

2.4G&5.8G内置FPC天线 (AIWF011)

性能参数 PERFORMANCE PARAMETER

1.电气参数 Electrical Characteristics

1	频率范围 Frequency Range	2400-2500MHz ; 5100-5900MHz
2	驻波比 V. S. W. R	<2.2
3	最大增益 Gain	4.3dBi
4	最大效率 Efficiency	61.03%
5	阻抗 Impedence	50 Ω
6	极化方式 Polarization	线极化
7	接口类型 Interface type	一代端子

2.机械参数 Mechanical parameters

1	尺寸 Measure	FPC:42*19.9mm/Cable: 200mm* Φ 1.13mm
2	颜色 Colour	黑

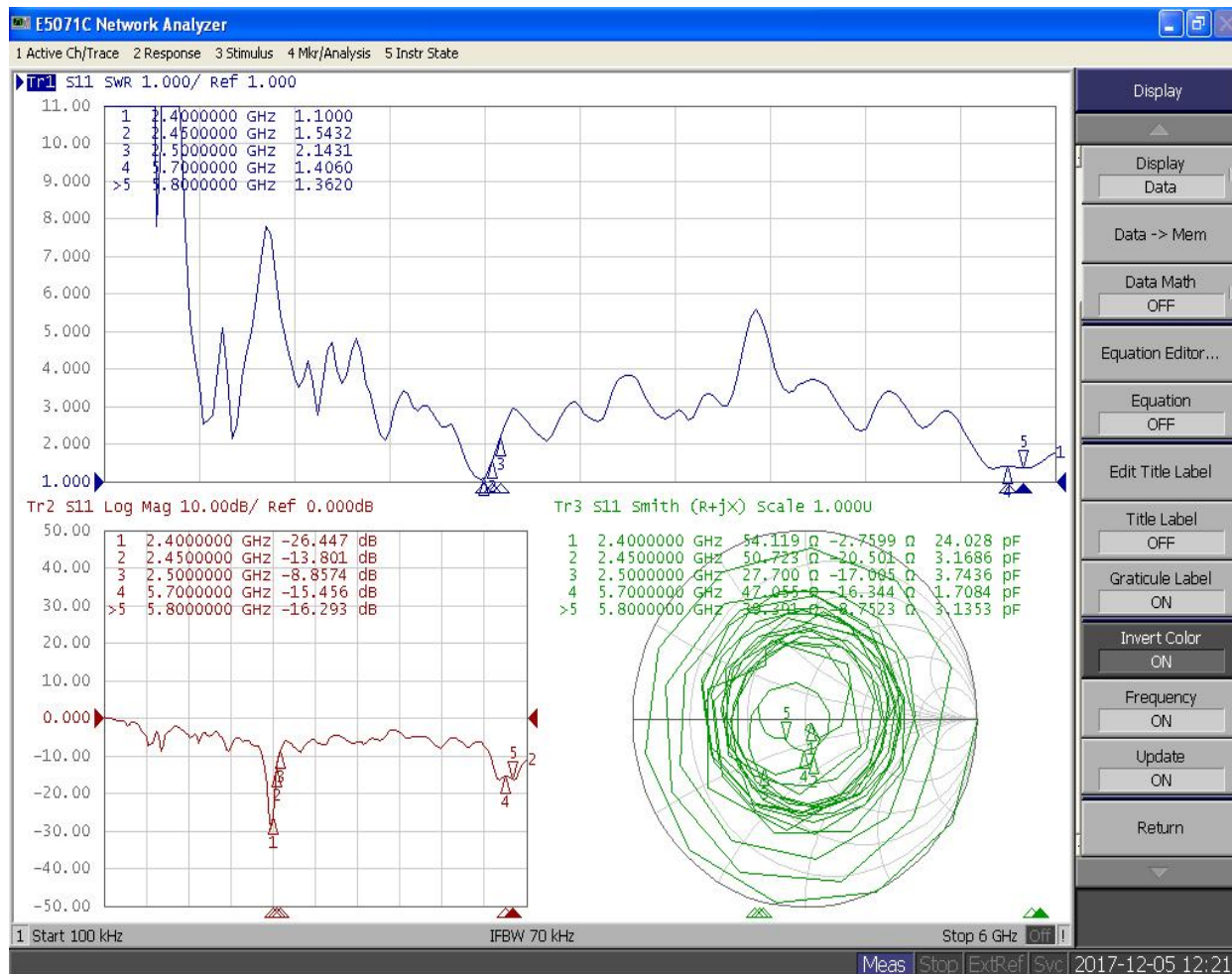
3.环境参数 Environment Condition

1	工作温度 Working Temp	-30℃~80℃
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测试图表 TESTING CURVE

