深圳市亿圣邦科技有限公司

Shenzhen Yishengbang Technology Co., Ltd
101, Building C, Shenzhen Qianwan Hard Science and Technology Industrial Park,
Nanchang Community, Xixiang Street, Baoan District, Shenzhen, China

Customer: 松崎

Project: 11寸平板

WIFI MAIN：SLK-SQ-2516E1-R-240IV-B

WIFI AUX ：SLK-SQ-1614A-R-280IV-G

Product: WIFI Antenna—FPC

Report date: 2024.11.26

Prepared by : 范新竹

Checked by : Eason Huang

Approved by :

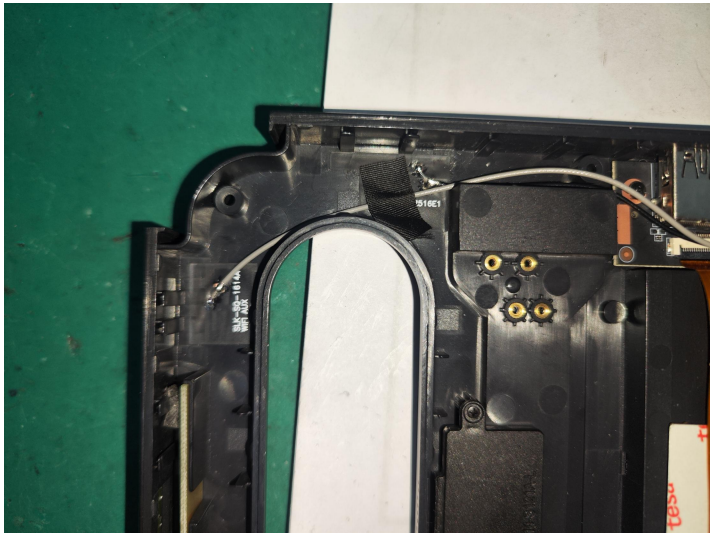
Purpose

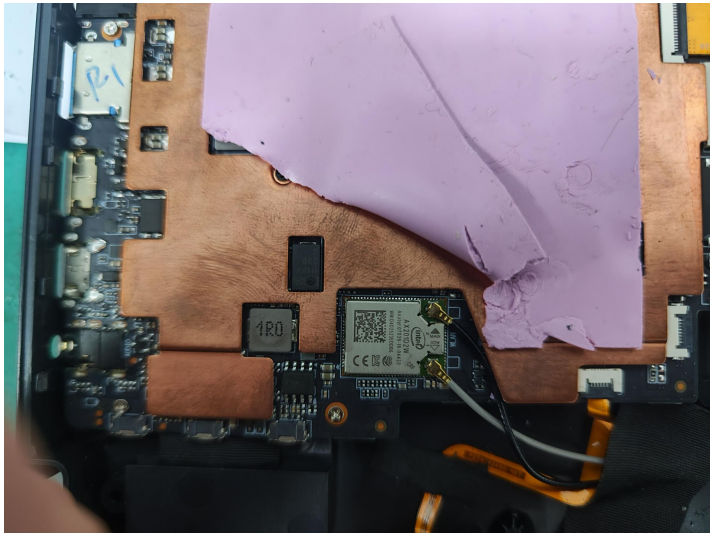
This report is to measure the performance of SLK for Master Antenna on 松崎. All measure data are showed below.

Content

1. Product Overview
2. Test Result
   - 2.1 VSWR/S11
   - 2.2 Antenna Parameters
   - 2.3 WIFI Antenna Gain/Efficiency/3D DATA
   - 2.4 WIFI Antenna Throughput
   - 2.5 Antenna size
3. Conclusions

