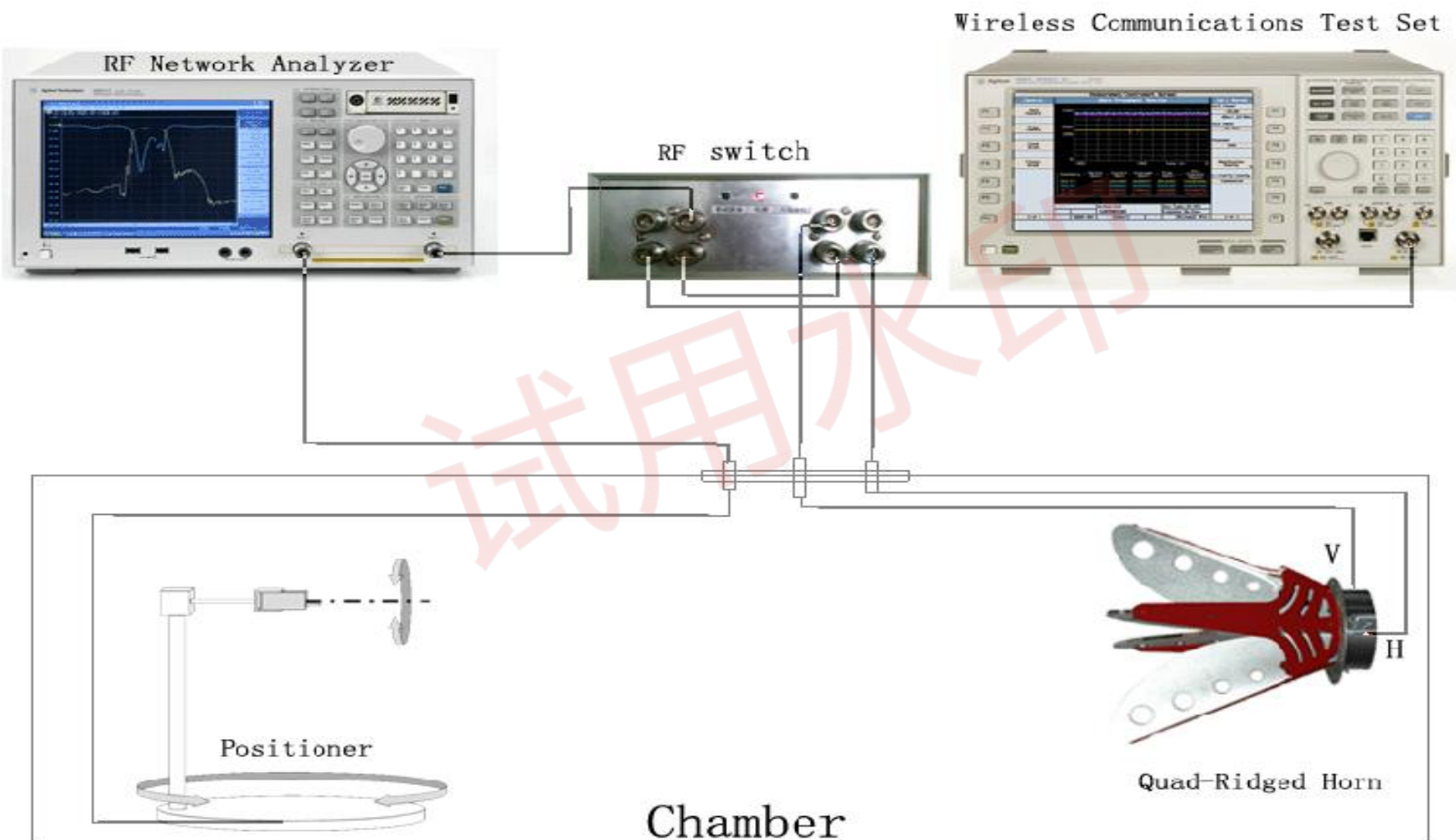


Shenzhen ATN commucation co.,Ltd

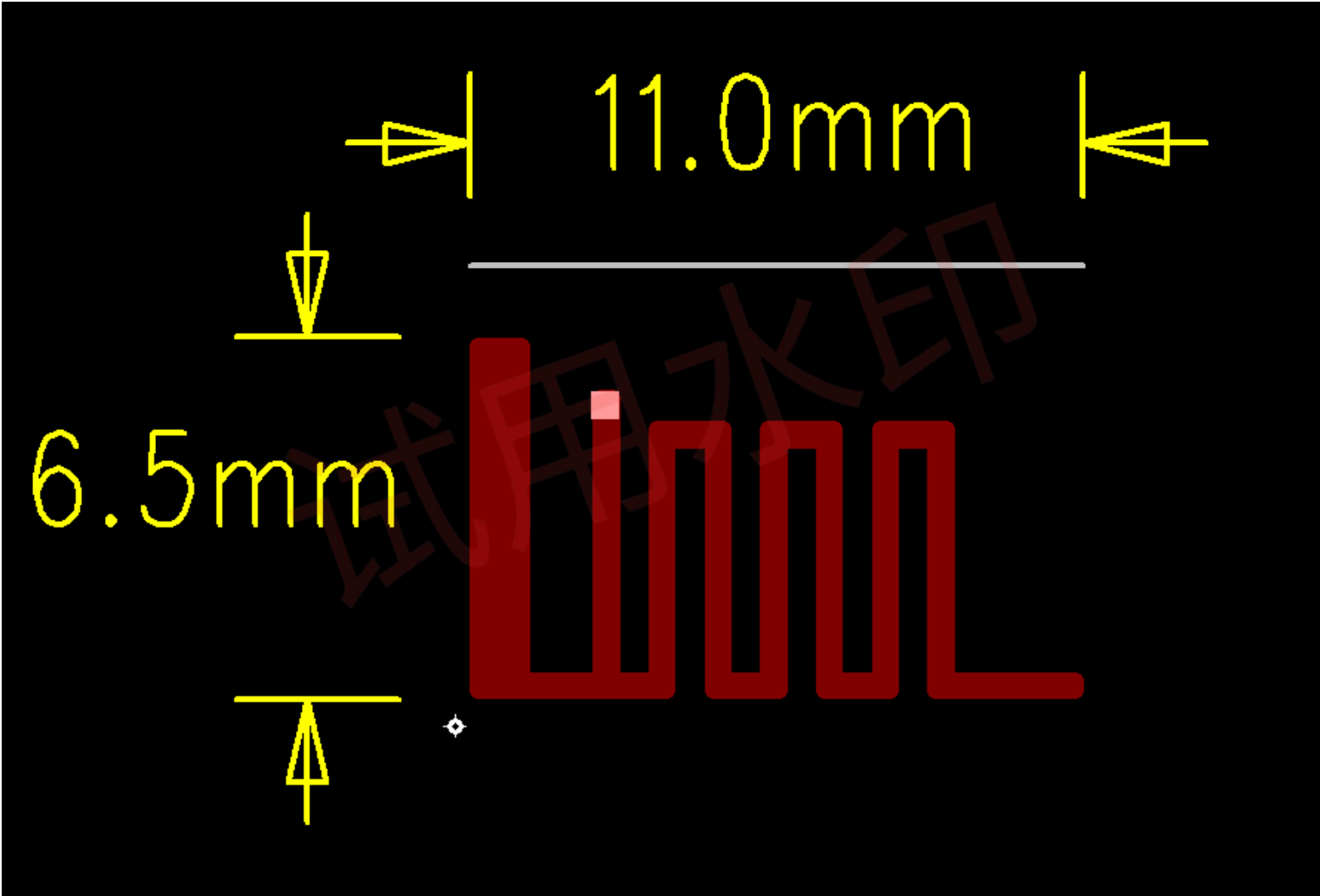
Antenna test report

Customer:	Chuangxinwei	Project name	M3-MAX	date	Aug 10, 2023
band	2. 4G-2. 48GHz				
Report version	V3.0				
Antenna type	PCB antenna				
Manufacturer	Shenzhen KnownPCB Technology Co., Ltd.				

