

深圳市亿圣邦科技有限公司

The Holy bond Electronics Co., Ltd. Antenna Test Report

Customer: 科金明

Project: K220

Product: BT/WIFI Antenna—FPC

Report date: 2024.04.15

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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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1. Product Overview

2. Test Result

2.1 VSWR/S11

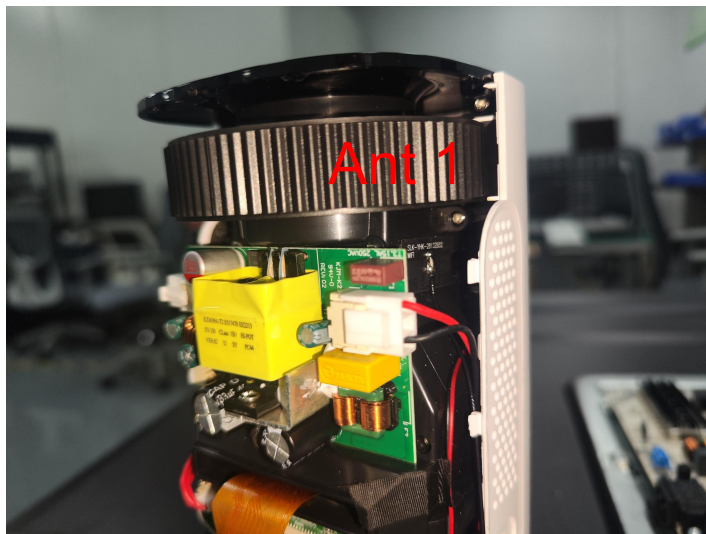
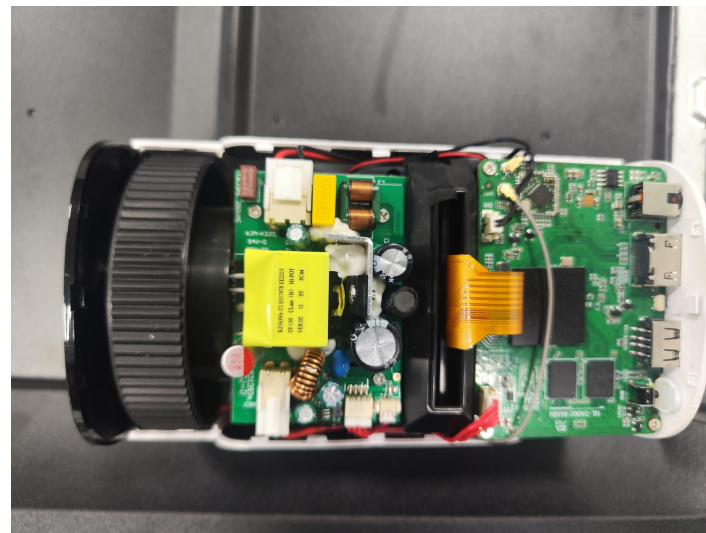
2.2 Antenna Parameters