1. Product Overview

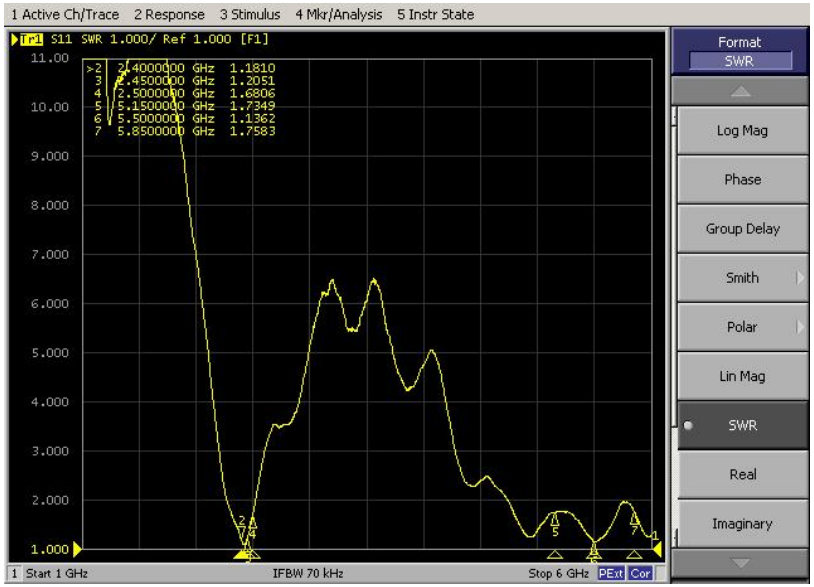


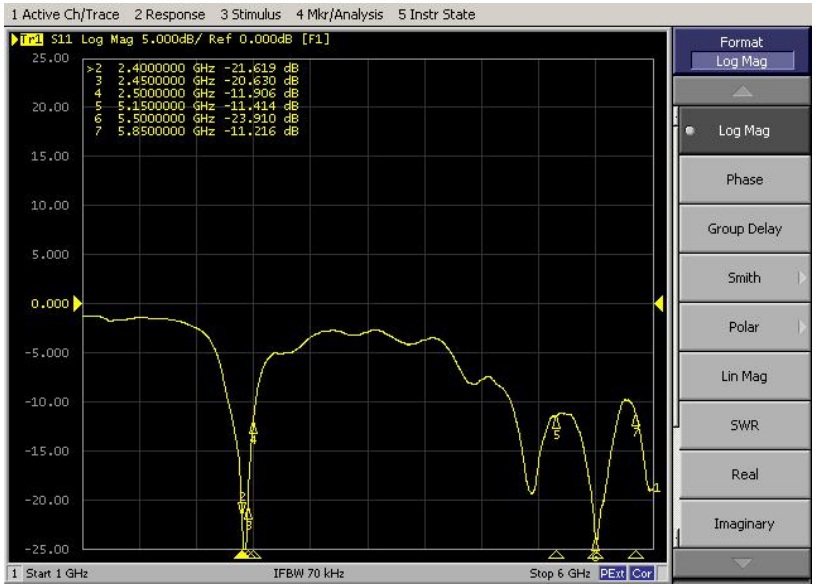


2. Test Result

2.1 VSWR/S11

WIFI MAIN

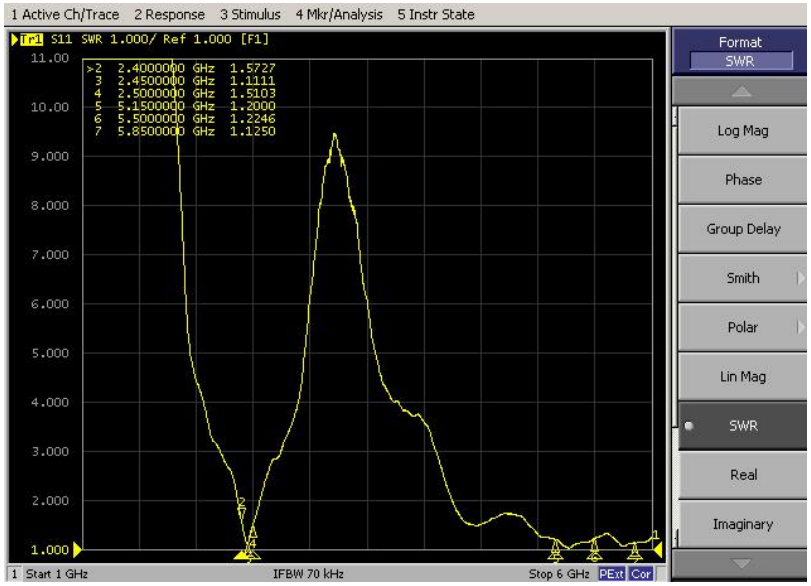


