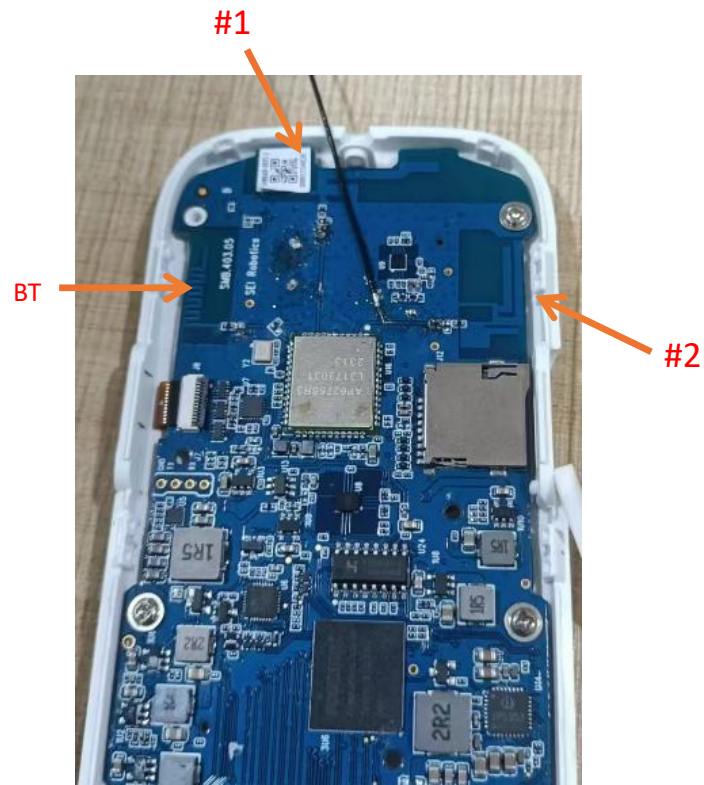
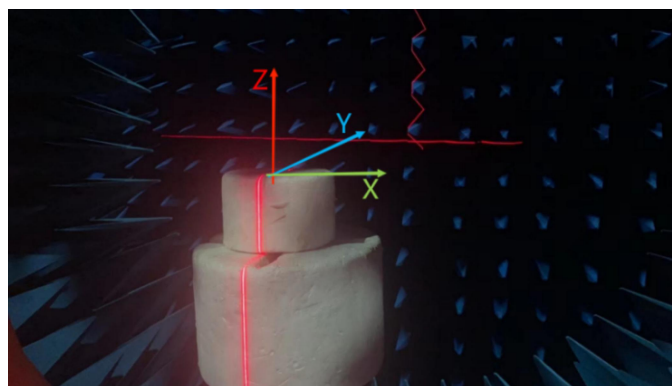


