

Shenzhen SaiweiCommunication Technology Co., Ltd.

Antenna Test Report

customer name: MOBOT
project name: S6756
report time: 20250807

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catalogue

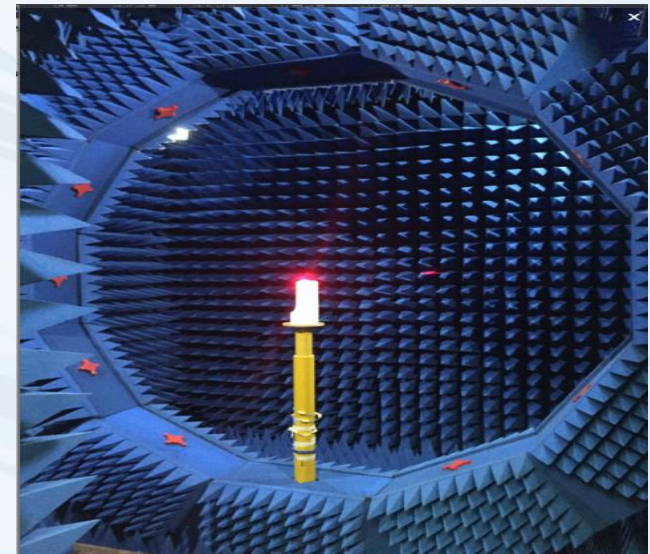
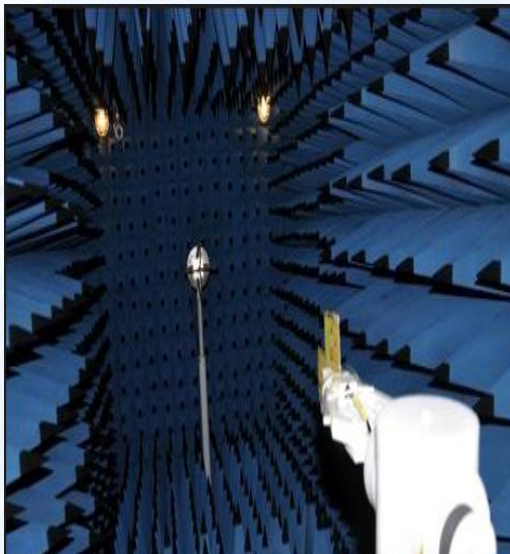
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Project Debugging Overview