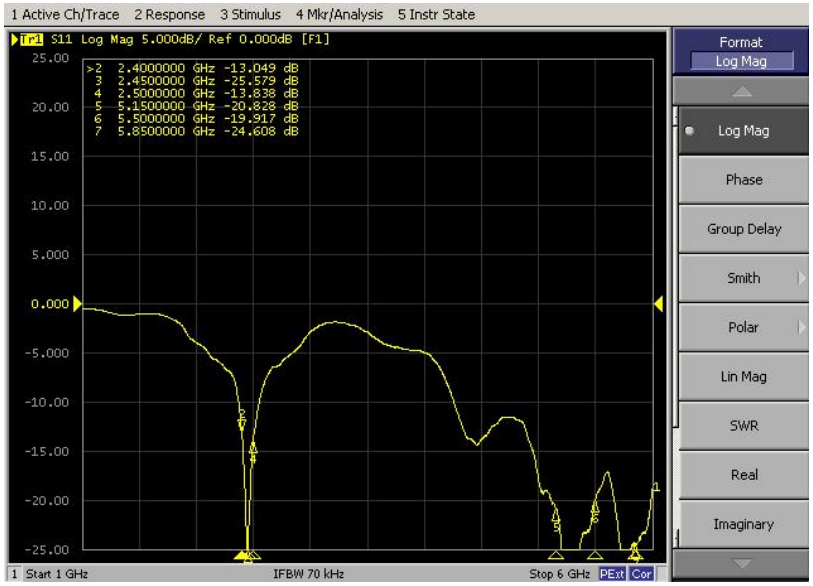


2. Test Result

2.1 VSWR/S11

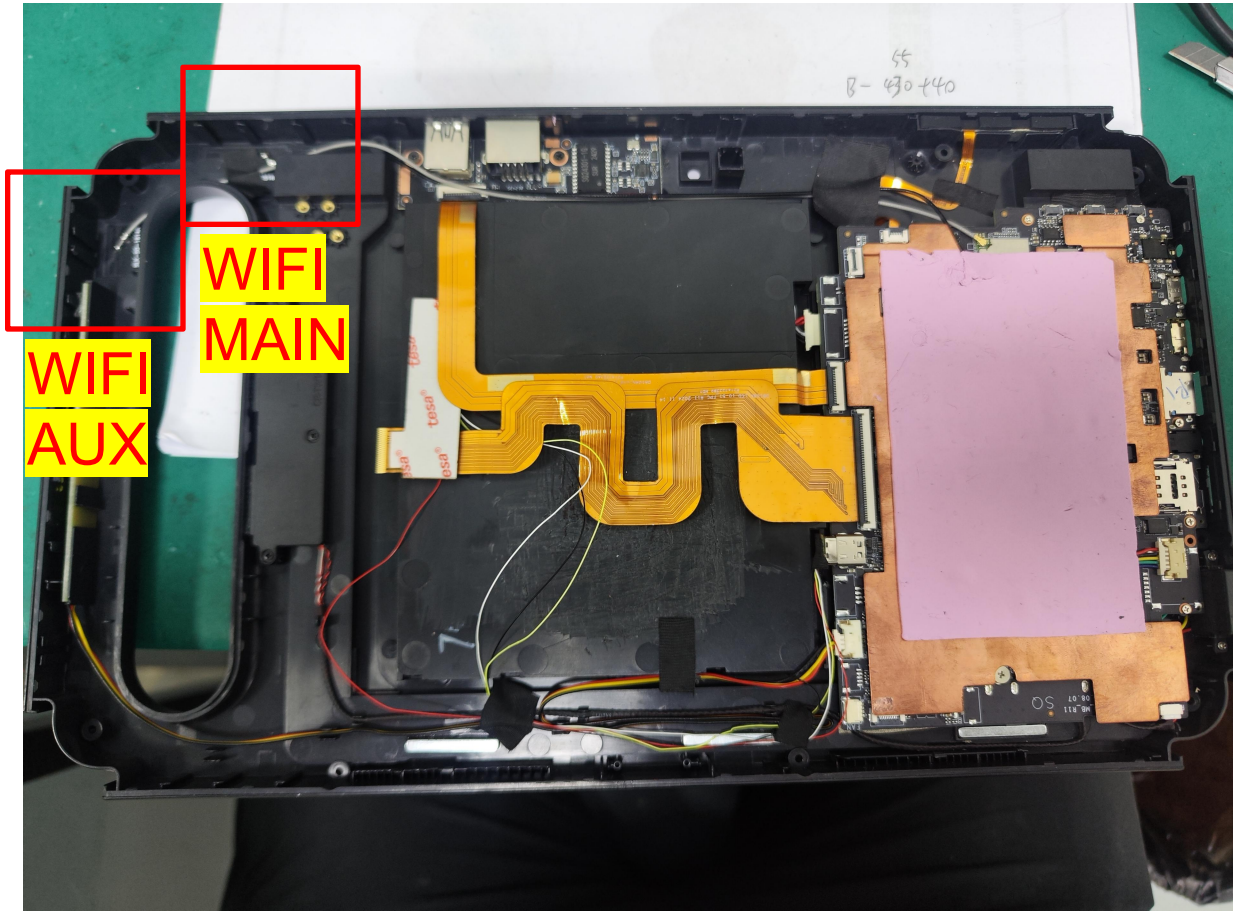
WIFI AUX





2. Test Result

2.2 Antenna Parameters