1.性能测试 Performance test

1.1 驻波比 V.S.W.R



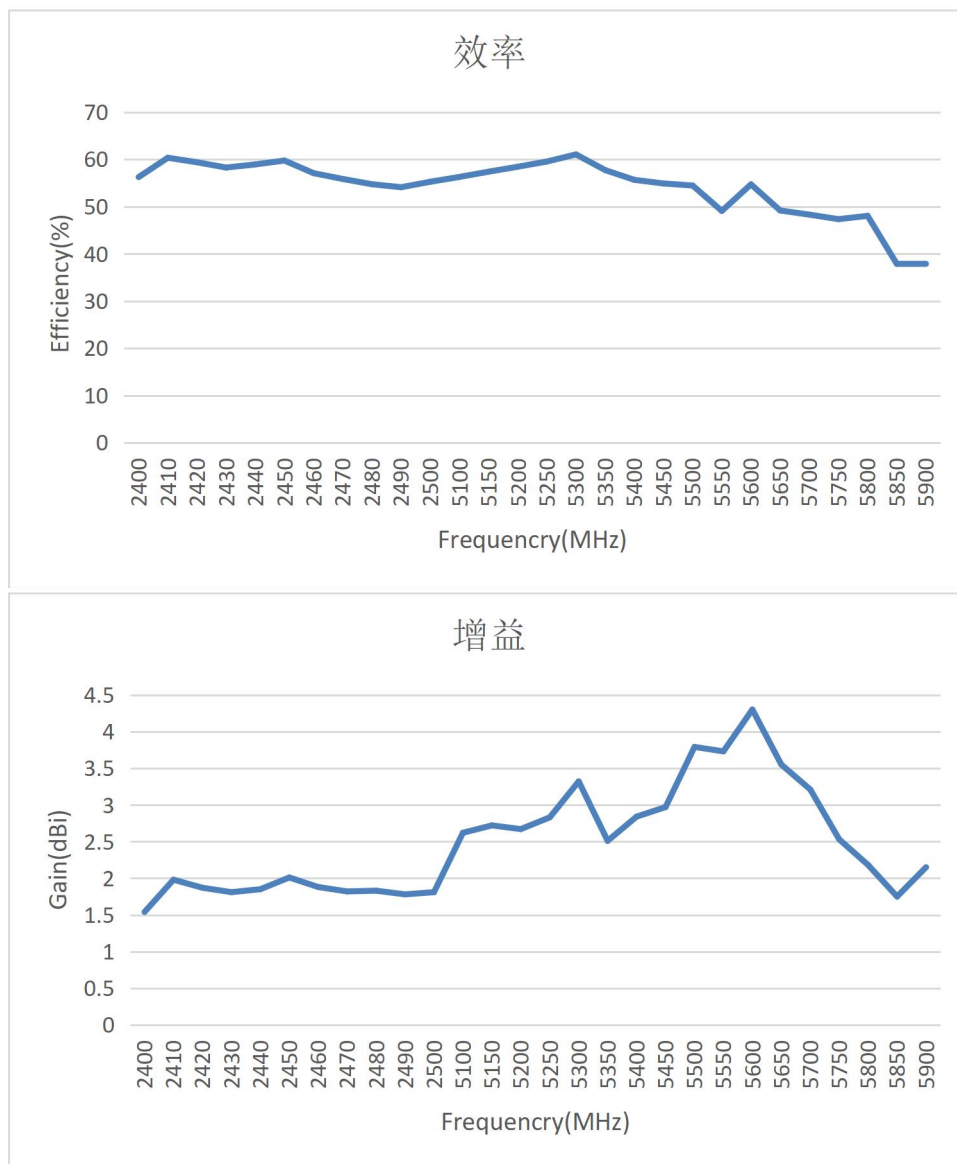
数据表 Data list

Freq	2.4	2.45	2.5	5.7	5.8
VSWR	1.1	1.5	2.1	1.4	1.4

测试图表 TESTING CURVE

2. 无源测试 Passive testing

2.1 效率及增益 Efficiency and Gain



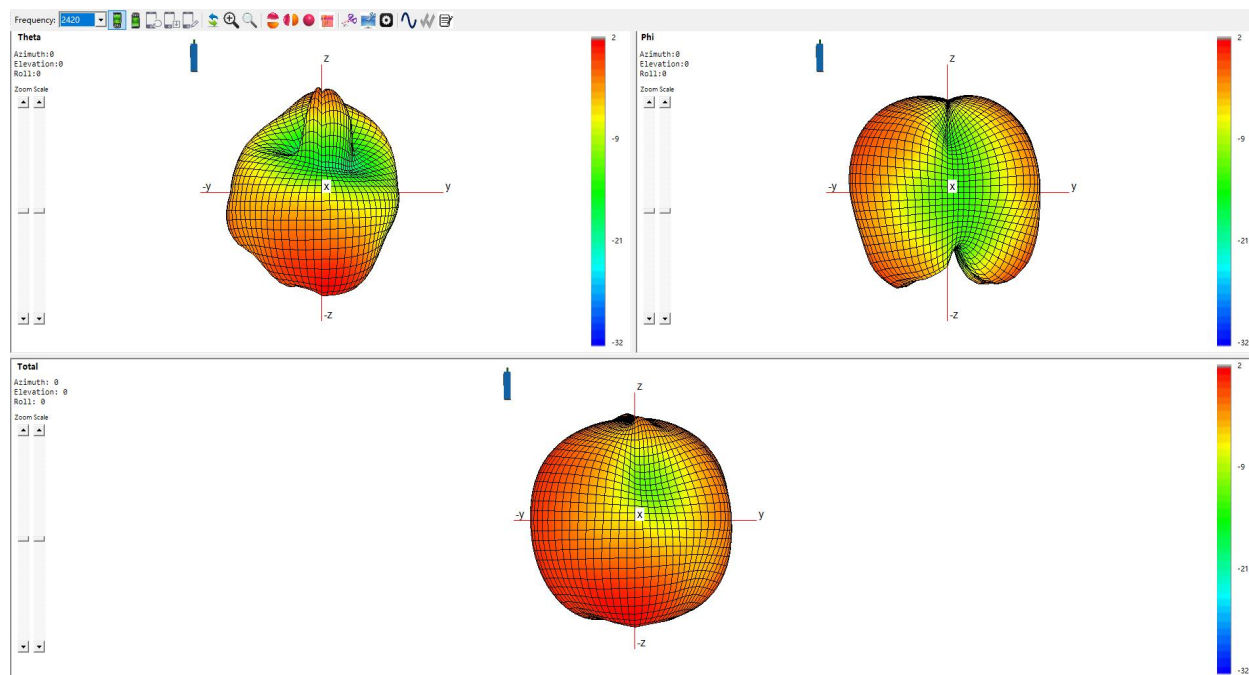
测试图表 TESTING CURVE

效率及增益数据表 Efficiency and Gain Data list

Freq(MHz)	Efficiency(%)	Gain (dBi)	Freq(MHz)	Efficiency(%)	Gain (dBi)
2400	56.23	1.54	5250	59.52	2.83
2410	60.32	1.98	5300	61.03	3.32
2420	59.37	1.87	5350	57.71	2.51
2430	58.25	1.81	5400	55.64	2.84
2440	58.91	1.85	5450	54.88	2.97
2450	59.73	2.01	5500	54.44	3.79
2460	57.06	1.88	5550	49.06	3.73
2470	55.83	1.82	5600	54.69	4.3
2480	54.72	1.83	5650	49.16	3.55
2490	54.08	1.78	5700	48.28	3.21
2500	55.24	1.81	5750	47.32	2.53
5100	56.26	2.62	5800	48.02	2.18
5150	57.37	2.72	5850	37.86	1.75
5200	58.42	2.67	5900	37.86	2.15

