

Product specification acknowledgement

Dwima Antenna Laboratory Shenzhen R&D Center Mobile communication terminal antenna

Client Name: LE WEI

product name: D810-2001 5.8G antenna (Single copper pipe+1.13*270MM
Gray coaxial + one generation terminal + heat shrinkable tube)

material code: 1.ANT.ANT2704512002

Party of contract			Date: May 31, 2022
RF	structure	audit	quality

customer side		Date:
conclusion	Confirmor	auditor

Address: 3 / F, Friendship Building, 23 District, Chuangye 2nd Road,
Baoan, Shenzhen

(Behind Ping An Bank at Honglang North Exit B)

1. goal

The specifications and test methods of mobile communication terminal antenna products produced by Shenzhen Deweima Communication Equipment Co., Ltd. are standardized to avoid errors caused by different test conditions and methods.

2. Overview of product categories and product models

2.1 category

The antenna of this mobile communication terminal is **single antenna**

2.2 Product Model Overview

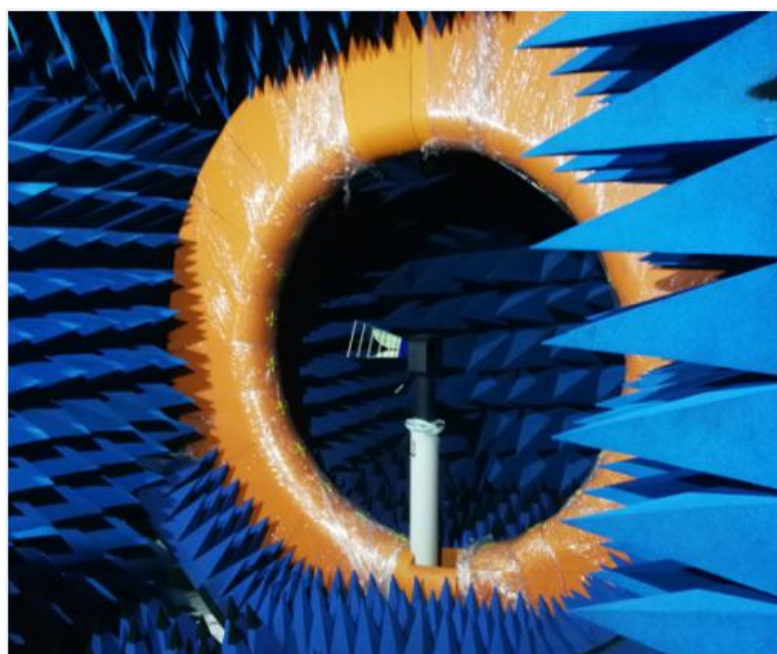
This report mainly Outlines the electrical results of the antenna designed by the 5.8G antenna project. The designed frequency band of this antenna is :5150~5850MHz band.

3. Technical indicators and equipment

3.1 technical index

Product electrical performance index	
Frequency Range	5150~5850MHz
VSWR	5150~5850MHz < 2.0
antenna gain	5150~5850MHz :3.78dBi
radiant efficiency	5150~5850MHz>50%
impedance	50 ohm
Product Material Description	
Copper pipe + coaxial line + one generation terminal	
Product Environment Description	
operating temperature	- 30℃ ~ + 85 ℃
storage temperature	- 30℃ ~ + 85 ℃

3.2 apparatus



24-probe microwave chamber



R&S CMW500



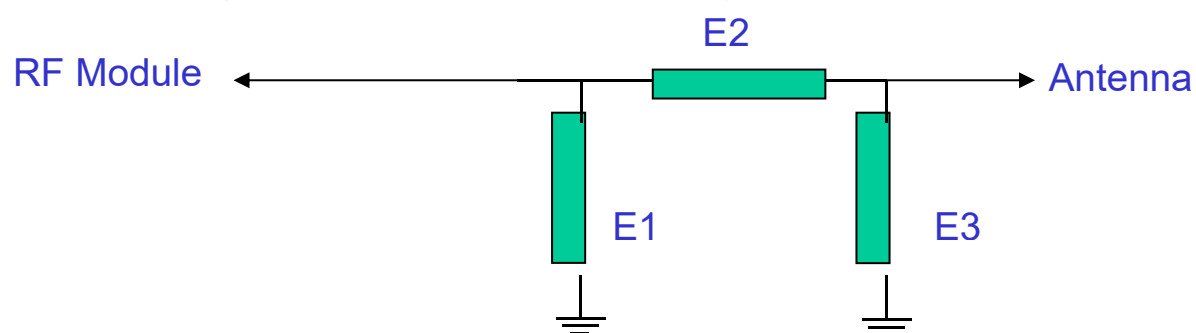
Agilent E4405B 频谱仪



Agilent Technologies E5071B

4. Description of matching circuit:

Our company did not modify the matching circuit of the antenna



Element	Value	Vender
E1(0402)		
E2(0402)		
E3(0402)		

