



东莞市一佳电子通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd.

# 规格承认书

## SPECIFICATION FOR APPROVAL

日期  
Date 2022/10/24

编号  
File No 22102406

版本  
Revision 1.0

客户  
CUSTOMER: Autel Robotics Co., Ltd.

客户料号  
CUSTOMER NO: 501006481

品名  
PART NAME: 内置WIFI\_L Antenna

供方料号  
SUPPLIER NO: YJI01.005.070.306A


送样日期Date:

送样数量Q “TY:

客户确认CUSTOMER APPROVED BY

APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE

APPROVAL	CHECK	DESIGN
 ChenGuoqiang	XieLi	ChenXingyi

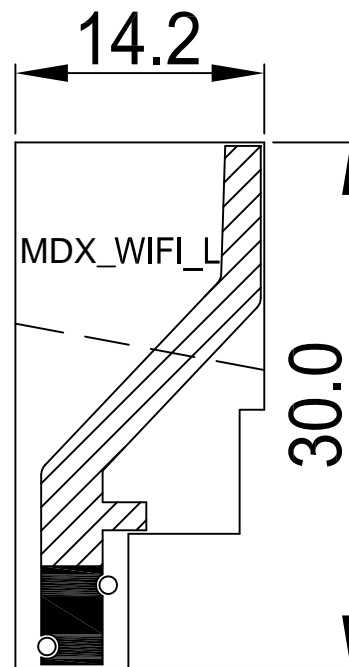
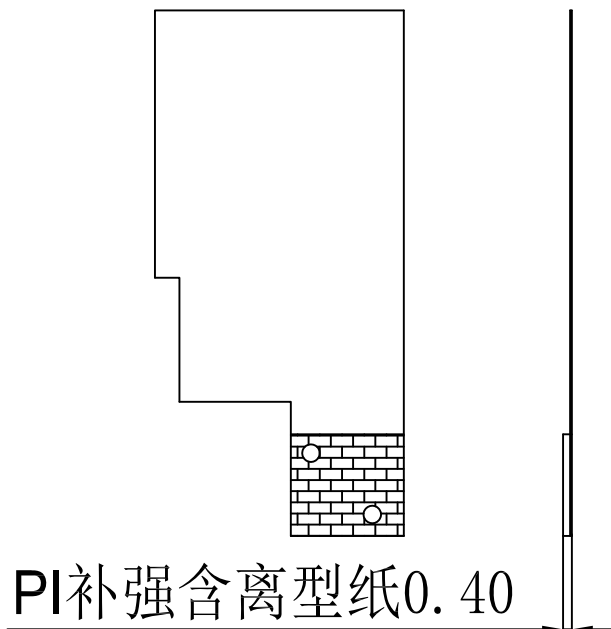
YJ-RD-F04-A

add: 东莞市长安镇沙头社区木鱼路59号元富工业区 Tel:0769-82586086 Fax:0769-82586086

**RoHS**  
Compatible

CUSTOMER	
PART NO	


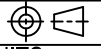
REV.	DESCRIPTION	DATE
△	首次发行	2022-10-24
△		



 布線區  
  露铜区  
  补强区

备注:

1. 材质：一对半PI基材，铜箔厚度0.5oz，成品厚度不含离型纸：0.1mm。
2. 颜色/表面处理：单面黑色油墨、白色丝印。  
露铜区镀金处理，反面3M9471背胶、离型纸带分割线。
3. 尺寸：带\*为重点尺寸。
4. 公差：未标注公差参照标准公差。

 东莞市一佳电子通讯科技有限公司 Dongguan YiJia Electronics Communication Technology Co.,Ltd. Tel:0769-82586086 Fax:0769-82586086			
PART NAME: WIFI Antenna			
PART NO.: YJI01.005.070.306A		DATE: 2022-10-24	
APPROVED BY	CHECKED BY	DESIGNED BY	 Tolerance X.X ±0.50 X.XX±0.15 X° ±3°
殷涛	黄志林	陈兴易	
UNITS: mm			
SCALE: 1/1			
REVISION: C			