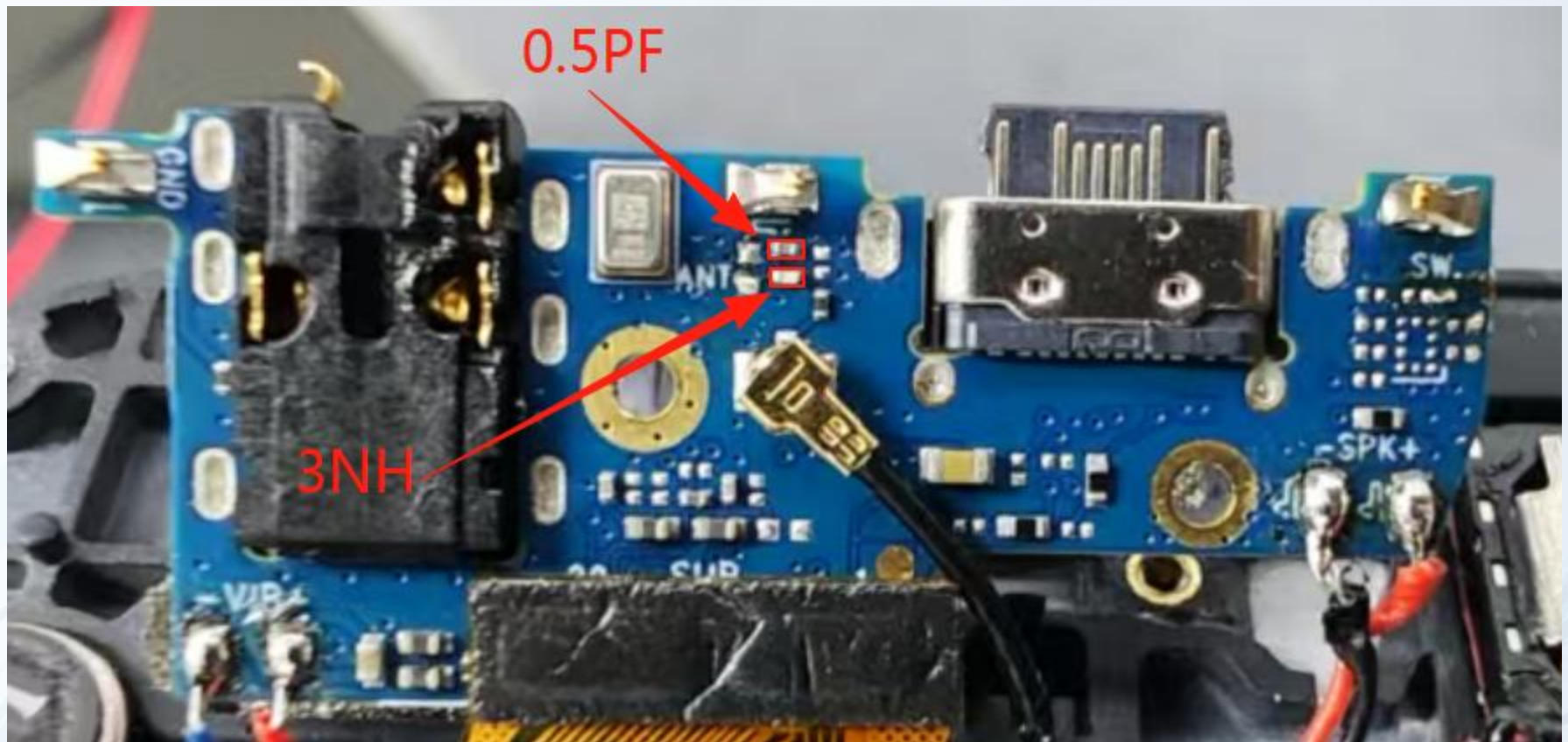
type	intelligent machine						
plate cut	mainboard						
Antenna Overview	main antenna	frequency band		Antenna status	Antenna form	Design area	匹配改动
		2G	850、900、1800、1900	FPC	PIFA	battery cover	
		3G	W2 W5				
		4G	2/4/5/7/28AB/38				
	Other antennas	BT/WIFI	2.4G		PIFA	battery cover	
		GPS	1.575G				
		diversity			PIFA	battery cover	

Summary of the Report Version

versions	date	Content summary
V1	20250802	data report
V2	20250807	data report



Modification of small board matching



Feed point position and 0.5PF, series 3NH

2G	Channel	TRP (dBm)	TIS (dBm)
850	L	26.1	
	H	26.0	
	W	25.8	-102.1
900	L	24.7	
	H	24.3	
	W	24.2	-98.7
1800	L	24.8	
	H	24.4	
	W	24.2	-103.1
1900	L	25.6	
	H	25.4	
	W	25.1	-101.4

3G	Channel	TRP (dBm)	TIS (dBm)
W2	L	17.2	
	H	17.0	
	W	16.6	-104.1
W5	L	16.5	
	H	16.8	
	W	16.4	-104.8

4G	Channel	TRP (dBm)	TIS (dBm)
B2	L	17.1	
	H	16.7	
	W	16.6	-92.5
B4	L	16.3	
	H	16.4	
	W	16.5	-92.2
B5	L	16.2	
	H	16.4	
	W	16.5	-90.2
B7	L	17.1	
	H	17.2	
	W	17.4	-92.6

