



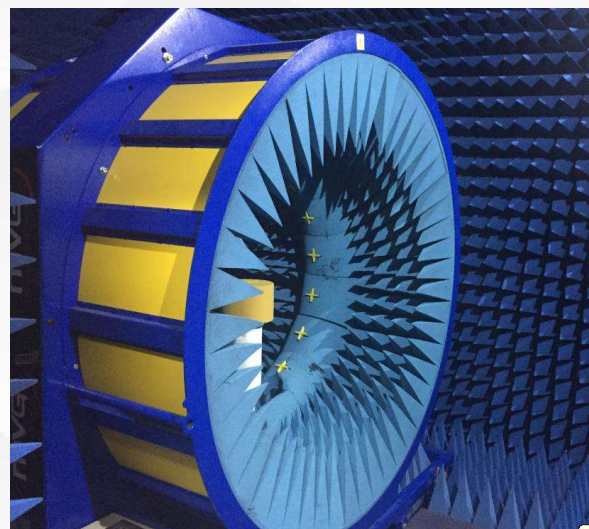
**Shenzhen cape deep communication technology co., LTD**

---

## **test report**



## Laboratory test environment and equipment



Test item	Test equipment
S11、S12、VSWR、LOSS	Network analyzer 5071B、E5062A
Efficiency、Gain 3D Radiation Pattern	Satimo SG16 darkroom、 GP7*4*3 darkroom、E5071B
TRP、TIS	Satimo SG16 darkroom、 GP7*4*3 darkroom、8960、 CMW500、MT8820C、E4438C、

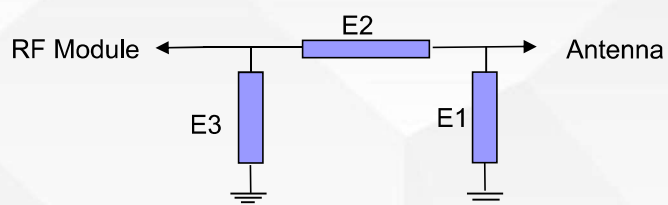


## Brief description of the project

<b>Machine type</b>	watch		
	<b>Frequency band information</b>		
<b>Antenna type and frequency band information</b>	antenna BLE/BT	2400-2480MHZ	
<b>Antenna material</b>	lead		



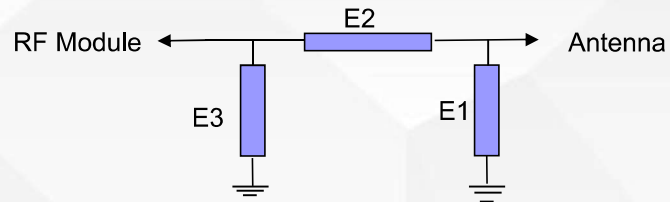
## BT cable distribution circuit



	Element	Value	
手表	E1(0201)		
	E2(0201)	1PF	
	E3(0201)	2PF	



## BLE antenna matching distribution circuit

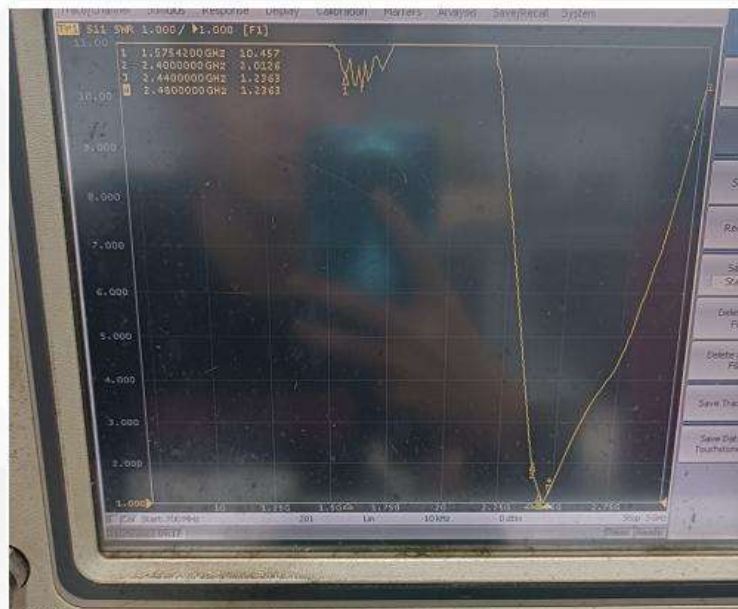


	Element	Value	
watch	E1(0201)	0.8NH	
	E2(0201)	1.5PF	
	E3(0201)		



