

Shenzhen Yishengbang Technology Co., Ltd.

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Customer: 伟合佳

Project: US720

Product: WIFI/GPS+4G Antenna—FPC

Report date: 2023-08-31

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Checked by : Eason Huang

Approved by :

Purpose

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

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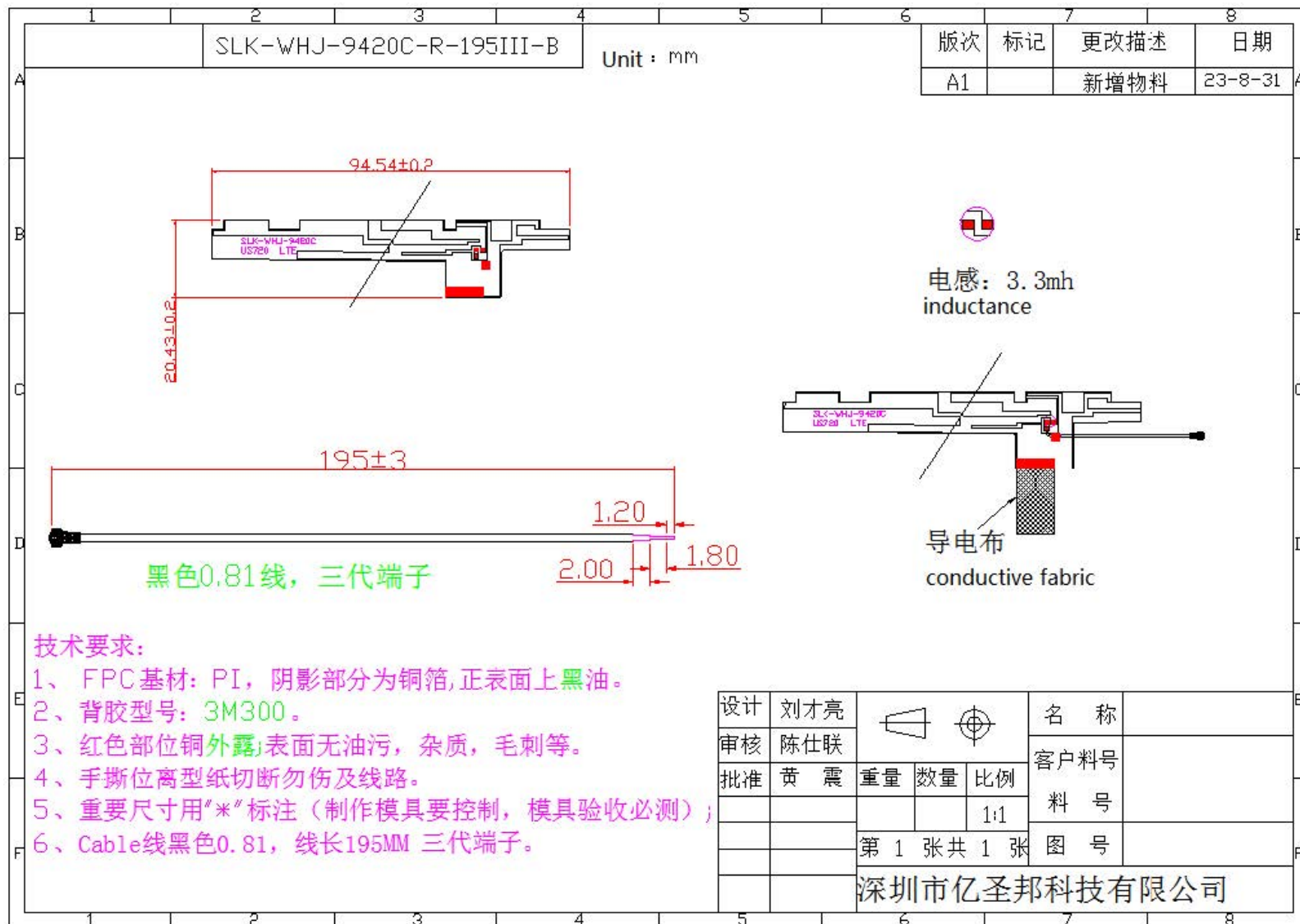
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1. Product Overview & Dimension