# Antenna SPEC

## 一、天线图 Antenna Picture

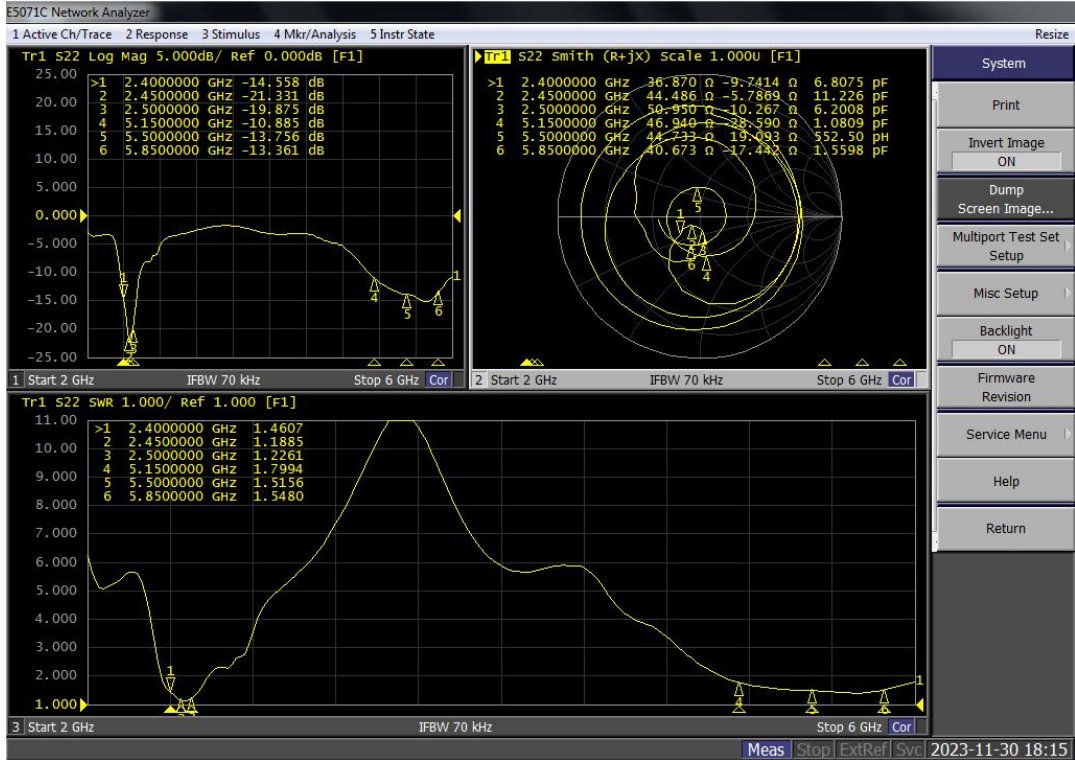


测试环境

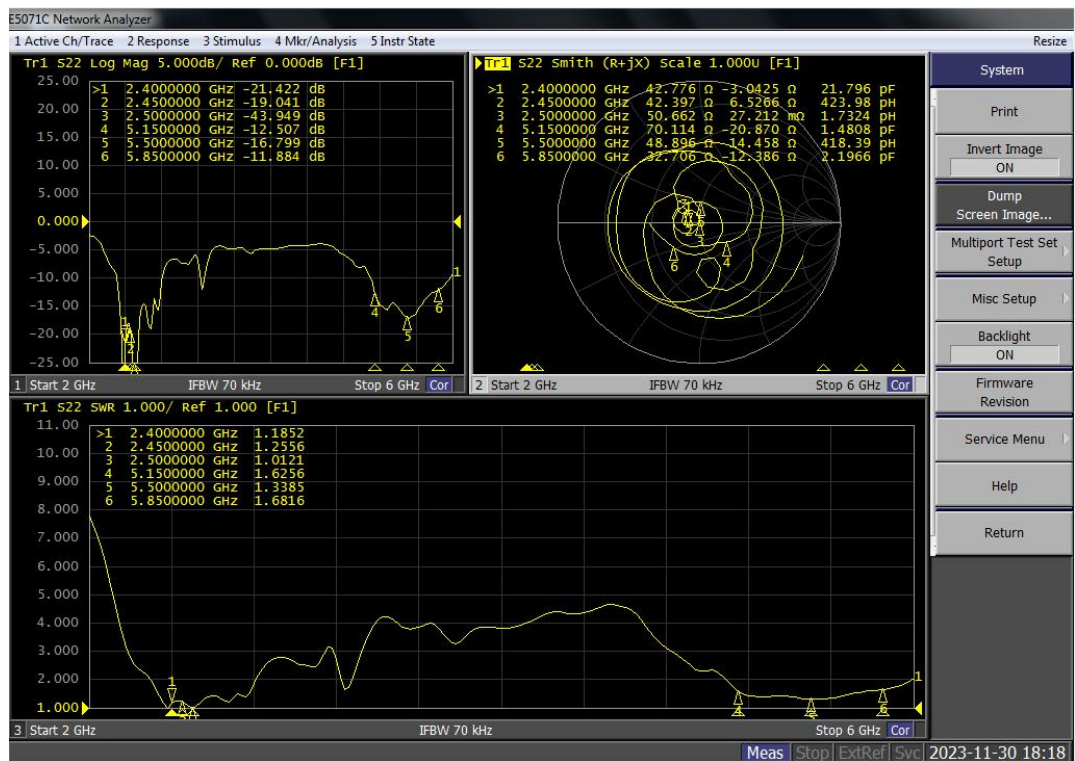


## 二、天线驻波图 S11

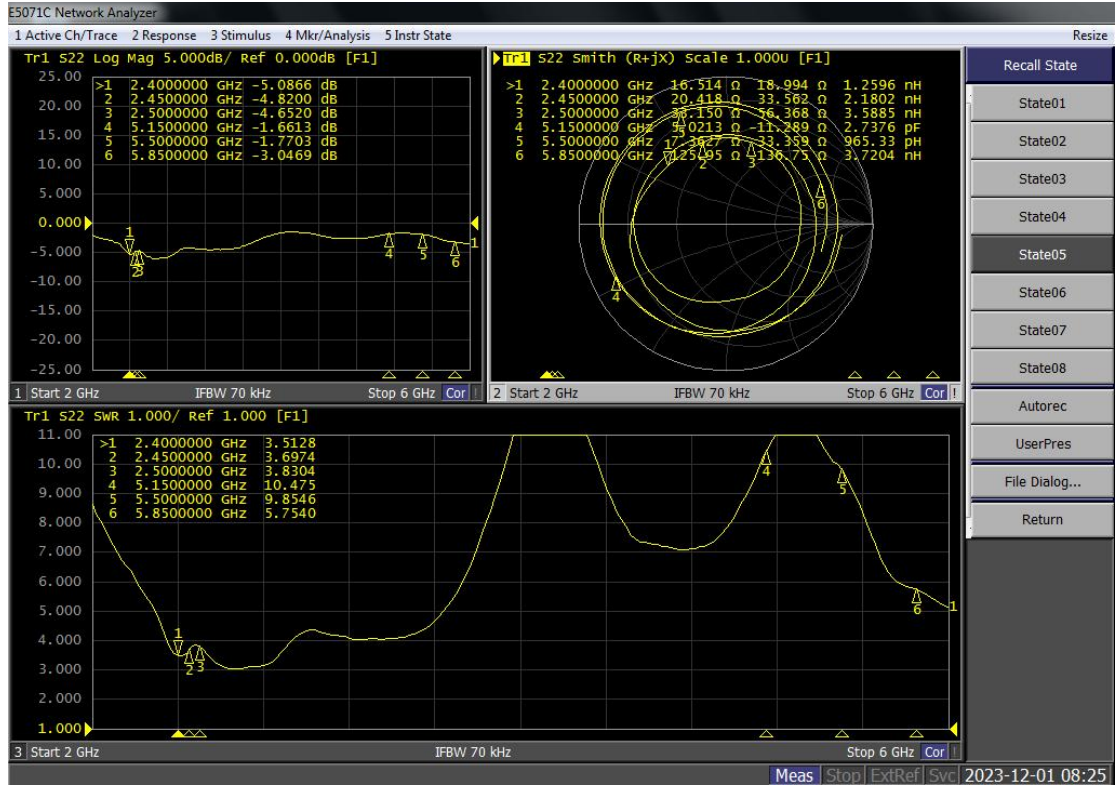
#1



#2



BT



三、无源效率 Antenna Gain

#1

Gain&Efficiency 增益、效率		
frequency 频率(MHz)	gain 增益 (dBi)	efficiency 效率(%)
2400	0.22	50.24
2410	0.37	50.28
2420	0.32	50.54
2430	0.57	51.37
2440	0.61	52.26
2450	0.85	51.47
2460	0.83	51.69
2470	1.12	51.37
2480	0.13	52.22
2490	0.84	52.78
2500	0.79	52.34

Gain&Efficiency 增益、效率		
frequency 频率 (MHz)	gain 增益 (dBi)	efficiency 效率(%)
5150	0.71	49.85
5200	0.52	49.4
5250	0.27	50.95
5300	0.12	51.65
5350	0.28	52.44
5400	0.43	53.2
5450	0.56	52.79
5500	0.64	52.67
5550	0.52	52.45
5600	0.46	52.56
5650	0.35	52.68
5700	0.18	53.46
5750	0.32	53.43
5800	0.59	54.05
5850	0.24	52.51