# 天线规格

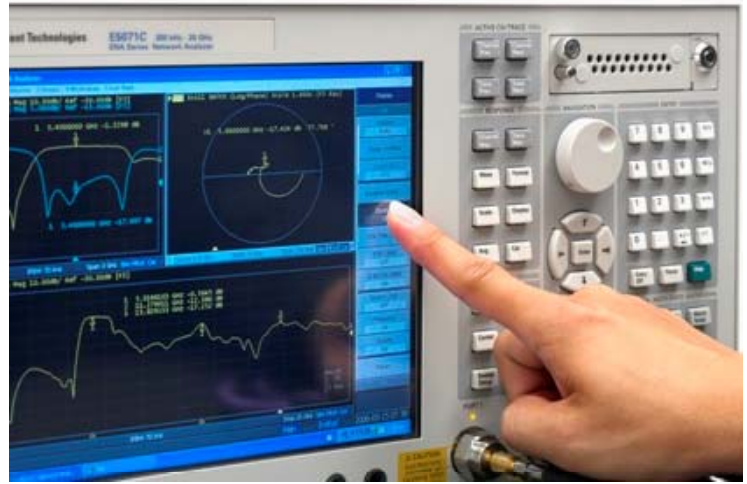
## Antenna Specification

<b>Electrical Properties</b>	
Frequency	2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max@2.4-2.5GHz 2.5 Max@5.15-5.85GHz
Gain	2.1 dBi@2.4-2.5GHz 4.0 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear
<b>Physical Properties</b>	
Connector	None
Cable Type	None
Cable Length	None
Cable Color	None
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25 ± 5 °C / <70%