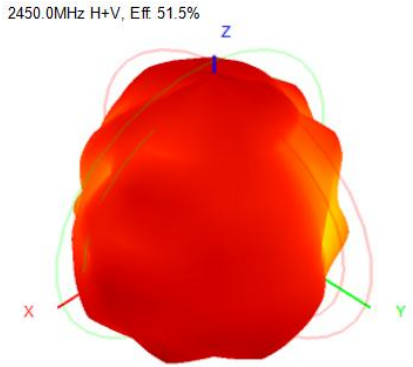


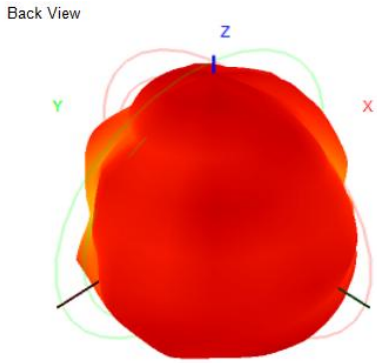
2. Test Result

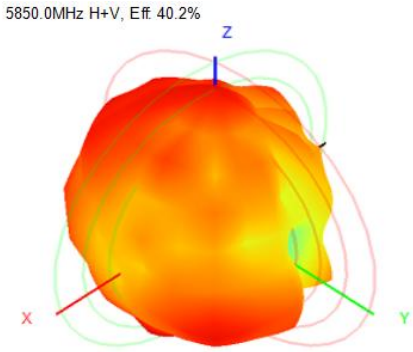
2.3 WIFI Antenna Gain/Efficiency/3D DATA

