

SPECIFICATION FOR APPROVAL

CUSTOMER :	旷通
PART NAME :	wifi三频天线
PART NO. :	
DZZ NO. :	N12-7133-R0A
REV. :	

	MANUFACTURERR SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY:		
DATE:		

Antenna Design for wifi三频天线 V1.0

Document Number	DZZ-20230911
1st Released Date	11/09/2023
Author	Huiping Feng
Review By	Huiping Feng

Antenna Assembly

Specification(With housing)

1.Electrical Properties

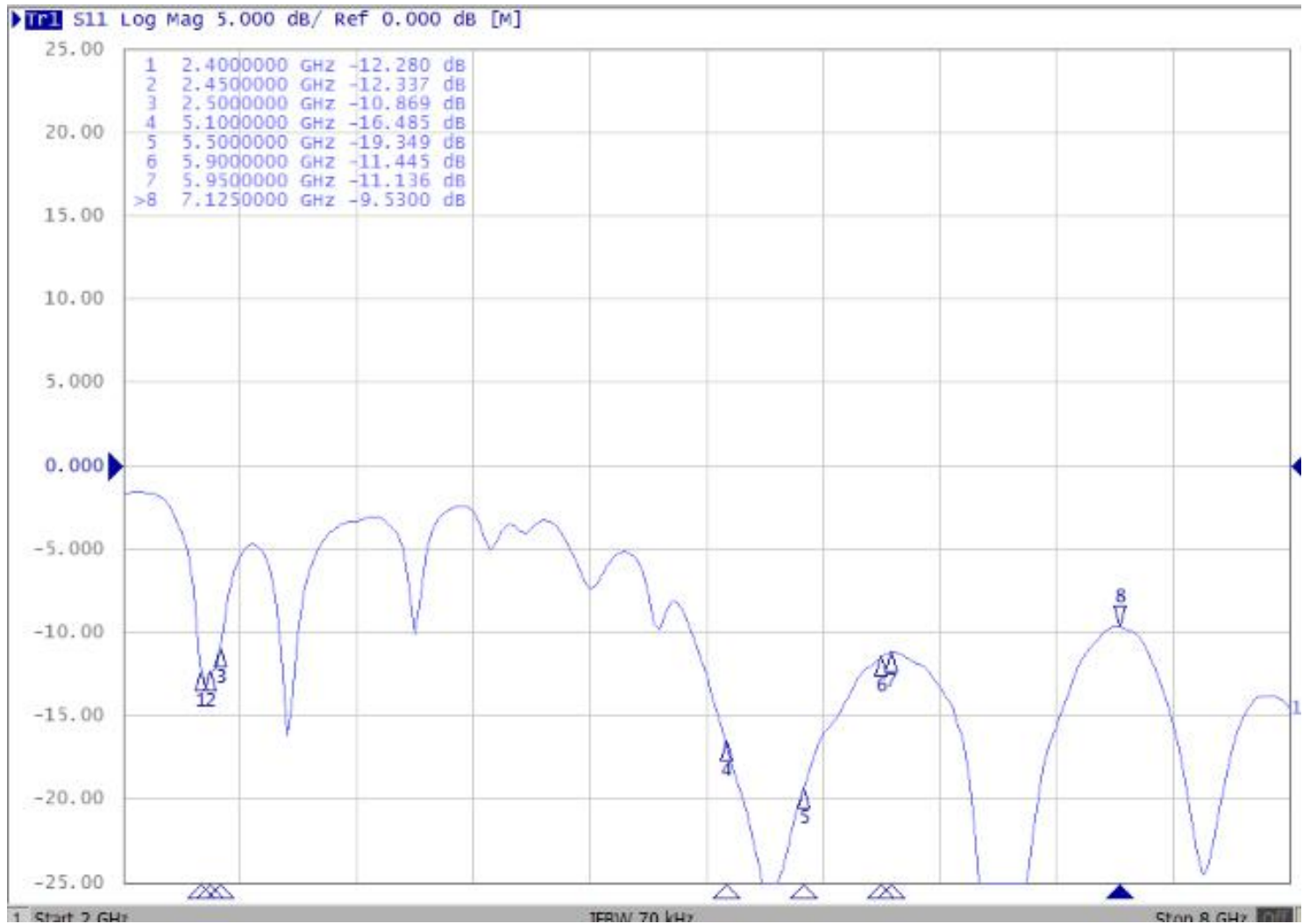
1.1 Frequecy range.....	2.4G~2.5G&5.1G~7.125G
1.2 Impedance.....	50Ω Norminal
1.3 VSWR	≤2
1.4 Return Loss	≤-10dBm
1.5 Radiation.....	Omni
1.6 peak Gain.....	5dBi
1.7 Polarization.....	Linear
1.8 Admitted Power.....	1W
1.9 Cable.....	NONE