Test system



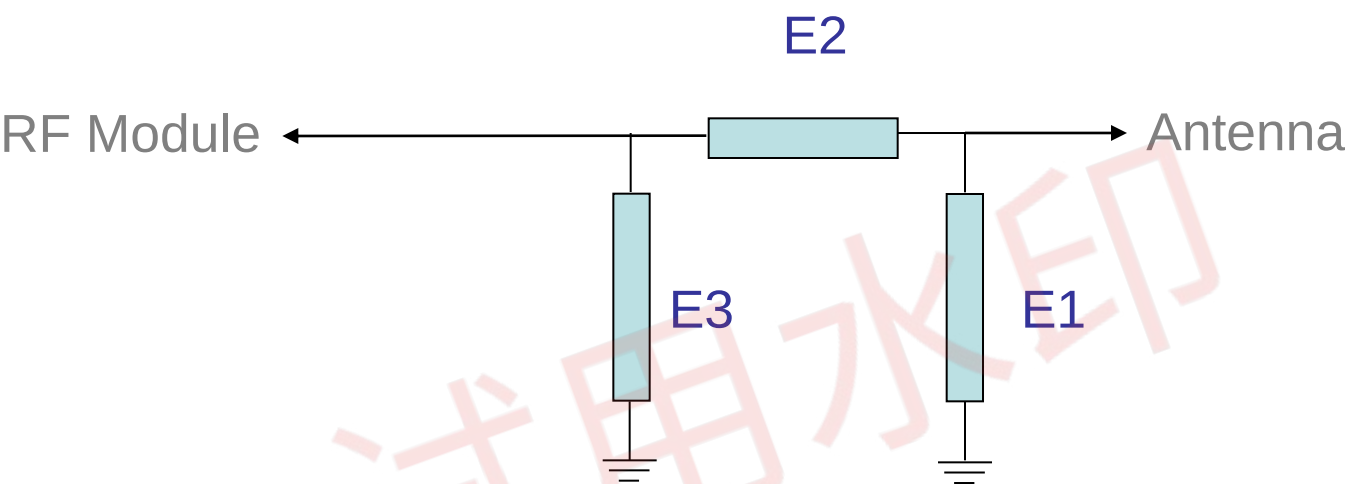
Antenna size



Catalog

1. Match circuit
2. Passive test data
3. OTA data
4. Distance test

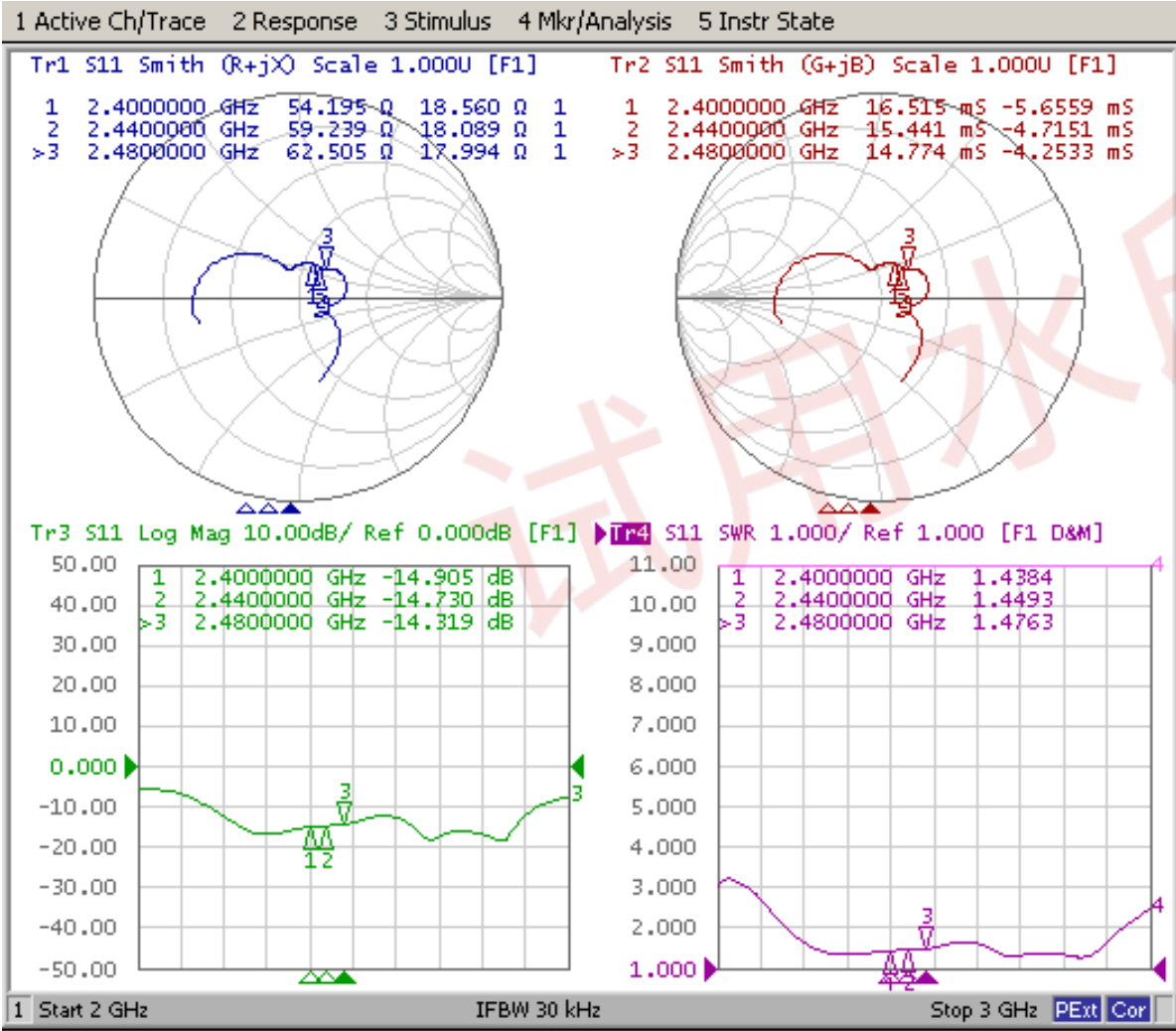
1. match circuit



Element	Value