5. Antenna electrical performance parameters (VSWR, gain, efficiency, pattern)

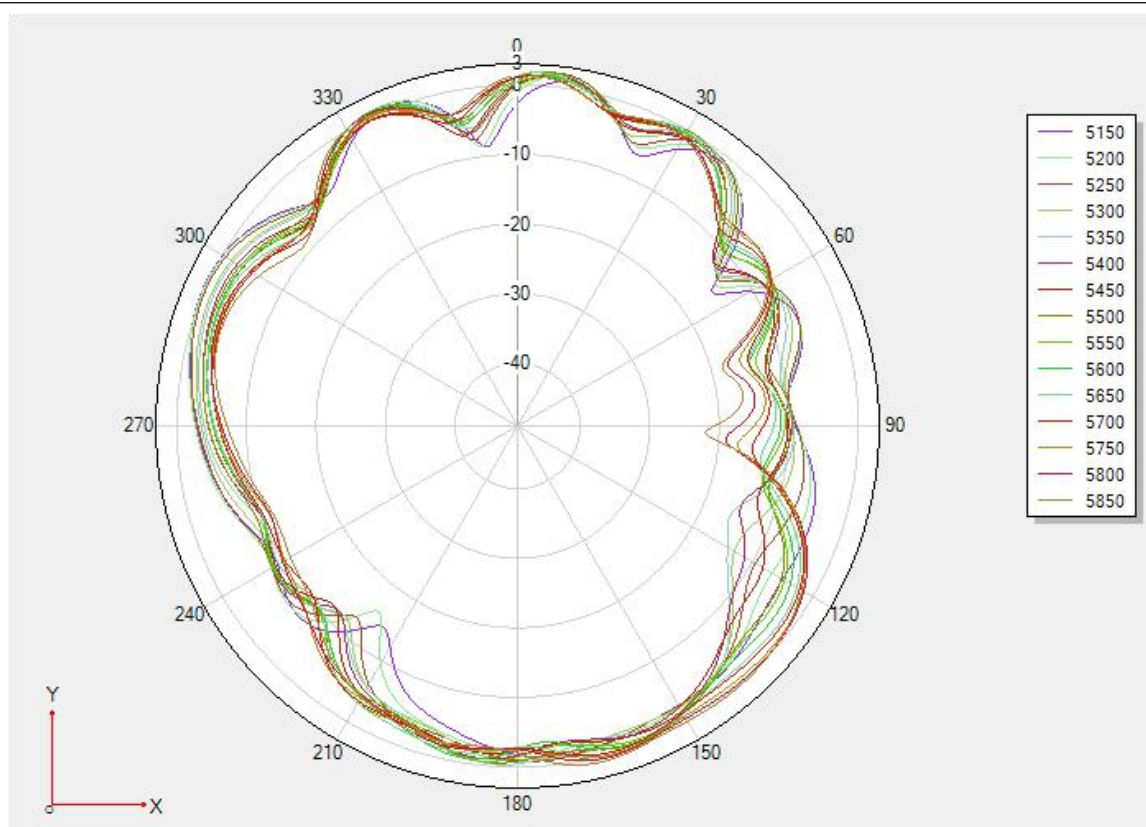
驻波比
(VSWR)



