



深圳市赛维通讯科技有限公司

Shenzhen Sunwin Telecommunication Technology Co., LTD.

Antenna Specifications

承 认 书

CUSTOMER 客户		金封	
CS P/N 项目名		耳机	
P/N 编号		VTL132-耳机-F	
Checked by(RF)	Checkedby(QA)	Approval led by	Date
何勤文		陈颖	<u>2024-03-16</u>
Customer Approval 客户确认			

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Add: Room 401, West Tower, Building No.211, Tairan Industry & Trade Park, Chegongmiao, Futian District, Shenzhen City, Guangdong Province, P.R. China

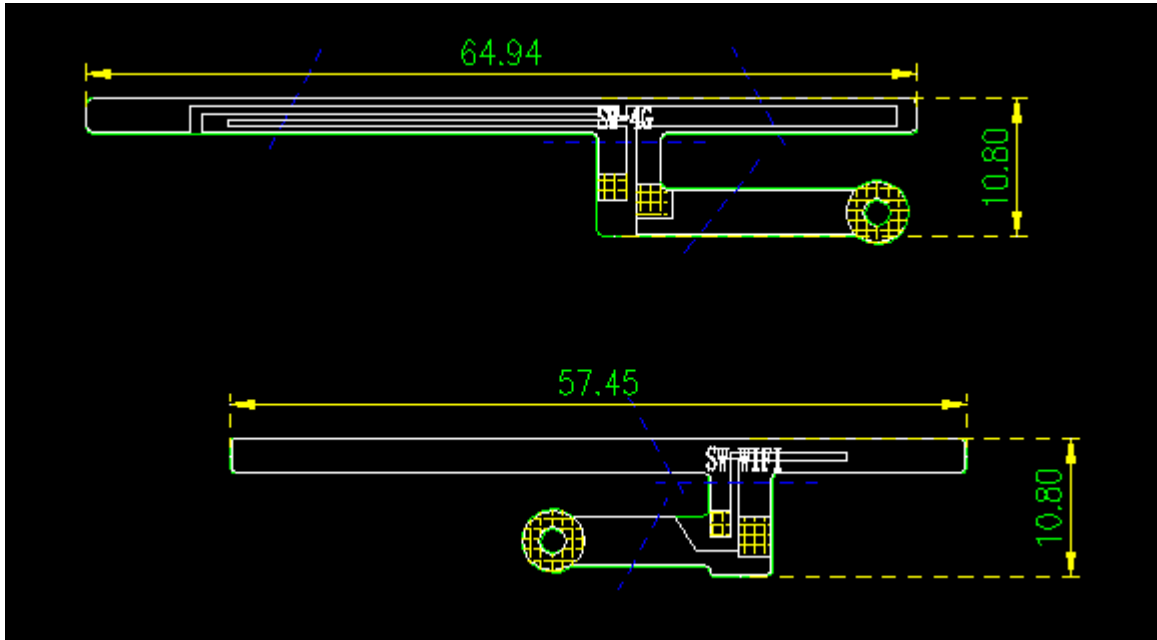
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1.Specifications

This report mainly provides the testing conditions of various electric and structural performance parameters for cell phone antenna - 耳机 Figure 2-1 shows the antenna designed by SW & The fixturing of 耳机



2.Impedance

2.1Nominal

Nominal Impedance(including matching circuit) : 50 ohms

2.2Matching Circuit

The matching circuit is as Figure 2-2.