E1(0402)	NC
E2(0402)	3.3nH
E3(0402)	0.3pF

2. Passive data

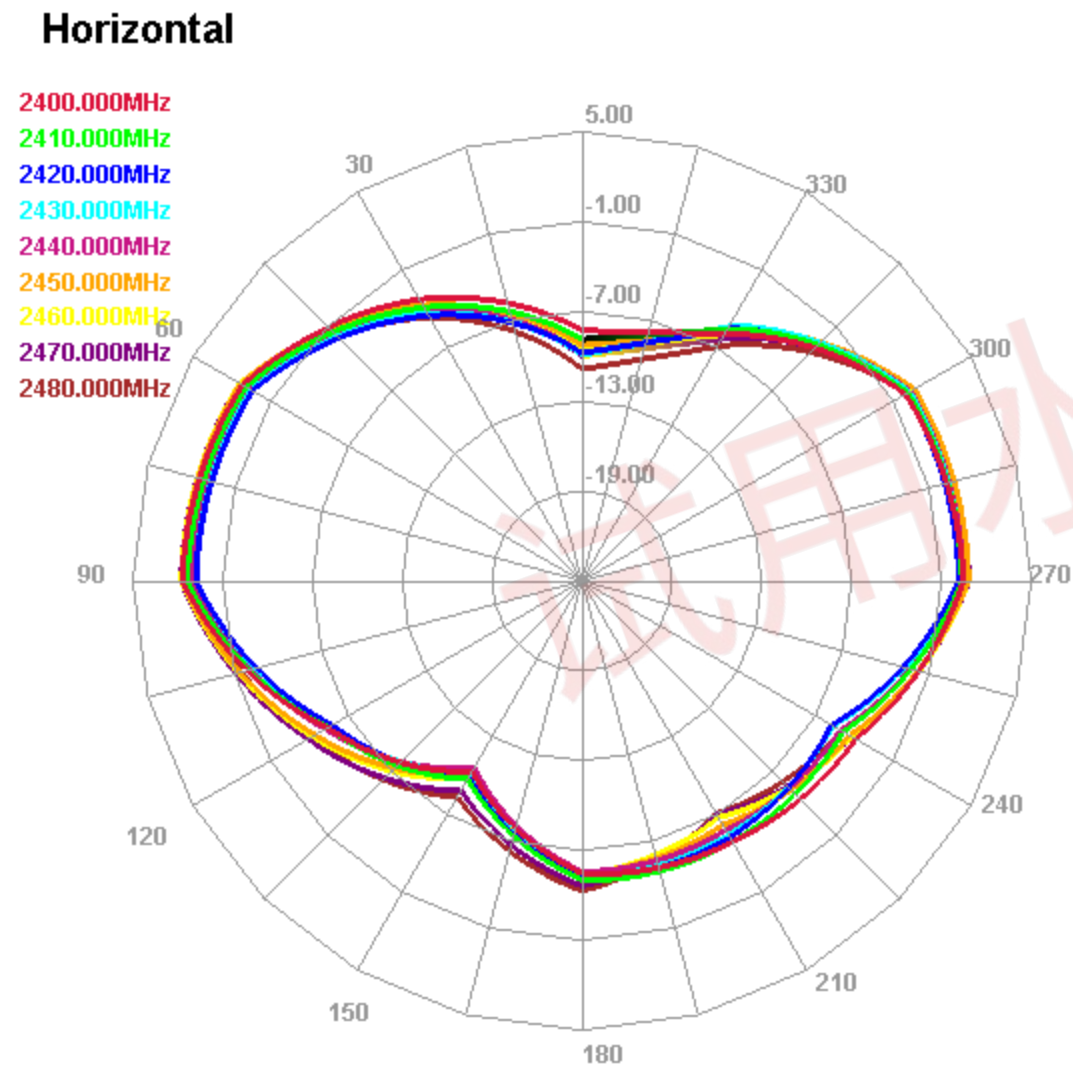
2.1 S11 Parameter



2.2 Gain & Efficiency

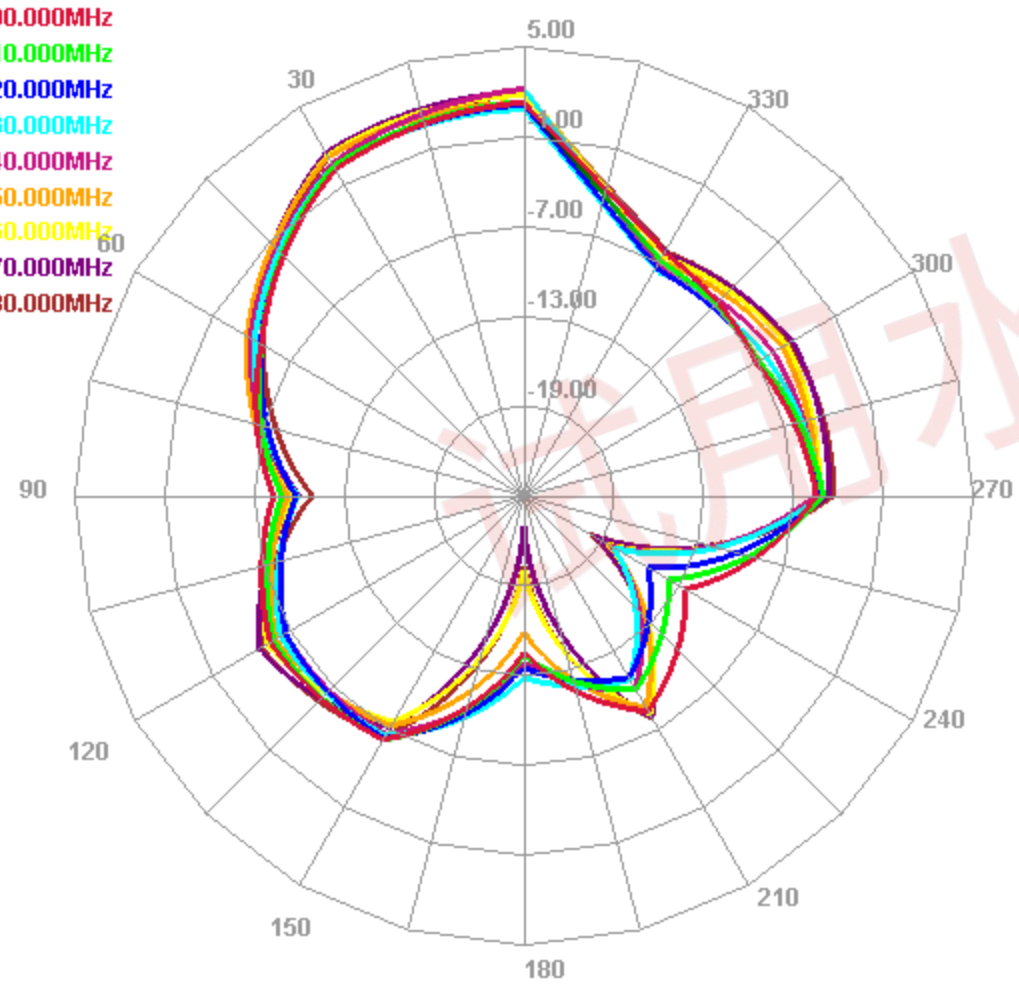
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	51.79	-2.86	1.87
2410	50.42	-2.97	1.85
2420	46.76	-3.3	1.5
2430	48.03	-3.19	1.61
2440	49.24	-3.08	2.18
2450	52.92	-2.76	1.75
2460	52.35	-2.81	1.77
2470	52.18	-2.83	1.99
2480	47.41	-3.24	1.78