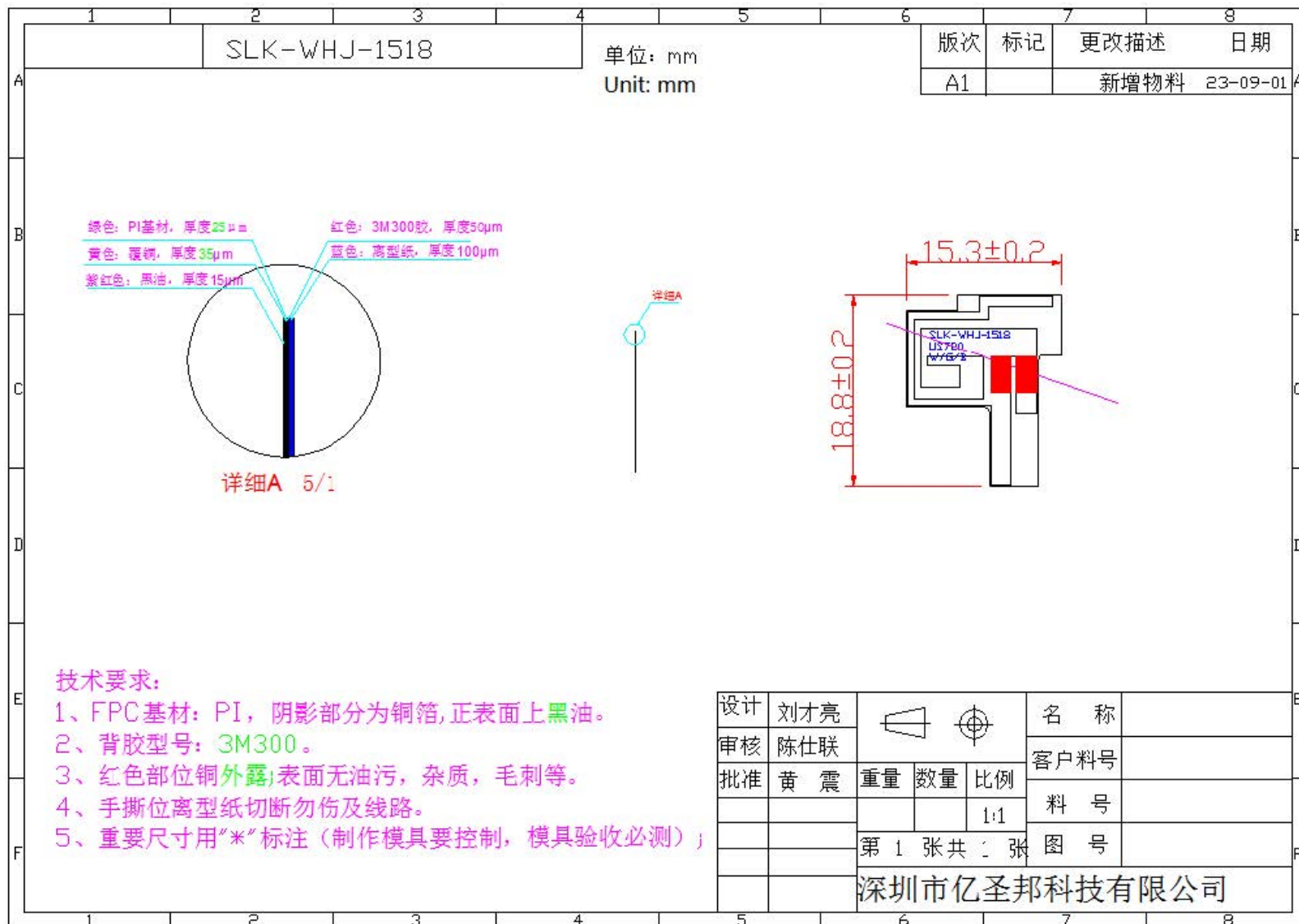


WIFI/GPS Ant

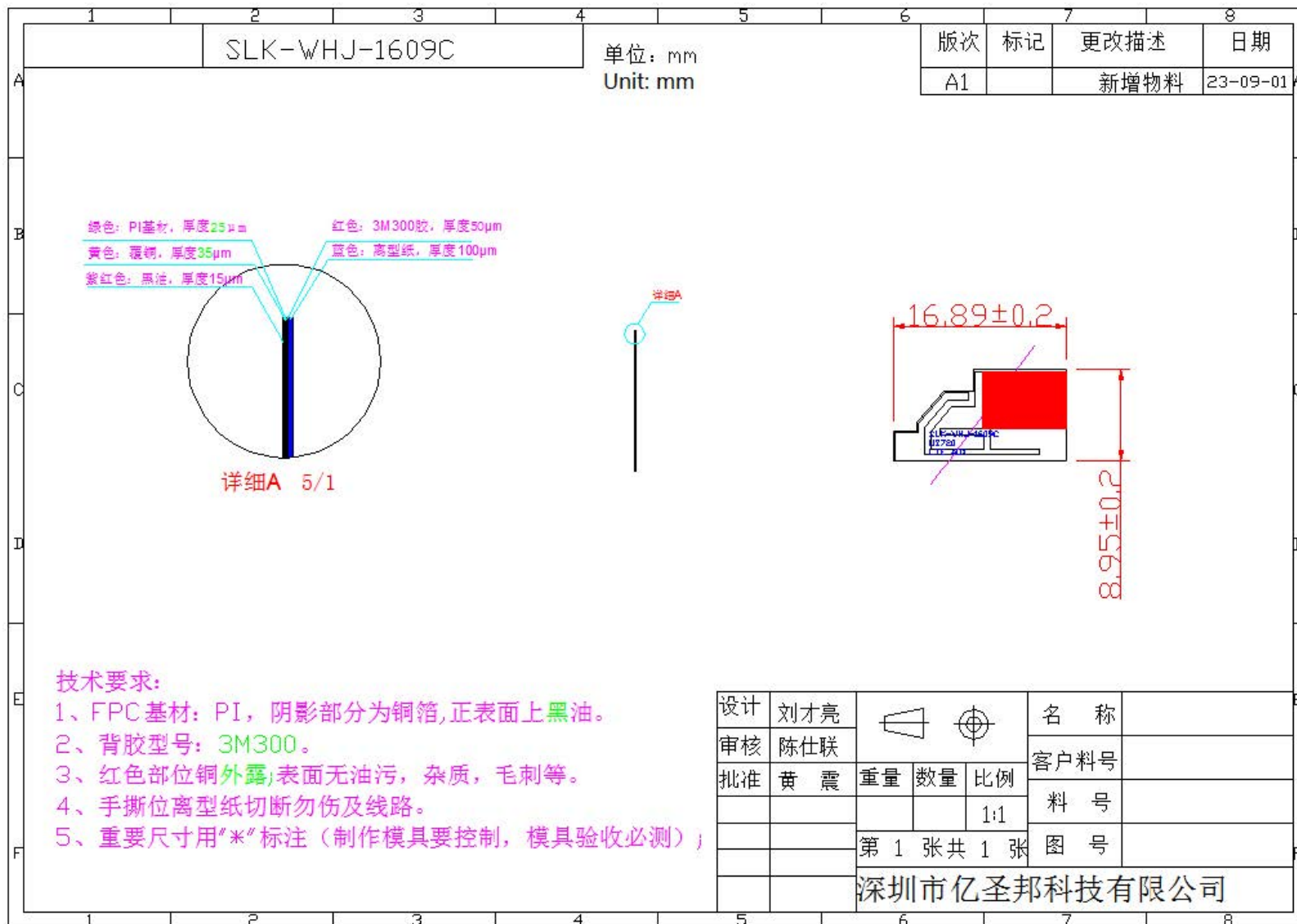