2.Physical Properties

2.1 Working Temperature.....	-30°C~+75°C
2.2 Storage Temperature.....	-30°C~+75°C

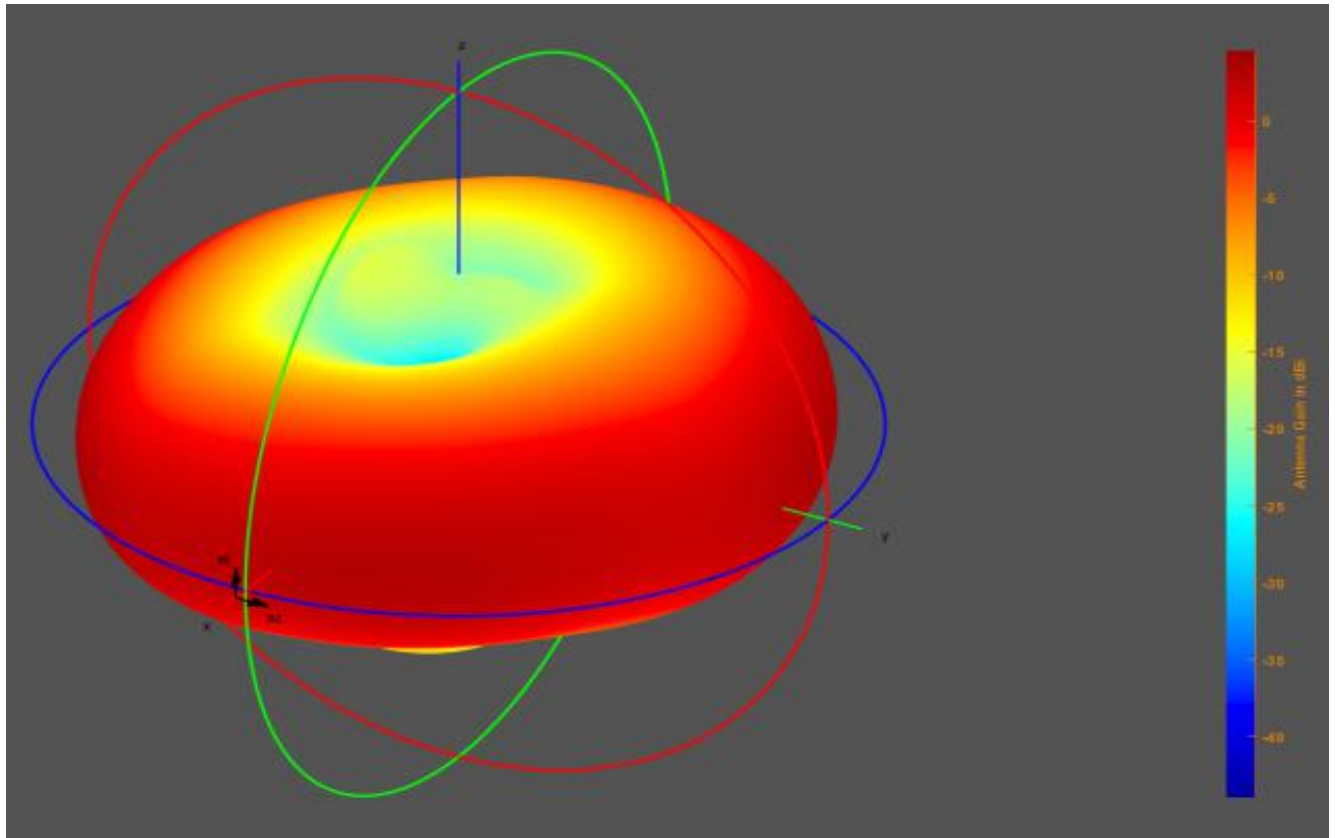
1. Analyzer Measurement

