Antenna test report

Customer Name: Tian Rui Xiang

Project Name: S6802-37A

Designer: Liu Chun Yun

Date: 2022/10/12

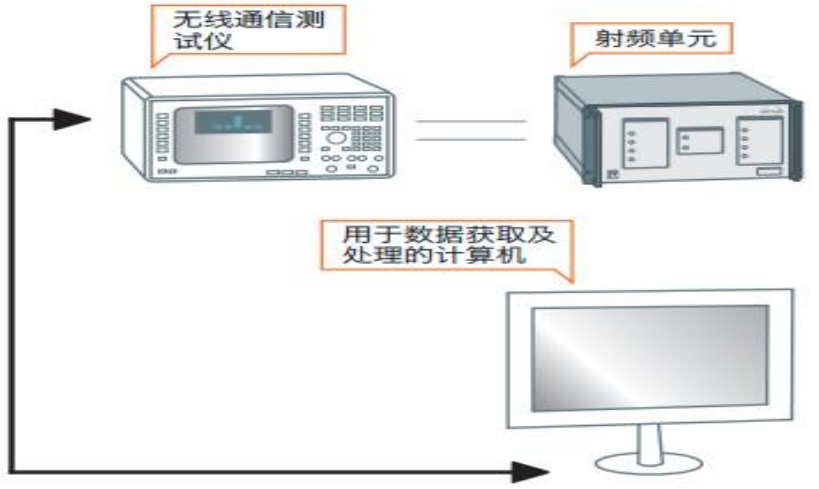
The customer name	Tian Rui Xiang	Project Name	**S6802-37A**

NO.	project	Detailed above
1	spectrum	WIFI/BT
2	Project type	The mobile phone
3	Antenna space area	
4	Feed point type	
5	The sensitivity	
6	Type of antenna	
7	The length of the PCB board	
8	note	Debugging prototype

RF	Liu Chun Yun	15112340864	hxw_lcy@sz-hxw.cn

1、Test system and test equipment

System Brand: MVG(SATIMO) measurement features: gain • pattern beamwidth cross polarization resolution sidelobe level 3D cavity reflectance at any polarization cavity reflectance (line or arc) antenna efficiency TRP, TIS, EIRP and EIS. Frequency band: StarLab 6 GHZ - 650 MHZ to 6 GHZ



TIS预计测量时间（一个信道每隔30° 取样）

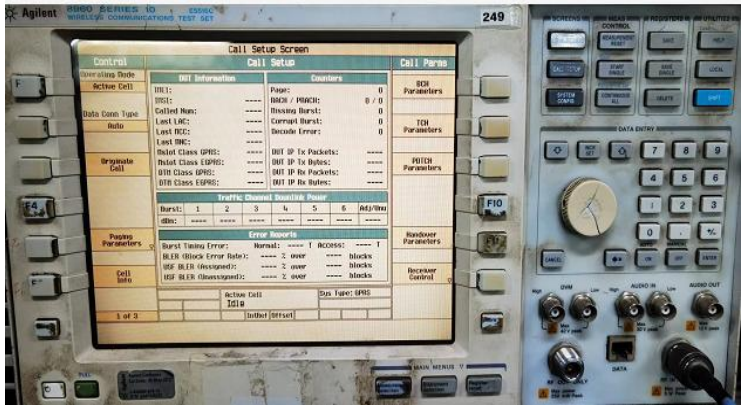
灵敏度算法 \ 标准	GSM GPRS EDGE	CDMA 1 x RTT 1 x EvDO	WCDMA HSDPA LTE FDD/TDD	Wi-Fi 802.11 a/b/g/n	CTIA 批准方法
RSSI模式+线性化+TIS补偿	8 min		10 min		是
EIS模式+TIS补偿		5 min		5 min	是[2]
快速CDMA		8 min			No
EIRP模式+TIS补偿				10 min	No