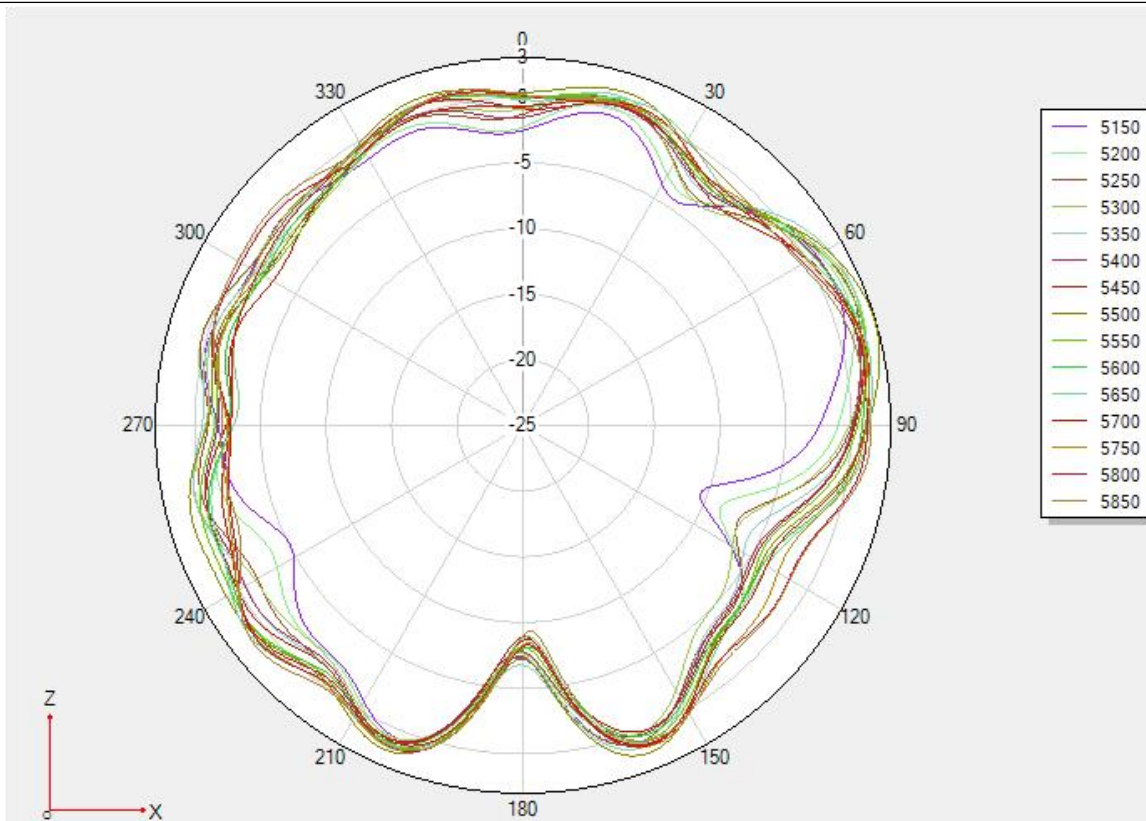
效率与增益
(Efficiency and Gain)

Frequency / MHz	Gain/ dBi	Frequency / MHz	Efficiency / dB	Efficiency / %
5150	3.05	5150	-3.01	50
5200	3.35	5200	-2.79	52.6
5250	3.74	5250	-2.48	56.49
5300	3.29	5300	-2.92	51.05
5350	3.82	5350	-2.57	55.34
5400	2.95	5400	-3.06	49.43
5450	2.95	5450	-2.98	50.35
5500	3.78	5500	-2.09	61.8
5550	3.08	5550	-2.47	56.62
5600	2.73	5600	-2.5	56.23
5650	3.19	5650	-2.16	60.81
5700	2.71	5700	-2.64	54.45
5750	2.81	5750	-2.44	57.02
5800	2.9	5800	-2.39	57.68
5850	3.35	5850	-2.32	58.61

