

深圳赛维通讯科技有限公司

Shenzhen Sunwin Telecommunication Technology Co., LTD.

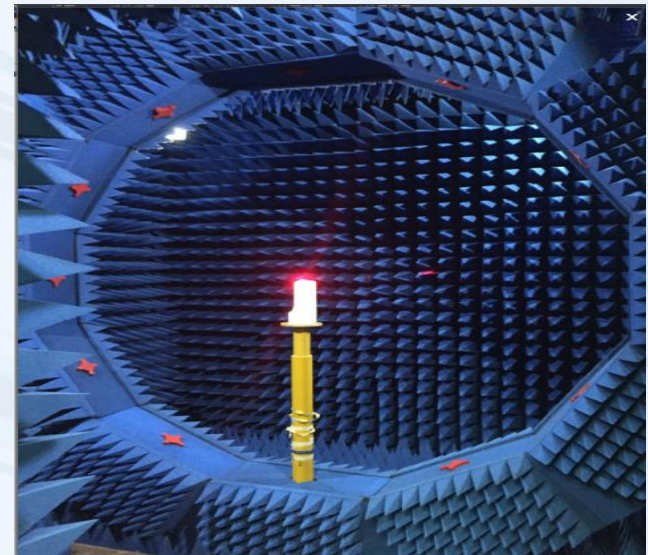
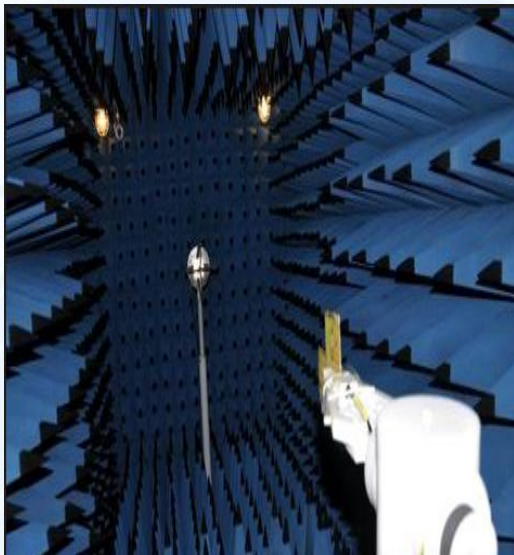
天线测试报告