#2

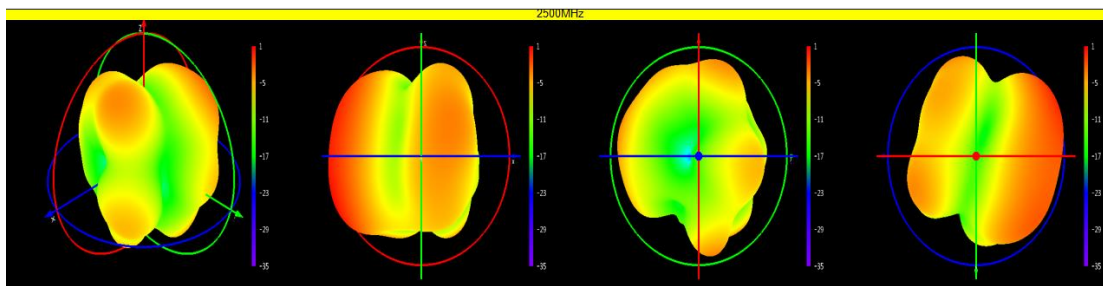
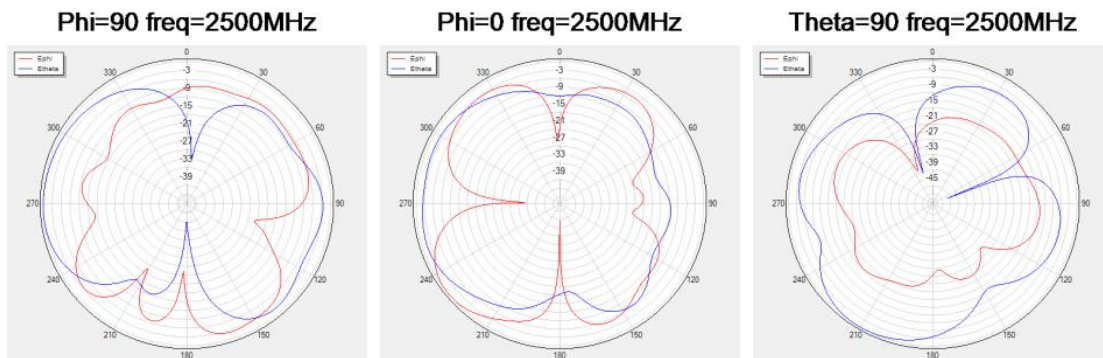
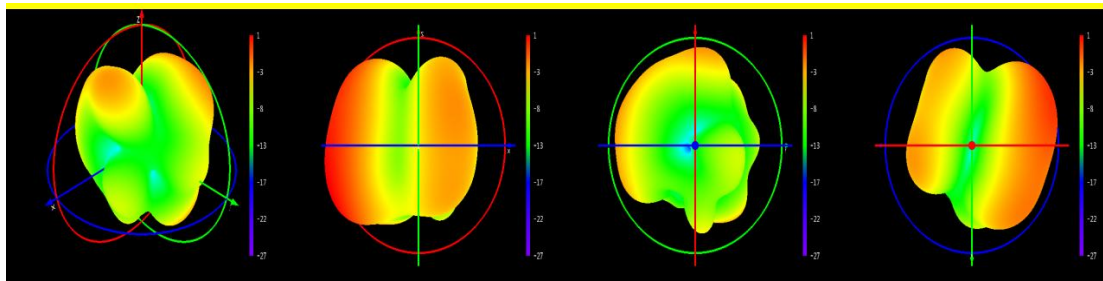
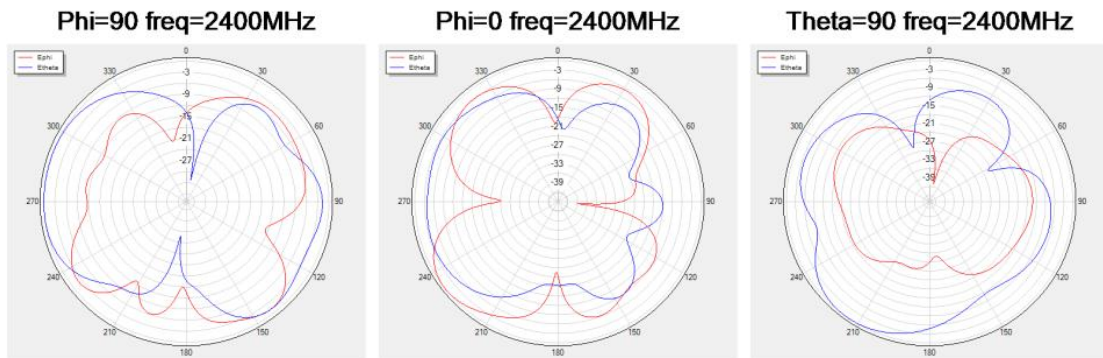
Gain&Efficiency 增益、效率		
frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(%)
2400	0.51	41.21
2410	0.32	41.23
2420	0.11	43.32
2430	0.24	45.41
2440	0.17	48.56
2450	0.21	45.91
2460	0.14	44.11
2470	0.43	45.3
2480	0.62	45.66
2490	0.73	45.72
2500	1.14	44.71

Gain&Efficiency 增益、效率		
frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(%)
5150	-1.72	41.75
5200	-1.31	41.3
5250	-0.82	42.85
5300	-0.64	43.55
5350	-0.42	44.34
5400	-0.35	45.1
5450	-0.43	44.69
5500	-0.44	44.57
5550	-0.83	44.35
5600	-0.85	44.46
5650	-0.64	44.58
5700	-0.52	45.36
5750	-0.56	45.33
5800	-0.14	45.95
5850	-0.31	44.41

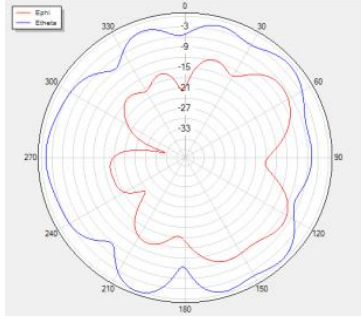
BT

Gain&Efficiency 增益、效率		
frequency 频率(MHz)	gain 增益 (dBi)	efficiency 效率(%)
2400	-1.44	19.21
2410	-1.39	20.23
2420	-1.36	20.14
2430	-1.17	21.41
2440	-1.01	22.56
2450	-0.91	23.91
2460	-0.78	24.11
2470	-0.81	25.3
2480	-0.9	25.66
2490	-1	25.72
2500	-0.92	24.71