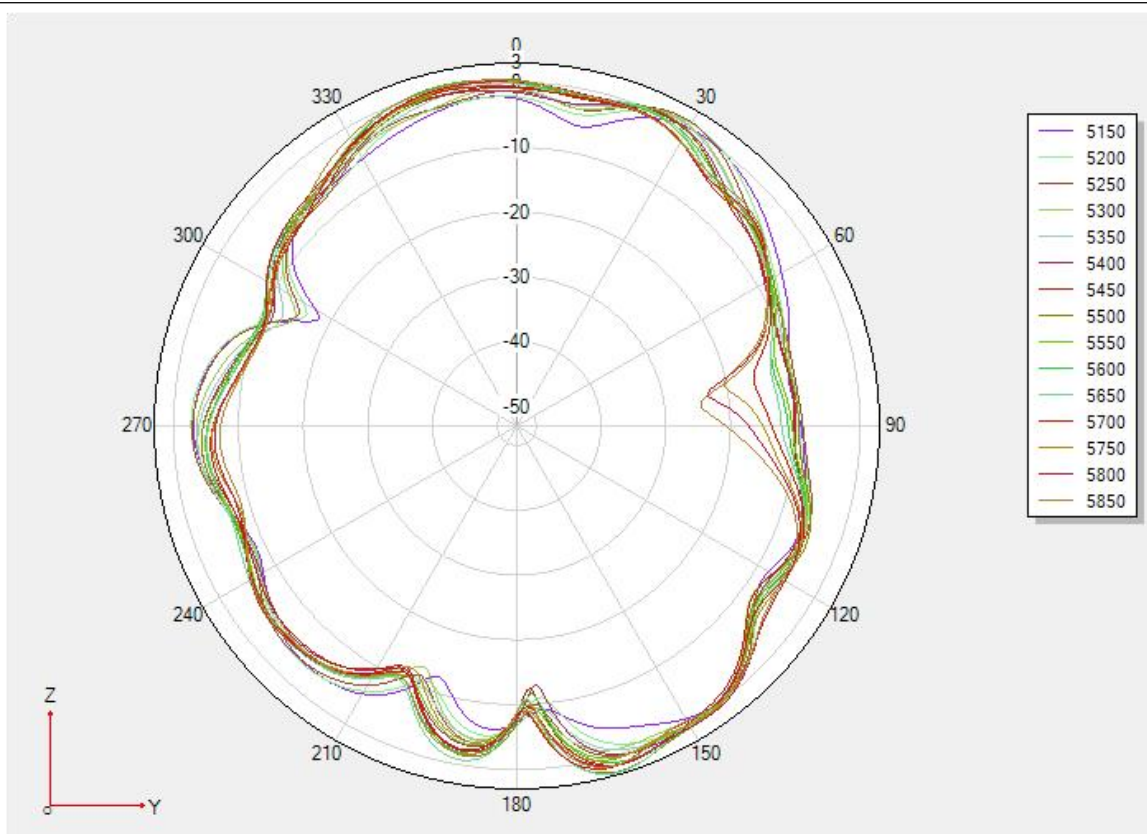
E1 面方向
图(The
orientat
ion map
of the
E1 plane
)



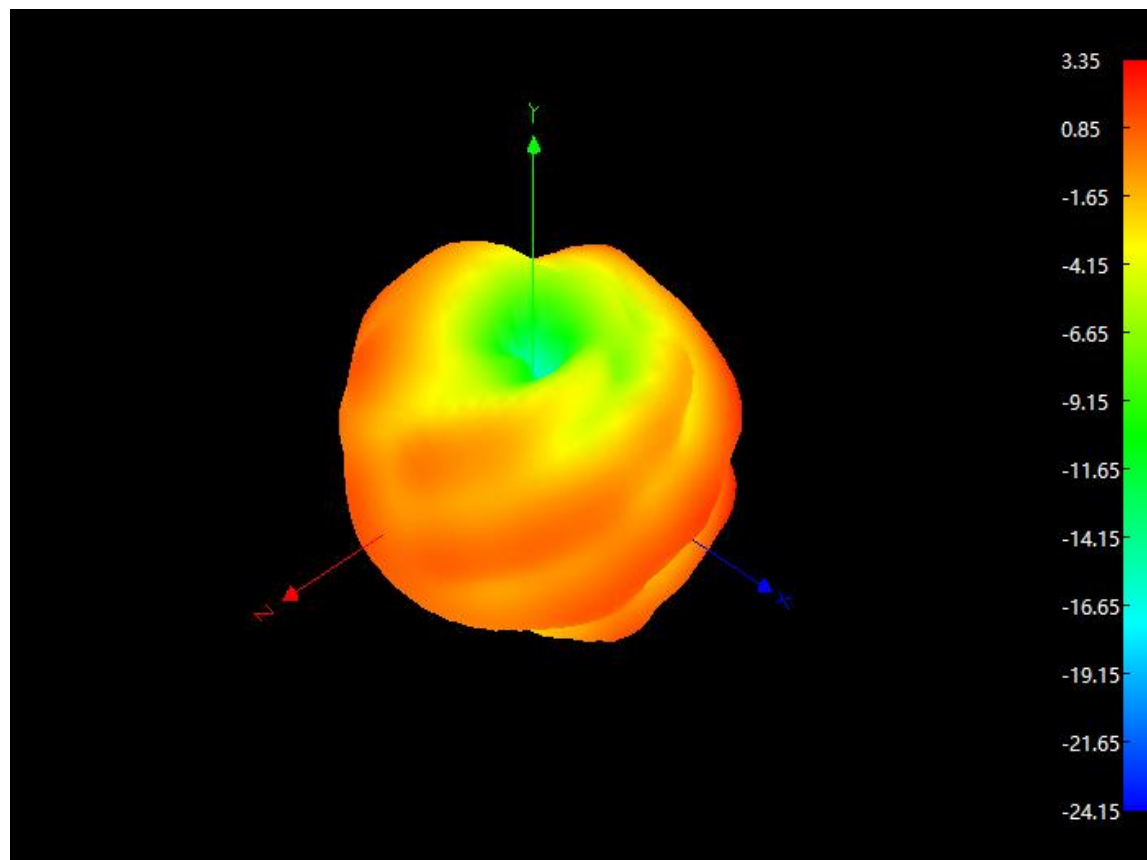
E2 面方向
图(The
orientat
ion map
of the
E2 plane
)