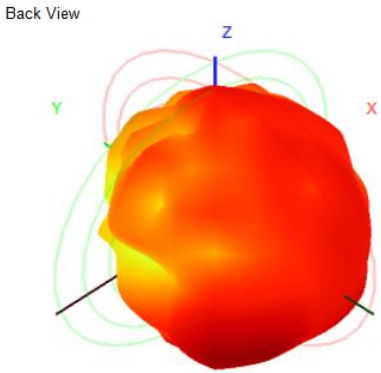
WIFI MAIN

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5150	5350	5500	5650	5850
Efficiency (dBi)	-2.86	-2.72	-2.72	-2.65	-2.88	-2.88	-2.72	-2.99	-2.90	-3.06	-3.16	-3.62	-3.52	-3.74	-3.65	-3.96
Gain (dBi)	1.10	1.13	1.39	1.48	2.00	1.12	1.09	1.21	1.20	1.03	1.09	1.24	1.33	1.69	1.75	2.00
Efficiency (%)	51.81	53.50	53.49	54.33	51.53	51.53	53.45	50.26	51.27	49.44	48.31	43.44	44.42	42.27	43.10	40.16







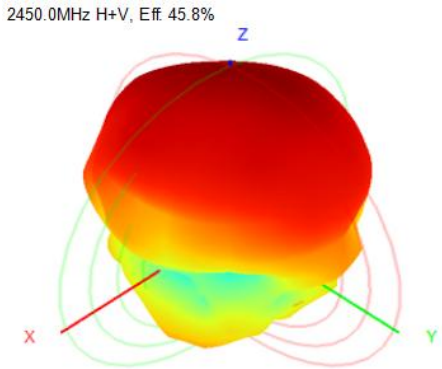


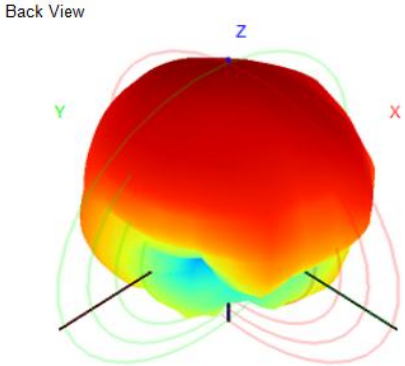
2. Test Result

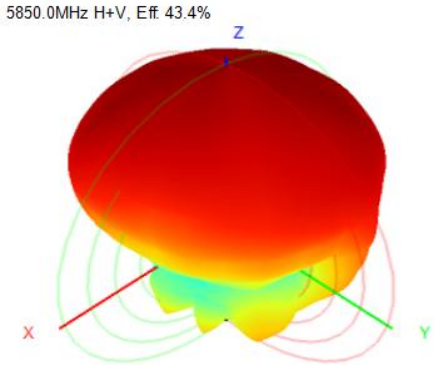
2.3 WIFI Antenna Gain/Efficiency/3D DATA

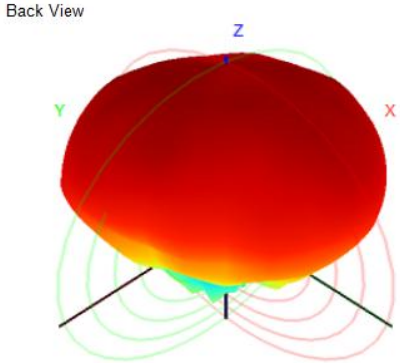
WIFI AUX

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5150	5350	5500	5650	5850
Efficiency (dBi)	-3.52	-3.79	-3.81	-3.63	-3.68	-3.38	-3.14	-3.28	-3.35	-3.38	-3.52	-3.58	-3.67	-3.55	-3.47	-3.62
Gain (dBi)	1.82	1.21	1.28	2.00	1.41	1.65	1.94	1.75	1.58	1.45	1.24	1.54	2.00	1.32	1.21	1.03
Efficiency (%)	44.39	41.72	41.50	43.27	42.78	45.84	48.45	46.90	46.18	45.89	44.43	43.78	42.93	44.09	44.98	43.37