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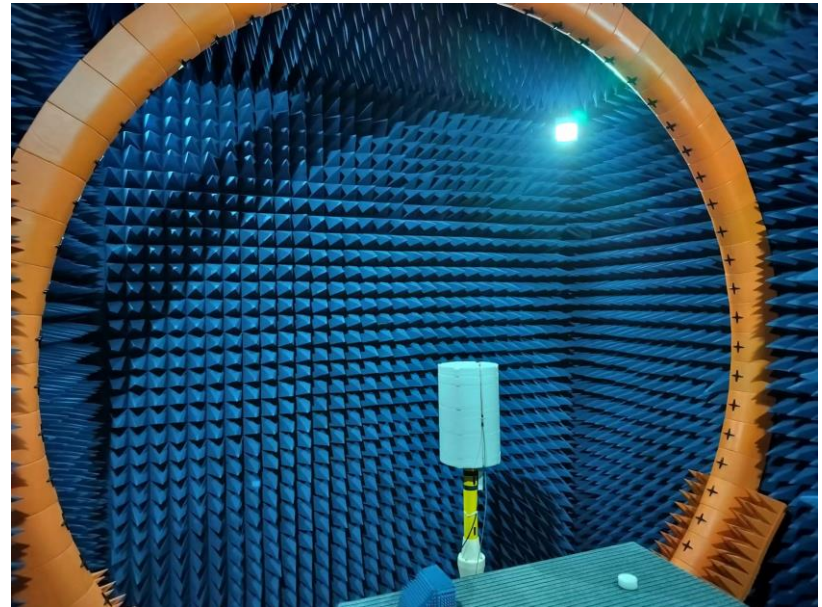
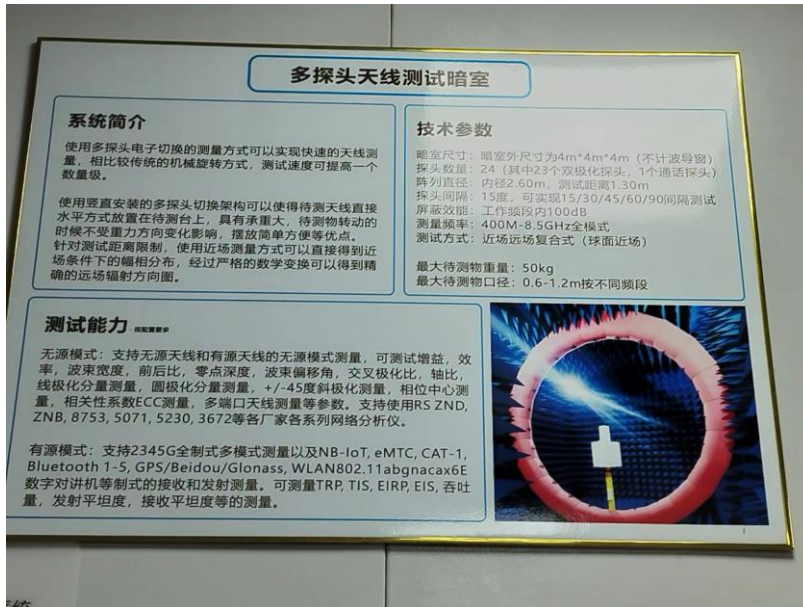