Antenna Test Report

项目调试简介

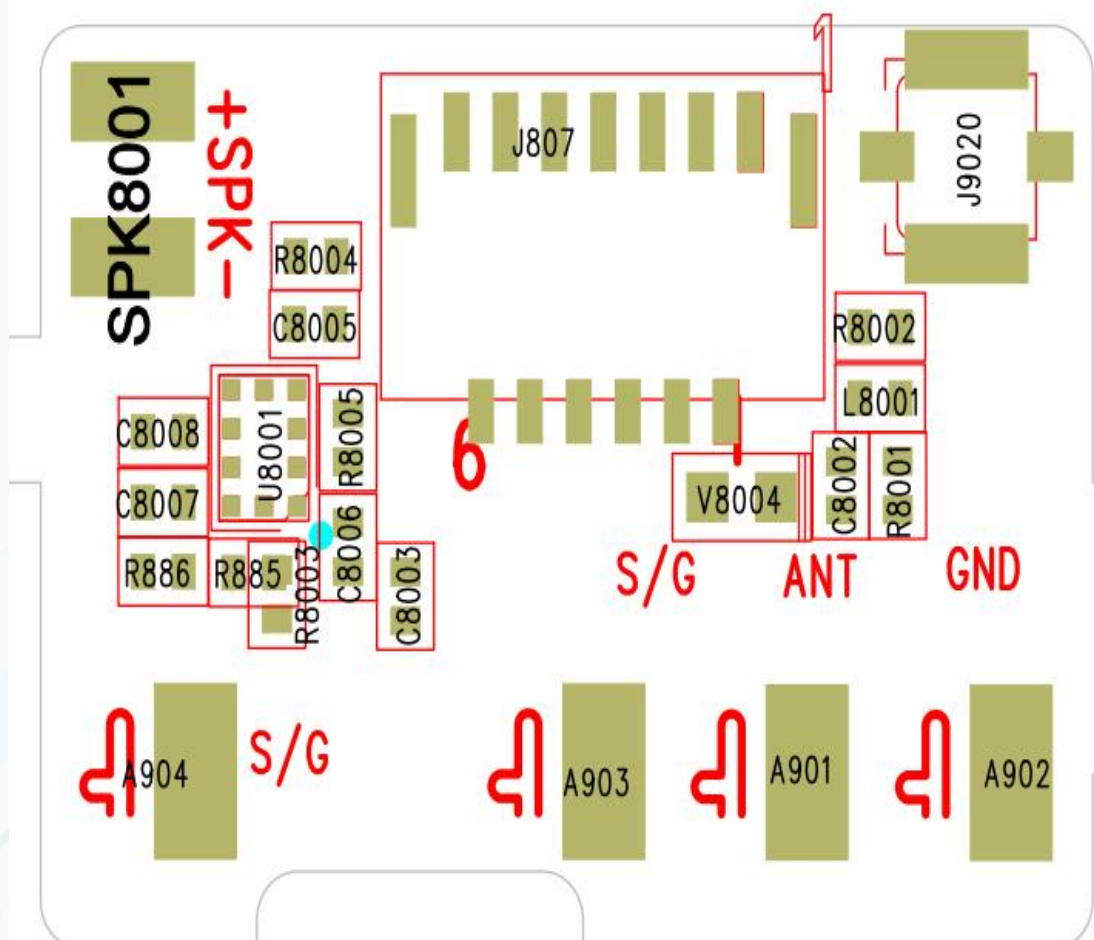
Introduction to Project Debugging

model	smartphone						
plate type	motherboard						
Antenna Overview	main antenna	frequency band		Antenna status	antenna form	design area	Match changes
		2G	850, 900, 1800, 1900	FPC	PIFA	support	
		3G	W2/W4/W5				
		4G	2/4/5/7/12/17/66/71				
	Other antennas	BT/WIFI	2. 4G		PIFA	support	
		GPS	1. 575G				
		episode			PIFA	support	



主天线开关匹配逻辑

Main antenna switch matching logic



frequency band:

GSM850/900/1800/1900

WCDMA:2/4/5, FDD:2/4/5/7/12/17/
66/71

Antenna switch logic

RF1: 2G:900/1800/1900

3G:W1700/1900

4G; 2/4/7/66

RF2: 2/3/4G B5

RF3: 4G B12/17

RF4: 4G B71

antenna matching:

RF1(C8006 use 0Ω)

RF2(R8005 use 9.1NH)

RF3 (C8007 use 39NH)

RF4(C8008 use 39NH)

Others remain

unchanged

2G	Channel	TRP (dBm)	TIS (dBm)
850	L	25.2	
	H	25.3	
	W	25.5	-101.6
900	L	25.4	
	H	26.0	
	W	25.5	-102.1
1800	L	24.3	
	H	24.7	
	W	24.2	-103.7
1900	L	24.7	
	H	24.4	
	W	24.3	-102.4

3G	Channel	TRP (dBm)	TIS (dBm)
W2	L	17.9	
	H	18.2	
	W	18.6	-103.4
W4	L	16.4	
	H	16.3	
	W	16.7	-102.3
W5	L	17.0	
	H	17.3	
	W	17.8	-104.4