1、根据RTC
2、根据协议


TIS 3D方位切割强度图


TRP 3D方位切割强度图

Test Equipment



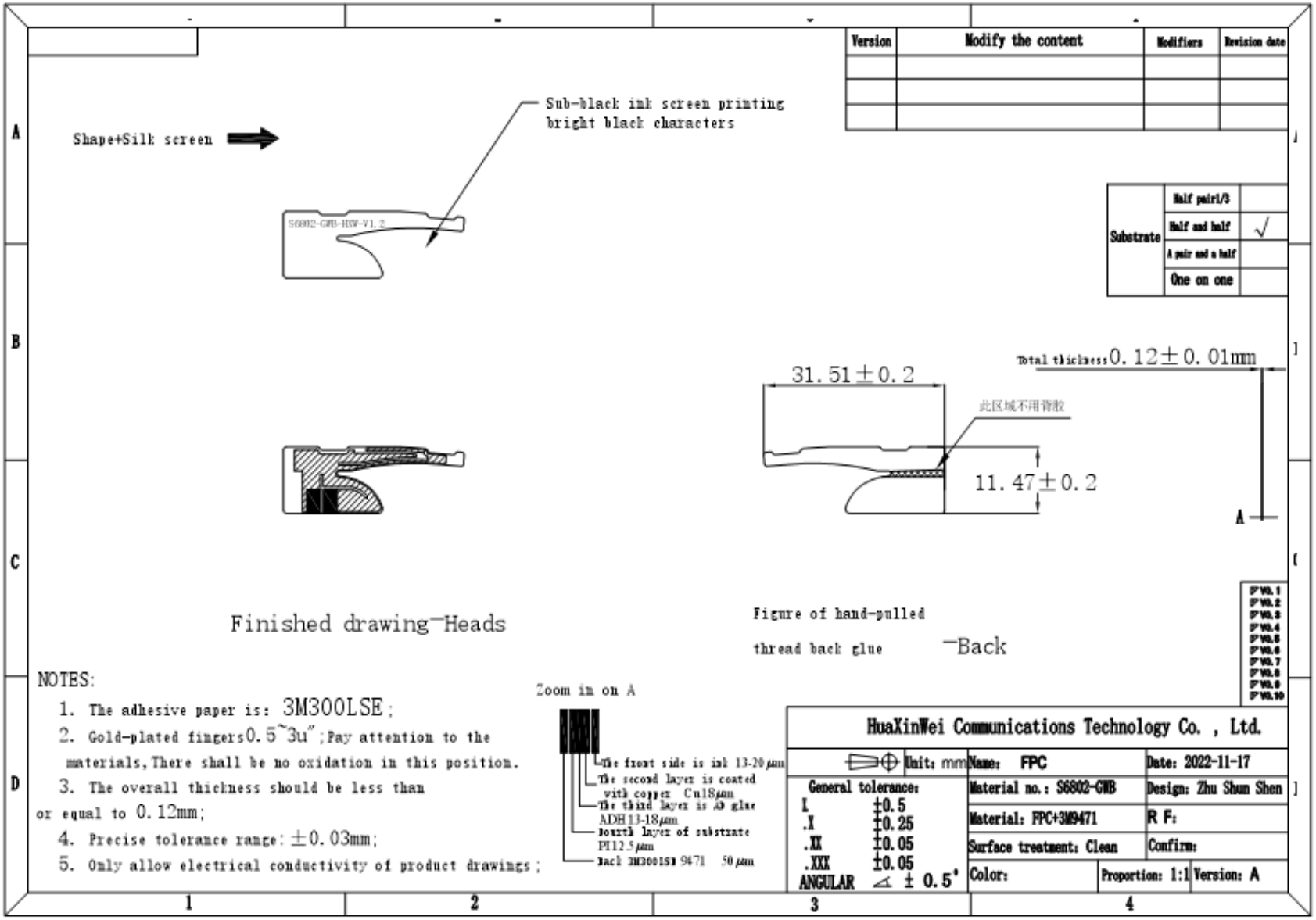
Antenna position

main antenna

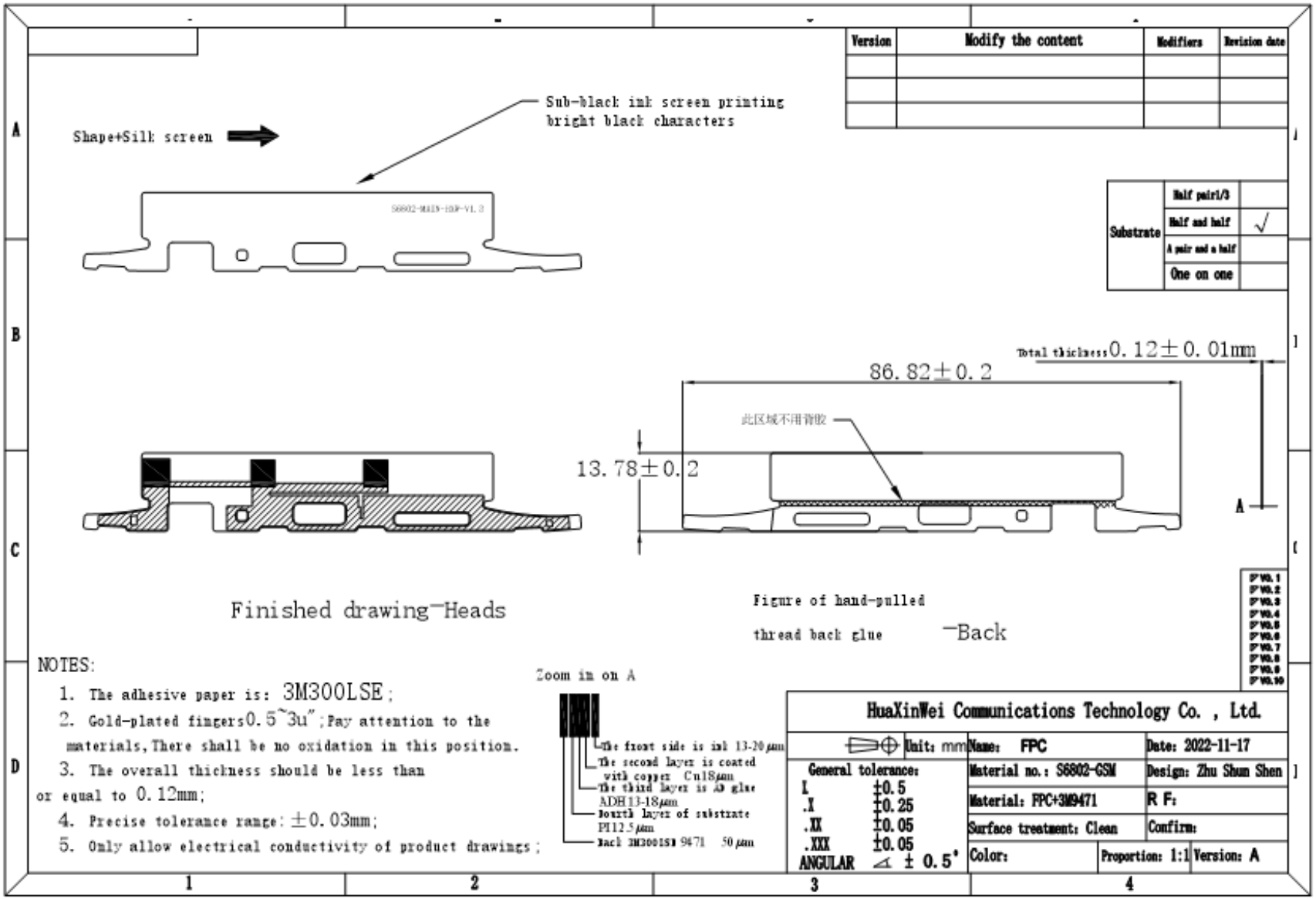
diversity antenna

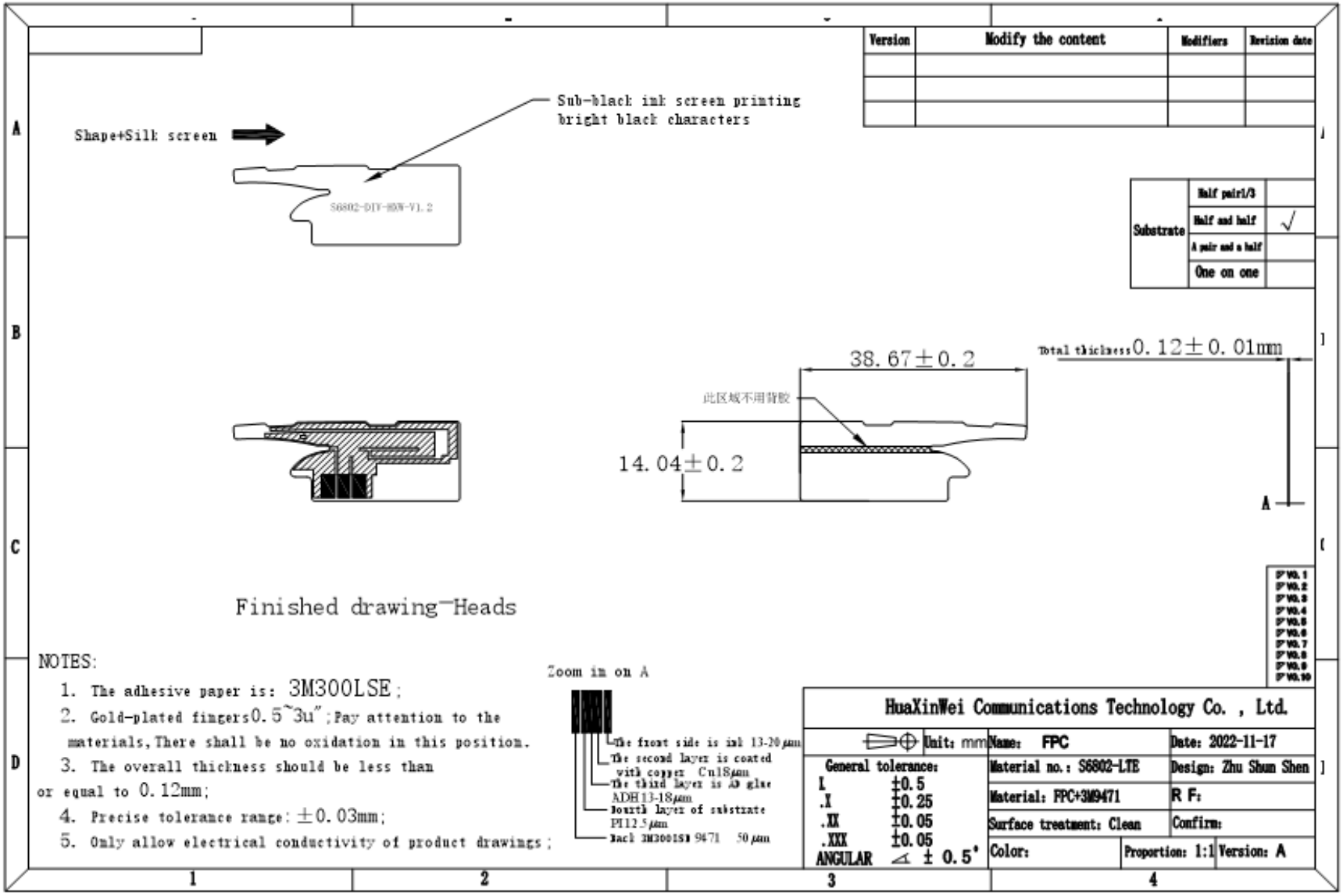
GPS/WIFI/BT antenna

BT/WLAN/GNSS Antenna



WWAN Main Antenna

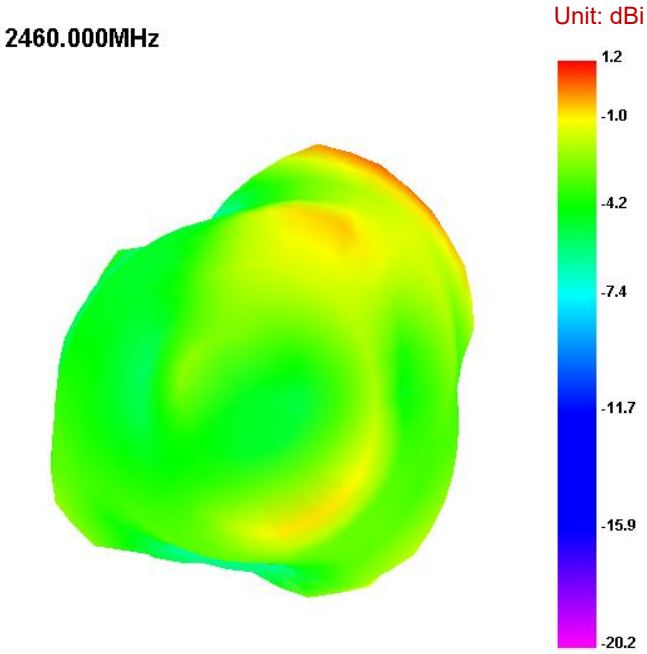