# Antenna passive standing wave diagram

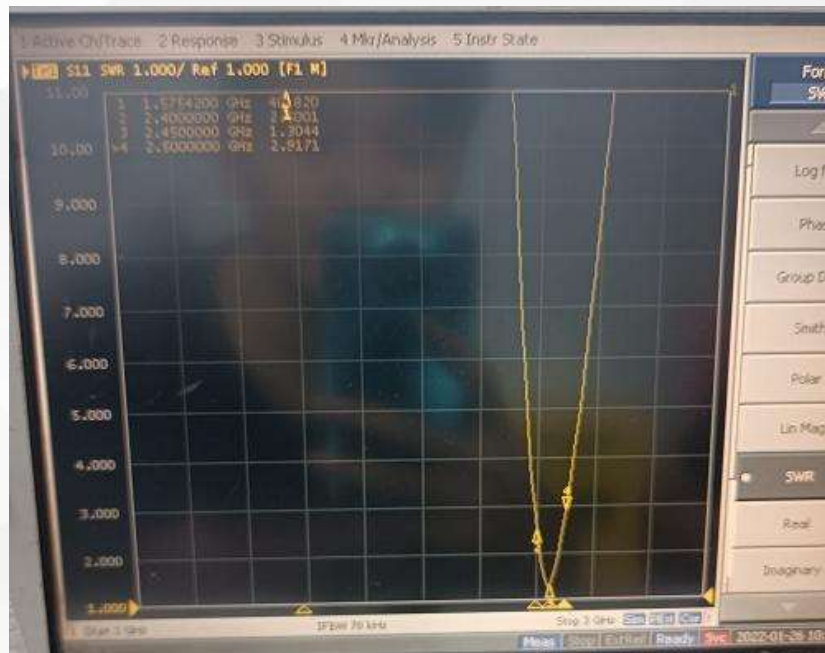
BLE





# Antenna passive standing wave diagram

BT





## Passive efficiency data graph

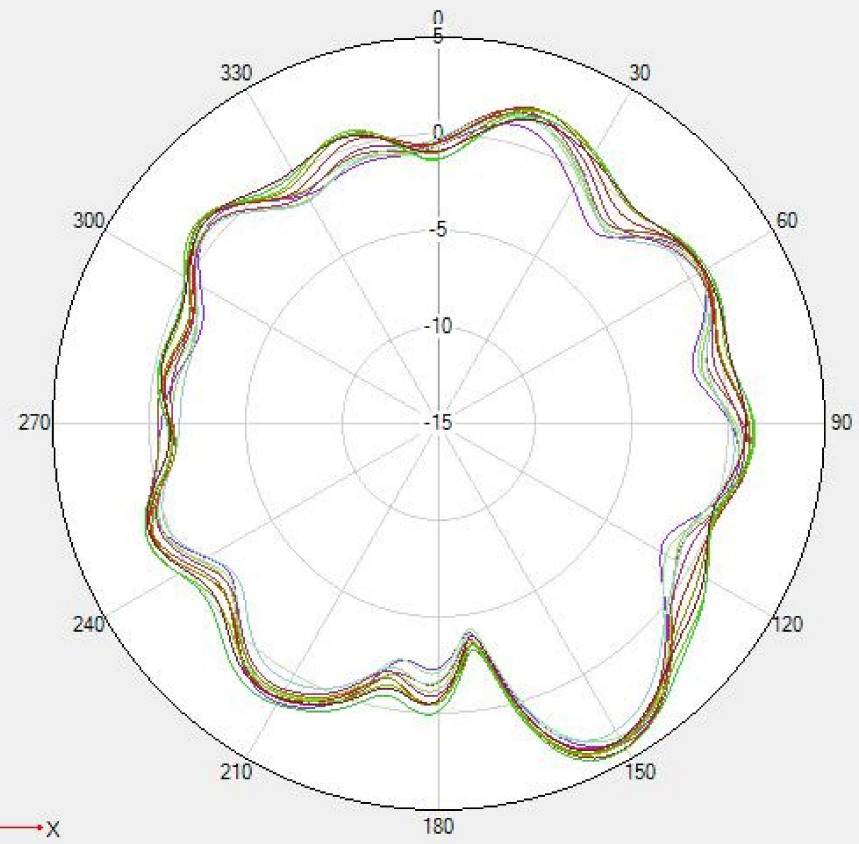
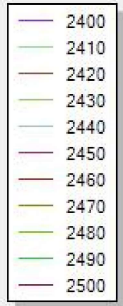
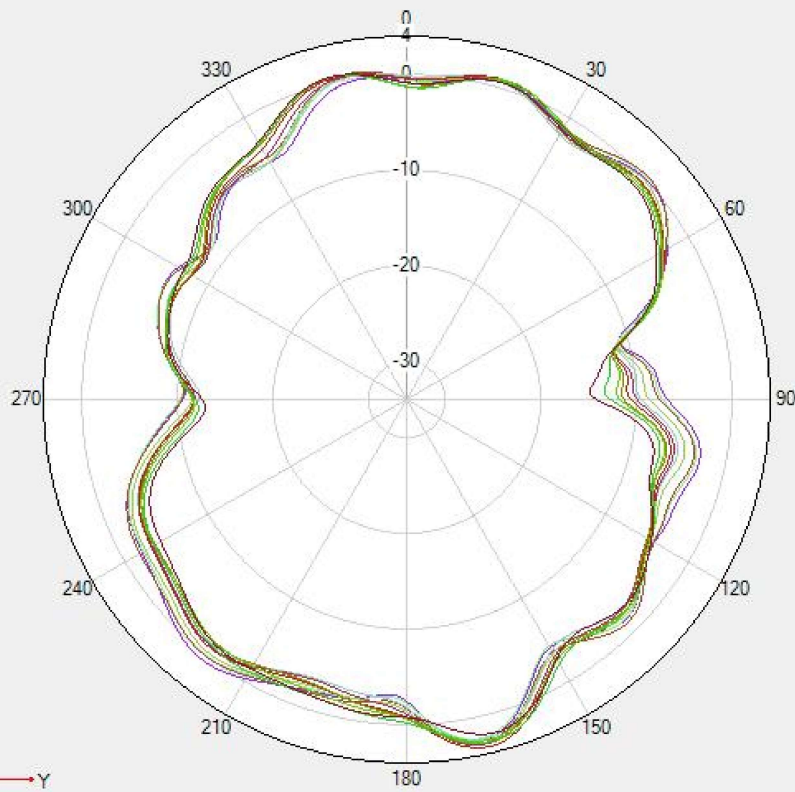
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	4.88	-13.11	-9.8
2410	7.48	-11.26	-8
2420	11.03	-9.58	-6.34
2430	15.41	-8.12	-5
2440	19.76	-7.04	-3.93
2450	23.84	-6.23	-3.26
2460	25.85	-5.87	-2.99
2470	27.48	-5.61	-2.87
2480	29.99	-5.23	-2.57
2490	33.41	-4.76	-1.91
2500	34.21	-4.66	-1.76