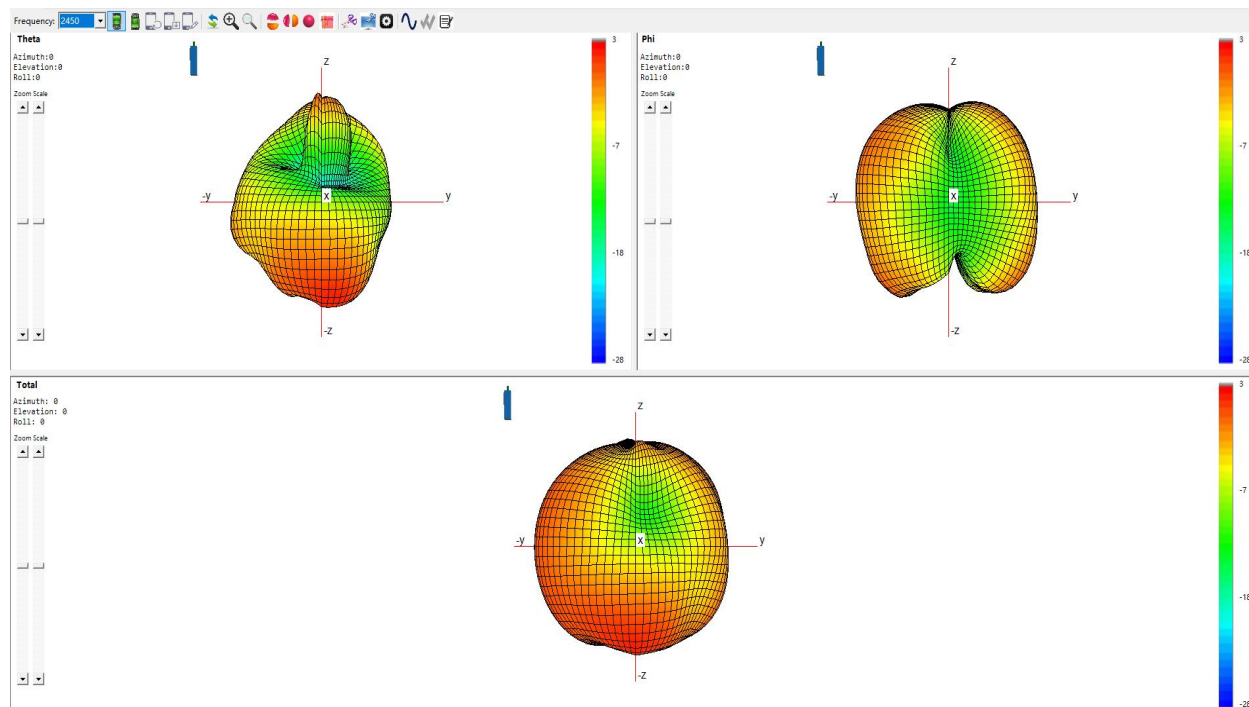
测试图表 TESTING CURVE

2.2 3D 图 3D Map



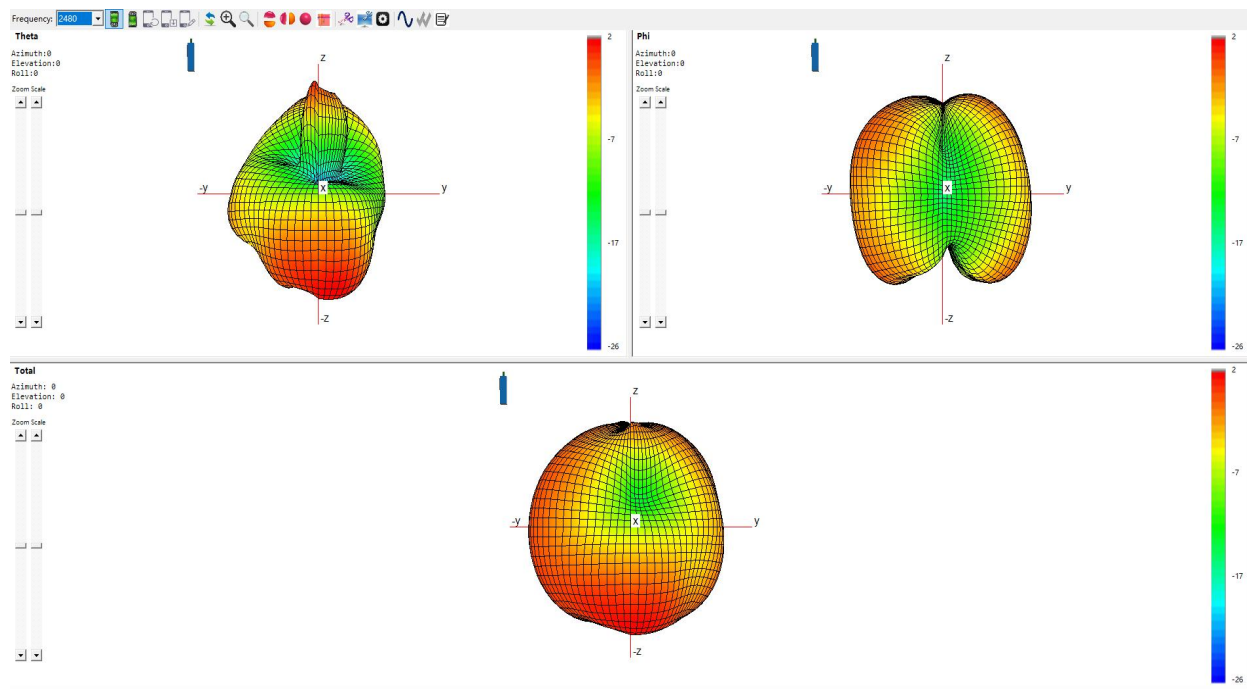
2420MHz

Gain=1.87dBi



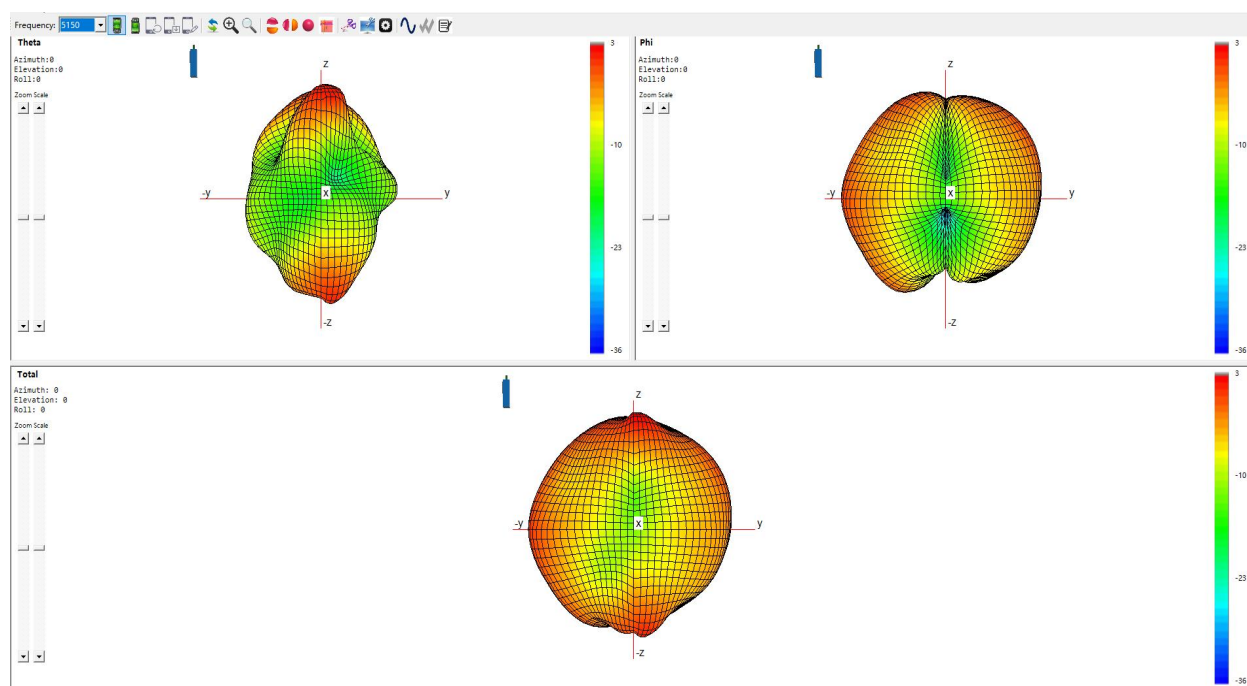
2450MHz

Gain=2.01dBi



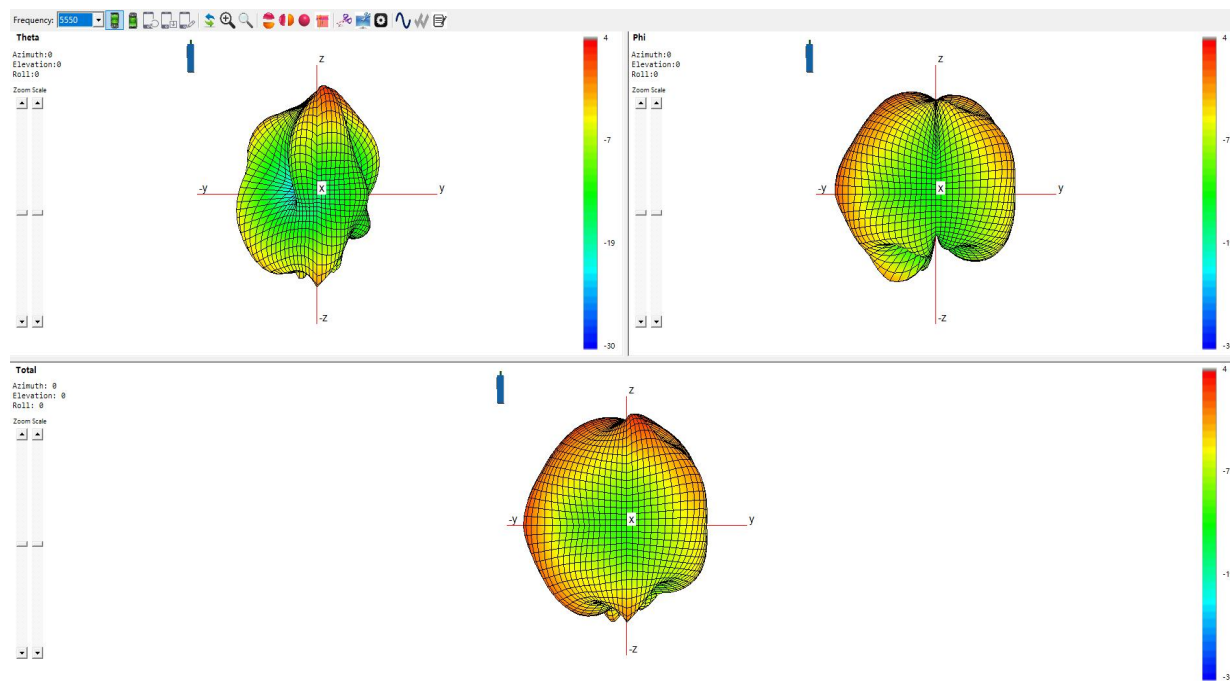