1. Product Overview & Dimension



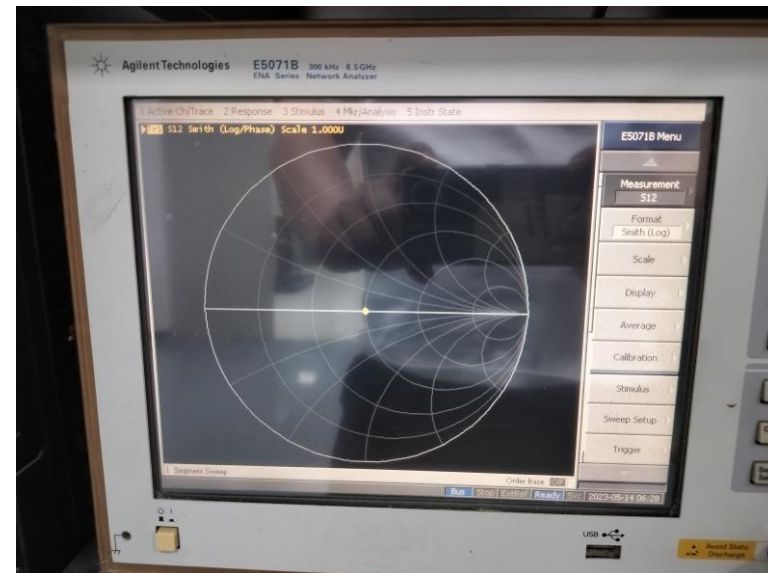
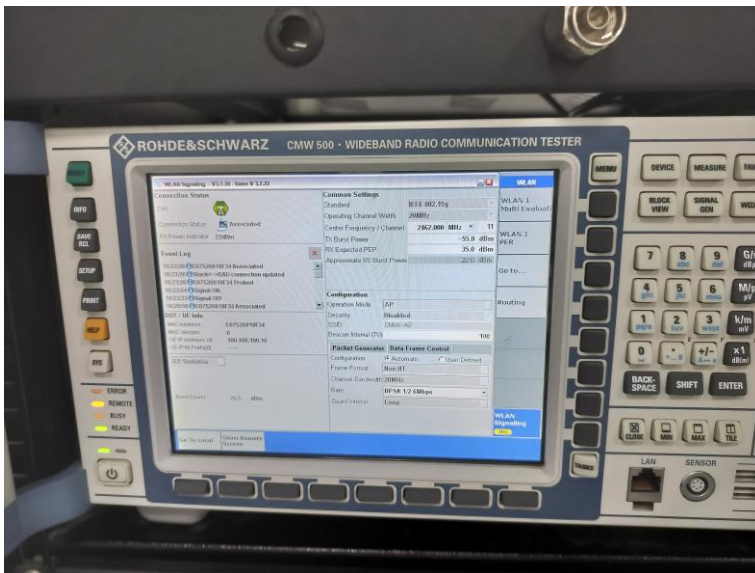
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Darkroom brand



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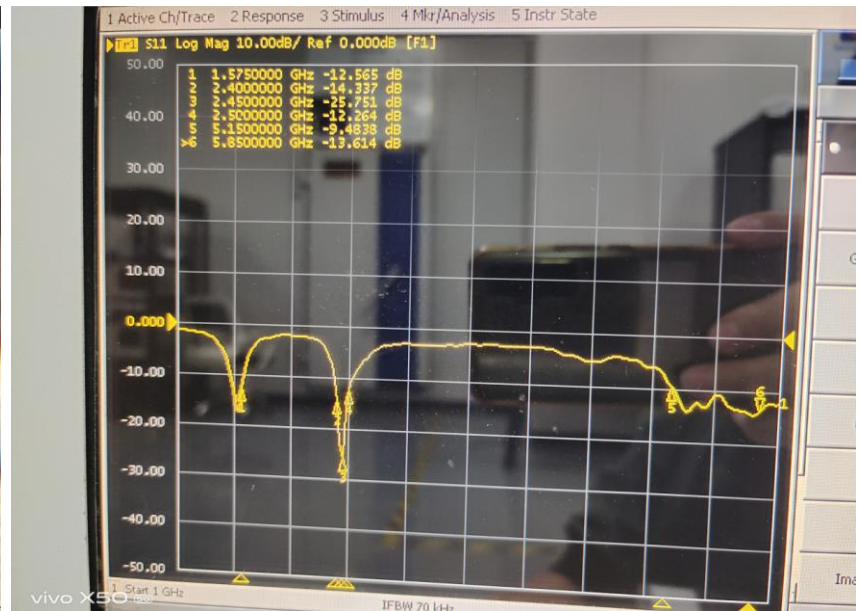
1. Product Overview & Dimension