1.1 S11 test results

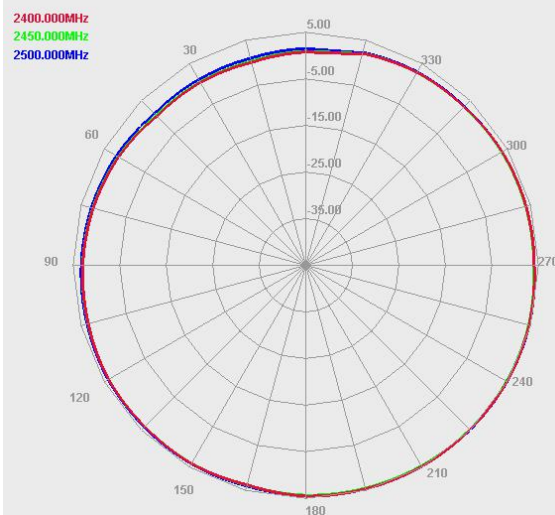


2. 2D&3D

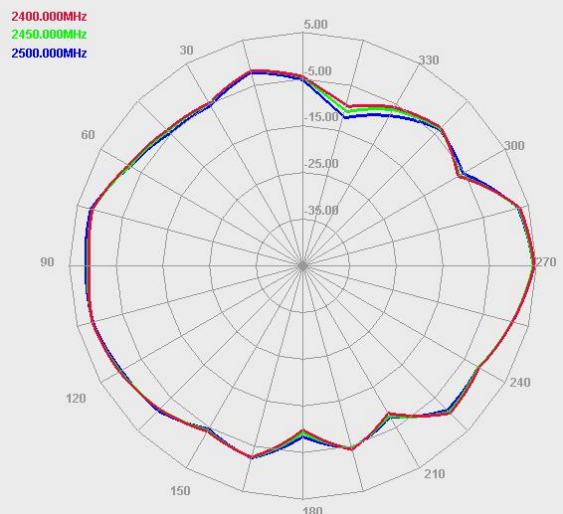
2.1 2.4G



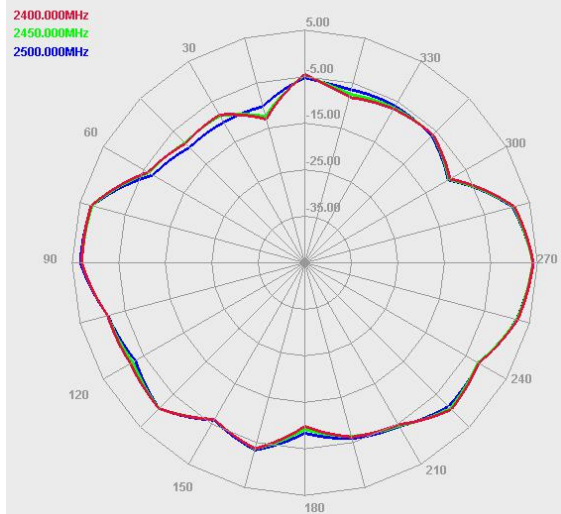
Horizontal