2480MHz

Gain=1.83dBi



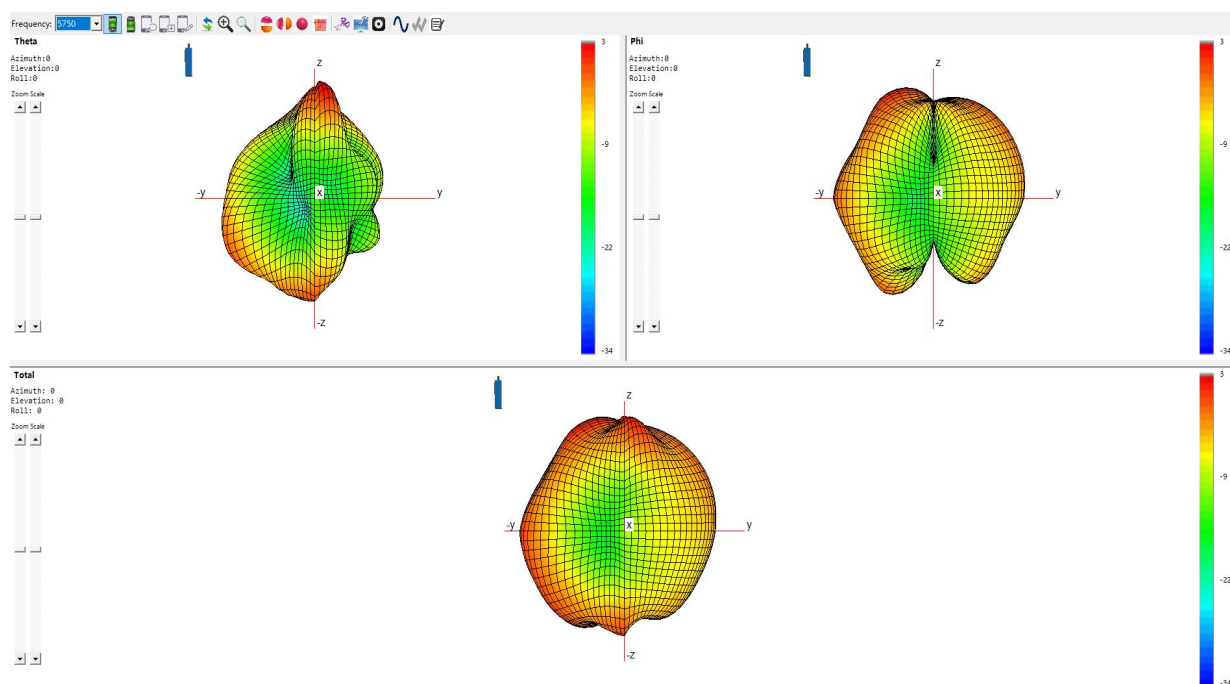
5150MHz

Gain=2.72dBi



5550MHz

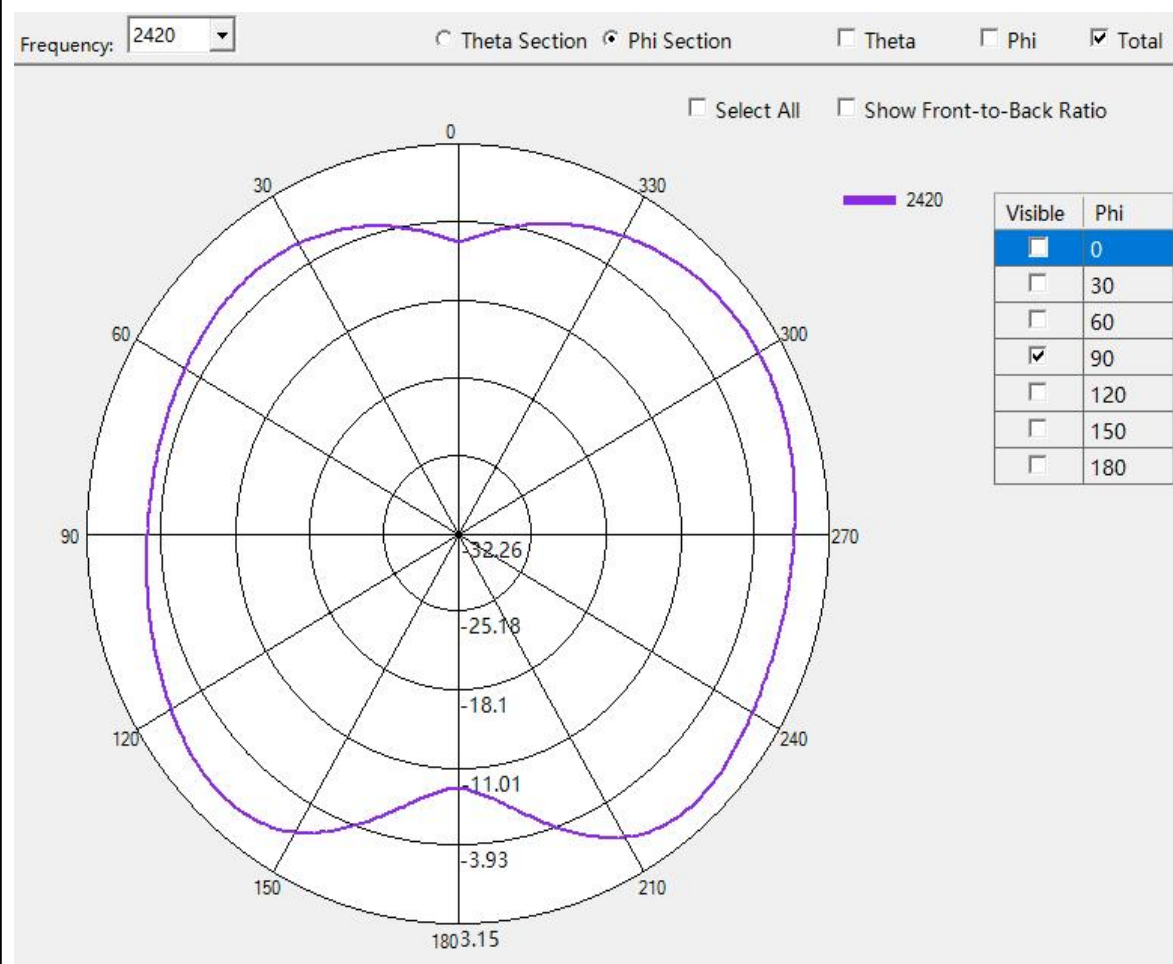
Gain=3.73dBi



5750MHz

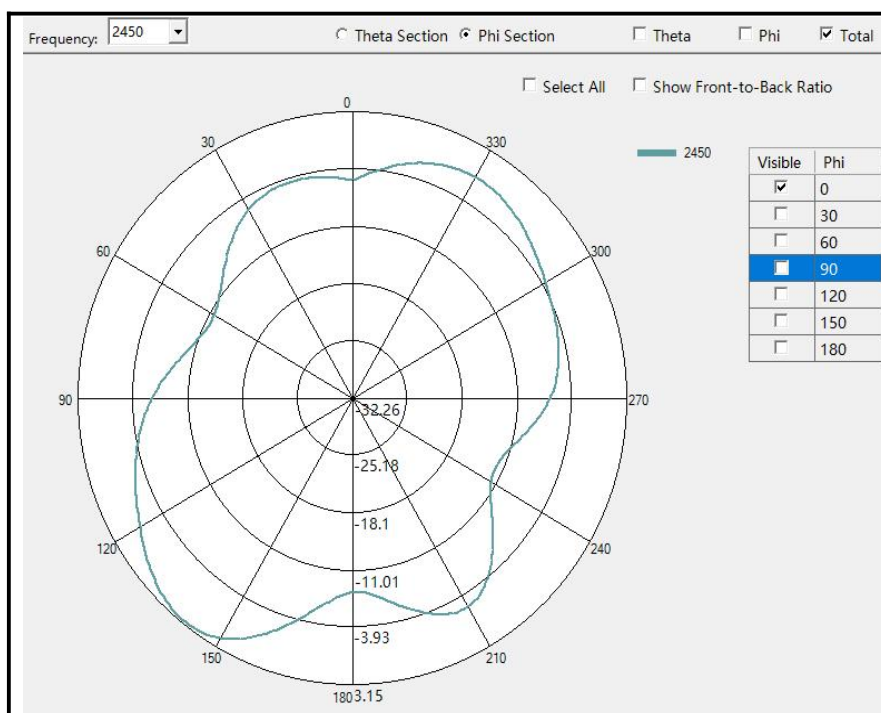
Gain=2.53dBi

2.3 2D 图 2D Figure