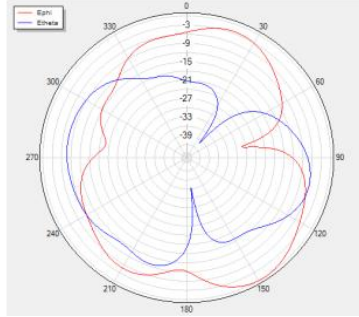
#### 四、2D3D 方向图



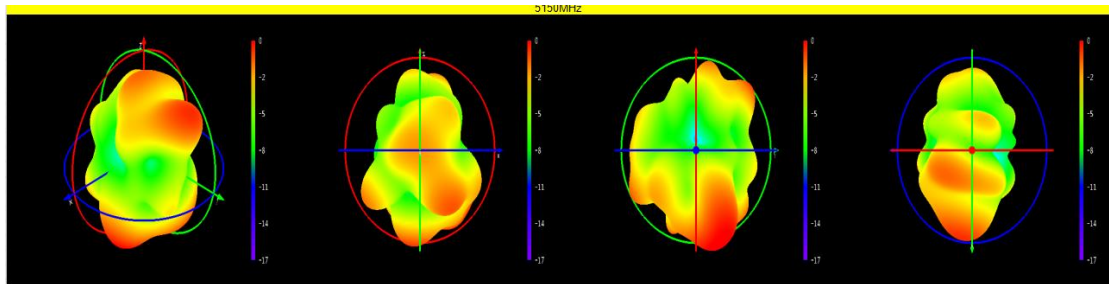
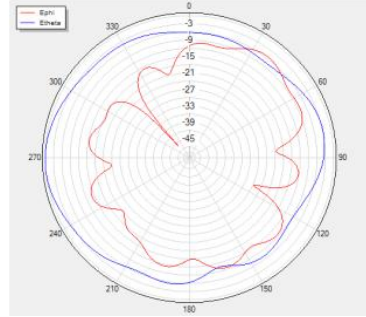
Phi=90 freq=5150MHz



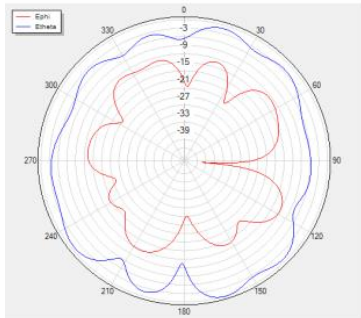
Phi=0 freq=5150MHz



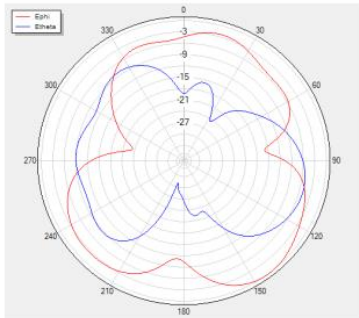
Theta=90 freq=5150MHz



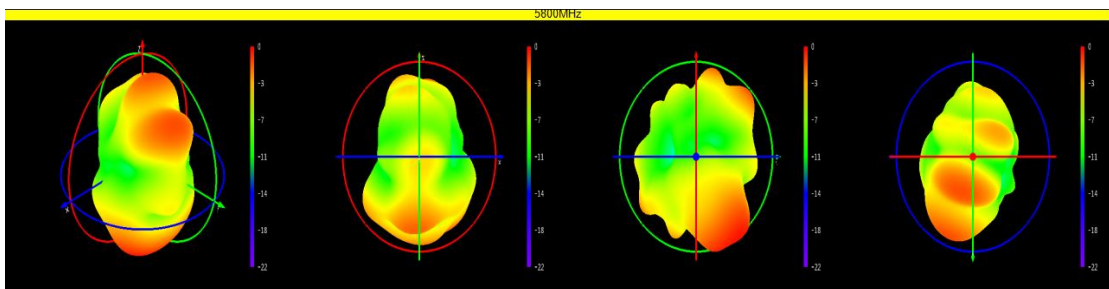
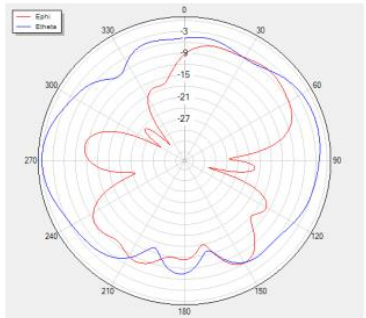
Phi=90 freq=5800MHz



