

Shenzhen Saiwei Communication Technology Co., LTD

Antenna Test Report

Customer name: Qin Zhou
Project name: PRO A
Report time: 20260331

Saiwei-Sai to far, Wei to eternity!

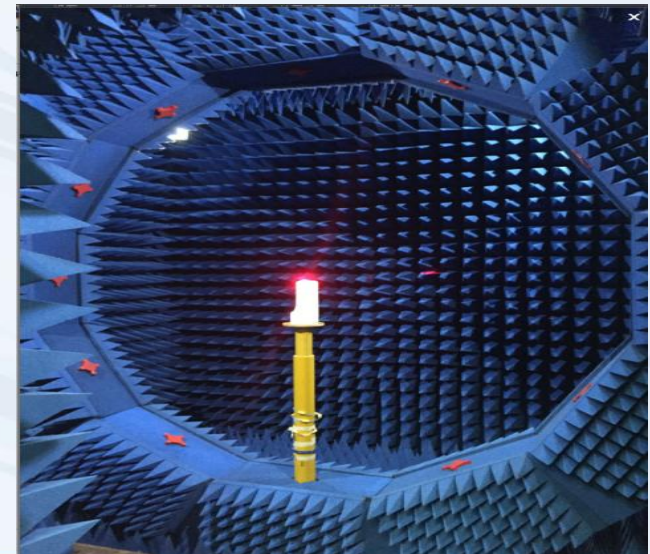
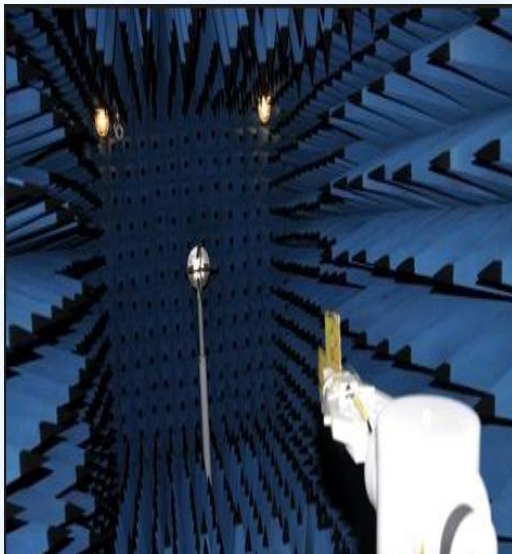
- △ Project Debugging Introduction
- △ Report Version Summary
- △ Test Environment
- △ Main Antenna Dark Chamber Data
- △ Additional Notes

Project Debugging Introduction

type							
template							
Antenna Overview	main antenna	frequency range		Antenn a status	Antenna type	Design area	Match changes
		2G		FPC	PIFA		
		3G					
		4G	1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/34/38/39/40/41/66				
	Other antennas	BT/WIFI	2. 4G		PIFA		
		GPS					
		diversi ty			PIFA		
Prototyp e status				Environmental Treatment			

Report Version Summary

edition	date	Content Overview
V1	20260331	data report



4G main antenna passive efficiency data

Frequency (MHz)	Gain (dBi)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (%)
700.0	-12.15	1.60	1700.0	-3.73	20.00	2300.0	0.48	35.20
720.0	-12.98	1.50	1740.0	-1.19	28.00	2340.0	0.60	34.20
740.0	-13.05	1.50	1780.0	-0.55	37.30	2380.0	0.86	35.30
760.0	-12.68	1.80	1820.0	1.04	45.50	2420.0	1.53	41.60
780.0	-11.41	2.60	1860.0	-2.44	49.60	2460.0	1.39	40.40
800.0	-8.35	4.20	1900.0	-1.61	46.20	2500.0	1.94	44.30
820.0	-6.77	7.20	1940.0	-1.04	51.10	2540.0	1.47	43.30
840.0	-2.65	16.70	1980.0	-0.34	57.00	2580.0	0.94	45.40
860.0	0.42	29.90	2020.0	-0.38	57.10	2620.0	2.05	46.30
880.0	-0.33	23.20	2060.0	-0.33	47.40	2660.0	1.88	44.10
900.0	-2.72	14.50	2100.0	0.72	43.30	2700.0	1.56	45.60
920.0	-4.68	11.00	2140.0	1.67	47.80			
940.0	-5.18	8.50	2180.0	1.40	42.40			
960.0	-6.03	6.70	2220.0	0.12	34.30			
980.0	-5.60	6.20	2260.0	0.68	32.20			