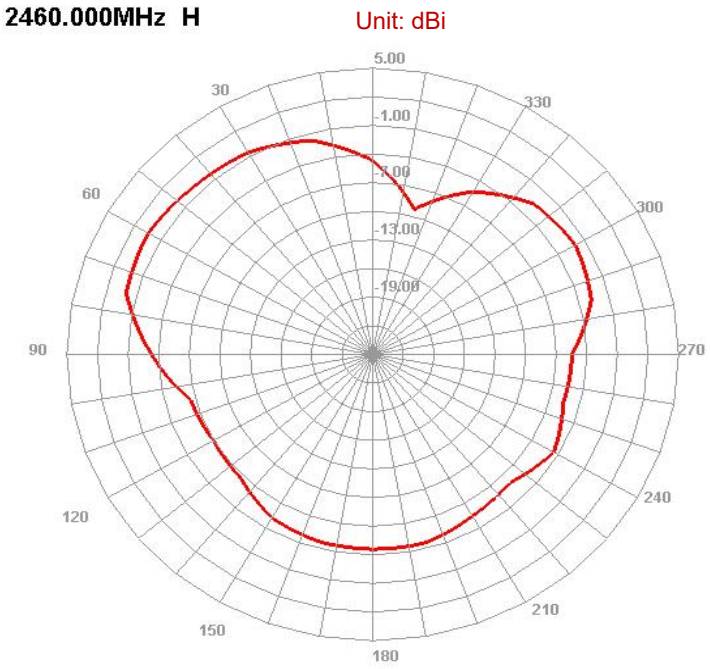

Version
Modify the content
Modifiers
Revision date
Shape+Silk screen
Sub-black ink screen printing bright black characters
S6802-DIY-HSW-V1.2
Substrate
Half pair1/3
Half and half
A pair and a half
One on one
38.67±0.2
14.04±0.2
此区域不用背胶
Total thickness:0.12±0.01mm
A
Finished drawing-Heads