Darkroom brand



2. Test Result

2.1 WIFI/GPS Antenna VSWR/S11



2. Test Result

2.2 WIFI/GSP Antenna Gain/Efficiency/3D DATA

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
1570.0	-4.65	0.16	34.25
1575.0	-4.77	0.30	33.33
1580.0	-4.53	0.19	35.22
2400.0	-4.18	0.89	38.23
2410.0	-4.04	1.19	39.44
2420.0	-4.09	1.13	39.01
2430.0	-4.36	1.12	36.65
2440.0	-3.99	1.27	39.86
2450.0	-4.05	0.85	39.34
2460.0	-3.96	1.16	40.15
2470.0	-4.26	1.13	37.51
2480.0	-4.36	0.74	36.64
2490.0	-4.24	1.02	37.64
2500.0	-4.19	0.97	38.09
5113.0	-4.94	2.75	32.03
5250.0	-4.72	2.07	33.74
5350.0	-4.86	2.61	32.69
5550.0	-4.66	2.72	34.21
5750.0	-4.53	2.51	35.23
5850.0	-4.17	2.44	38.31

Item	Gain
GPS	0.3dbi
BT	1.27dbi
2.4G WLAN	1.27dbi
5G WLAN	2.75dbi

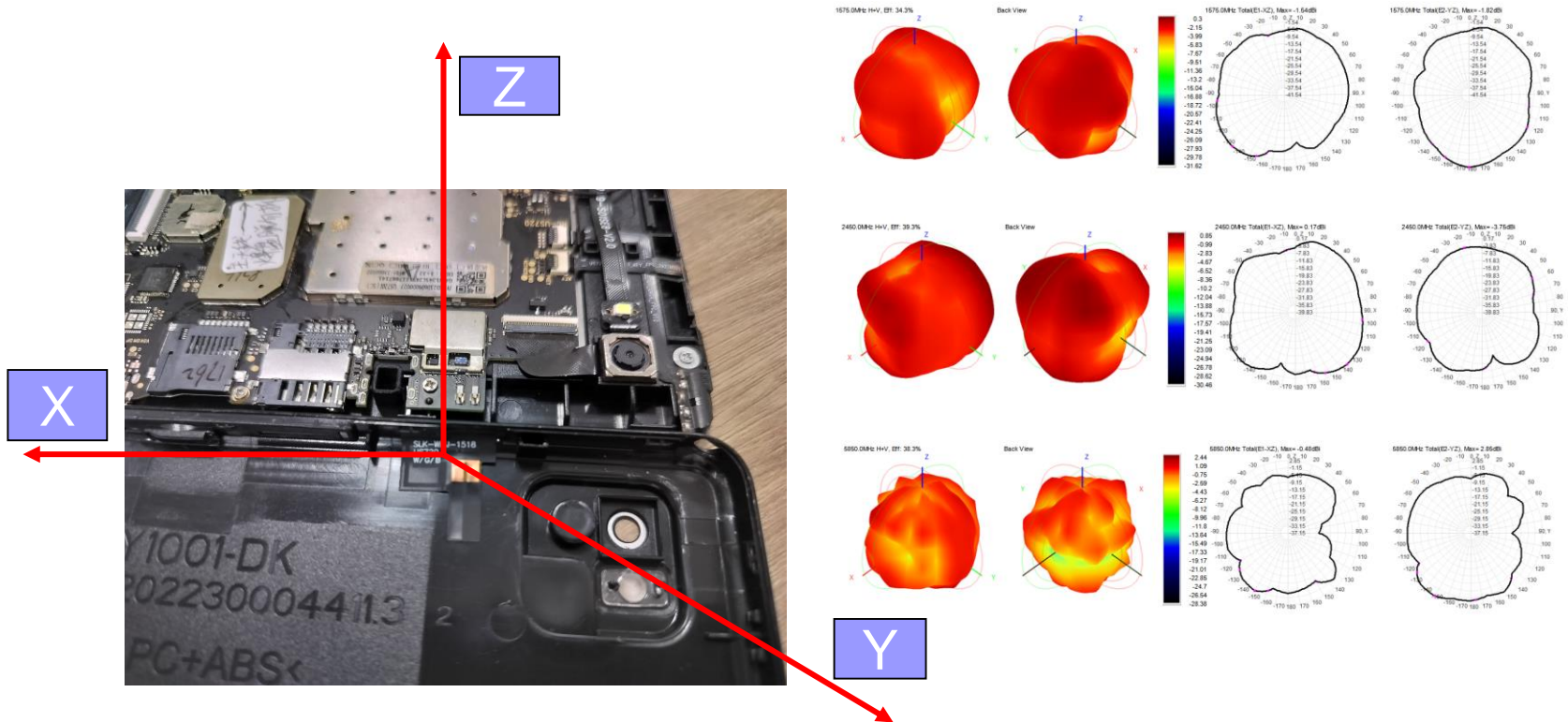
2. Test Result

2.2 WIFI active test

WIFI			
Band	1	6	11
B-TRP-11Mbps	12.64	12.56	12.6
B-TIS-11Mbps	-79.4	-79.04	-80.64
G-TRP-54Mbps	11.29	12.37	11.76
G-TIS-54Mbps	-67.02	-67.23	-67.45
N-TRP-MCS7	11.32	12.42	11.75
N-TIS-MCS7	-64.69	-65.09	-64.17
Band	36	149	165
A-TRP-54Mbps	9.24	9.38	8.68
A-TIS-54Mbps	-70.84	-71.07	-70.85

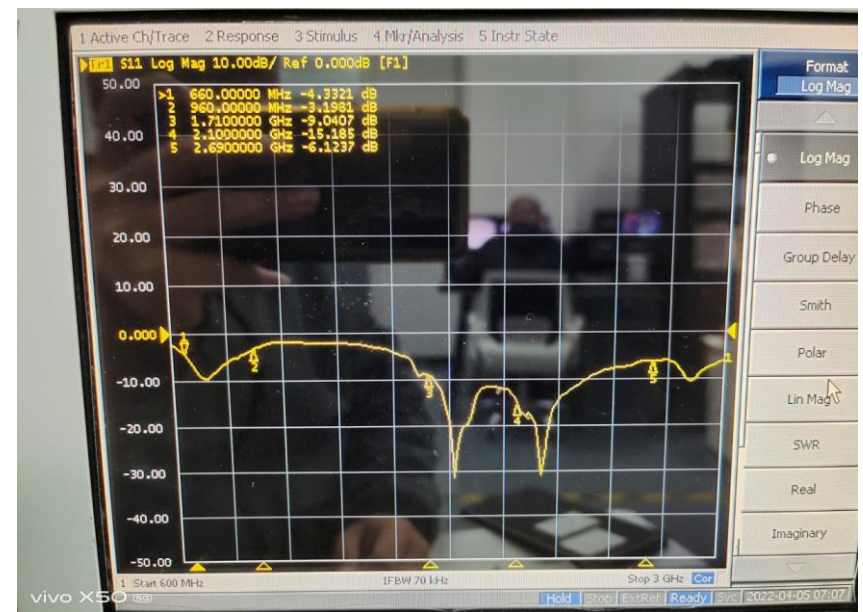
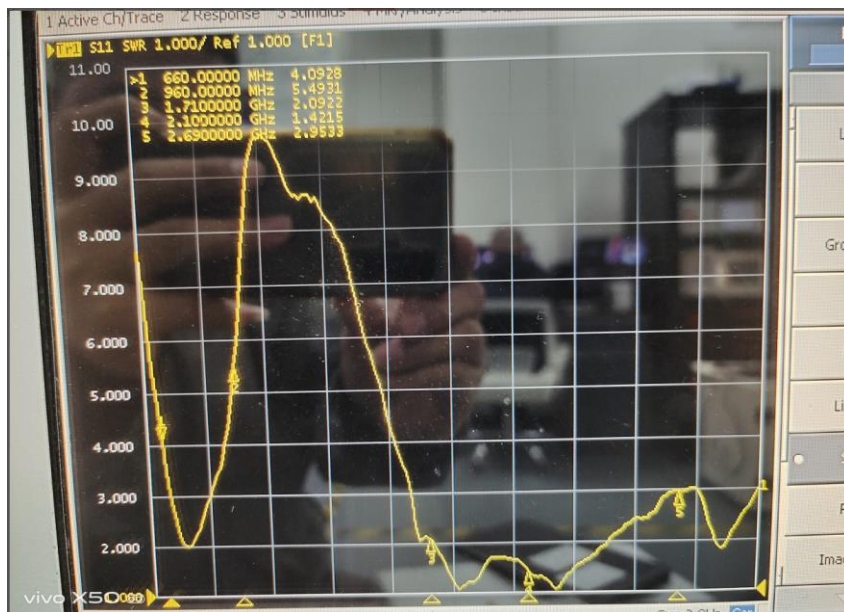
2. Test Result