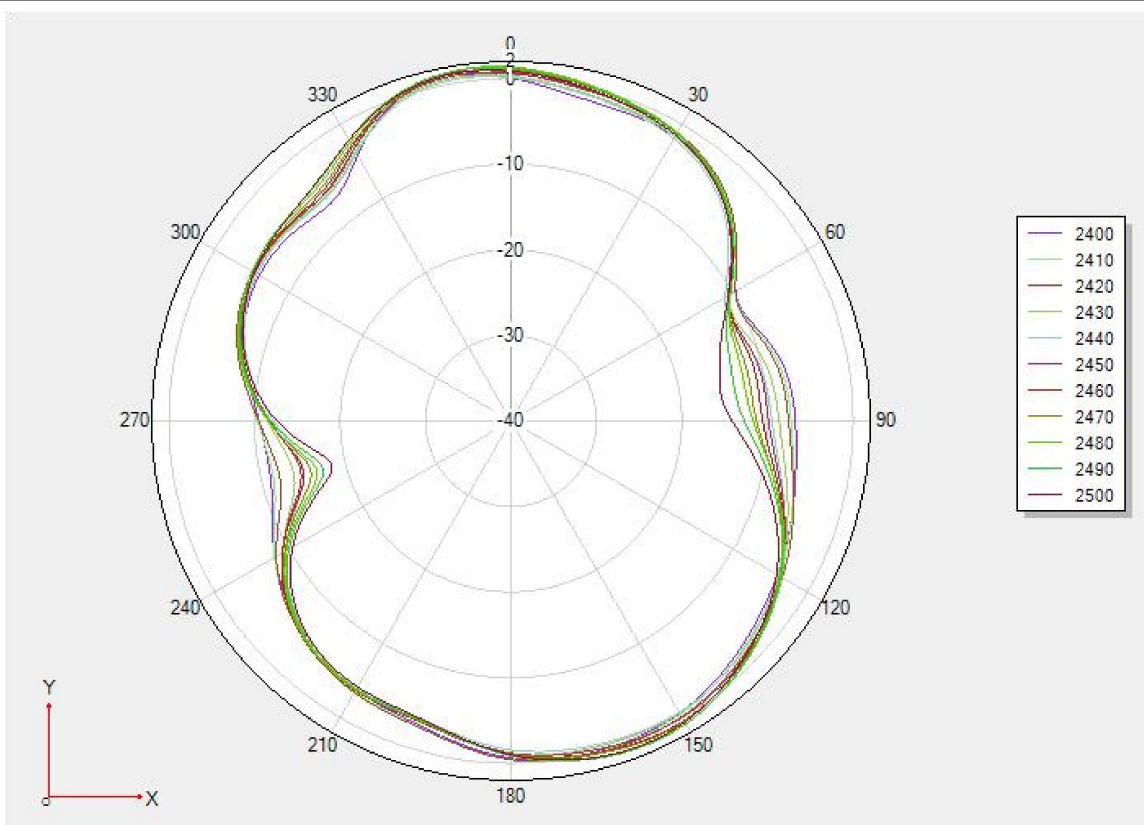




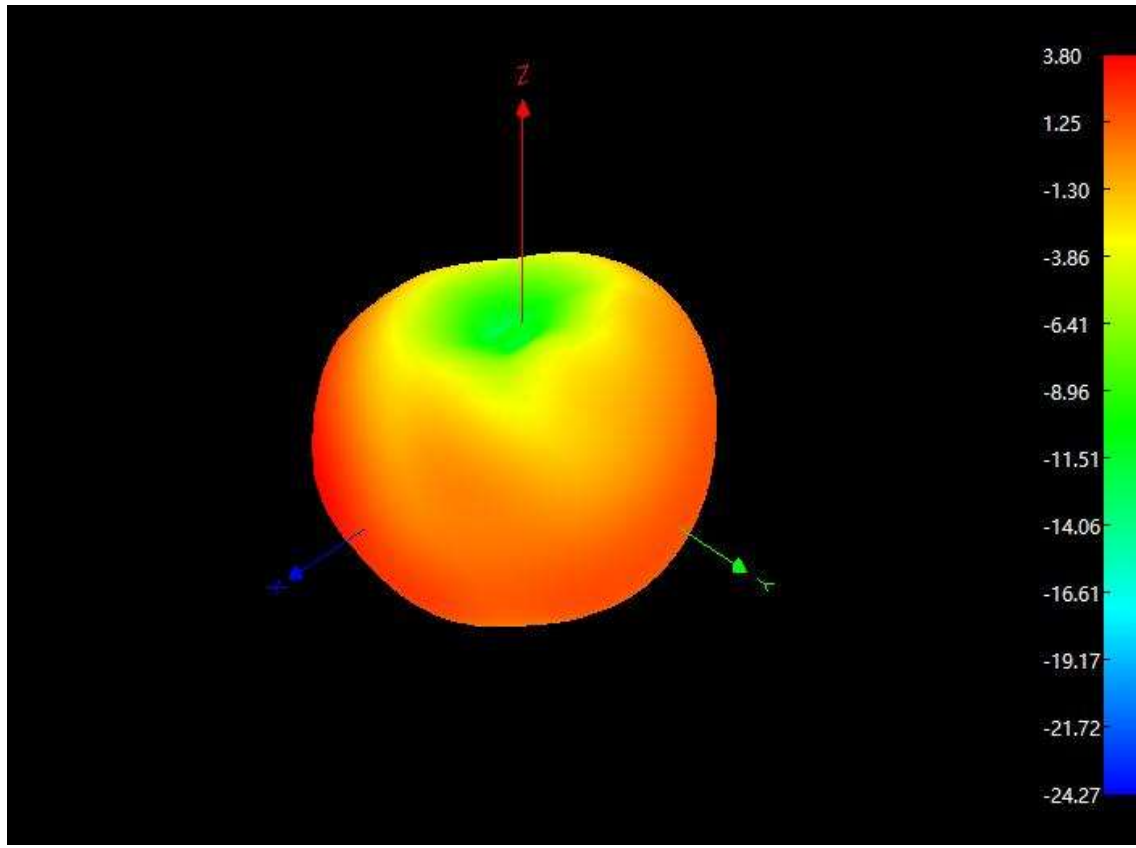
# Antenna placement







(3D  
Pattern)





---

**THE END**