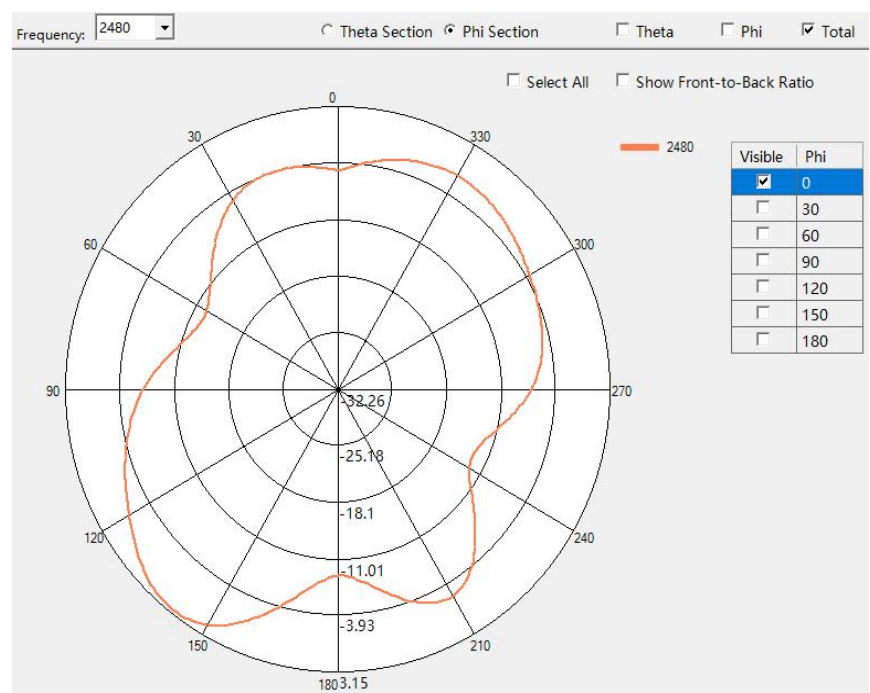
2420MHz

Gain=1.87dBi



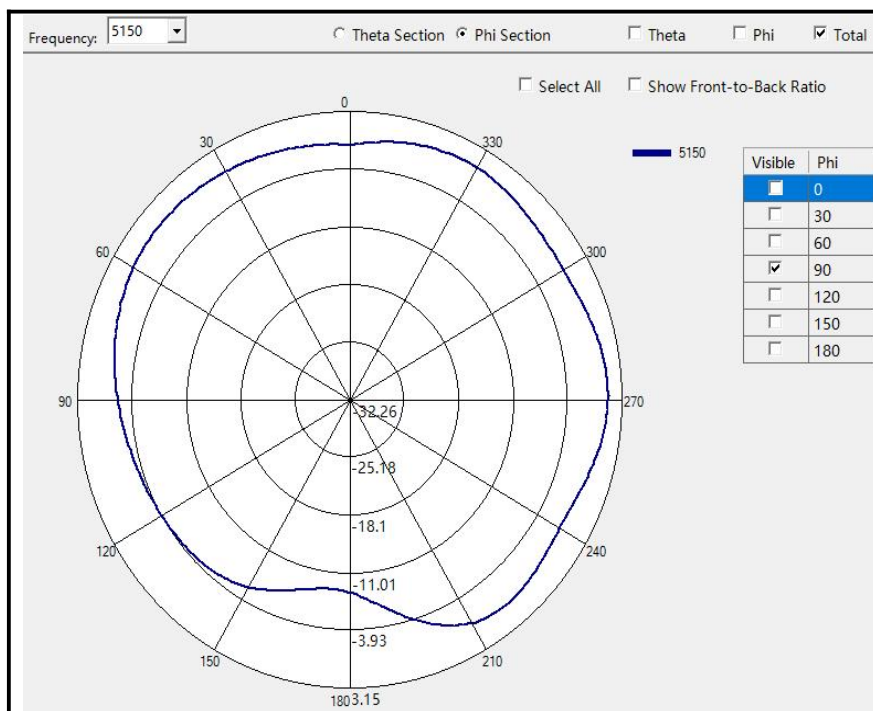
2450MHz

Gain=2.01dBi



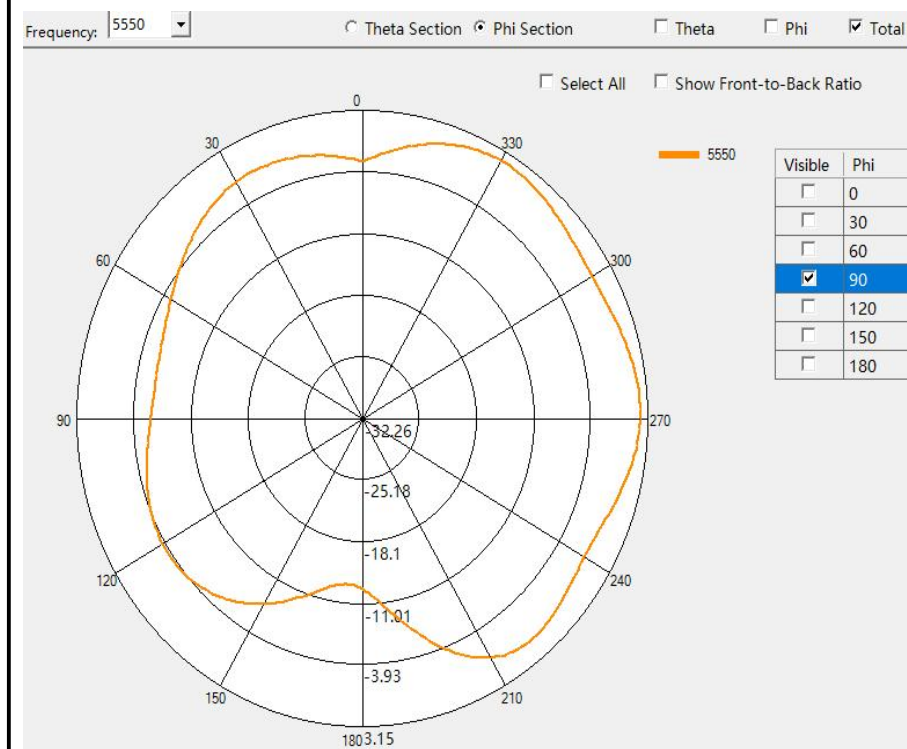
2480MHz

Gain=1.83dBi



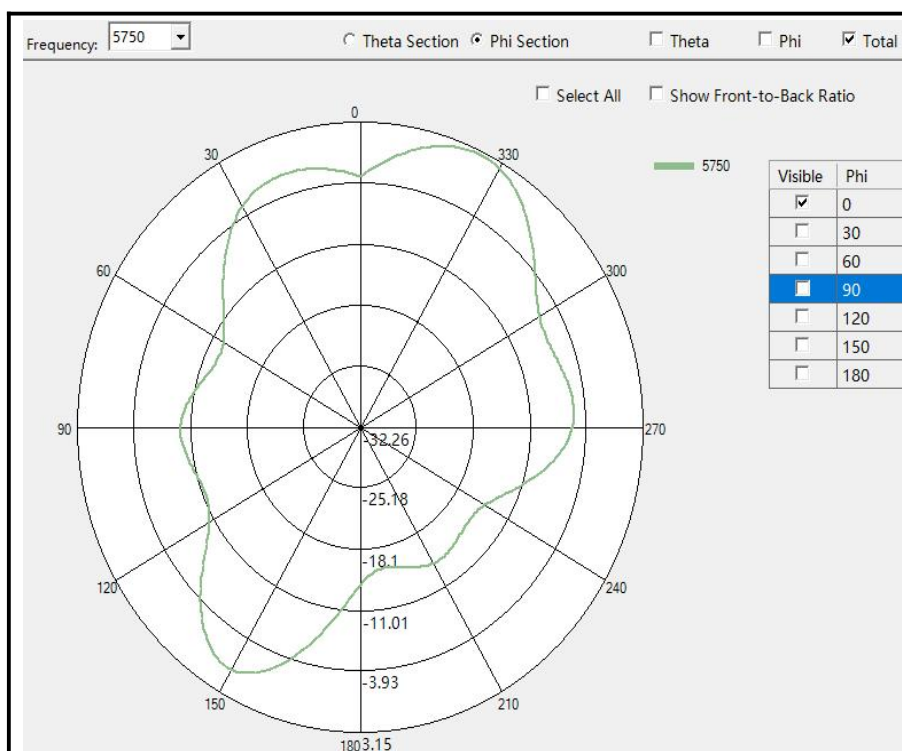
5150MHz

Gain=2.72dBi