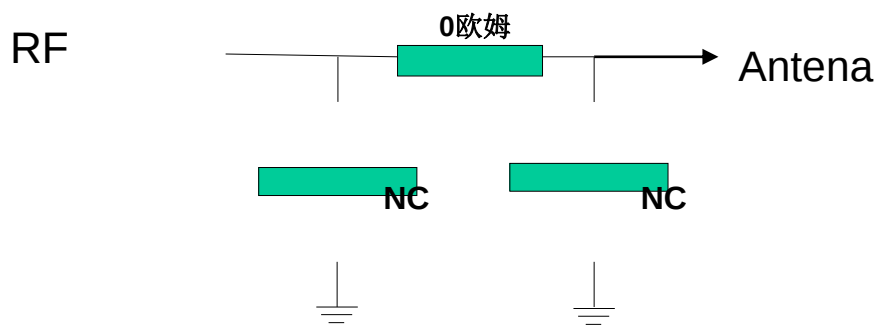


Figure 2-2: Matching circuit

3. Active Measurements

Active Measurements Data

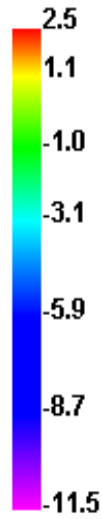
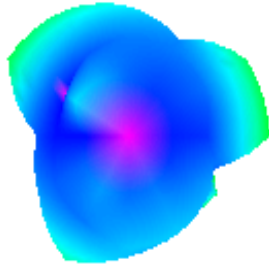
Total Radiated Power (TRP) and Total Isotropic Sensitivity (TIS) of the handsets with antenna are tested in the antenna chambers .

hamber Test Data

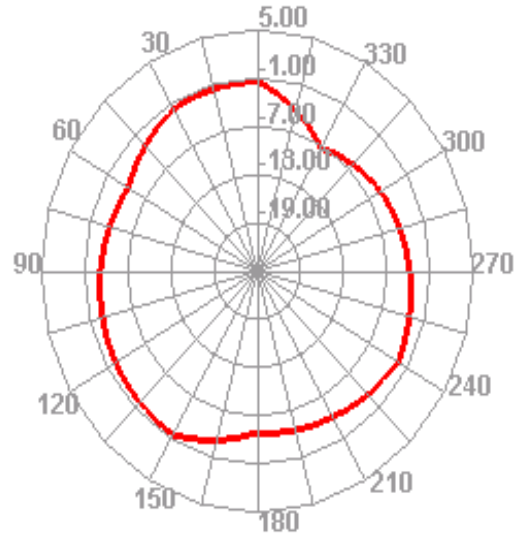


Freq. (MHz)	700	800	900	960	1710	1800	2000	2200	2400	2700
VSWR	3.17	2.4	1.9	3.86	2.81	1.98	1.78	2.03	2.12	1.31
Freq. (MHz)	700	800	900	960	1710	1800	2000	2200	2400	2700
Gain	0.60	0.7	0.7	0.6	1.2	1.2	1.2	1.2	1.6	1.2
Freq. (MHz)	700	800	900	960	1710	1800	2000	2200	2400	2700
Efficiency	35.4%	38.5%	37.2%	36.3%	40.1%	39.5%	38.3%	44.5%	41.2%	40.7%

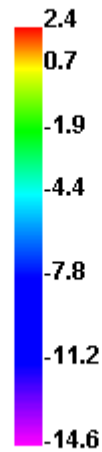
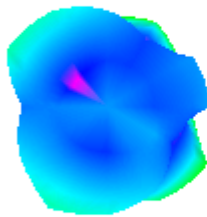
810.000MHz



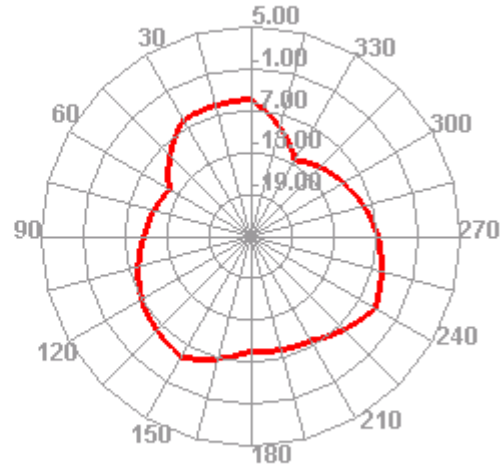
810.000MHz H



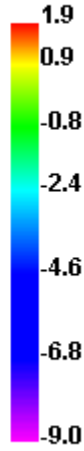
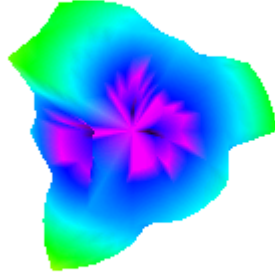
860.000MHz