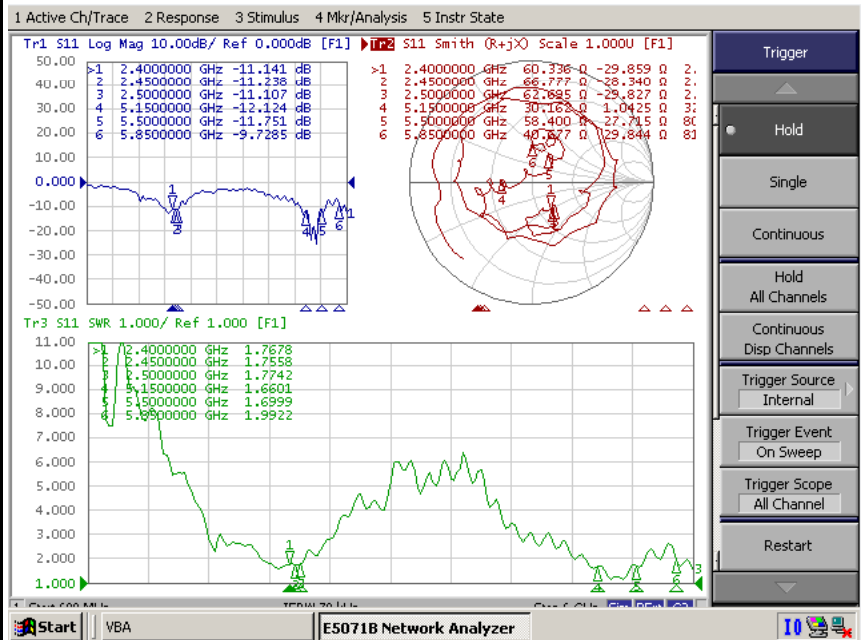


# Antenna Performance Test

**Agilent  
E5071B**

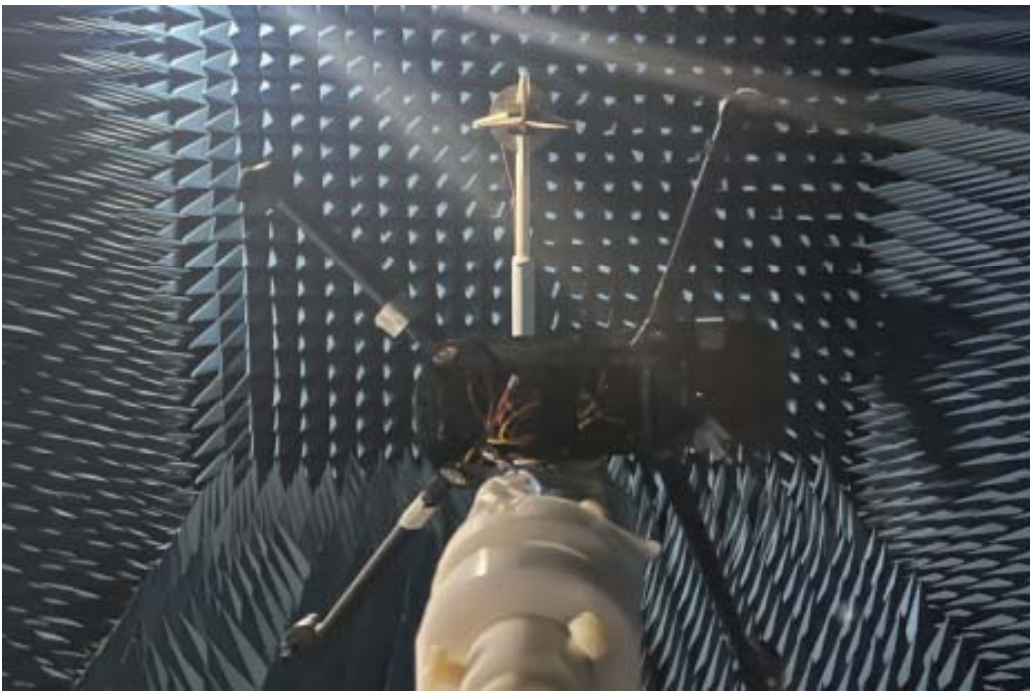


**S  
Parameter  
Test //  
内置WIFI\_L  
Antenna**





## *Antenna Passive Test*





Passive Test For WiFi Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	37.2	-4.3	0.5
2410	37.1	-4.3	0.7
2420	37.7	-4.2	1.0
2430	37.8	-4.2	1.0
2440	38.6	-4.1	1.2
2450	39.3	-4.1	1.5
2460	39.7	-4.0	1.5
2470	41.0	-3.9	1.5
2480	40.3	-4.0	1.6
2490	40.3	-4.0	1.9
2500	38.1	-4.2	2.1



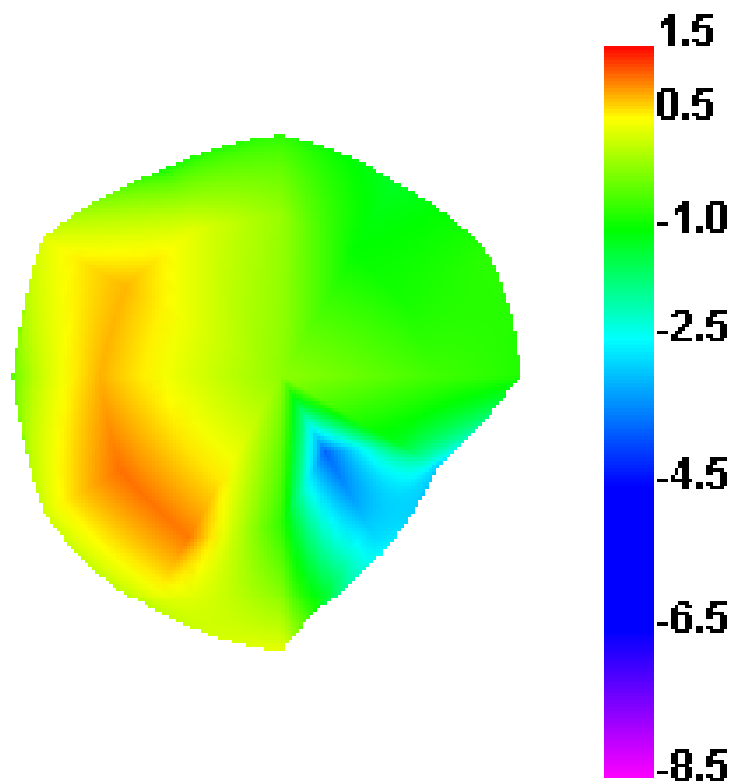
### Passive Test For WiFi Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	41.8	-3.8	1.5
5200	47.2	-3.3	2.0
5250	49.3	-3.1	2.6
5300	52.1	-2.8	2.9
5350	52.3	-2.8	2.7
5400	49.9	-3.0	2.6
5450	47.1	-3.3	2.4
5500	46.0	-3.4	2.1
5550	45.6	-3.4	1.9
5600	50.3	-3.0	2.0
5650	69.9	-1.6	3.5
5700	66.1	-1.8	4.0
5750	61.6	-2.1	3.7
5800	54.9	-2.6	3.4
5850	53.8	-2.7	3.1