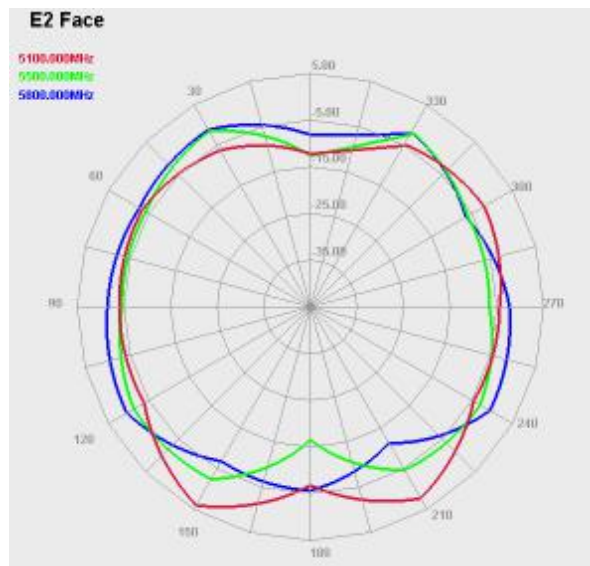
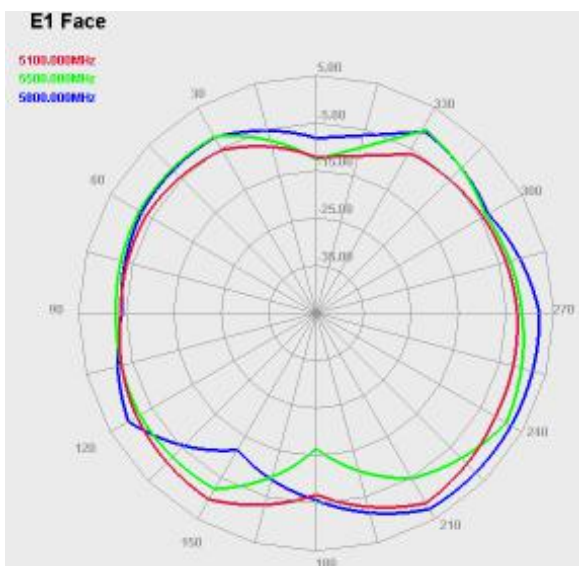
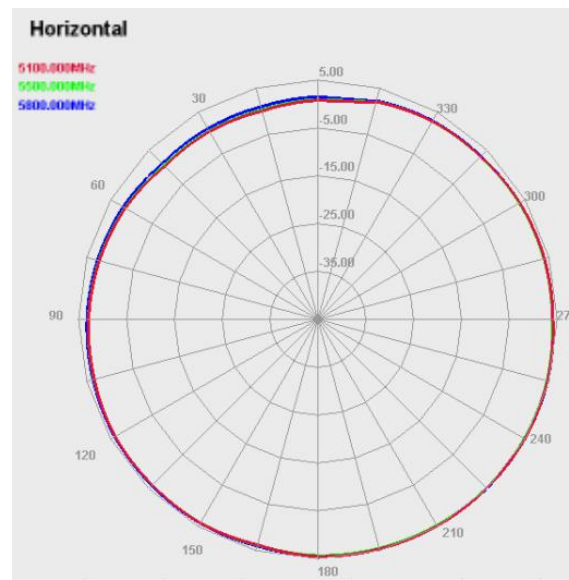
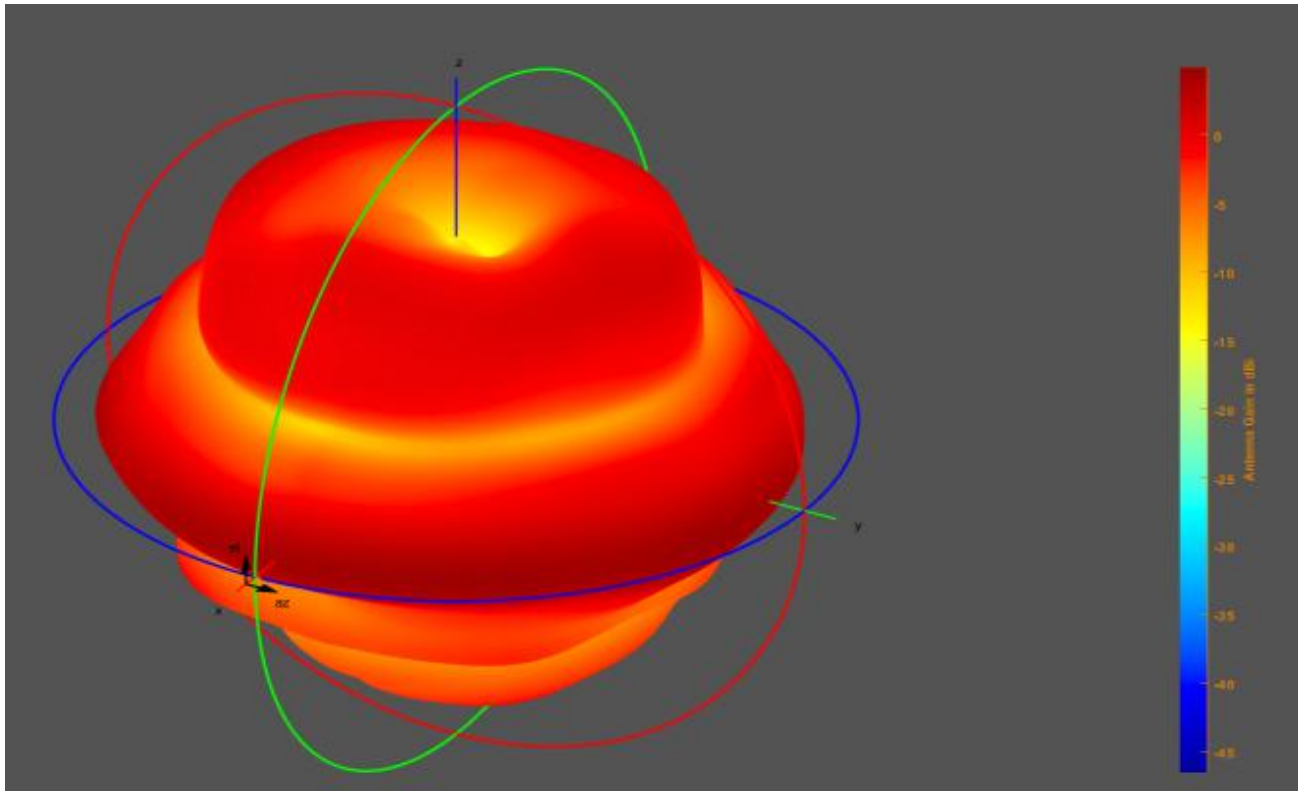
E1 Face