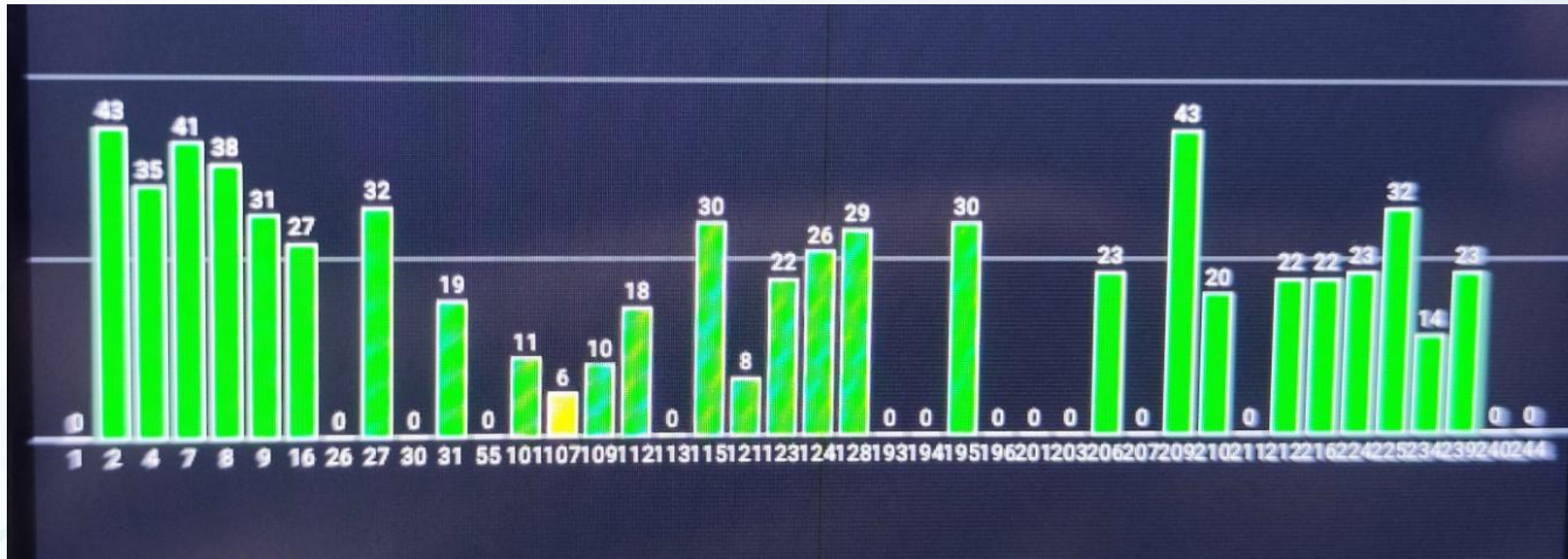
4G	Channel	TRP (dBm)	TIS (dBm)
B2	L	17.1	
	H	17.2	
	W	17.4	-91.5
B4	L	16.3	
	H	16.1	
	W	16.2	-90.6
B5	L	17.1	
	H	17.2	
	W	17.7	-89.7
B7	L	16.5	
	H	17.4	
	W	18.0	-90.2

4G	Channel	TRP (dBm)	TIS (dBm)
B12	L	16.2	
	H	16.1	
	W	16.4	-89.1
B17	L	16	
	H	15.9	
	W	16.2	-90.3
B66	L	16.1	
	H	16.3	
	W	16.5	-89.7
B71	L	16.7	
	H	16.8	
	W	16.9	-90.3

