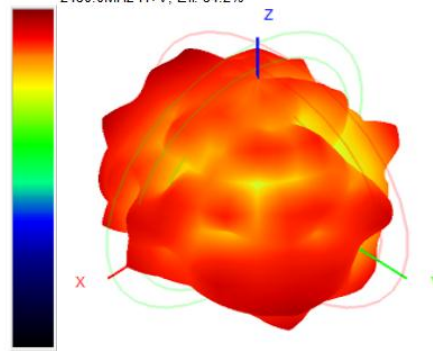
2400.0MHz H+V, Eff 50.6%



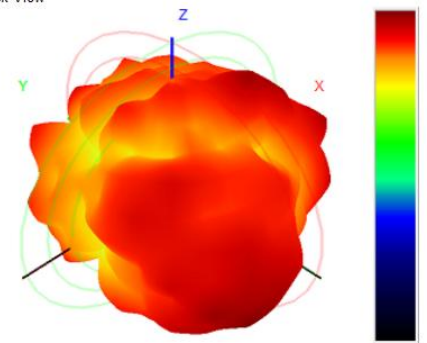
Back View



2450.0MHz H+V, Eff 54.2%



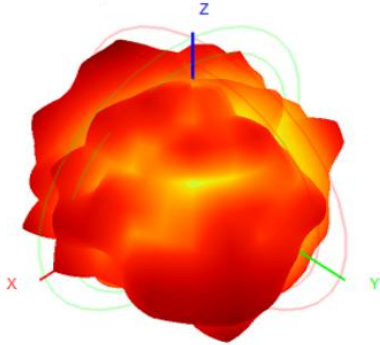
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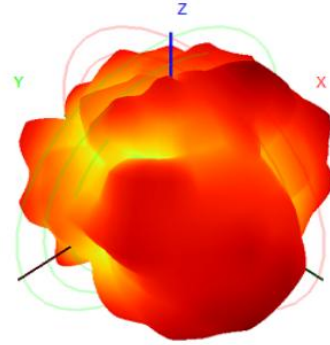
2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

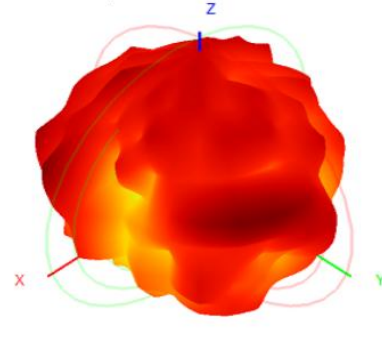
2500.0MHz H+V, Eff. 55.6%



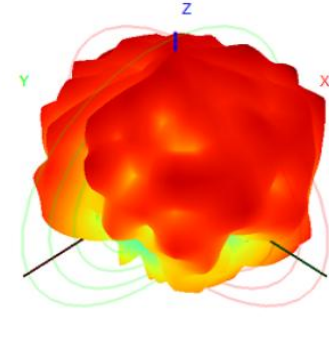
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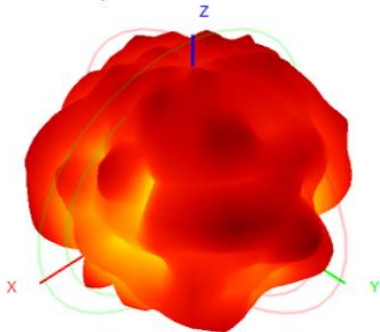
5150.0MHz H+V, Eff. 55.0%



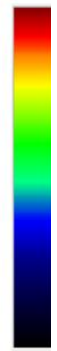
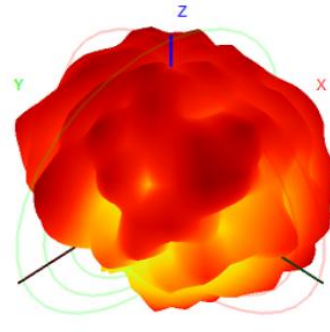
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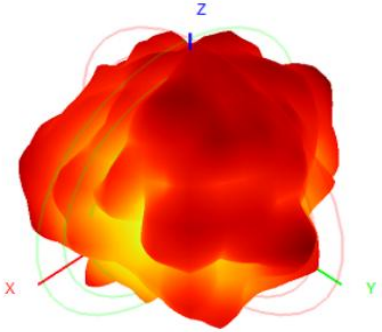
5500.0MHz H+V, Eff. 52.3%