5550MHz

Gain=3.73dBi



5750MHz

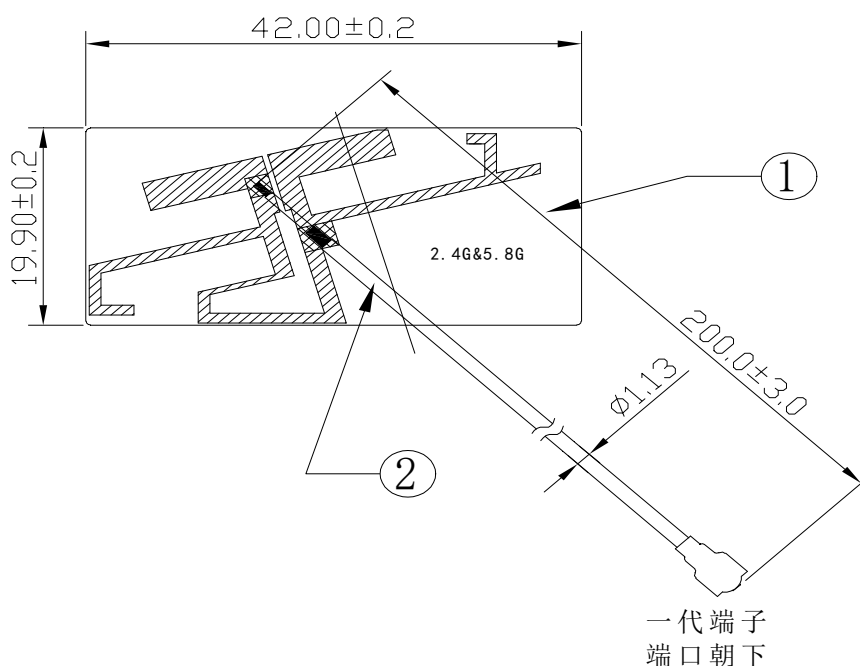
Gain=2.53dBi

3. 有源测试 Active testing (无)

工程图 SCHEDULE DRAWING



No.	Name	Material	Color	Treatment	Amount	Remark
1	2.4G&5.8G FPC		黑色		1	
2	2.4G&5.8G 同轴线		黑色		1	



备注：