Ten meter connection
full grid



test project:GPS



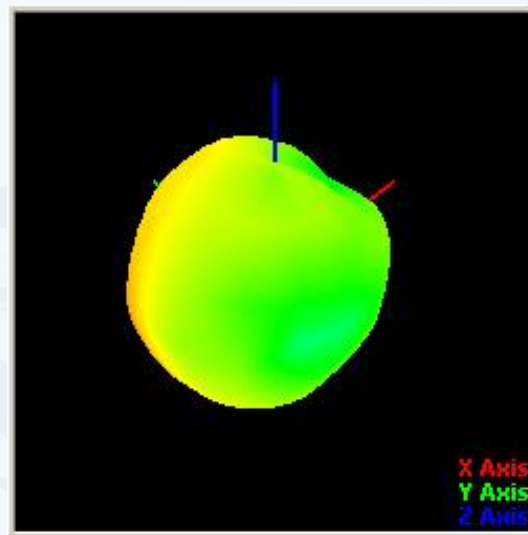
Antenna gain

Standard	Band	Gain(dbi)
FDD_LTE	FDD_B2	0.21
FDD_LTE	FDD_B4	0.23
FDD_LTE	FDD_B5	-1.55
FDD_LTE	FDD_B7	0.81
FDD_LTE	FDD_12	-2.45
FDD_LTE	FDD_17	-2.45
FDD_LTE	FDD_66	0.23
FDD_LTE	FDD_71	-2.51
WCDMA	WCDMA_B2	0.21
WCDMA	WCDMA_B4	0.23
WCDMA	WCDMA_B5	-1.55

Standard	Band	Gain(dbi)
GSM	GSM850	-1.55
GSM	GSM900	-1.21
GSM	DCS1800	-0.53
GSM	PCS1900	0.21
WIFI	2.4G	0.78
BT	2.4G	0.78
GPS	1.575G	0.11