4G secondary antenna passive efficiency data

Frequency (MHz)	Gain (dBi)	Efficiency (%)
700.0	-19.55	0.30
720.0	-21.29	0.20
740.0	-23.23	0.20
760.0	-22.40	0.20
780.0	-3.67	12.10
800.0	-3.24	12.70
820.0	-3.41	12.30
840.0	-3.34	12.90
860.0	-4.06	11.40
880.0	-3.44	13.50
900.0	-8.43	3.90
920.0	-4.15	10.30
940.0	-3.13	12.80
960.0	-3.72	12.10
980.0	-3.27	12.10

Frequency (MHz)	Gain (dBi)	Efficiency (%)
1700.0	0.78	28.40
1740.0	0.46	28.10
1780.0	-1.12	25.40
1820.0	-0.63	21.70
1860.0	-1.46	17.50
1900.0	-0.22	20.50
1940.0	1.18	32.70
1980.0	-0.36	46.90
2020.0	-0.35	51.70
2060.0	-0.37	45.00
2100.0	1.97	41.40
2140.0	2.08	43.30
2180.0	1.98	40.60
2220.0	0.39	33.60
2260.0	-1.14	30.20

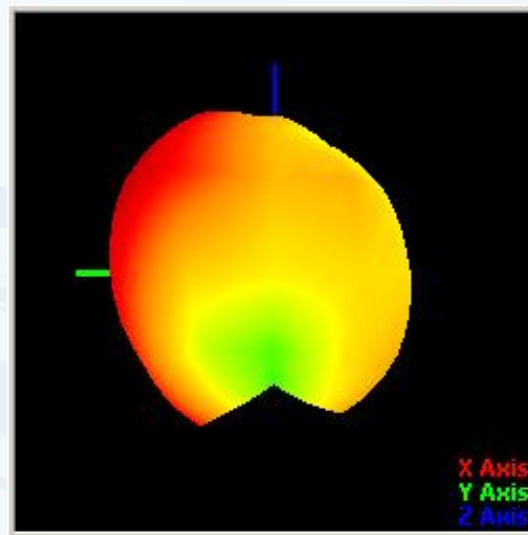
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2300.0	-0.71	29.00
2340.0	-0.58	27.80
2380.0	-1.19	24.60
2420.0	-0.78	23.20
2460.0	-1.35	21.20
2500.0	-2.69	18.50
2540.0	-3.19	14.60
2580.0	-1.79	20.50
2620.0	-0.99	22.10
2660.0	-1.83	17.40
2700.0	-2.76	15.40

WIFI

Freq. (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	0.39	0.28	0.81	0.67	1.17	0.93	0.59	0.52	0.07	-0.11	0.11
Effi (%)	45.8	45.7	47.9	45.2	49.8	49.9	47.7	49.4	47.2	46.4	49.4