NOTES:
1. The adhesive paper is: 3M300LSE;
2. Gold-plated fingers0.5~3u"; Pay attention to the materials, There shall be no oxidation in this position.
3. The overall thickness should be less than or equal to 0.12mm;
4. Precise tolerance range: ±0.03mm;
5. Only allow electrical conductivity of product drawings;
Zoom in on A
The front side is ink 13-20μm
The second layer is coated with copper Cu18μm
The third layer is AD glue ADH13-18μm
Fourth layer of substrate PI12.5μm
Back 3M300LSE 9471 50μm
HuaXinWei Communications Technology Co. , Ltd.
Unit: mm
Name: FPC
Date: 2022-11-17
General tolerance:
I ±0.5
.X ±0.25
.XX ±0.05
.XXX ±0.05
ANGULAR ∠ ± 0.5°
Material no.: S6802-LTE
Design: Zhu Shun Shen
Material: FPC+3M9471
R F:
Surface treatment: Clean
Confirm:
Color:
Proportion: 1:1
Version: A
1
2
3
4

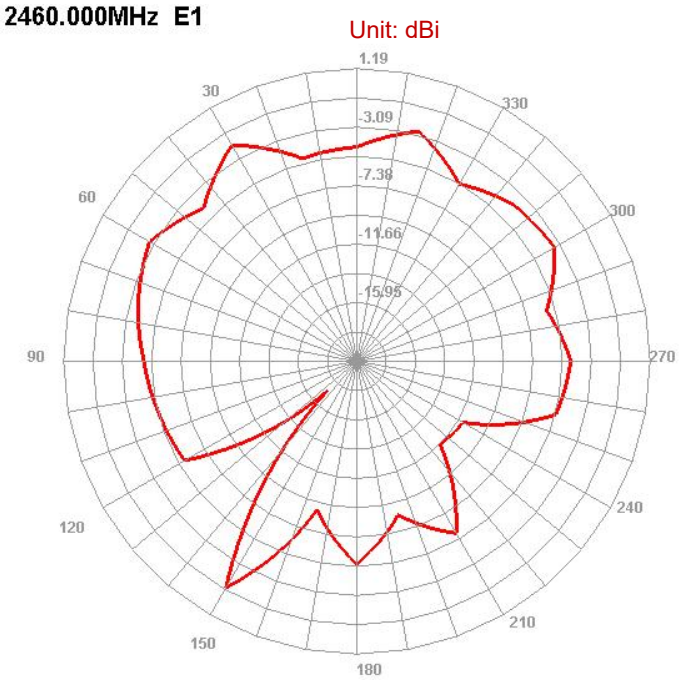
Efficient（ 2.4G-WiFi /BT）

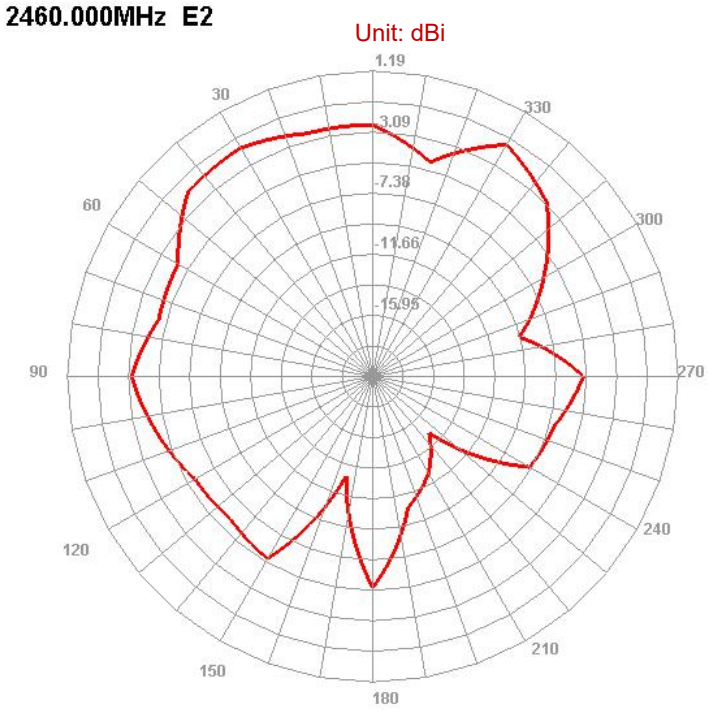
PEAK GAIN		
WIFI	2400~2500Mhz	1.26dBi
WIFI	5150~5850Mhz	1.17dBi
BT	2400~2500Mhz	1.26dBi