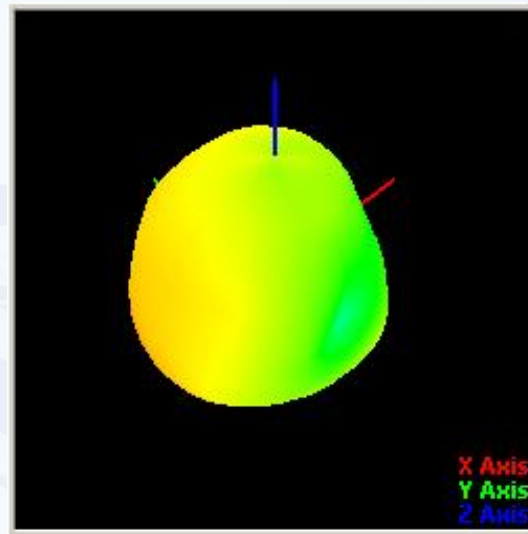
Main antenna apple diagramApple chart

600M



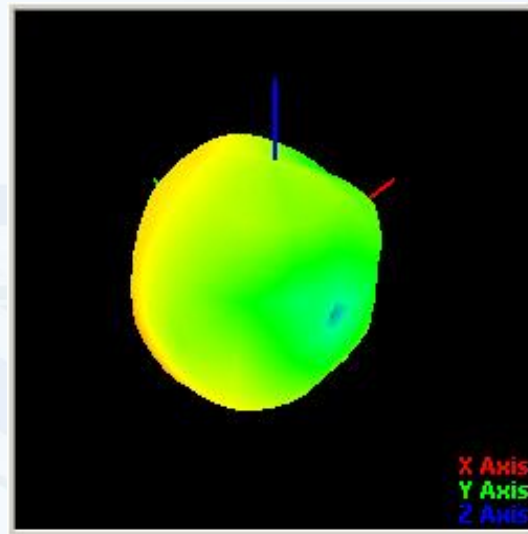
Main antenna apple diagramApple chart

700M



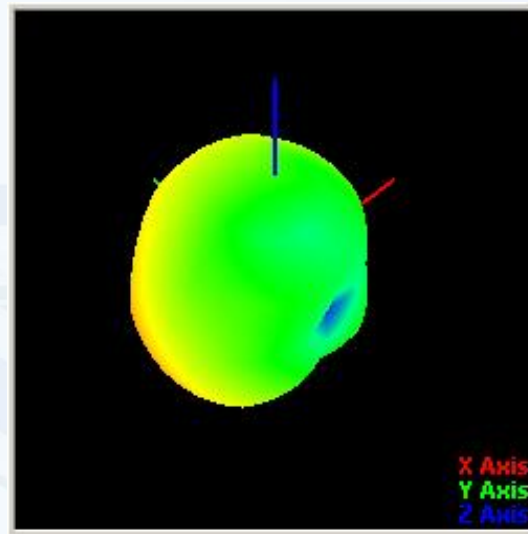
Main antenna apple diagramApple chart

800M



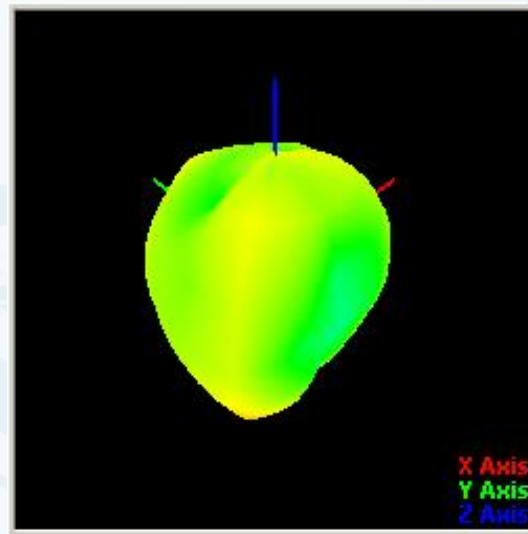
Main antenna apple diagramApple chart

900M



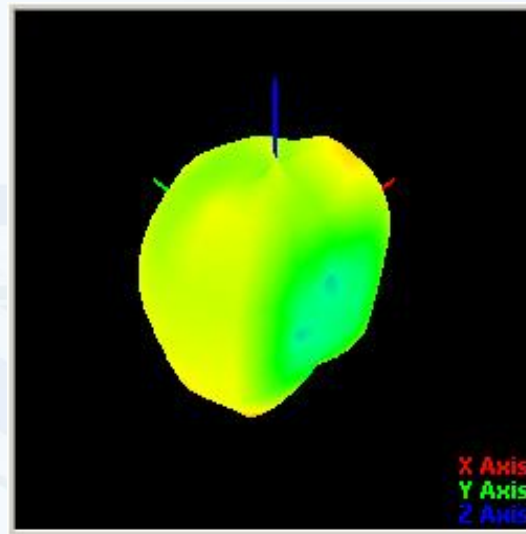