2.3 WIFI Antenna TRP/TIS

2.4 WIFI Antenna Gain/Efficiency/3D DATA

3. Conclusions

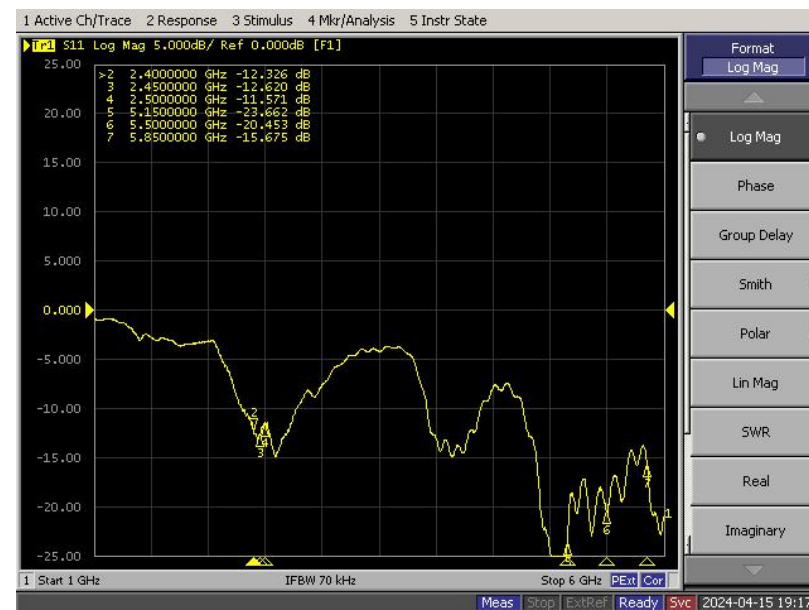
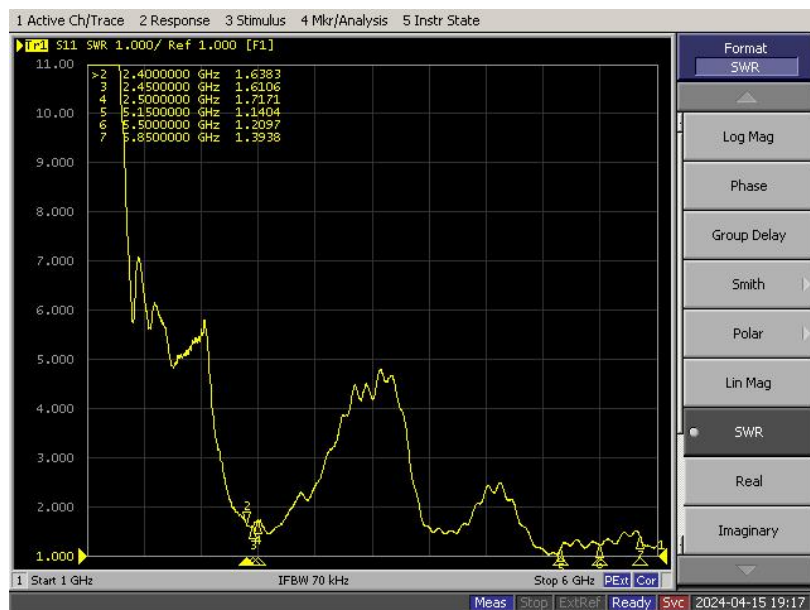