Efficient（2.4GWIFI/BT)

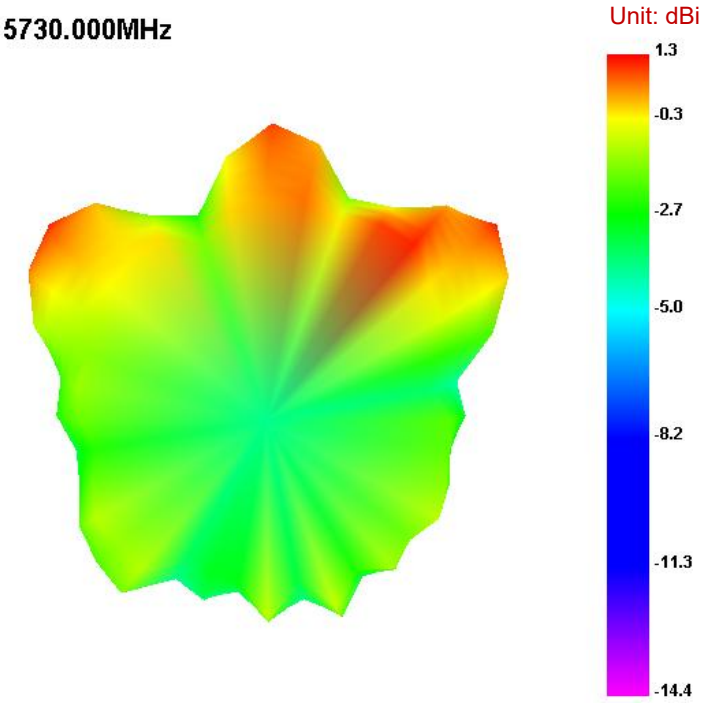


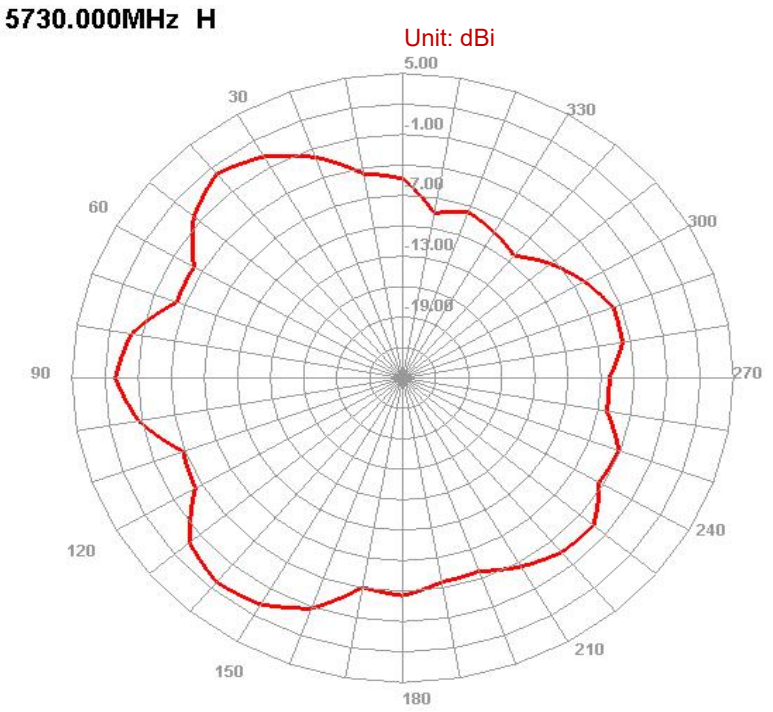


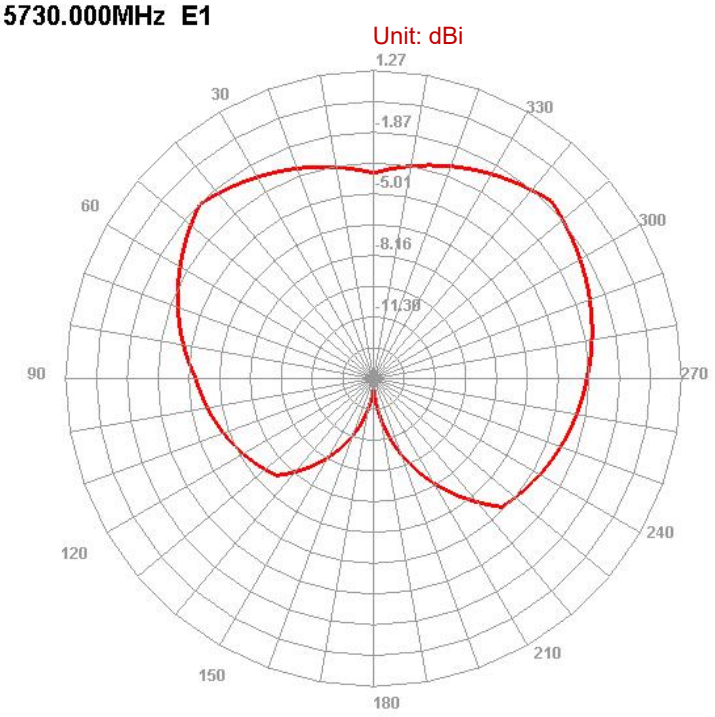