4G	Channel	TRP (dBm)	TIS (dBm)
28AB	L	17.4	
	H	18.2	
	W	18.5	-94.3
B38	L	17.5	
	H	17.7	
	W	17.9	-92.8

test item:GPS

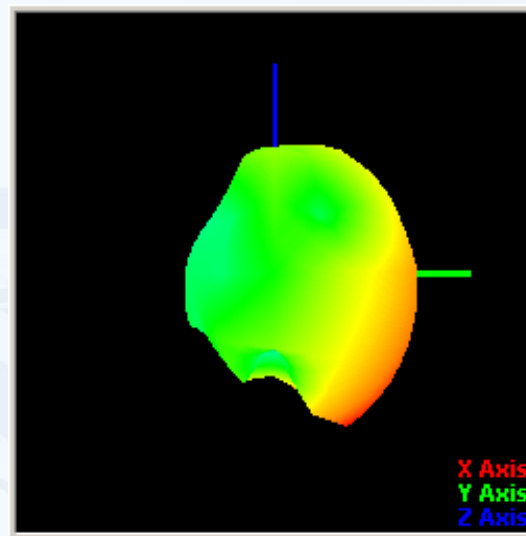


Antenna gain

Standard	Band	Gain(dbi)
FDD_LTE	FDD_B2	0.21
FDD_LTE	FDD_B4	-0.43
FDD_LTE	FDD_B5	-1.35
FDD_LTE	FDD_B7	1.08
FDD_LTE	FDD_28AB	-2.72
TDD_LTE	TDD_B38	0.70
WCDMA	WCDMA_B2	0.21
WCDMA	WCDMA_B5	-1.35
GSM	GSM850	-1.35
GSM	GSM900	-3.03
GSM	DCS1800	-0.93
GSM	PCS1900	0.21
WIFI	2.4G	1.38
BT	2.4G	1.38
GPS	1.575G	-2.31