2. Test Result

2.4 WIFI Antenna Throughput

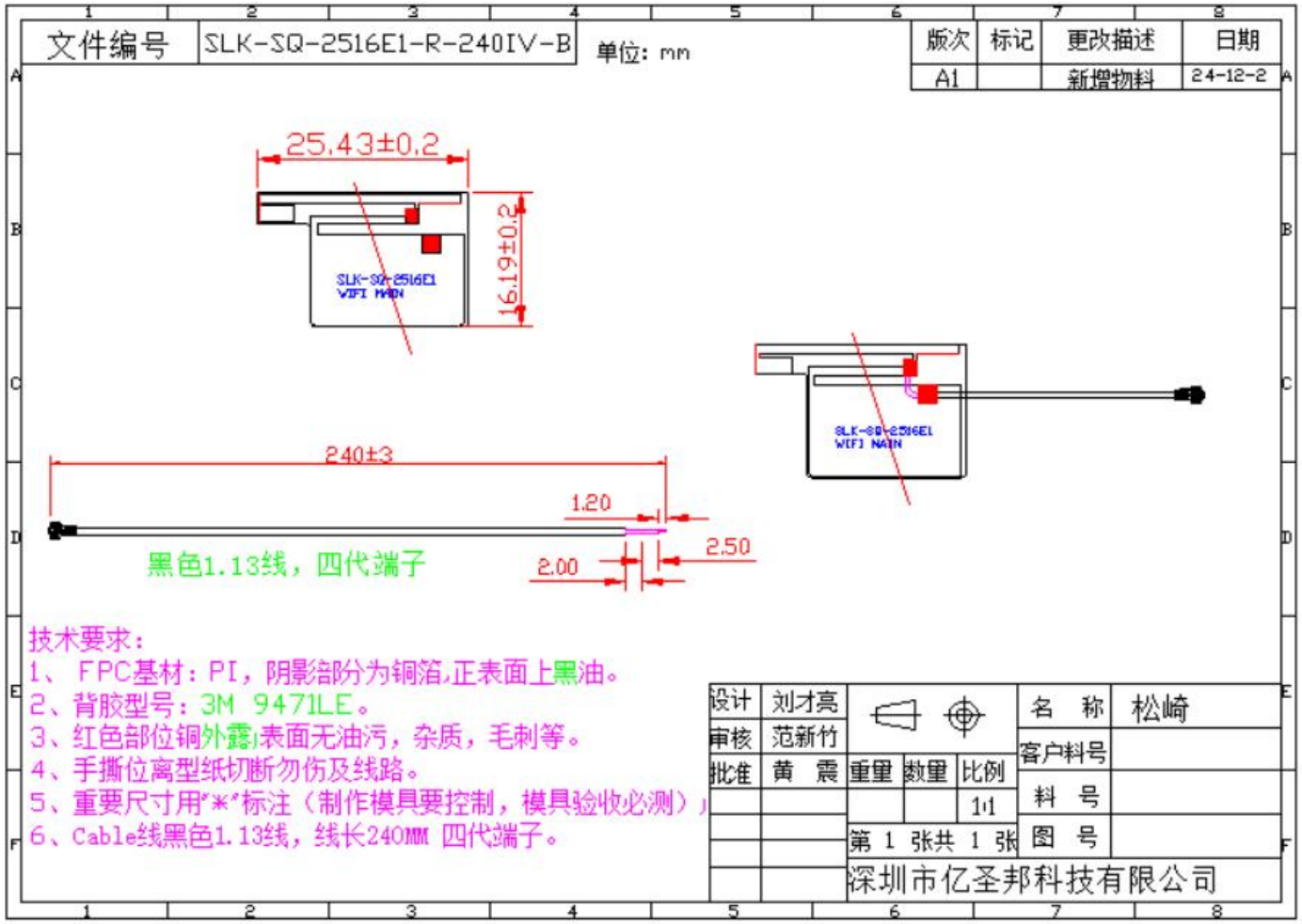
2.4上传	2.4下载	5.8上传	5.8下载
219M	338M	798M	838M