Phi=0 freq=5800MHz

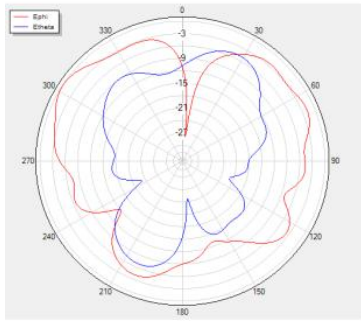


Theta=90 freq=5800MHz

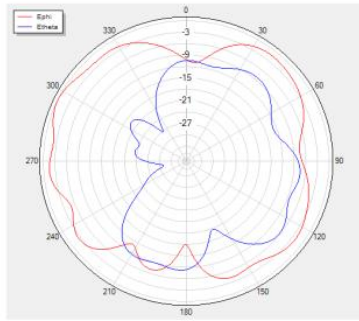




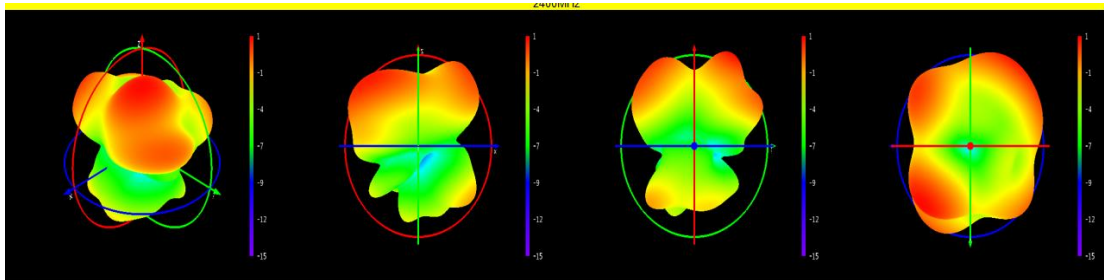
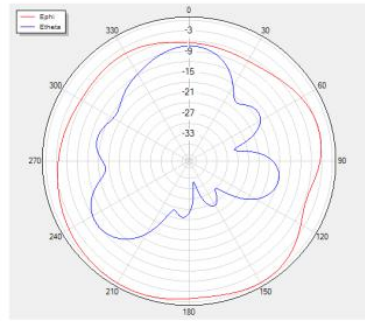
Phi=90 freq=2400MHz



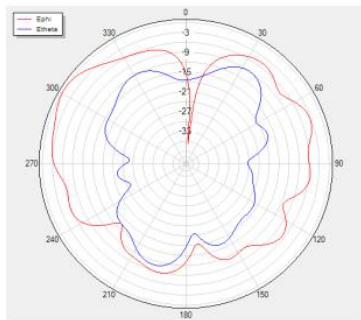
Phi=0 freq=2400MHz



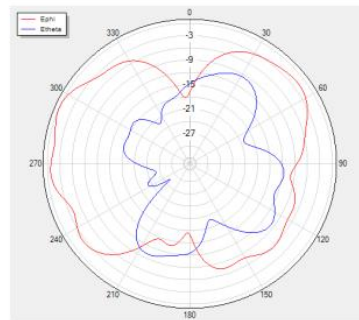
Theta=90 freq=2400MHz



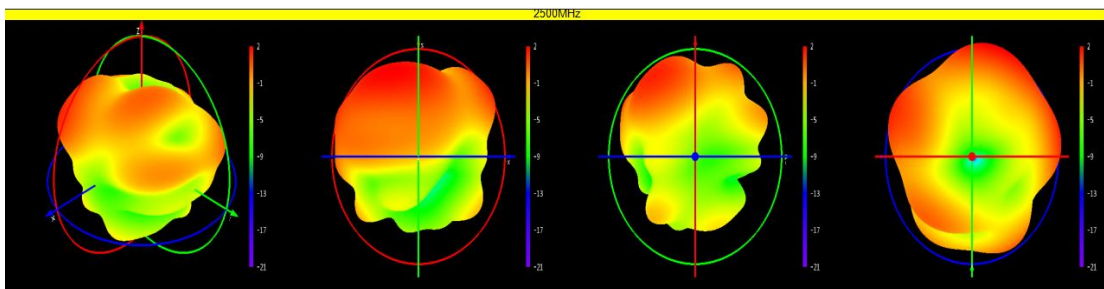
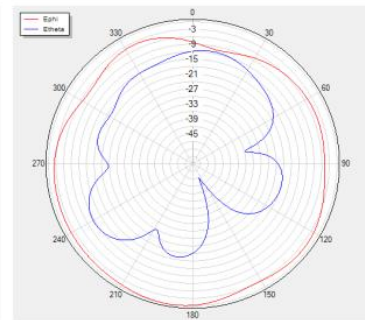
Phi=90 freq=2500MHz