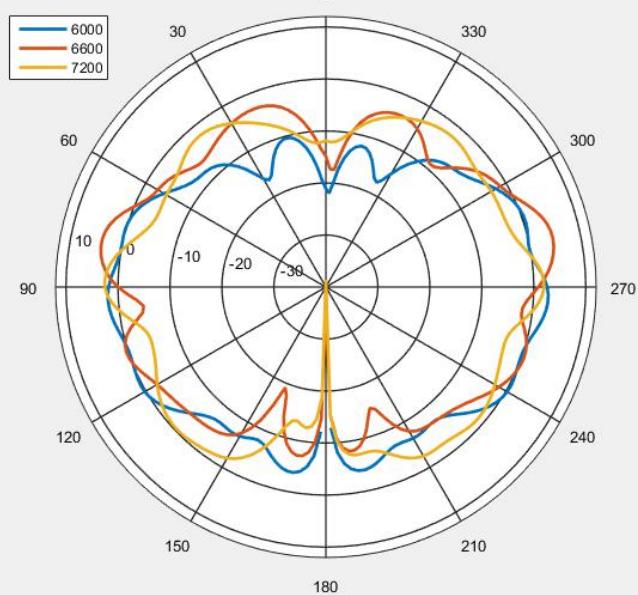
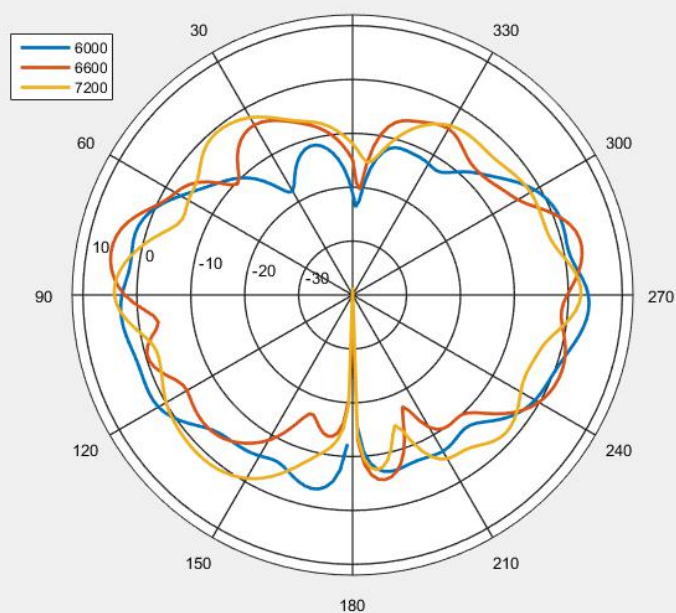