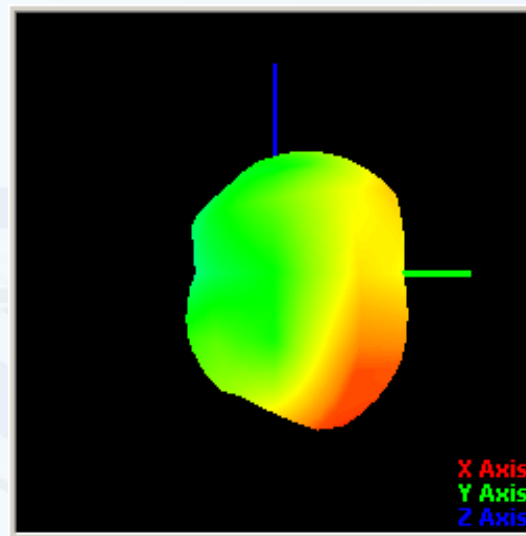
Main antenna apple diagramApple chart

700M



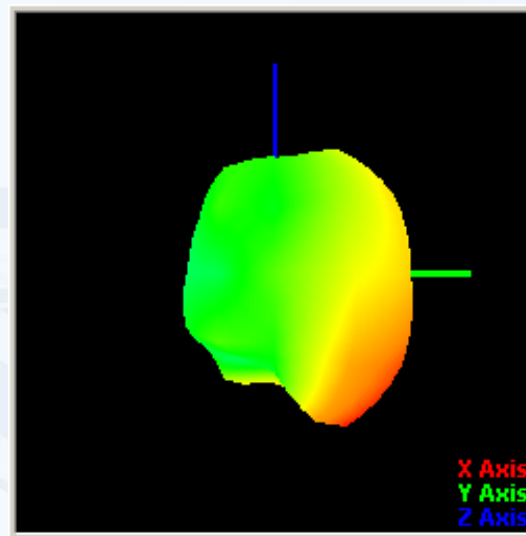
Main antenna apple diagramApple chart

800M



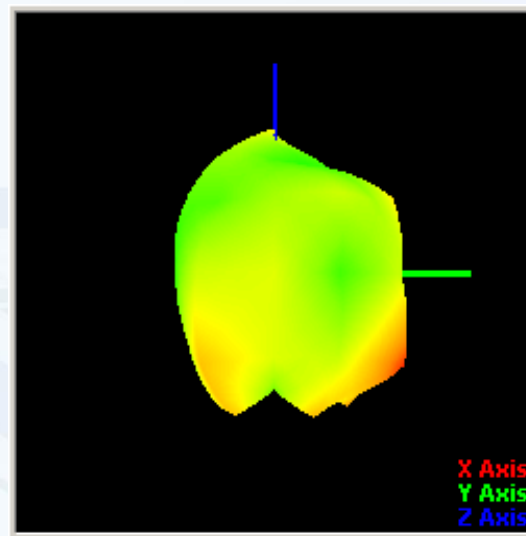
Main antenna apple diagramApple chart

900M



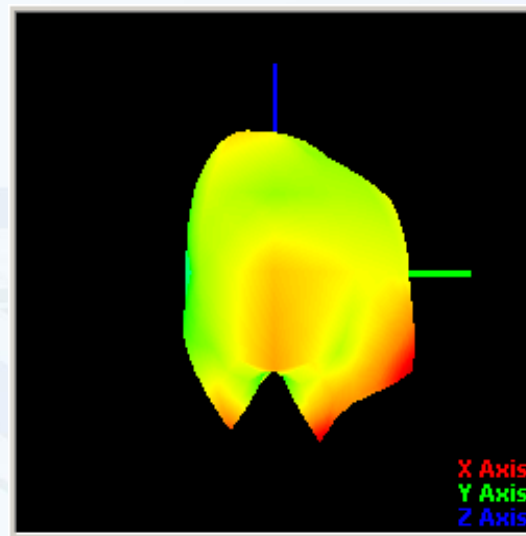
Main antenna apple diagramApple chart

1700M



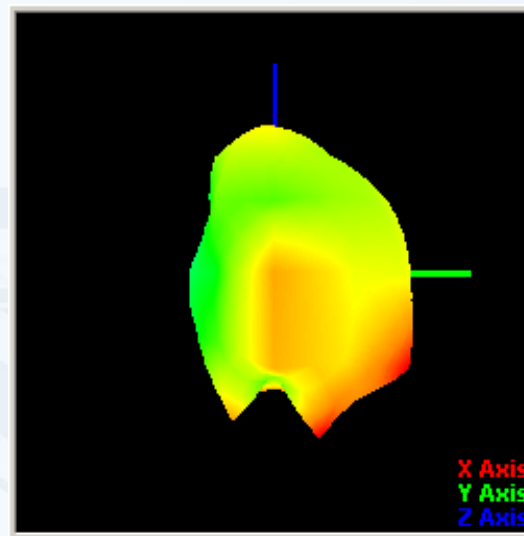
Main antenna apple diagramApple chart

1800M