1. Product Overview



2. Test Result

2.1 VSWR/S11

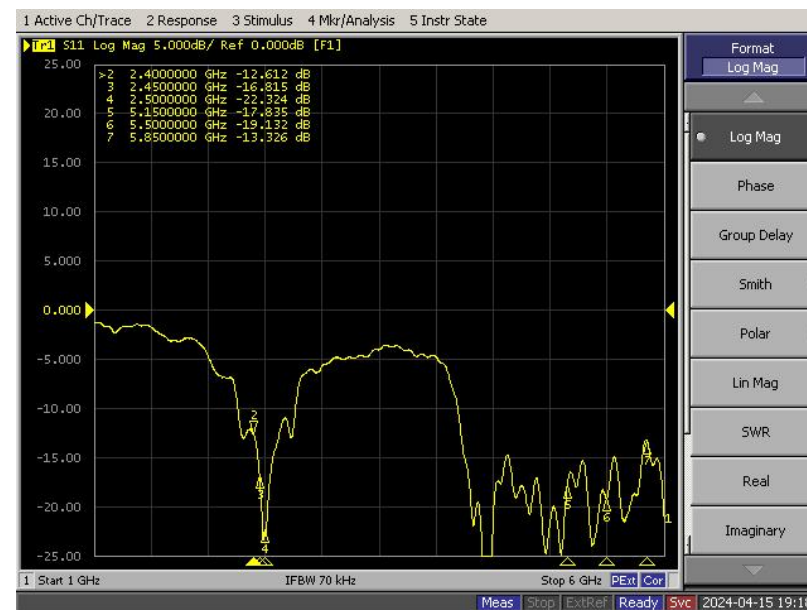
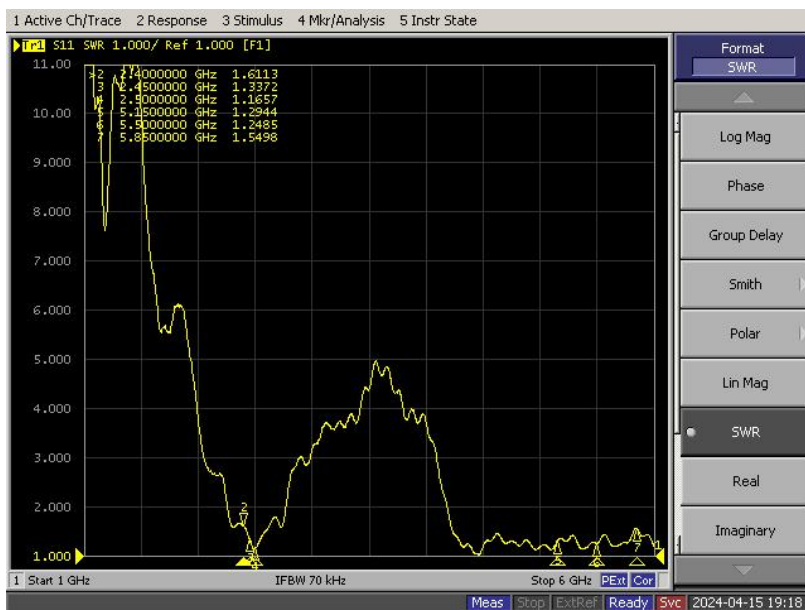
Ant 0