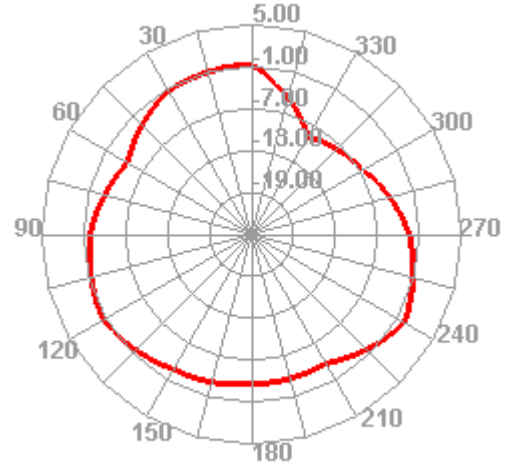
860.000MHz H



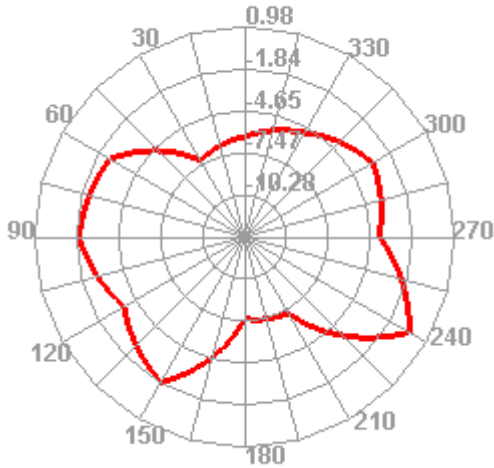
1700.000MHz



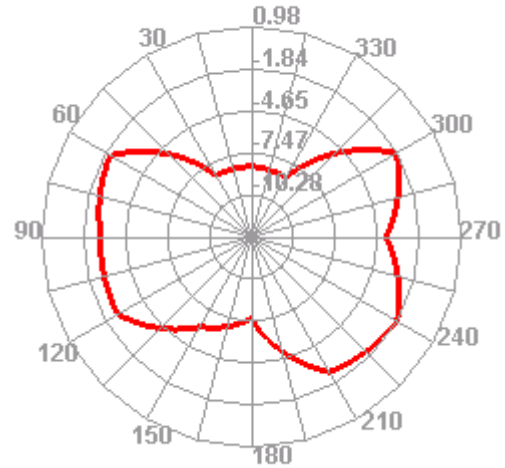
1700.000MHz H



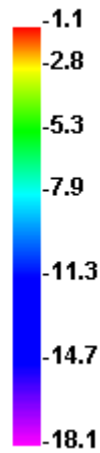
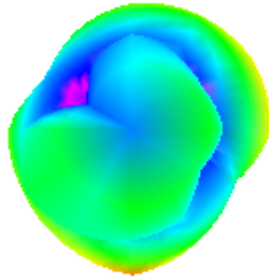
1750.000MHz E1



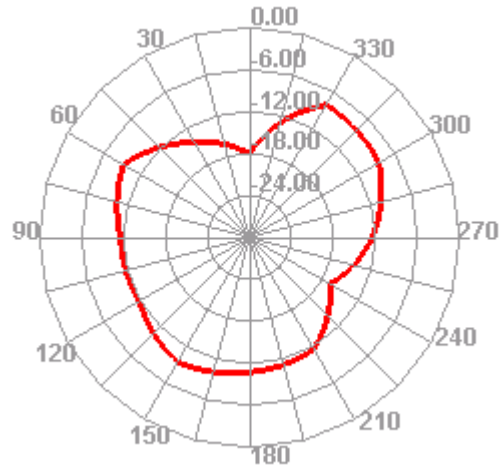
1750.000MHz E2



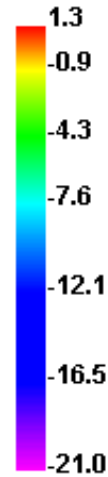
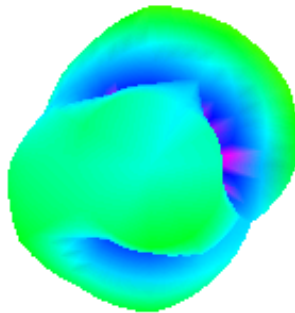
2000.000MHz