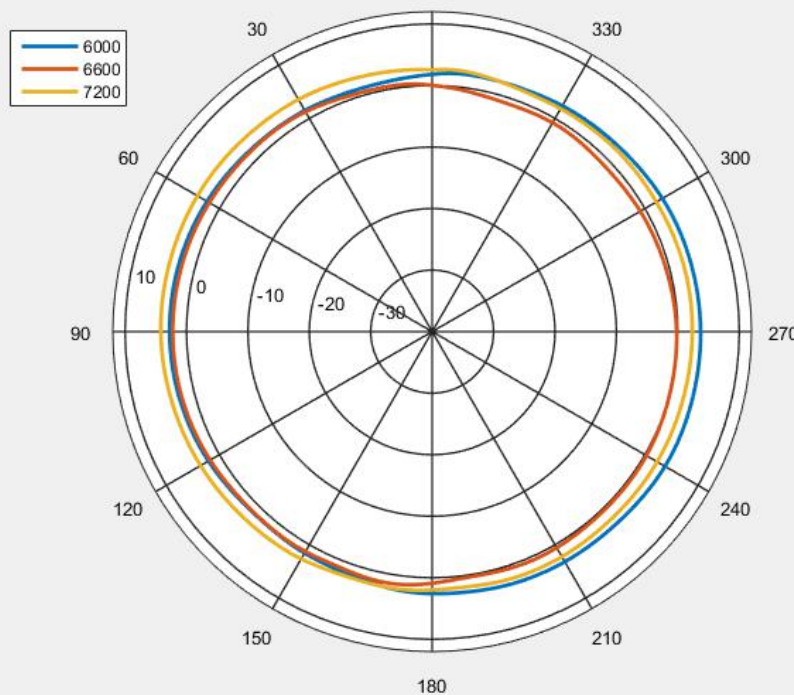
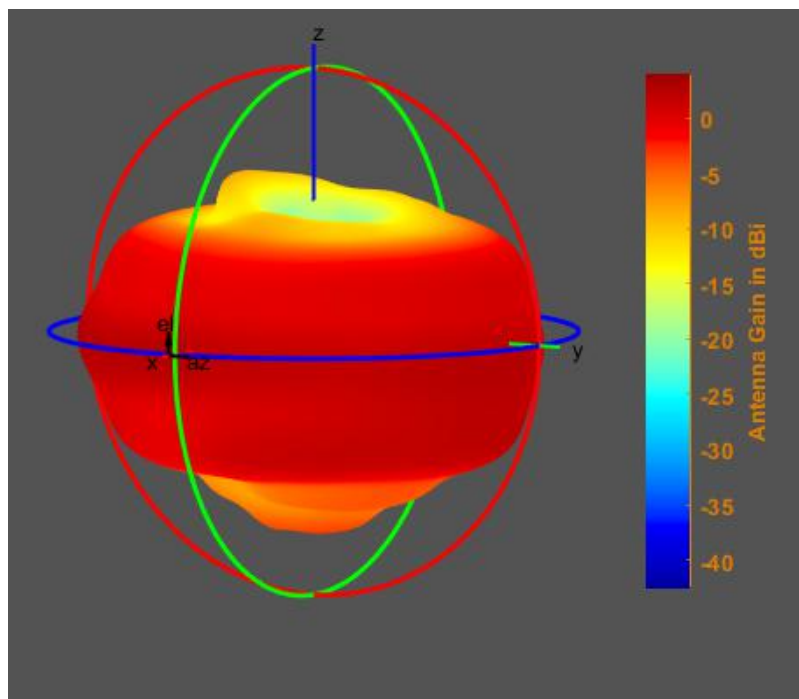
E2 Face