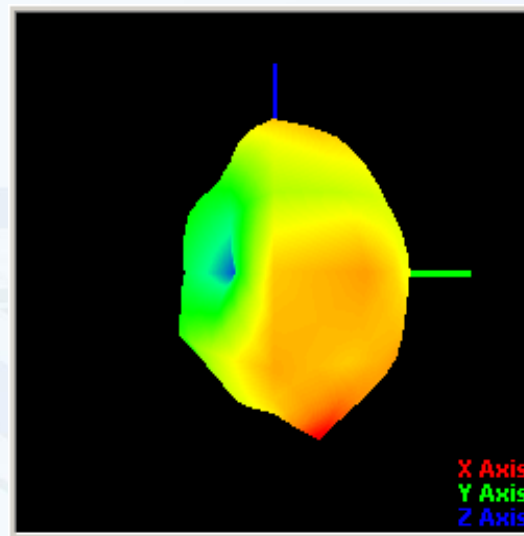
Main antenna apple diagramApple chart

1900M



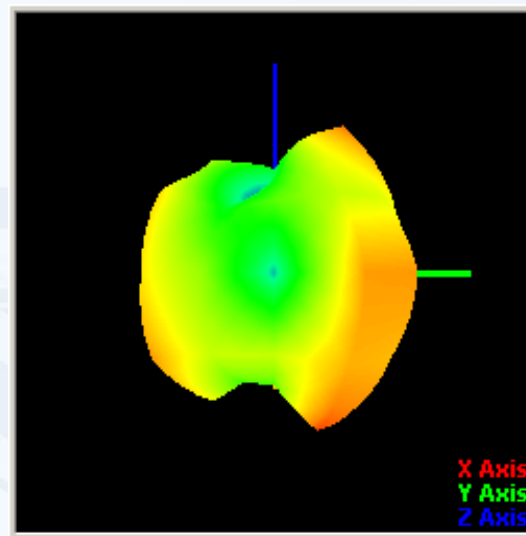
Main antenna apple diagramApple chart

2100M



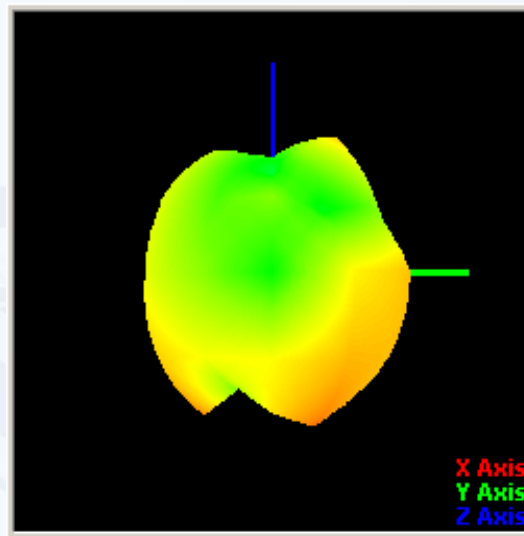
Main antenna apple diagramApple chart

2500M

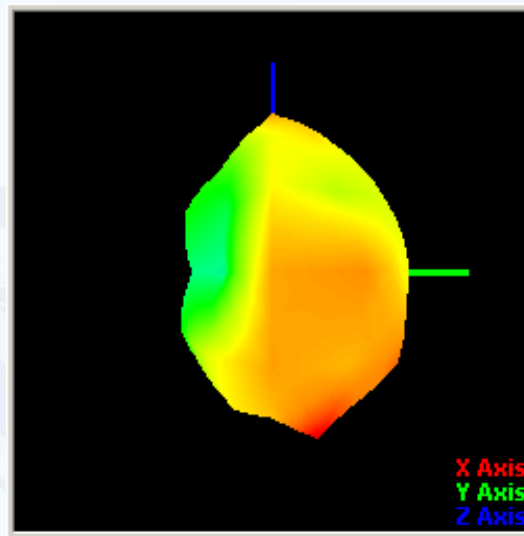


Main antenna apple diagramApple chart

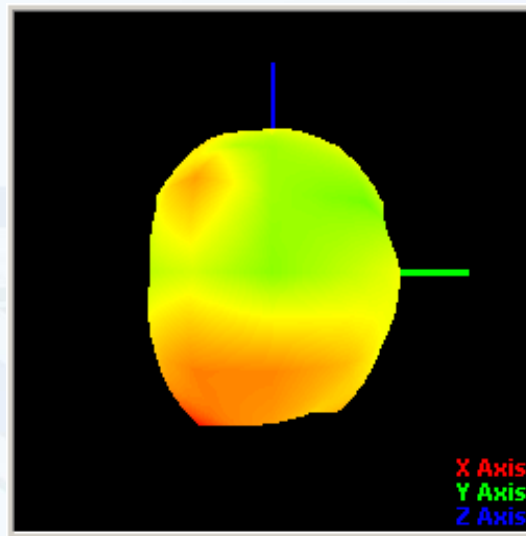
2600M



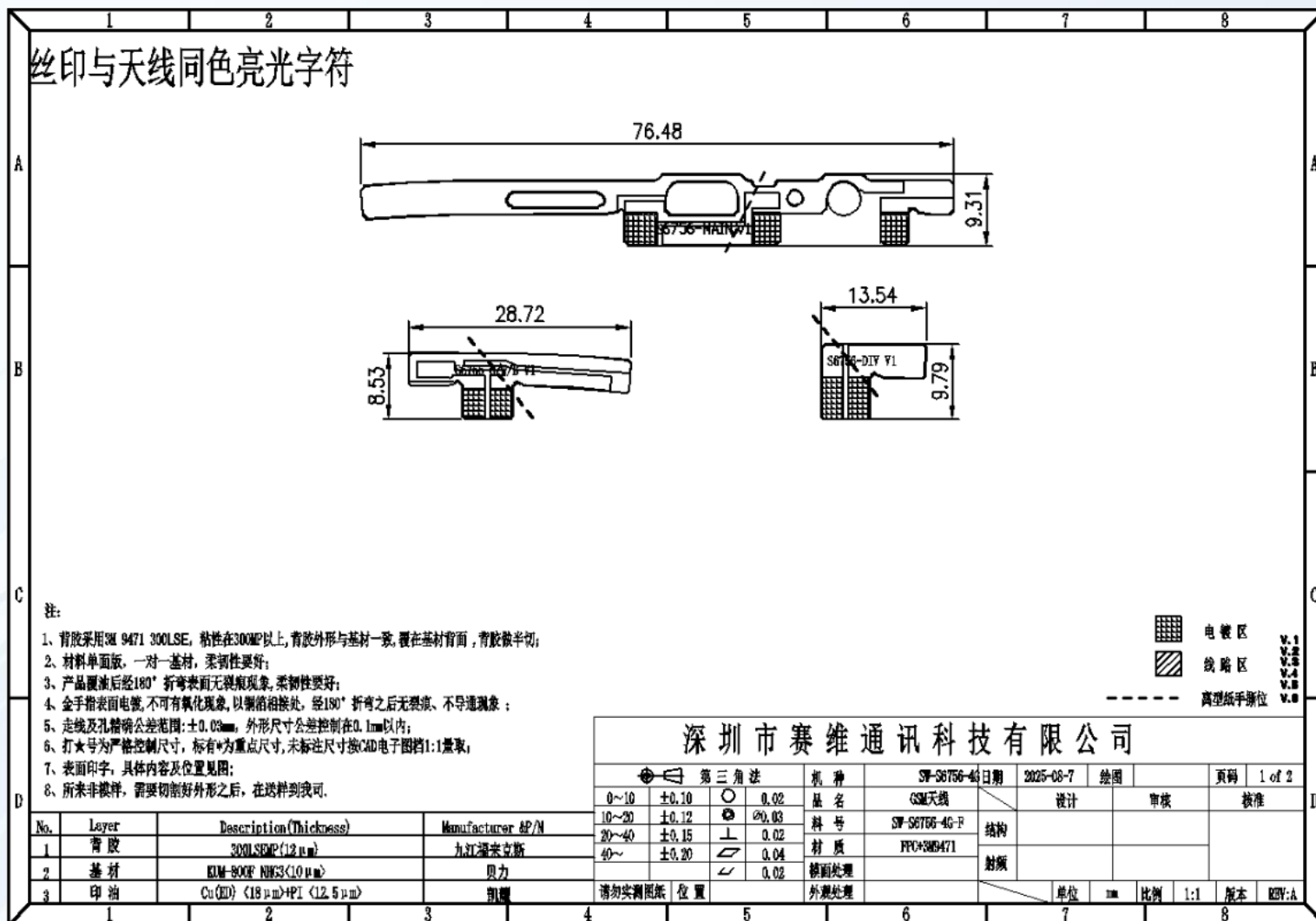