2. Test Result

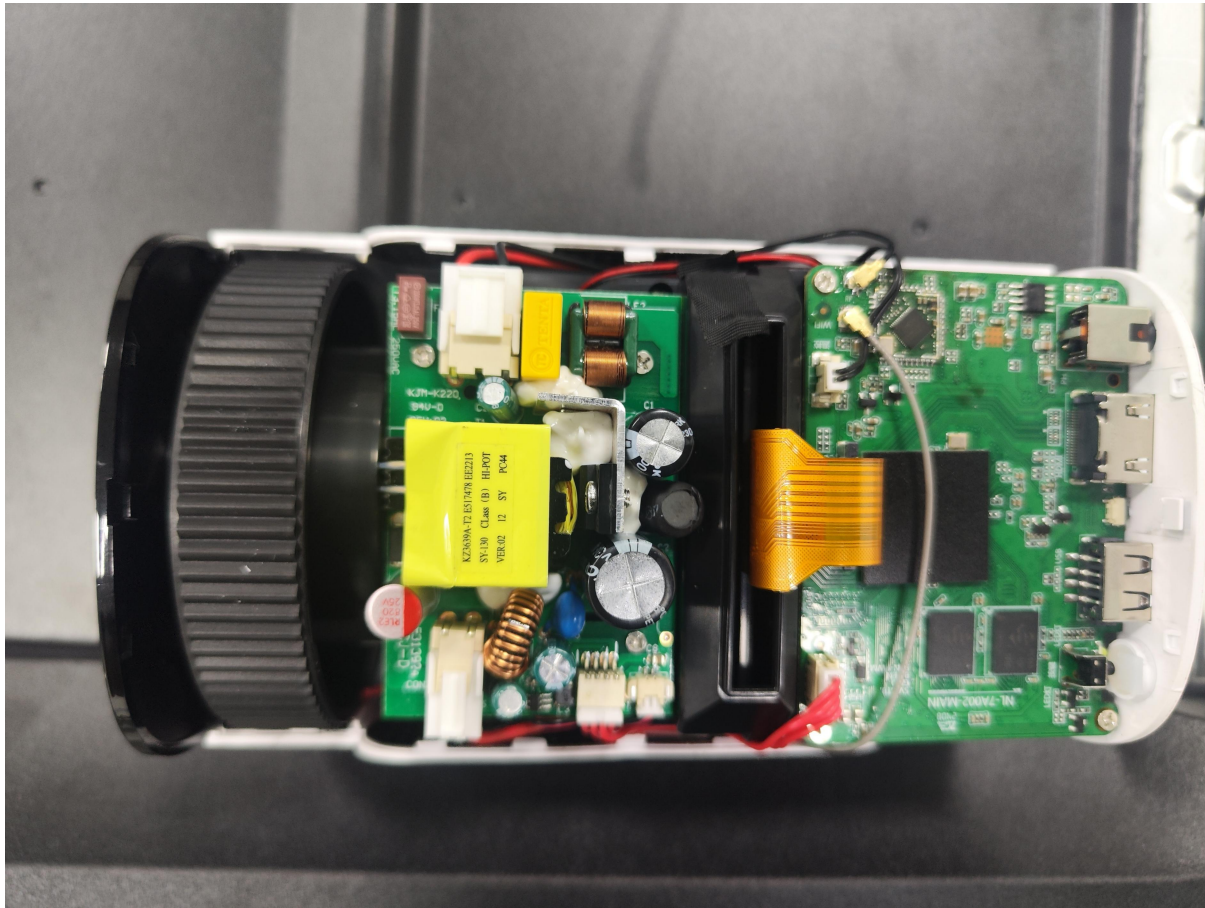
2.1 VSWR/S11

Ant 1



2.2 Antenna Parameters

2.2 Antenna Parameters



2. Test Result

2.3 WIFI Antenna TRP/TIS

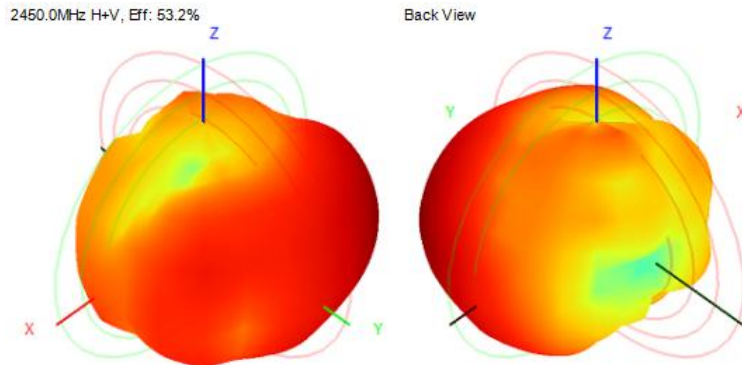
WIFI	CH	功率(54M)	灵敏度(54M)	WIFI	CH	功率(54M)	灵敏度(54M)
802.11a	36	12.63	-72.08	802.11g	1	12.01	-66.35
	149	11.42	-72.68		6	12.14	-68.66
	165	11.04	-72.11		11	12.22	-67.19
WIFI	CH	功率(11M)	灵敏度(11M)	WIFI	CH	功率(MCS7)	灵敏度(MCS7)
802.11b	1	12.73	-78.1	802.11n	1	12.06	-63.44
	6	14.42	-80.34		6	12.18	-65.11
	11	12.56	-79.37		11	12.37	-64.69