2.2 5G



2.3 6G



3. Passive Data

Freq (MHz)	Effi (%%)	Gain (dBi)
2400	76.22	4.81
2410	77.89	4.87
2420	78.52	4.92
2430	78.86	4.98
2440	78.91	4.99
2450	78.57	5.02
2460	78.24	5.01
2470	77.76	4.97
2480	77.58	4.92
2490	76.39	4.91
2500	76.25	4.83
5100	66.05	4.85
5200	66.82	4.89
5300	67.95	5.01
5400	69.85	5.05
5500	72.02	5.06
5600	70.42	5.01
5700	69.91	4.95
5800	66.27	4.93
5900	66.07	4.83

Freq (MHz)	Effi (%)	Gain(dBi)
5900	74.45	4.71
6000	74.97	4.71
6100	73.25	4.87
6200	70.53	4.82
6300	70.71	4.81
6400	71.89	4.88
6500	70.37	4.41
6600	71.29	4.22
6700	71.00	4.17
6800	70.57	4.50
6900	72.49	4.35
7000	72.52	4.46
7100	70.18	4.67
7200	72.33	4.68

1

2

3

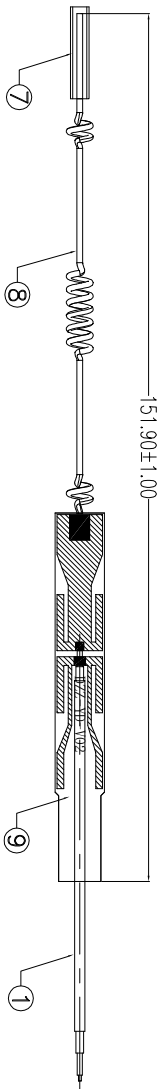
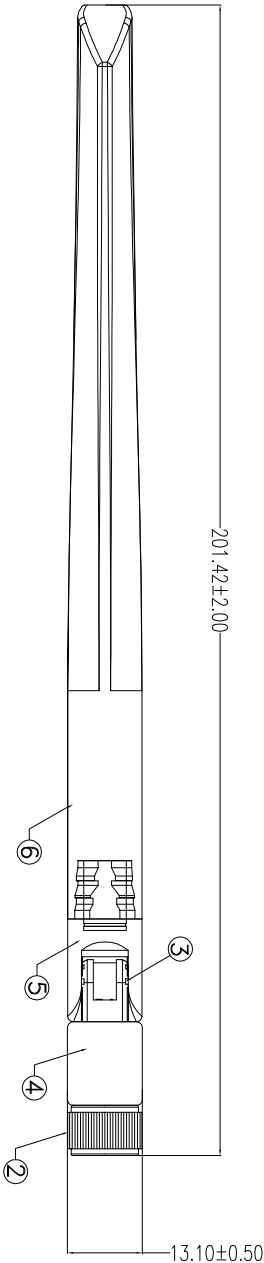
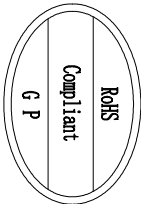
4

5

6

7

8



9	PCB	FR4	绿色	1	
8	2.4G弹簧	黄铜	黄色	1	
7	胶管		透明	1	
6	套杆	TPE	黑色	1	
5	上固定座	PC+PBT	黑色	1	
4	下固定座	PC+PBT	黑色	1	
3	固定柱	POM	黑色	2	
2	SMA底座	SMA公头针数178线	黑色	1	
1	射频线	RG178射频线	棕色	1	

备注:
1. 标注“*”为重点尺寸, 未标公差尺寸按照±0.15检测
2. 未标注尺寸请依图纸.
3. 符合ROHS

深圳得自在科技有限公司 SHEN ZHEN Be Comfortable CO., LTD					
Project		三频wifi	Date	2022.3.3	
PartName		外置天线1	Designed by		
Part No.		NI2-7133-R0A	Checked by	田进	
Material		N/A	RF	冯惠平	
Approved by			Unit	mm	Scale
					1:1
			Rev	A	

0~10	±0.2	Third Angle
10~18	±0.5	◎
18~30	±0.8	⊥
30~40	±1.0	∠
40~	±2.0	Angle ±0.5°
Location N/A		

Rev	Description	Date	Remark
A	New drawing		
1			