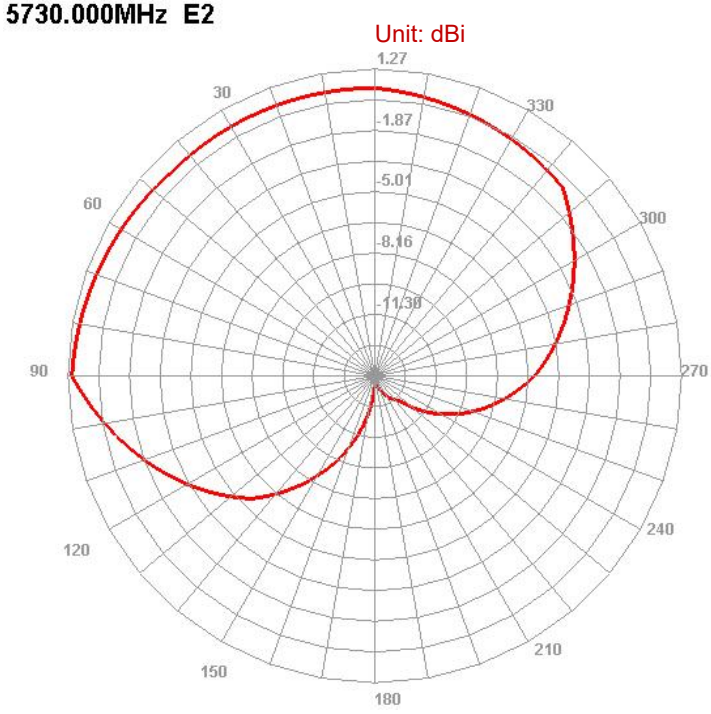


Efficient（5.8GWIFI)









Wifi Antenna test

Environmental treatment

喇叭接地　马达接地　摄像头接地