



深圳市安特通讯科技有限公司

Shenzhen ANT Communication Technology Co., LTD.

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天 线 规 格 书

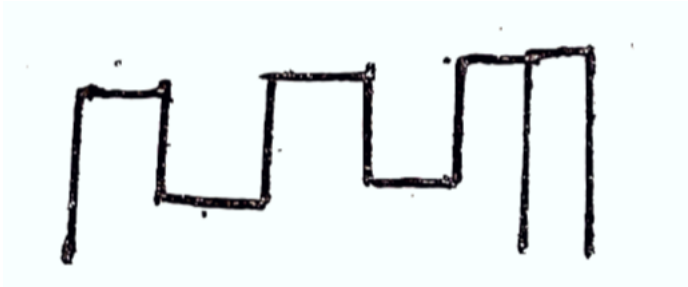
M/M: LW001

规格-型号	料号
WIFI 天线	ANT142411IB58-02

安特会签栏				
研 发	结构：许振洋	审核：程雨明	批准：阳诗海	日 期 ： 2021.08.22
	射频：陈和	审核：吴波		
客户会签栏				
电子工程师	项目经理	结构工程师	品质工程师	

二、产品规格技术参数：

电性能参数	
频率范围	2400-2500MHZ
输入阻抗	50 Ω
驻波比	≤2.5
最大增益	3.77dBi
效率	>35%
极化方式	垂直
辐射方向	全向



Size:0.5+0.25+0.25+0.25+0.25+0.25+0.25+0.25+0.25+0.25+0.25+0.5+0.5=3.5cm

三、测试设备

1. 网络分析仪

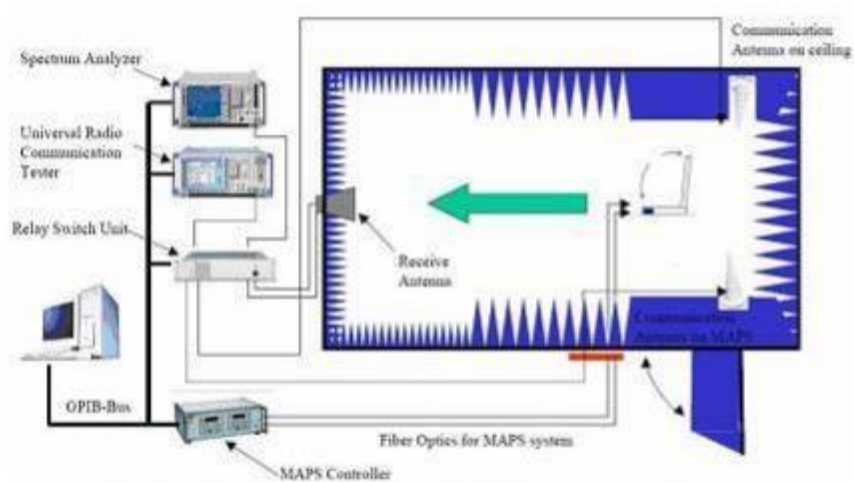
Agilent E5071C

2. 综合测试仪

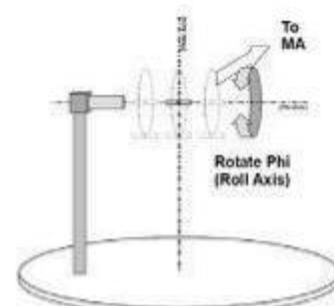
CMW500 Agilent 8960

3. 3D 暗室测试系统

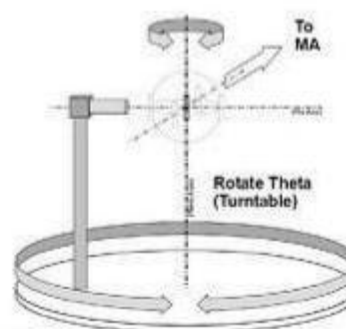
SATIMO-16 XH-24



(Testing by 3D anechoic chamber)



Phi axis test



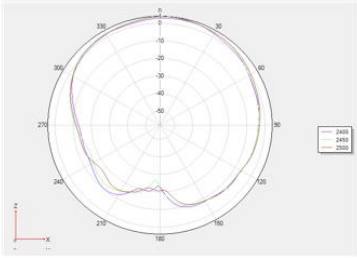
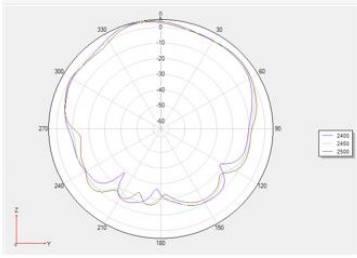
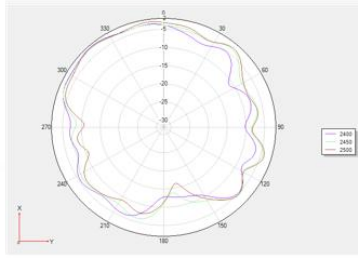
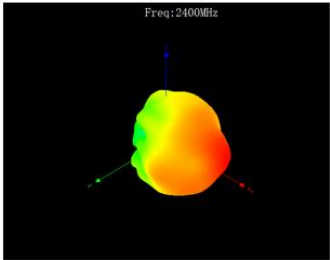
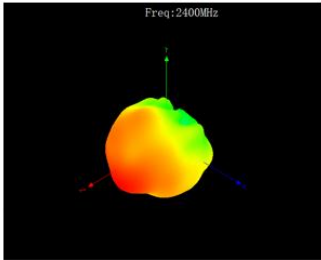
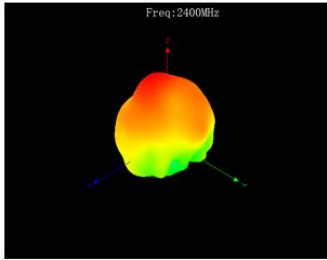
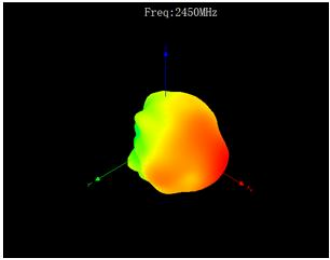
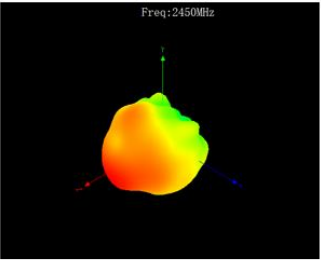
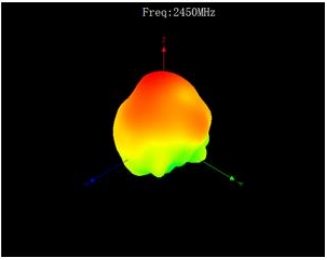
Theta axis test

四、天线测试参数

S-Parameter Test



Passive Test			
Frequency/Mhz	Efficiency/dB	Efficiency/%	MaxGain/dBi
2400	-4.65	34.24	3.4
2410	-3.94	40.4	3.77
2420	-4.75	33.51	3.51
2430	-4.12	38.73	3.15
2440	-4.39	36.41	3.61
2450	-3.81	41.56	3.69
2460	-4.3	37.14	3.56
2470	-4.21	37.89	3.39
2480	-4.21	37.89	3.37
2490	-4.14	38.57	3.21
2500	-4.32	36.99	3.28

2D-Etotal (2400/2450/2500Mhz)		
Phi 0 2D	Phi 90 2D	Theta 90 2D
		
3D-Etotal (2400Mhz)		
		
3D-Etotal (2450Mhz)		
		
3D-Etotal (2500Mhz)		