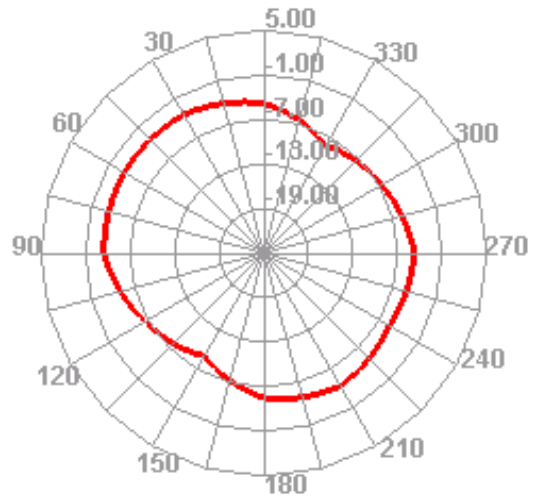
2000.000MHz H



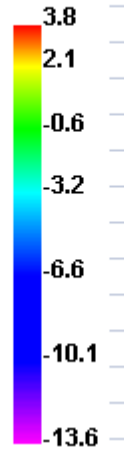
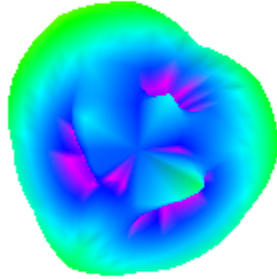
2050.000MHz



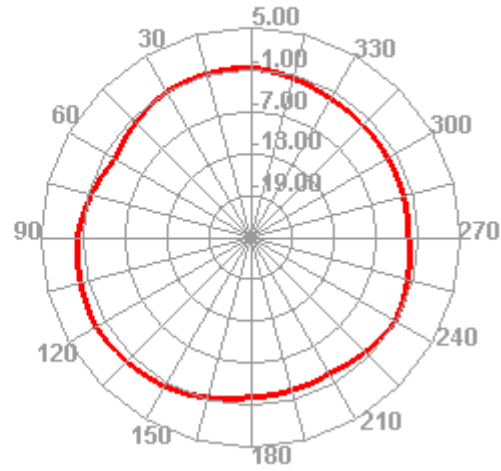
2050.000MHz H



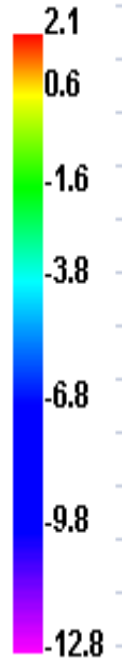
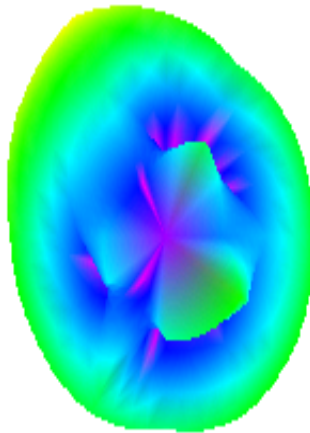
2210.000MHz