2.3 Radiation pattern(Gain unit:dBi)

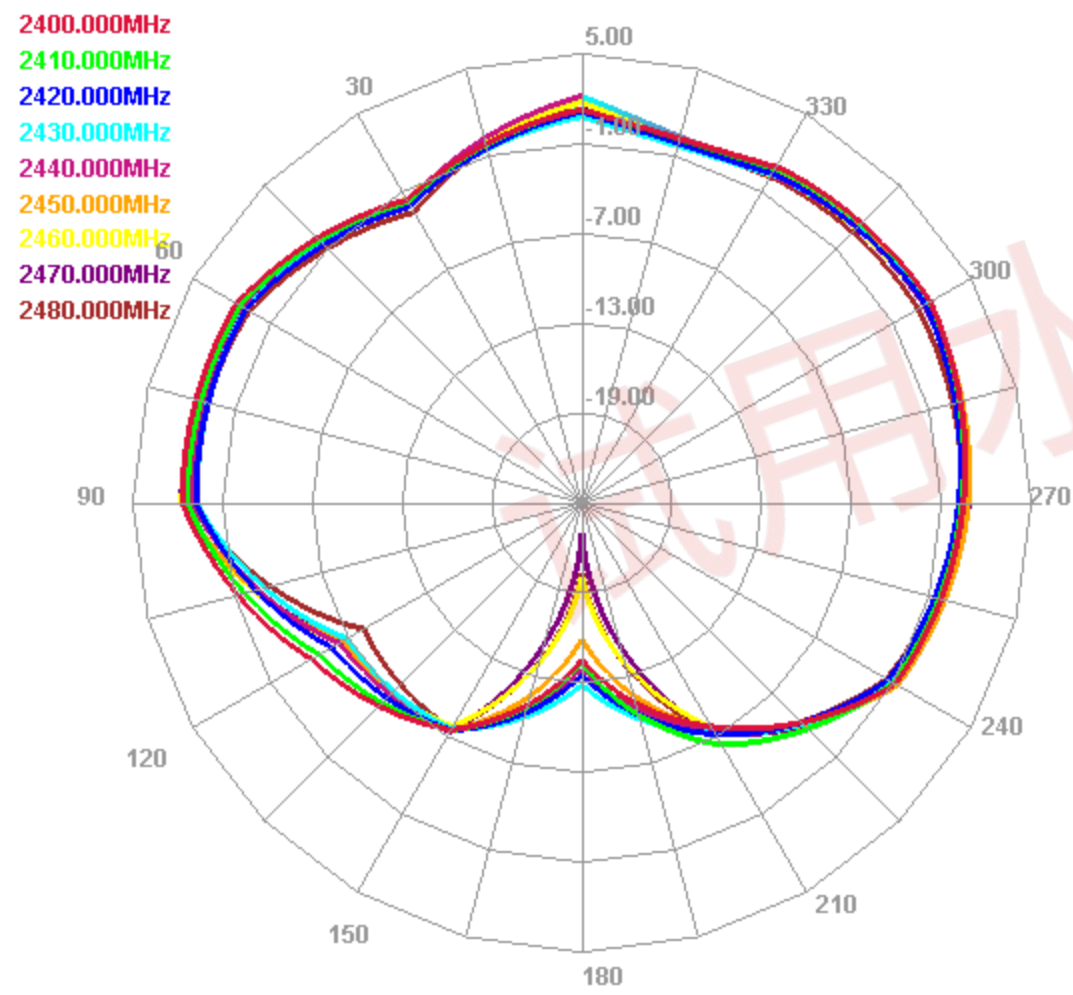


E1 Face

- 2400.000MHz
- 2410.000MHz
- 2420.000MHz
- 2430.000MHz
- 2440.000MHz
- 2450.000MHz
- 2460.000MHz
- 2470.000MHz
- 2480.000MHz



E2 Face



3. OTA data

band	channel	TRP (dBm)	TIS (dBm)
Bluetooth BR	0	6.5	-89.2
	39	6.4	-87.7
	78	6.3	-88.3

4.Distance test

Mobile phone	SAMSUNG S8
Distance (360°)	15m

试用水印