Main antenna apple diagramApple chart

1700M



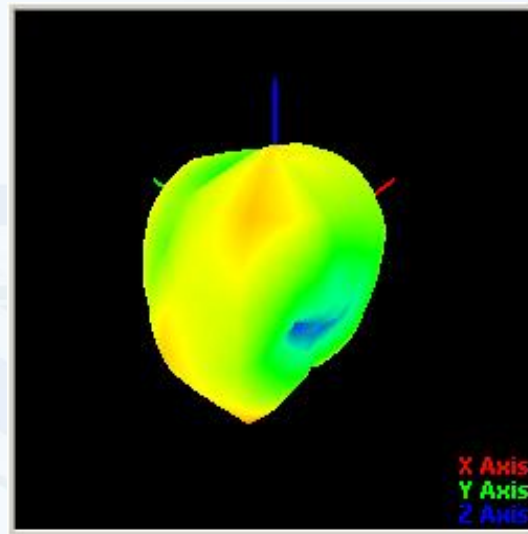
Main antenna apple diagramApple chart

1800M



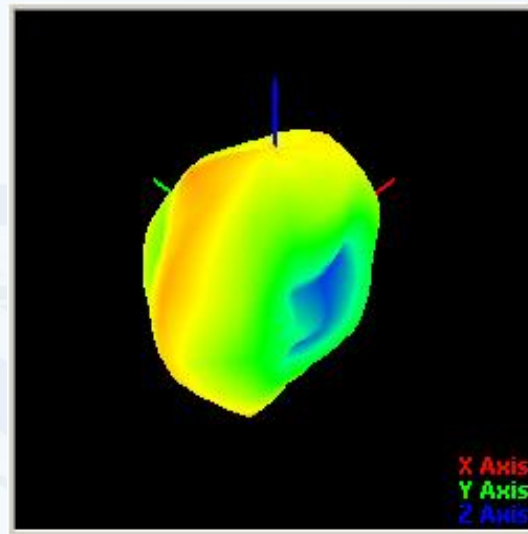
Main antenna apple diagramApple chart

1900M



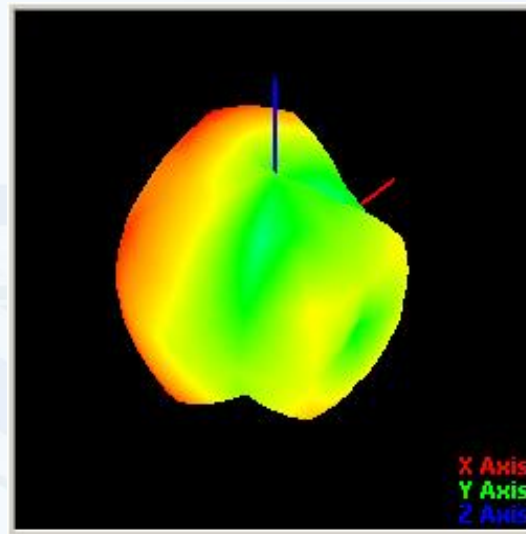
Main antenna apple diagramApple chart

2100M



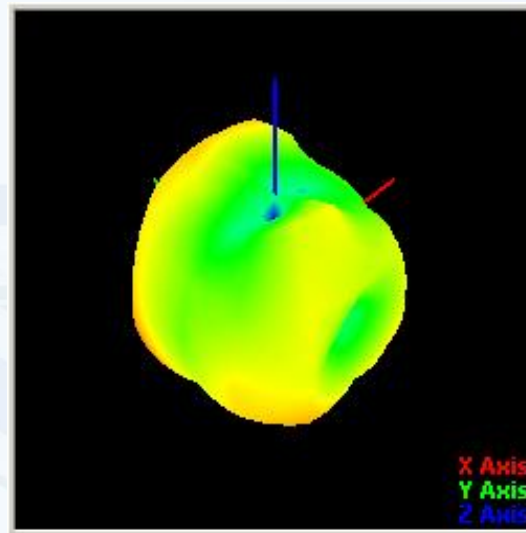