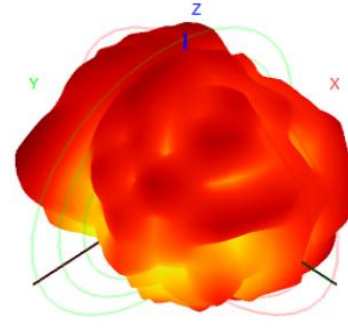
Back View



5850.0MHz H+V, Eff. 51.2%



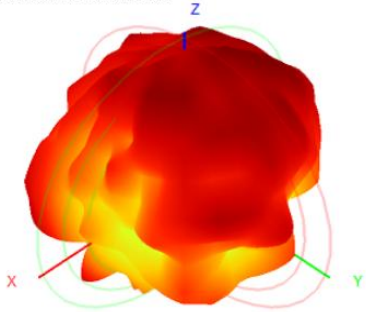
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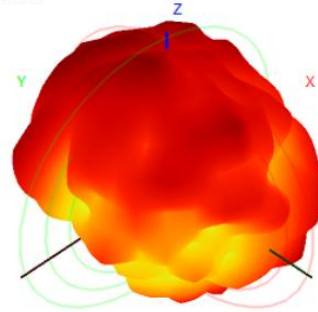
2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

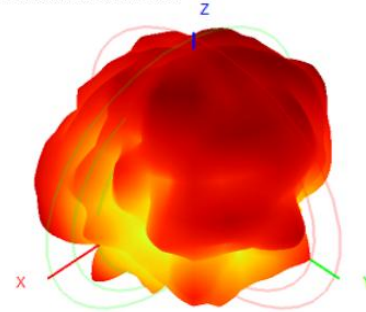
6010.0MHz H+V, Eff. 36.8%



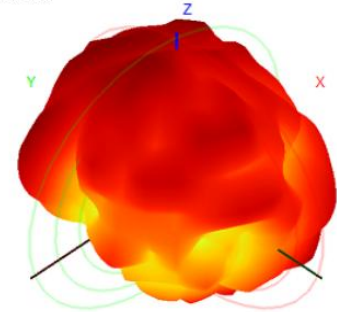
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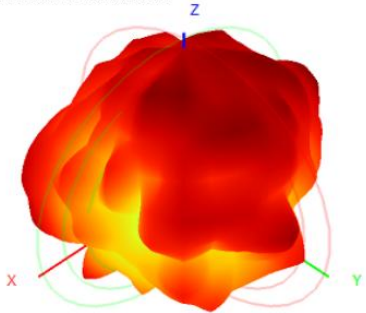
6550.0MHz H+V, Eff. 32.2%



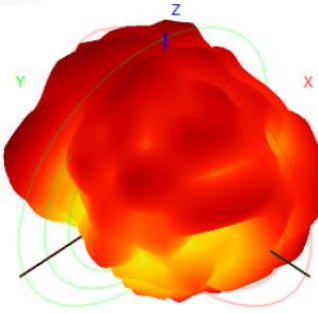
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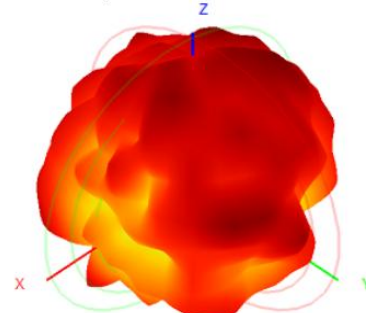
6890.0MHz H+V, Eff. 34.5%



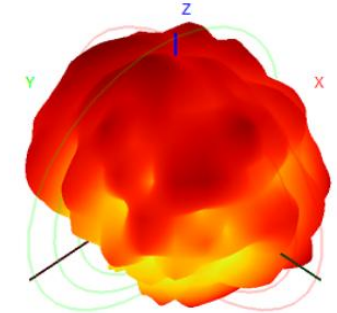
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7200.0MHz H+V, Eff. 30.7%