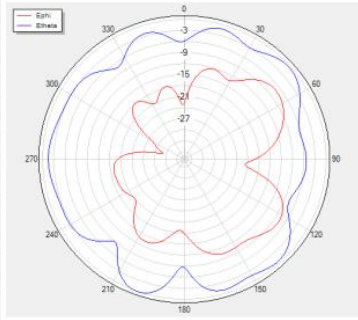
Phi=0 freq=2500MHz



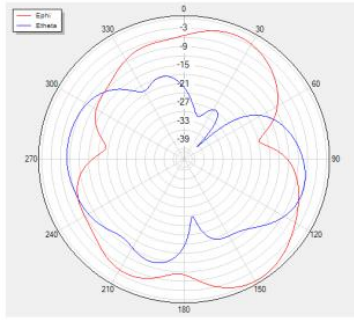
Theta=90 freq=2500MHz



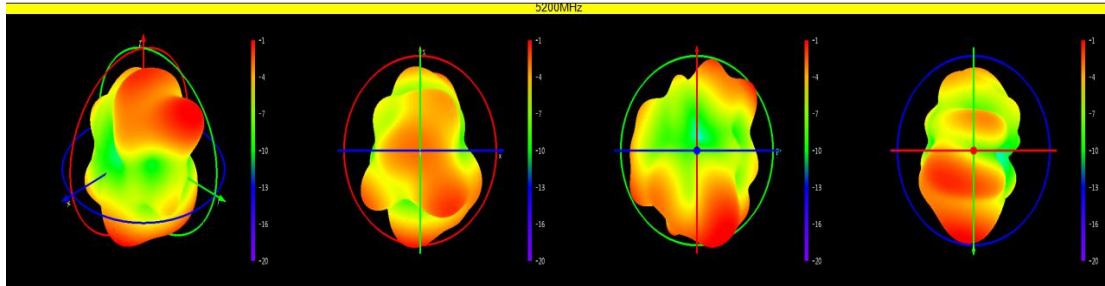
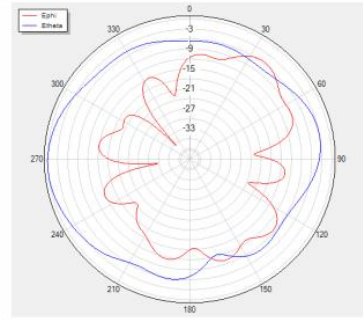
Phi=90 freq=5200MHz



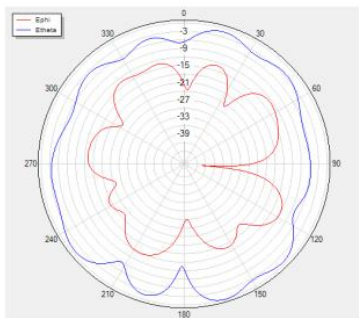
Phi=0 freq=5200MHz



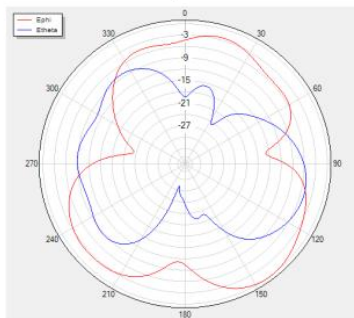
Theta=90 freq=5200MHz



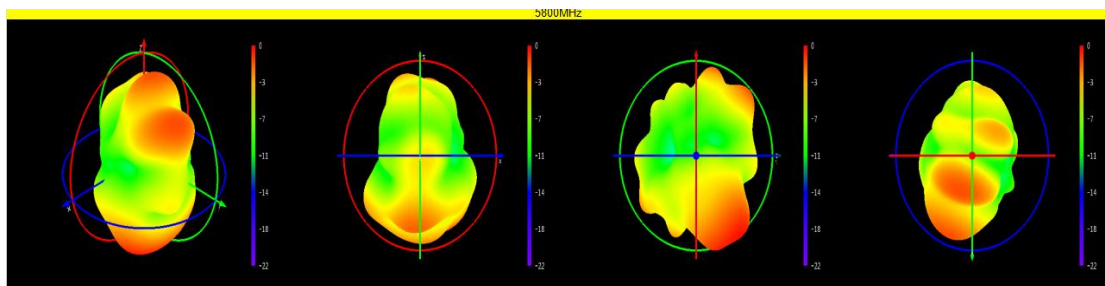
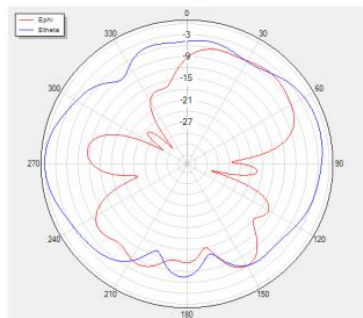
Phi=90 freq=5800MHz