用外置天线测试无提升

测试环境：室内无障碍环境下，距离路由器1M；蓝牙10米播放音乐无卡顿；

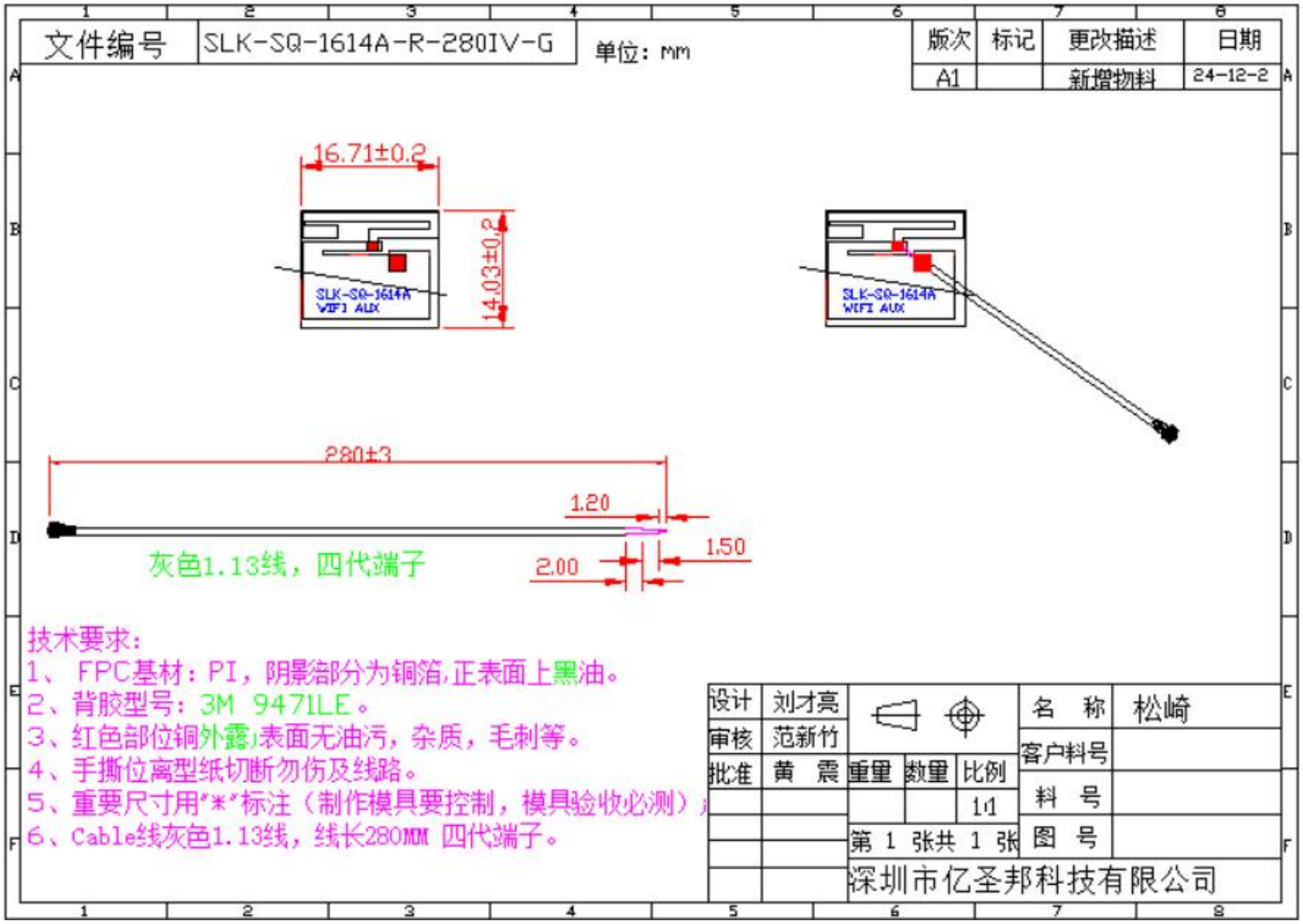
2. Test Result

2.5 Antenna size



2. Test Result

2.5 Antenna size



3. Conclusions

Thank you