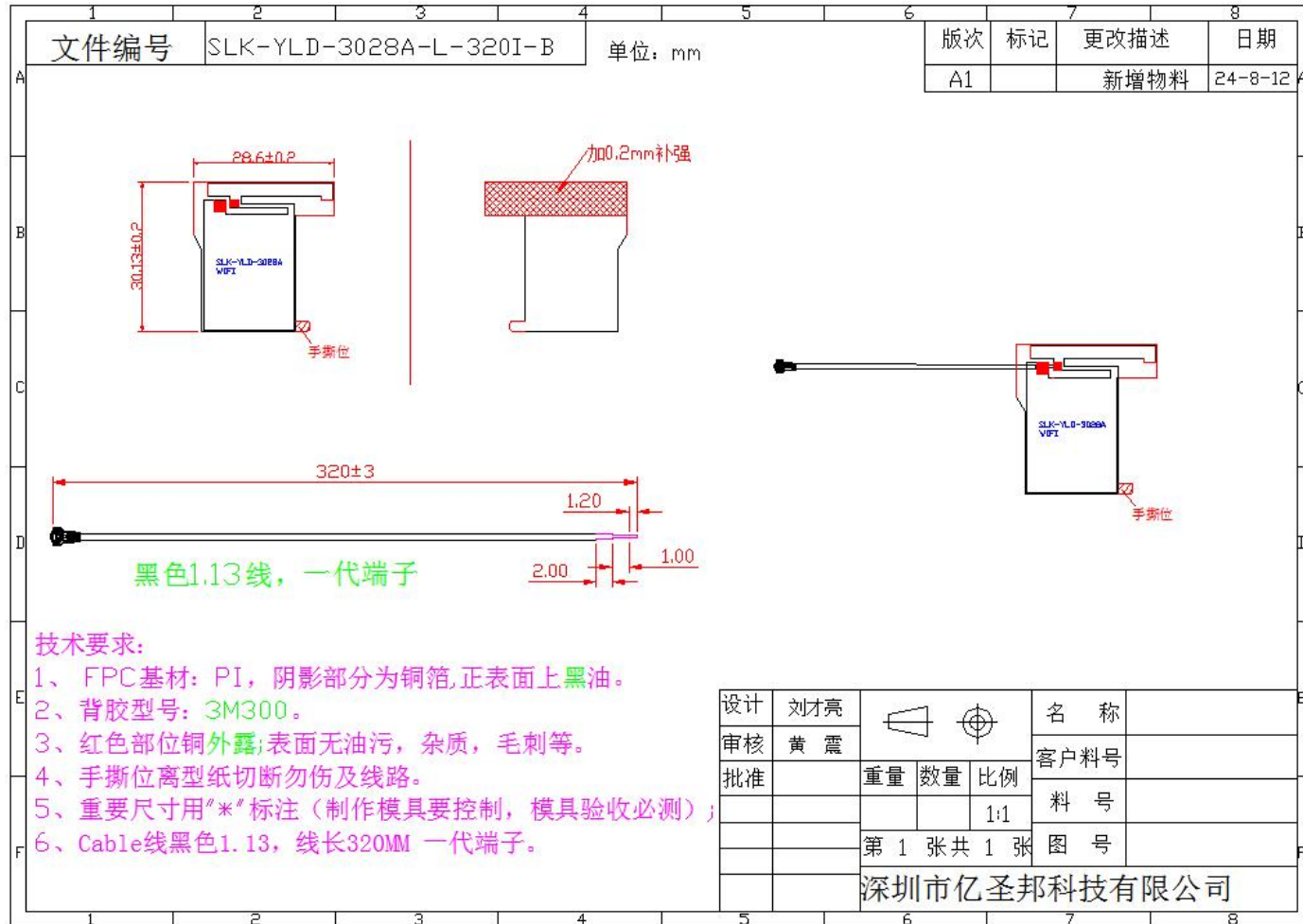


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2. Test Result

2.5 Antenna size



3. Conclusions

Thank you