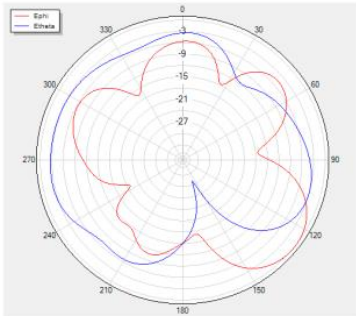
Phi=0 freq=5800MHz



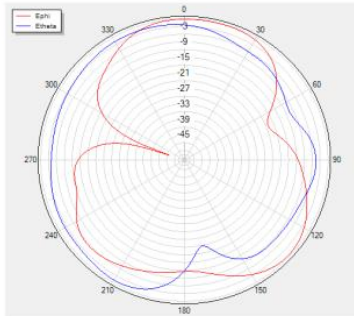
Theta=90 freq=5800MHz



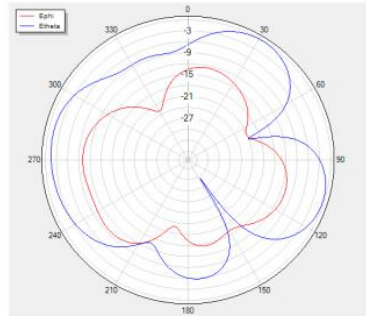
Phi=90 freq=2400MHz



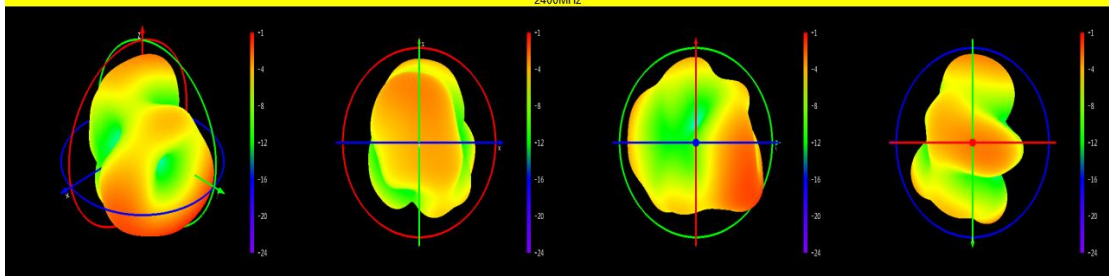
Phi=0 freq=2400MHz



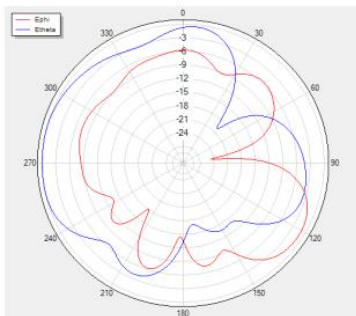
Theta=90 freq=2400MHz



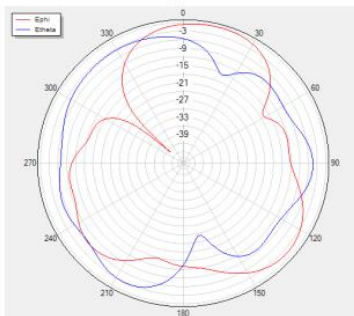
2400MHz



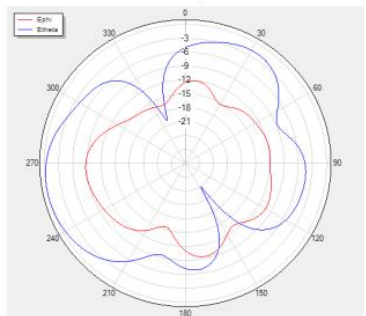
Phi=90 freq=2500MHz



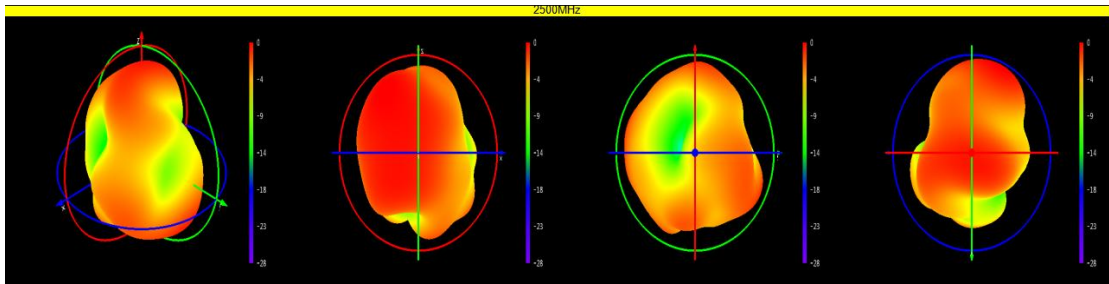
Phi=0 freq=2500MHz



Theta=90 freq=2500MHz



2500MHz



五、有源测试数据

Test mode: 802.11b 11Mbps BW 20M

Test	Wifi 2.4G TRP			Test	Wifi 2.4G TIS		
CH	1	6	13	CH	1	6	13
Frequency (MHz)	2412	2437	2472	Frequency (MHz)	2412	2437	2472
TRP(dBm)	13.29	13.7	13.93	TIS(dBm)	-79.56	-77.27	-78.58

Test mode: 802.11a 54Mbps BW 20M

Test	Wifi 5G TRP			Test	Wifi 5G TIS		
CH	36	100	165	CH	36	100	161
Frequency (MHz)	5180	5500	5825	Frequency (MHz)	5180	5500	5825
TRP(dBm)	16.11	16.18	17.44	TIS(dBm)	-73.39	-73.11	-75.02

深圳市万物相连通讯有限公司

2023.11.30