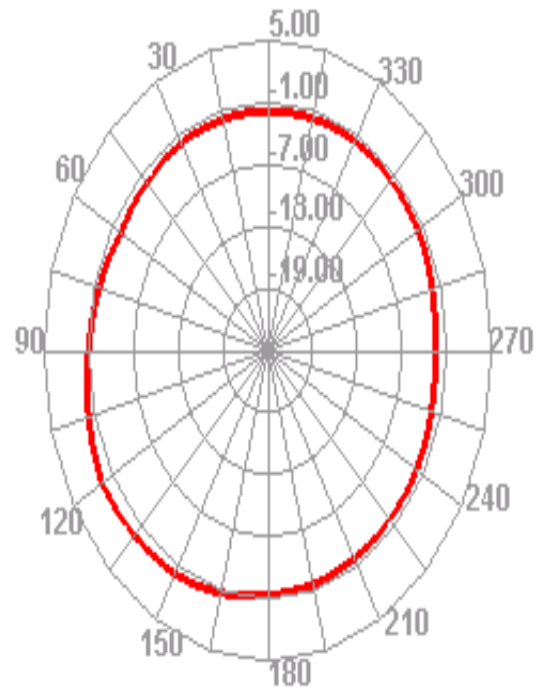
2210.000MHz H



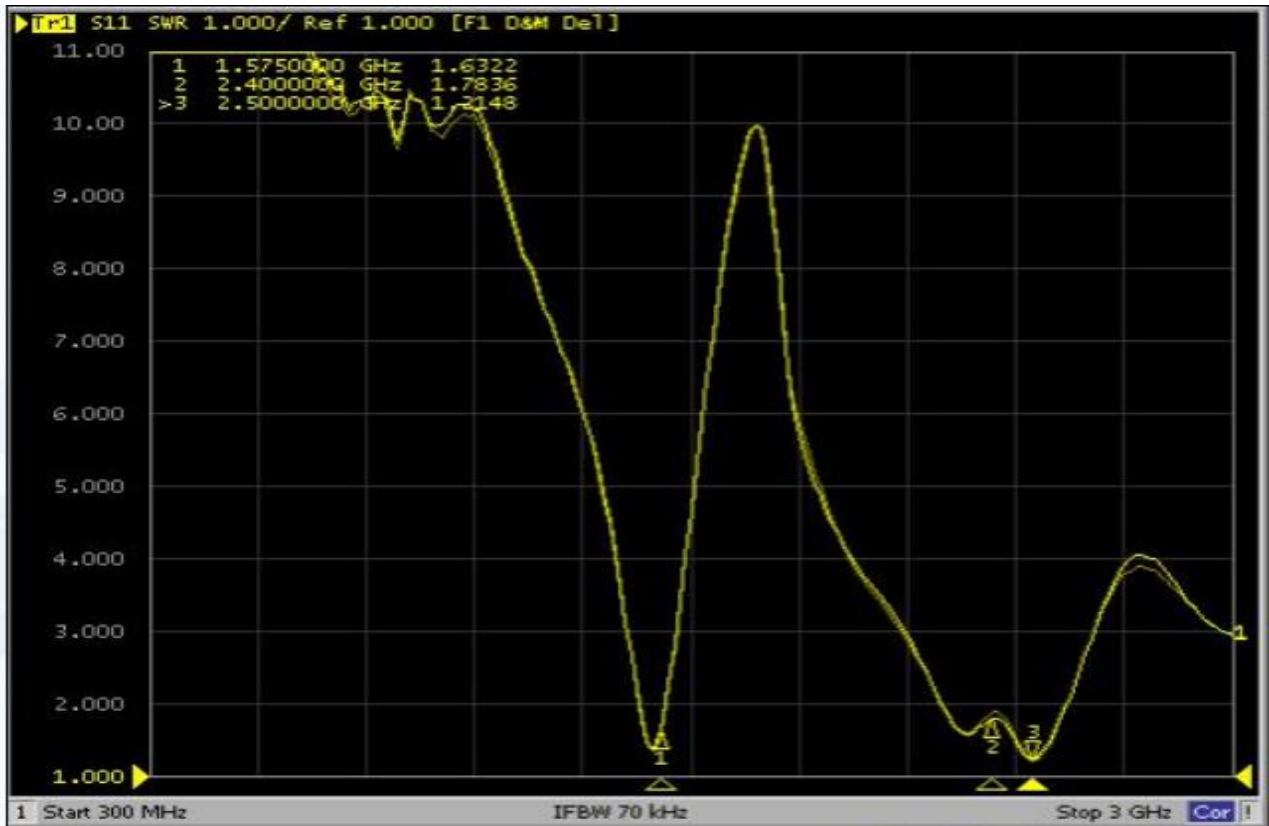
2260.000MHz



2260.000MHz H



GPS/WiFi/BT 驻波



Freq. (MHz)	1550	1575	1580	2410	2430	2450	2470	2480	2500
VSWR	1.78	1.63	1.82	1.18	1.27	1.19	1.21	1.26	1.24

Freq. (MHz)	1550	1575	1580	2410	2430	2450	2470	2480	2500
Gain	1.78	1.63	1.82	1.78	1.33	1.1	1.11	1.12	1.21