2. Test Result

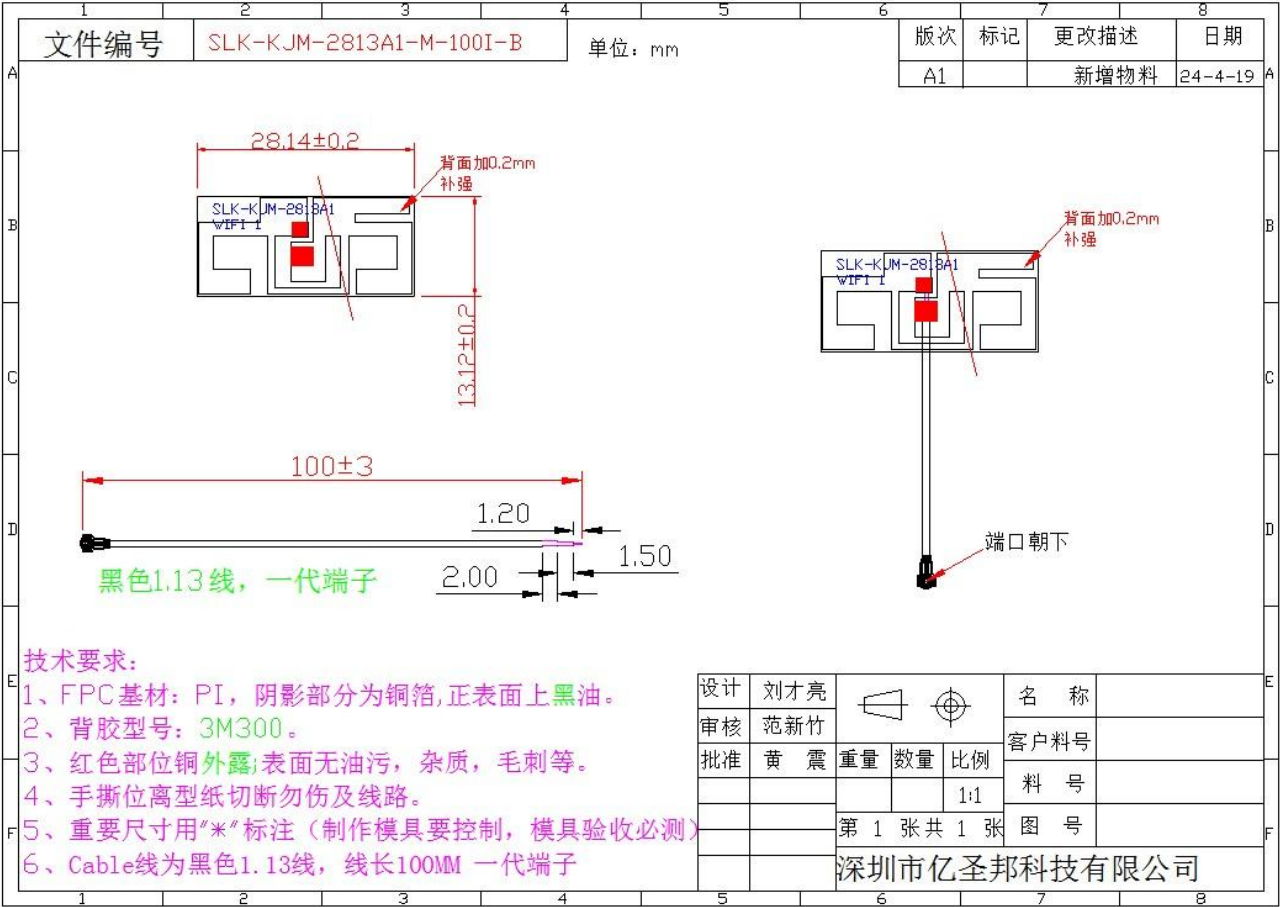
2.4 BT Antenna Gain/Efficiency/3D DATA

Ant 0

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	
Efficiency (dBi)	-3.03	-2.88	-2.55	-2.57	-2.68	-2.74	-2.56	-2.84	-2.75	-2.68	-2.84	
Gain (dBi)	1.91	1.99	2.21	2.19	1.96	1.87	2.22	2.13	2.33	2.63	2.66	
Efficiency (%)	49.77	51.52	55.64	55.31	54.00	53.23	55.41	52.05	53.05	53.91	51.97	



Antenna Dimensions (unit: mm)



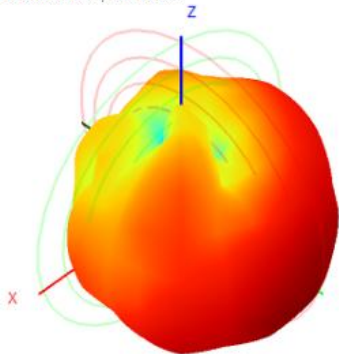
2. Test Result

2.4 WIFI Antenna Gain/Efficiency/3D DATA

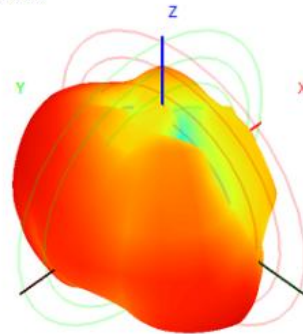
Ant 1

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5150	5350	5500	5650	5850
Efficiency (dBi)	-3.18	-3.25	-2.80	-3.00	-2.96	-3.19	-2.97	-3.36	-3.43	-3.23	-3.40	-2.75	-2.94	-2.68	-2.69	-2.77
Gain (dBi)	1.49	1.32	2.14	2.00	2.22	1.70	1.77	1.41	1.29	1.75	1.40	2.56	2.45	2.87	2.25	2.03
Efficiency (%)	48.12	47.35	52.44	50.09	50.53	48.00	50.49	46.17	45.41	47.56	45.68	52.99	50.72	53.84	53.71	52.81