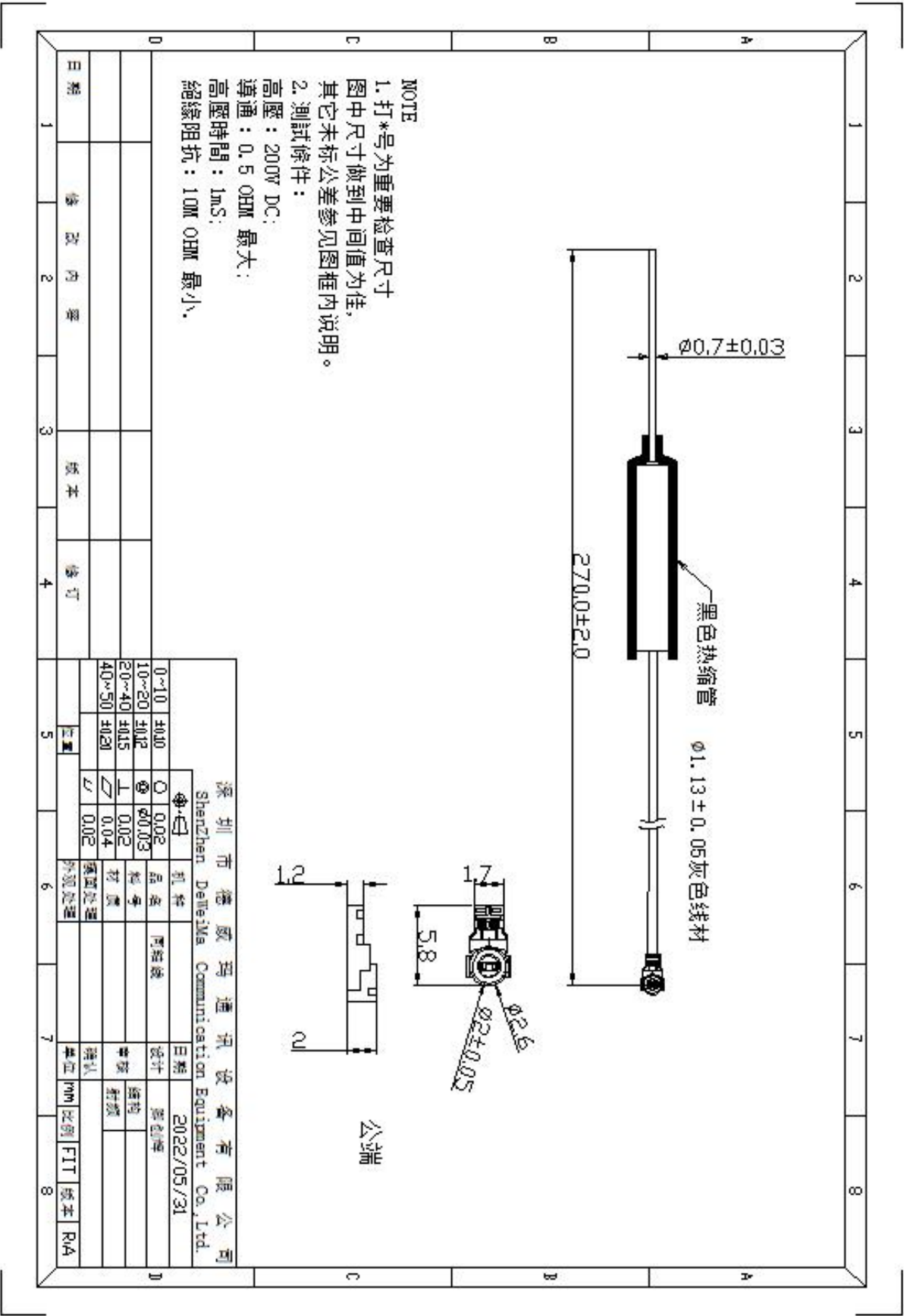
E3 面方向图
(The orientat
ion map
of the
E3 plane
)



3D 方向图
(3D
Pattern)



5. product structure diagram:



6. Product physical drawing:



7. manner of packing:

Shipped in bags