Freq. (MHz)	1550	1575	1580	2410	2430	2450	2470	2480	2500
Efficiency	35.5%	34.5%	36.8%	38.7%	38.5%	37.5%	36.8%	36.2%	36.6%



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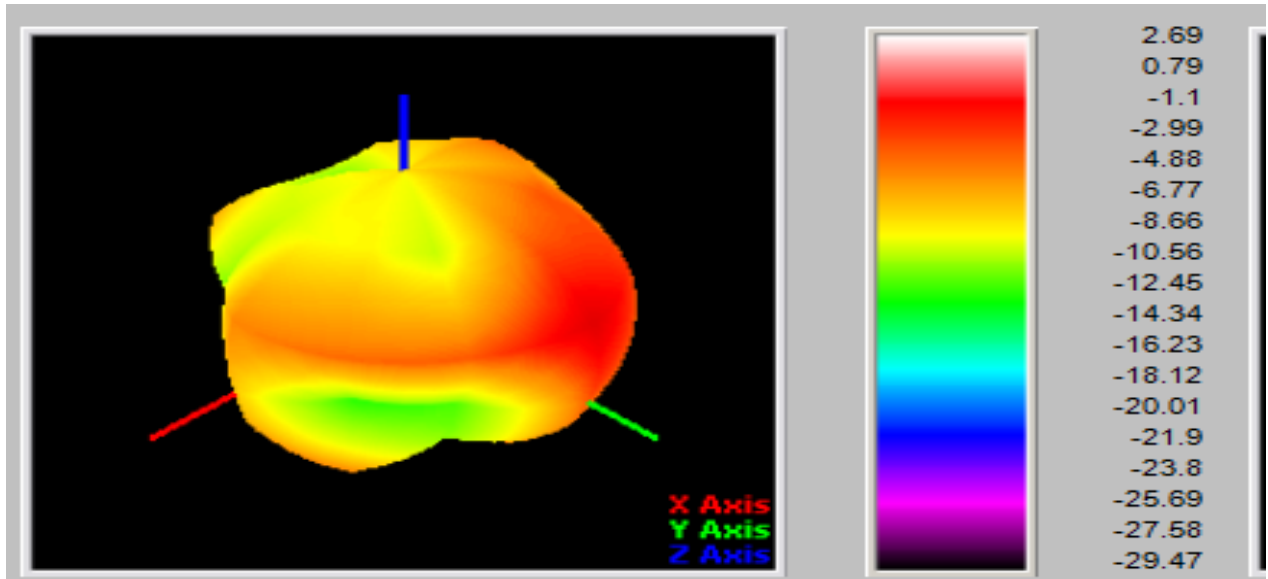
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Freq. (MHz)	5000	5150	5250	5350	5450	5550	5650	5750	5850
VSWR	1.67	1.69	1.85	1.89	2.34	2.12	2.67	2.44	2.38