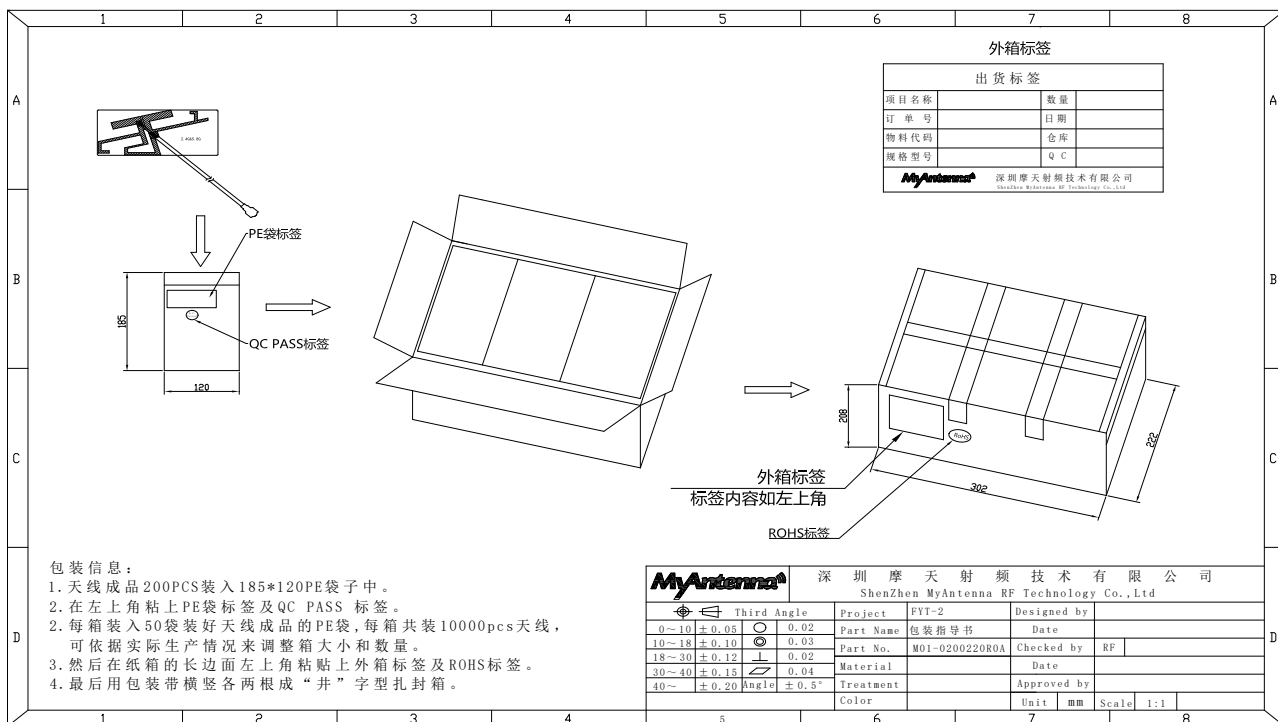
1. 打“*”号的为重点尺寸。
2. 各零件中Pb、Hg、Cr+6、PBBs、PBDEs各项小于500PPM，Cd小于50PPM。



深圳摩天射频技术有限公司
ShenZhen MyAntenna RF Technology Co., Ltd

				Third Angle	Project	FYT-02	Designed by
				0~10 ±0.10	Part Name	2.4G&5.8G天线	Date
				10~18 ±0.15	Part No.	AIWF011	Checked by RF
				18~30 ±0.20	Material		Date
				30~40 ±0.25	DWG No.	00000080	Approved by
				40~ ±0.30 Angle	Unit	mm	Scale 1:1
Rev	Description	Date	Remark	Location			

包装示意图 PACKING DIAGRAM



天线实物图 ANTENNA PHYSICAL DIAGRAM