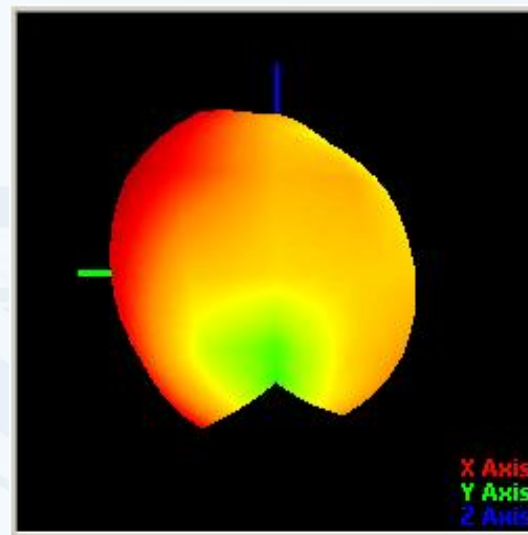
Main antenna apple diagramApple chart

700M



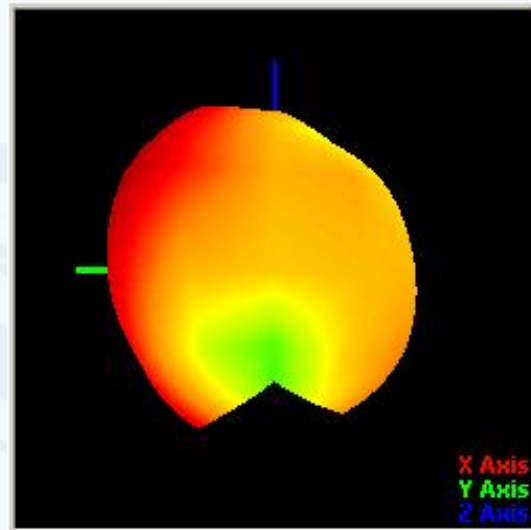
Main antenna apple diagramApple chart

800M



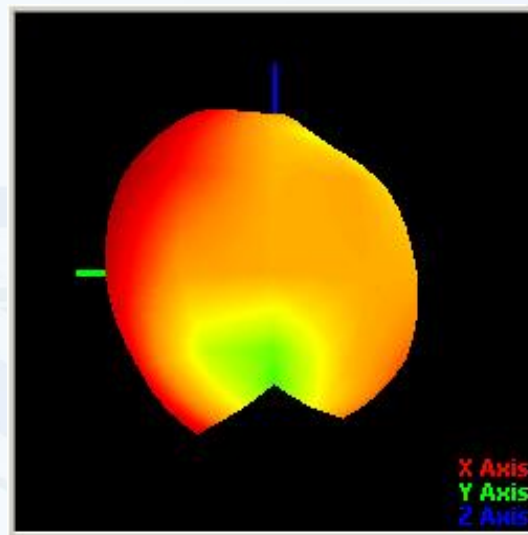
Main antenna apple diagramApple chart

900M



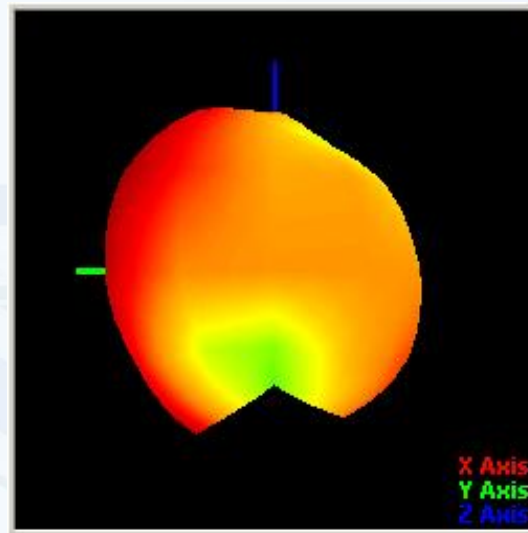
Main antenna apple diagramApple chart

1700M



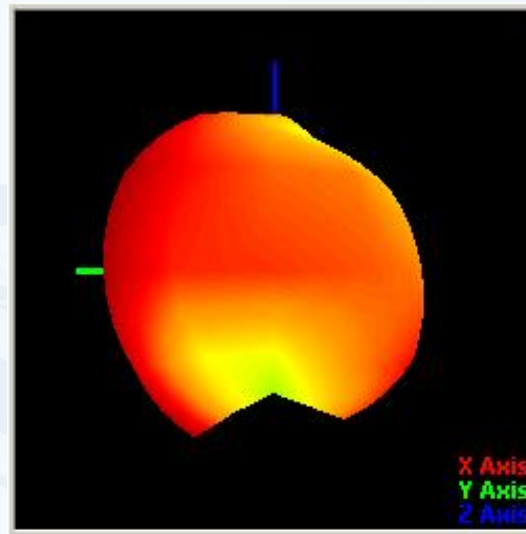
Main antenna apple diagramApple chart

1800M



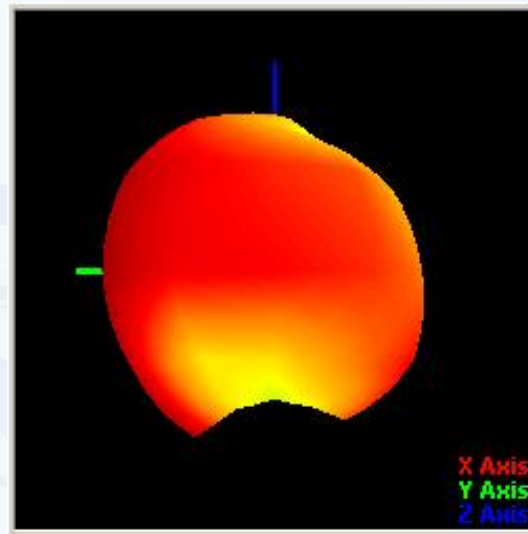
Main antenna apple diagramApple chart

1900M



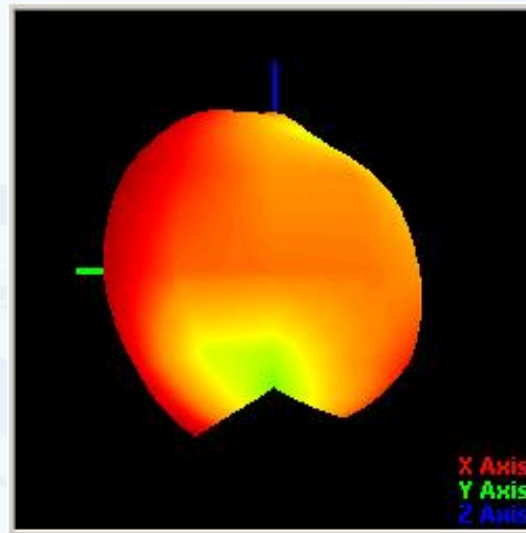
Main antenna apple diagramApple chart

2100M



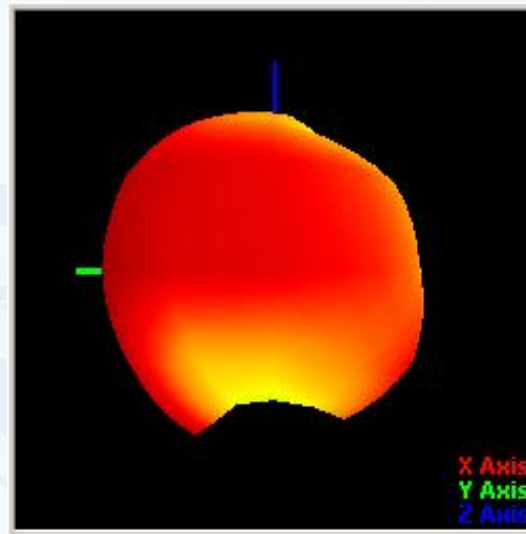