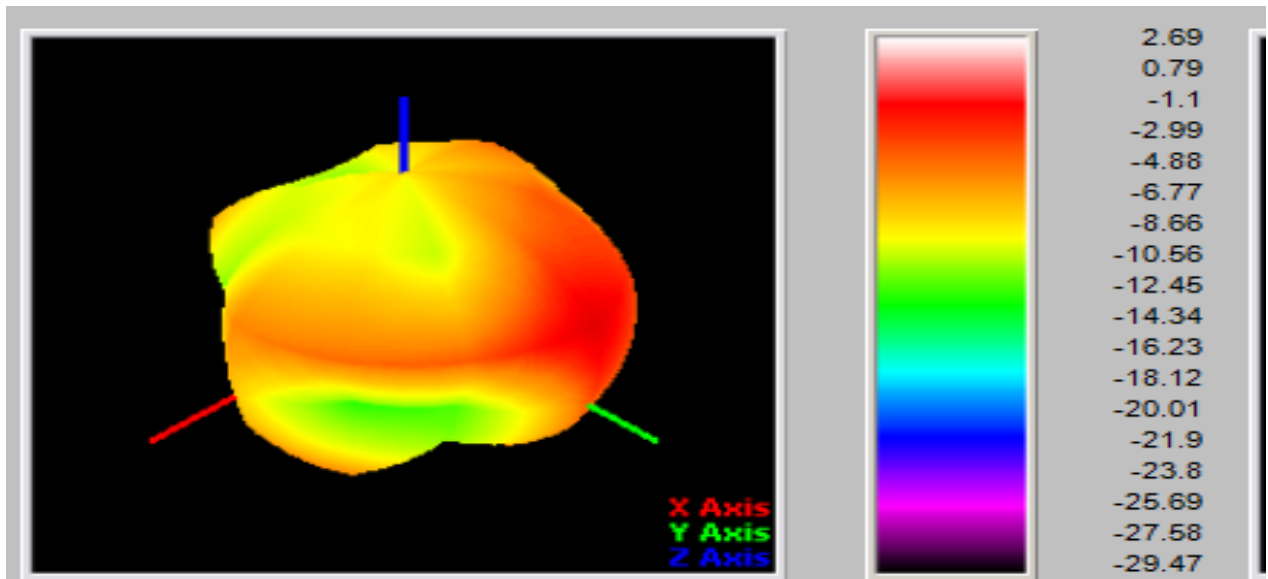
Freq. (MHz)	5000	5150	5250	5350	5450	5550	5650	5750	5850
Gain	1.78	1.63	1.82	1.78	2.72	2.54	2.71	2.75	2.75

Freq. (MHz)	5000	5150	5250	5350	5450	5550	5650	5750	5850
Efficiency	35.1%	34.6%	36.2%	38.3%	38.6%	37.8%	36.9%	36.6%	36.2%