2.2 WIFI/GPS Antenna Gain/Efficiency/3D DATA



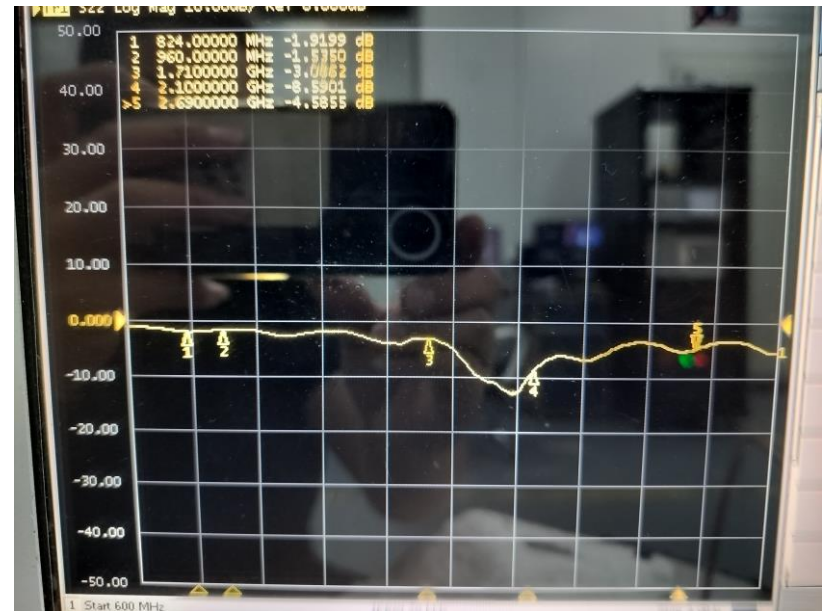
3. Test Result

3.1 4G MAIN Antenna VSWR/S11



3. Test Result

3.2 4G AUX Antenna VSWR/S11



3. Test Result

3.3 4G Antenna TRP/TIS

2G	LTE-L	LTE-M	LTE-R	TIS	Gain (dBi)
GSM850	25.24	24.59	24.18	-102.09	0.7
GSM900	26.09	25.33	24.97	-102.13	0.8
GSM1800	24.26	24.87	24.47	-102.33	1
GSM1900	24.77	24.08	24.16	-102.08	1.2
3G	LTE-L	LTE-M	LTE-R	TIS	Gain (dBi)
WCDMA-B1	17.78	18.07	18.14	-103.23	1.3
WCDMA-B2	18.28	17.91	17.42	-103.41	1.2
WCDMA-B4	17.46	18.04	18.25	-102.57	1
WCDMA-B5	16.14	15.43	14.82	-102.44	0.7
WCDMA-B8	16.09	15.29	14.91	-102.36	0.8
4G	LTE-L	LTE-M	LTE-R	TIS	Gain (dBi)
LTE-1	17.12	17.09	16.26	-93.14	1.3
LTE-2	17.59	17.12	17.28	-91.64	1.2
LTE-3	16.59	16.92	17.07	-90.37	1
LTE-4	16.87	16.18	16.22	-90.46	1
LTE5	16.22	15.89	14.91	-89.78	0.7
LTE-7	17.19	17.34	16.44	-90.18	1.6
LTE-12	15.38	15.05	14.29	-88.49	0.6
LTE-13	15.61	15.23	14.62	-88.61	0.6
LTE-41	16.07	16.28	16.33	-89.27	1.6
LTE-66	16.31	16.45	16.22	-90.47	1.1