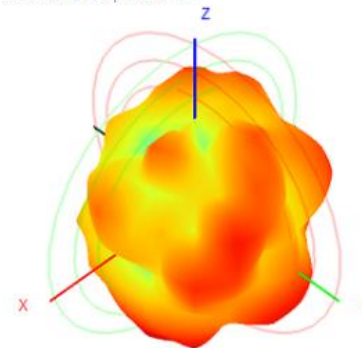
2450.0MHz H+V, Eff: 48.0%



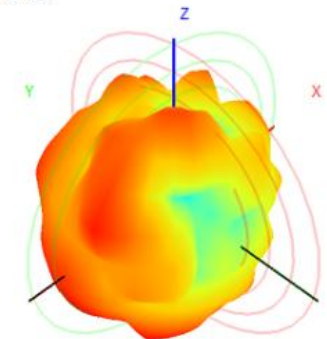
Back View



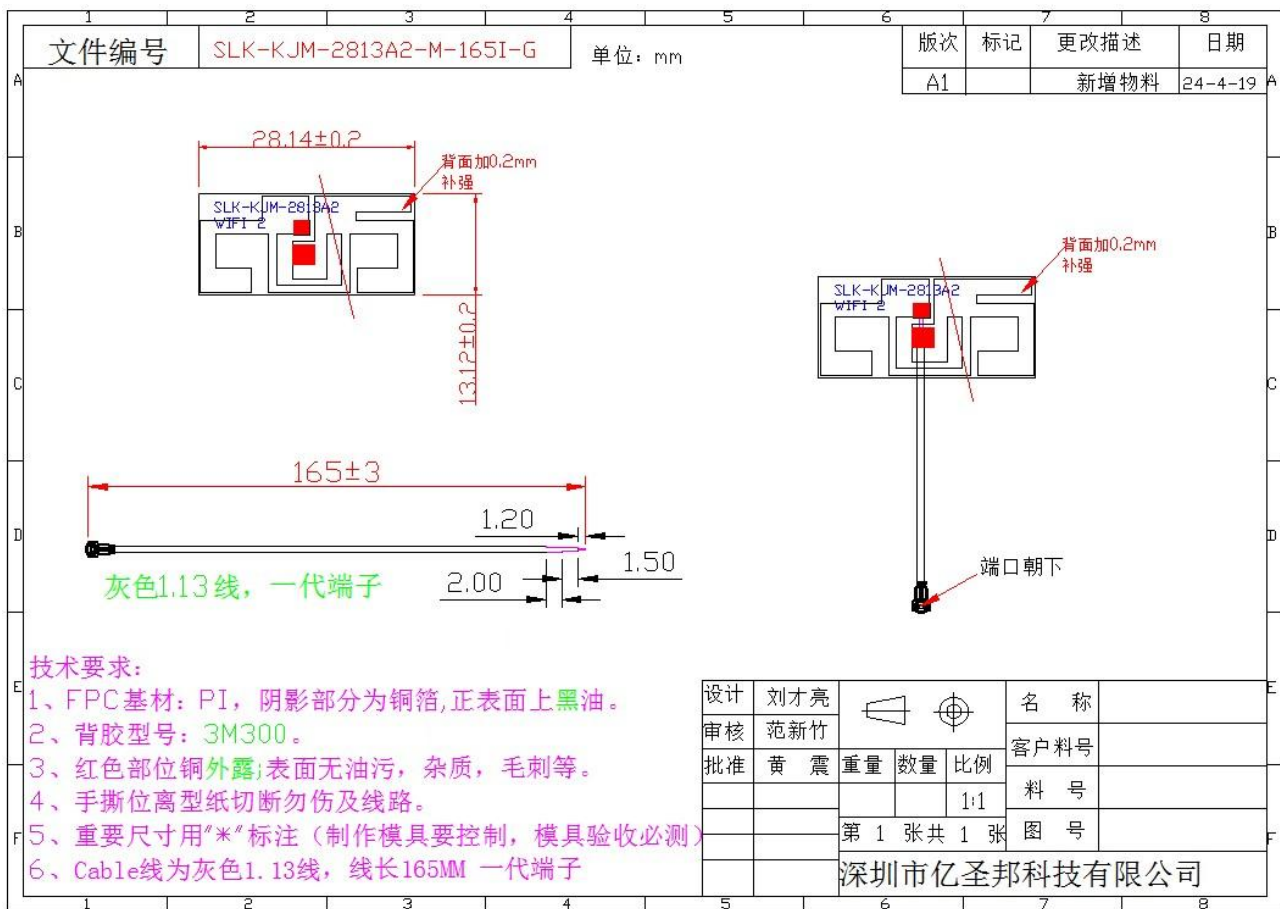
5850.0MHz H+V, Eff: 52.8%



Back View



Antenna Dimensions (unit: mm)





3. Conclusions

Thank you