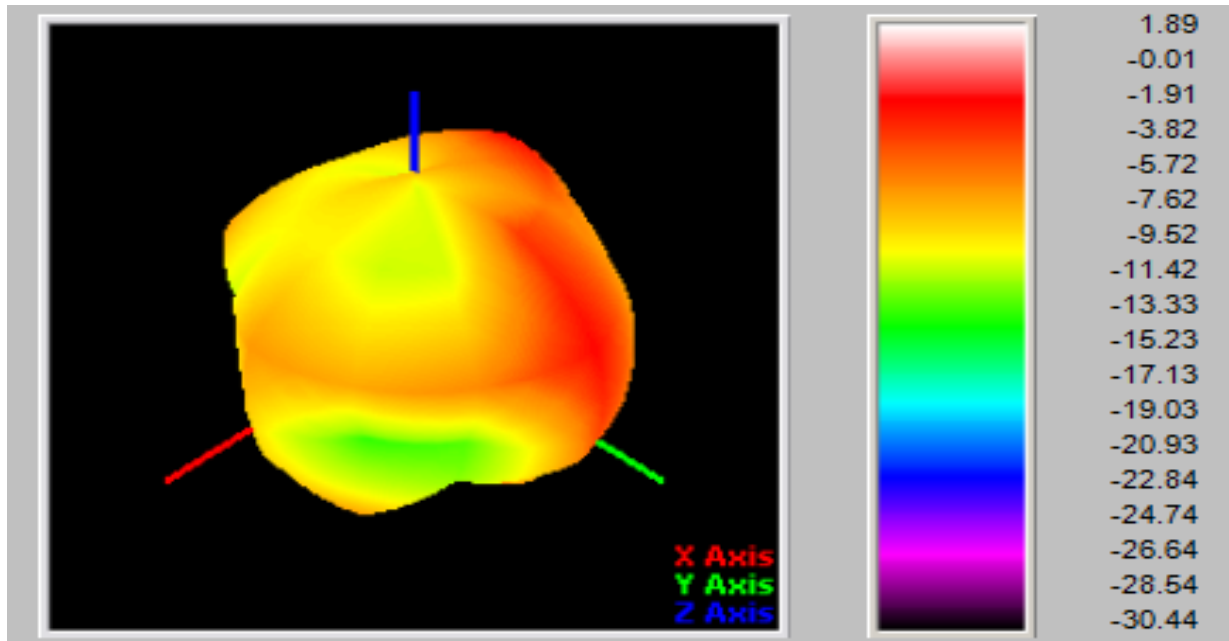
2.4G WIFI 苹果图



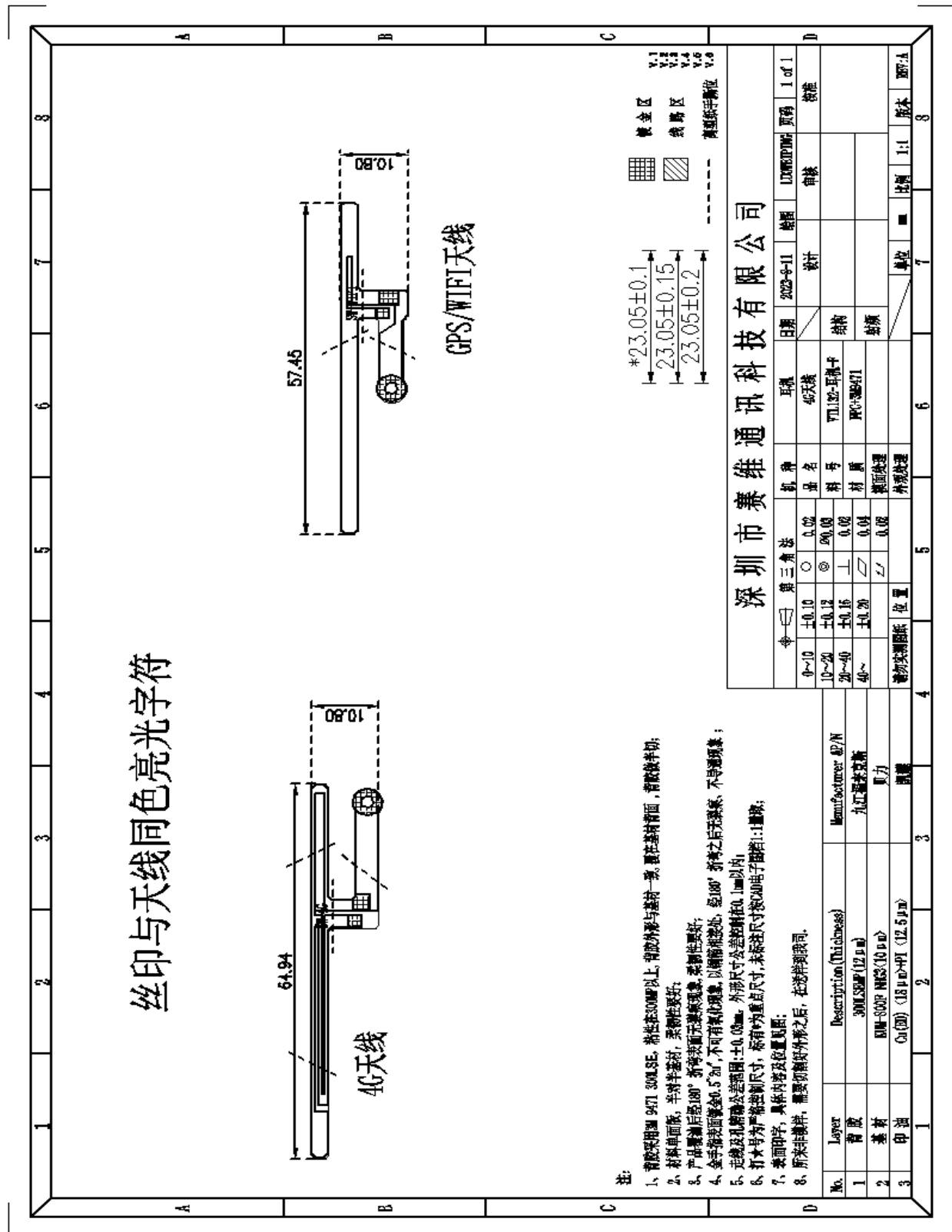
5G WIFI 苹果图



1.575G GPS 苹果图



4 Mechanical Properties





5. Environmental Characteristic

Test Item	Test description
1. Low Temperature	Temp.: -20 °C Time: 24 hours
2. High Temperature	Temp.: 80 °C Time: 24 hours
3. Salt Fog	5±0.1% Nad salt fog PH Value: 6.5-7.2 Temp: 35±1 °C Time: 24 hours