Main antenna apple diagramApple chart

2500M

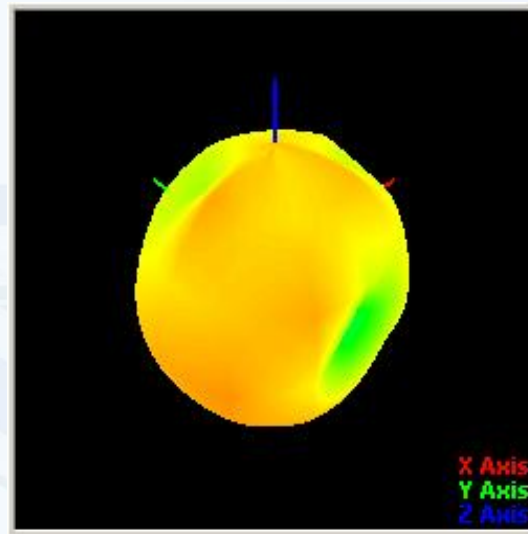


Main antenna apple diagramApple chart

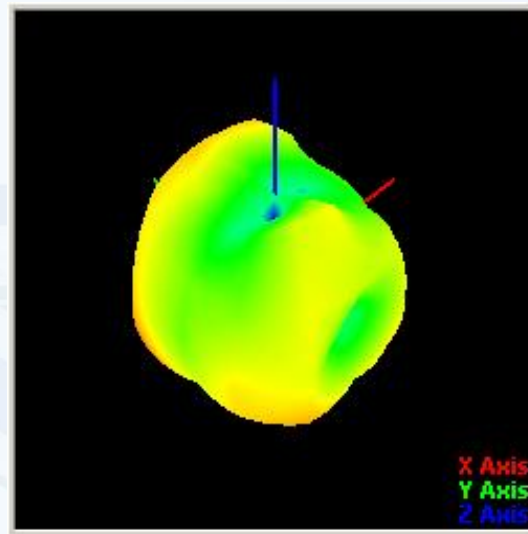
2600M



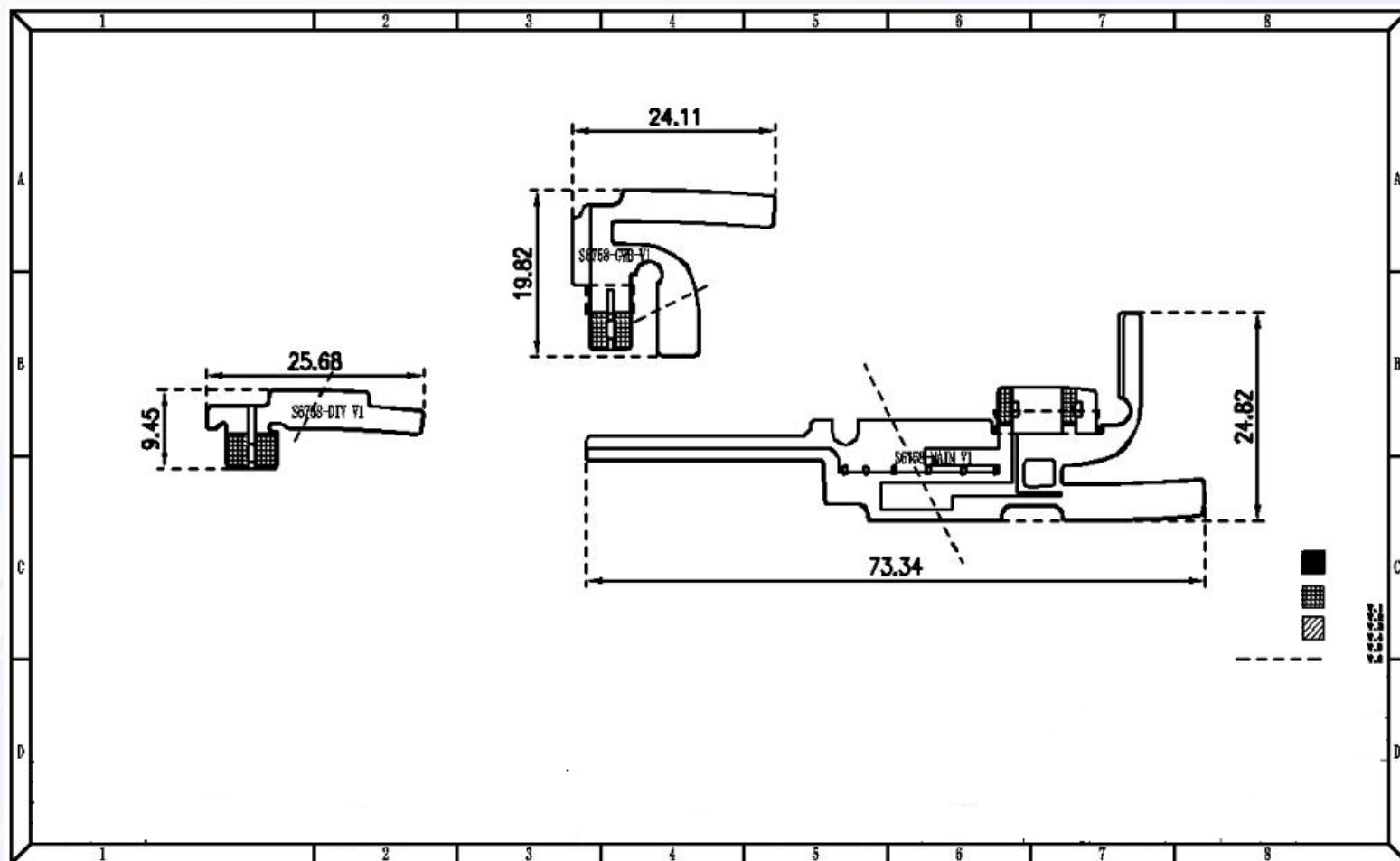
GPS antenna apple diagram



WIFI/BT antenna apple diagram



Main/GWB/DIV antenna



THANKS !



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