GPS antenna apple diagram



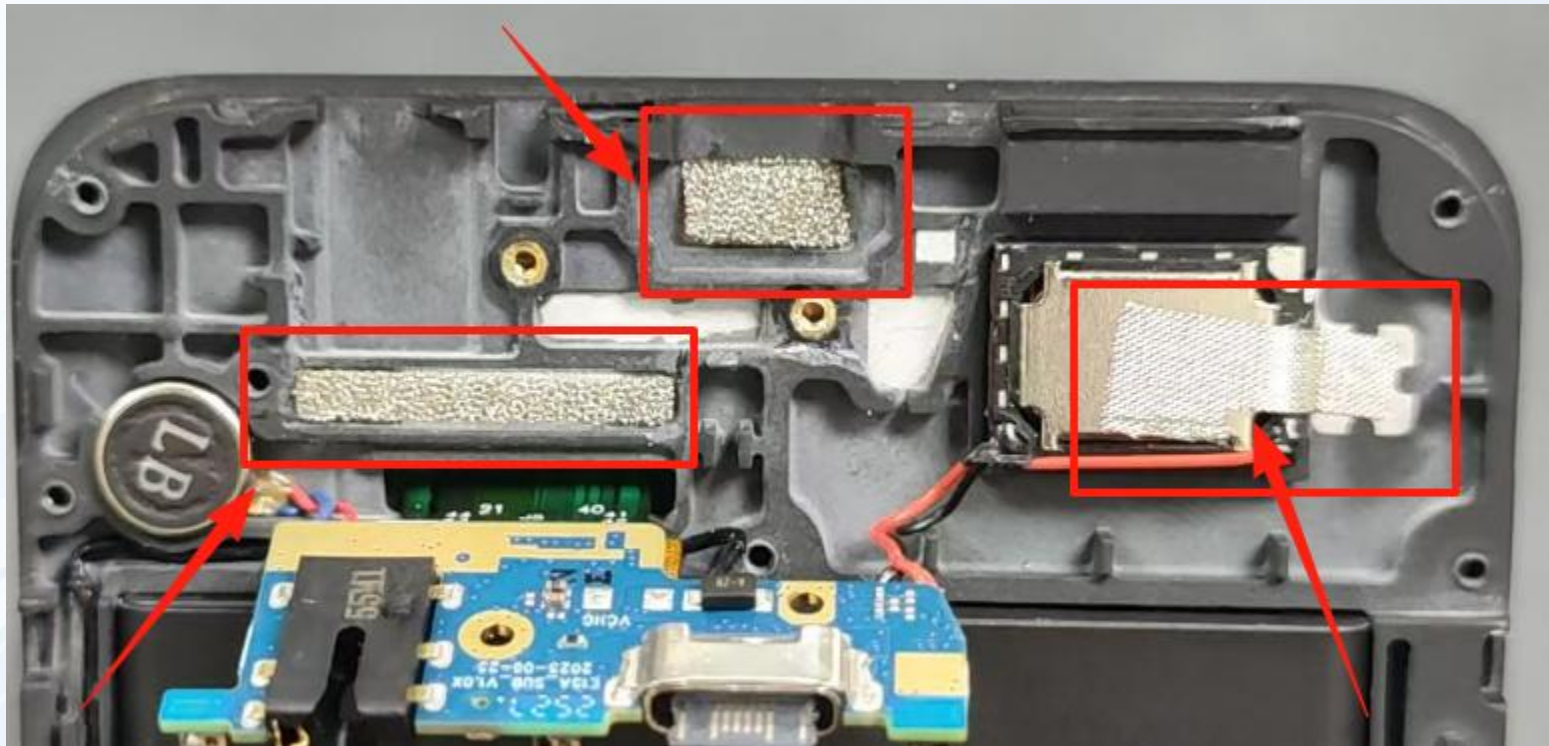
WIFI/BT antenna apple diagram



Main/GWB/DIV antenna

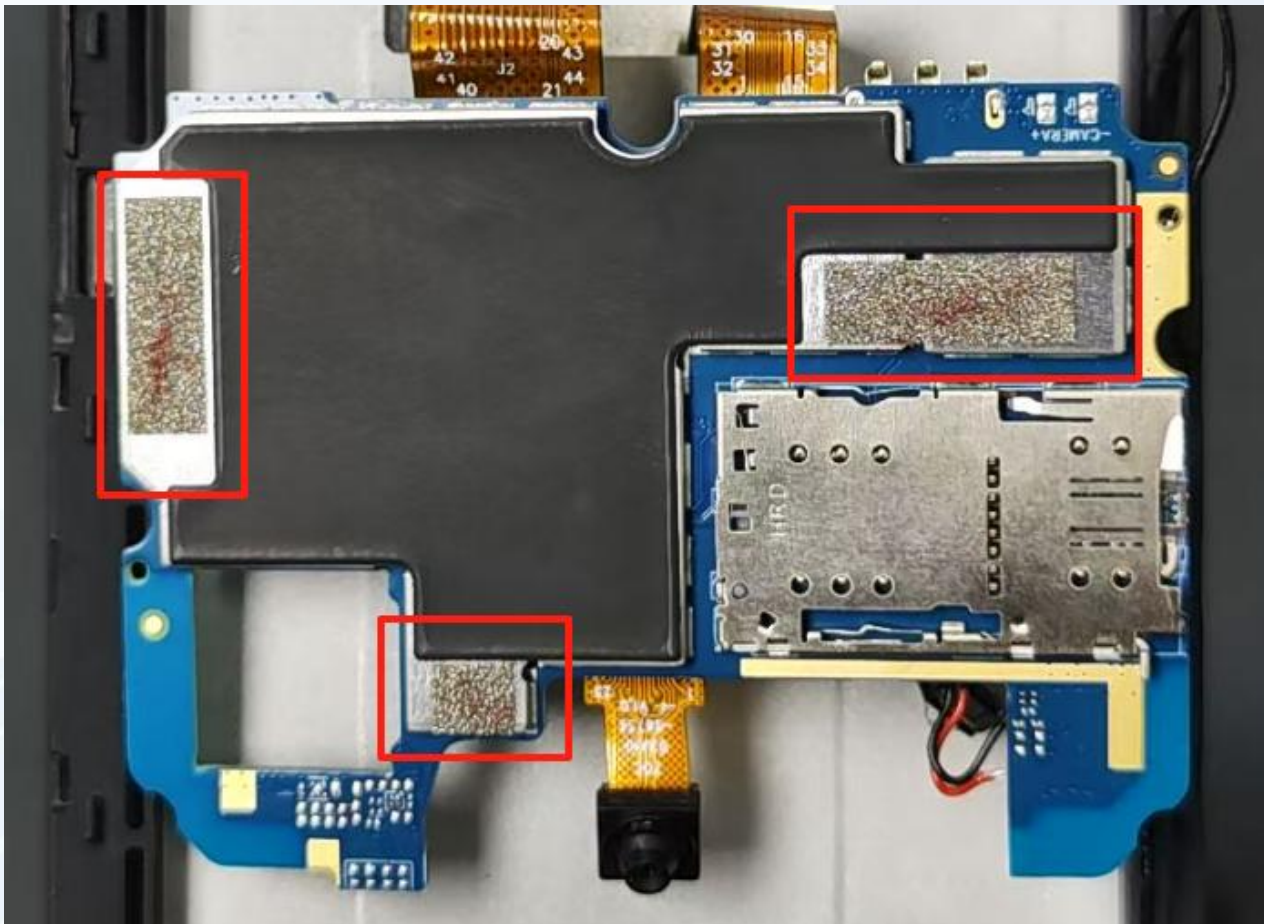


如图位置贴导电海绵与USB接地



锌合金贴导电海绵与小板接地

喇叭贴导电布与锌合金接地



主板如图位置贴导电海绵接地

additional remark

- △ Please carefully verify whether the matching circuits mentioned in the report have been modified and whether the environmental processing has been implemented. This will directly affect the performance of the antenna.
- △ The parameters provided in this report are only those given by the customer to our company for the prototype testing. They do not represent the final production status of your company's project.
- △ If your company has the latest prototype or updated version (such as material replacement, software update, environmental adjustment, etc.), please submit it to us for verification as soon as possible to confirm whether the antenna performance has been affected.
- △ If your company needs to send it to a third party for re-testing or to the customer for testing, please make sure to submit the machines that need to be tested to us for testing confirmation. Because factors such as the consistency of the motherboard, the consistency of assembly, and the differences in antenna assembly may all lead to deviations in antenna parameters.

THANKS !