Main antenna apple diagramApple chart

2300M



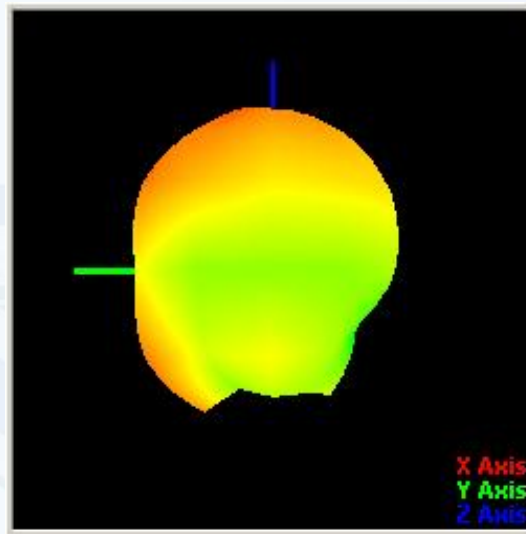
Main antenna apple diagramApple chart

2600M

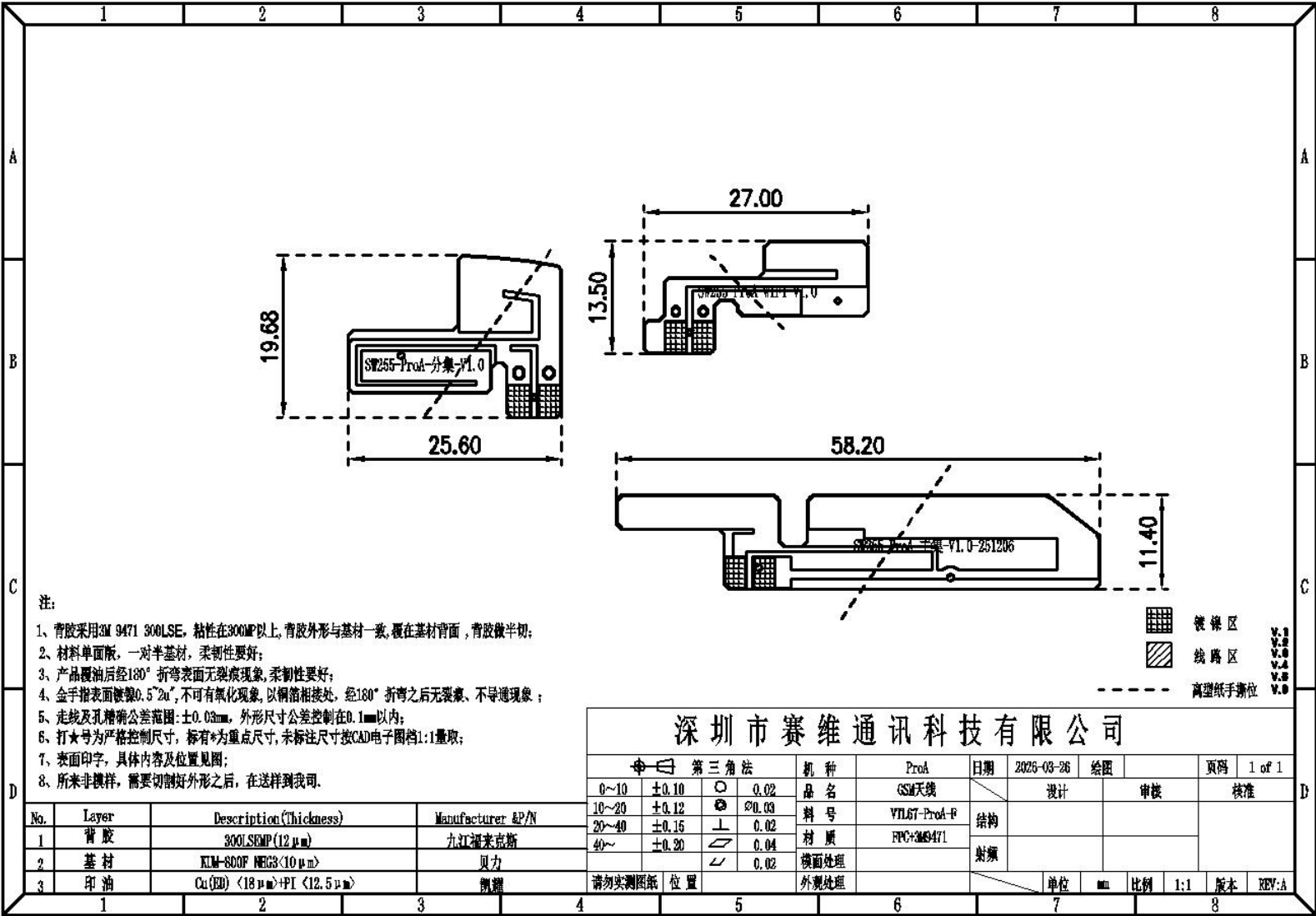


WIFI/BT antenna apple diagramApple chart

WIFI/BT



Main/DRX/WIFI antenna



Additional Notes

Please carefully verify whether the matching circuit mentioned in the report has been modified and whether the environmental processing has been imported, which will directly affect the antenna performance.

Note: The parameters in this report are solely for our companys prototype debugging and do not reflect the final production status of your companys project.

If your company has a prototype with the latest trial production or updated status (such as material replacement, software update, or environmental processing change), please submit it to us for verification as soon as possible to confirm whether the antenna performance is affected. If your company needs to send the antenna to a third party for retest or to the customer for test, please submit the machine to be tested to our company for test confirmation, because the consistency of the motherboard, the consistency of the assembly, and the difference in the antenna assembly may lead to the deviation of the antenna parameters.

THANKS!



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Saiwei-Sai to far, Wei to eternity!