## Radiation Patten For 2450MHz

**2450.000MHz**

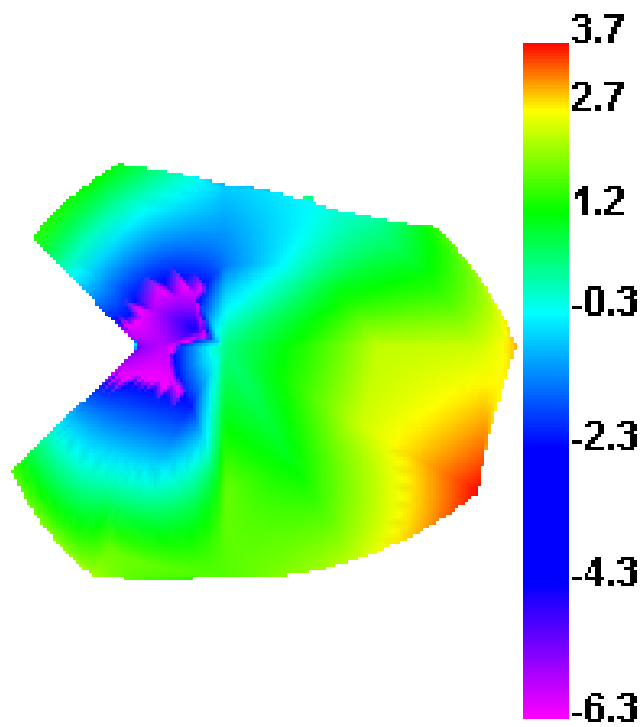






## Radiation Patten For 5750MHz

**5750.000MHz**





东莞市一佳电子通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd.

# 规格承认书

## SPECIFICATION FOR APPROVAL

日期  
Date

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编号  
File No

22102408

版本  
Revision

1.0

客户  
CUSTOMER: Autel Robotics Co., Ltd.

客户料号  
CUSTOMER NO: 501006482

品名  
PART NAME: 内置WIFI\_R Antenna


供方料号  
SUPPLIER NO: YJI01.005.070.308A

送样日期Date: 送样数量Q “TY:

### 客户确认CUSTOMER APPROVED BY

APPROVAL	CHIEF	SUPERVISOR

### 供方确认 SUPPLIER SIGNATURE

APPROVAL	CHECK	DESIGN
 ChenGuoqiang	XieLi	ChenXingyi

YJ-RD-F04-A

add: 东莞市长安镇沙头社区木鱼路59号元富工业区 Tel:0769-82586086 Fax:0769-82586086

RoHS

Compatible

CUSTOMER  
PART NO

REV.

DESCRIPTION

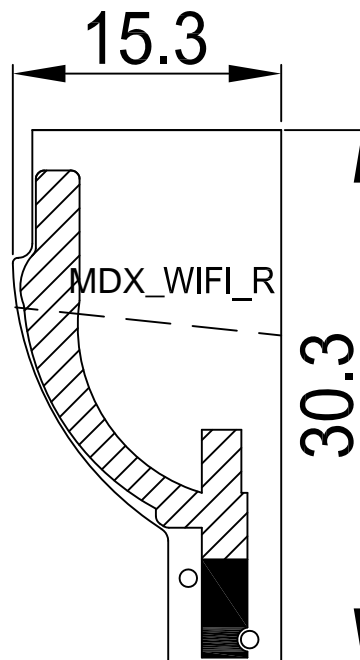
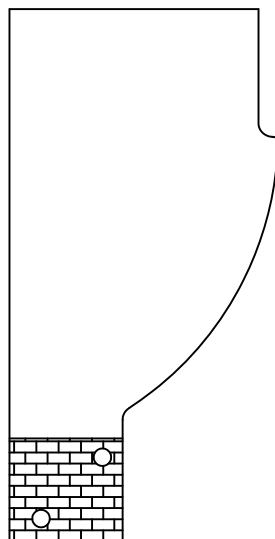
DATE

△

首次发行

2022-10-24

△



PI补强含离型纸0.40

布線區 露铜区 补强区

备注:

1. 材质：一对半PI基材，铜箔厚度0.5oz，成品厚度不含离型纸：0.1mm。
2. 颜色/表面处理：单面黑色油墨、白色丝印。露铜区镀金处理，反面3M9471背胶、离型纸带分割线。
3. 尺寸：带\*为重点尺寸。
4. 公差：未标注公差参照标准公差。



东莞市一佳电子通讯科技有限公司

Dongguan YiJia Electronics Communication Technology Co.,Ltd. Tel.:0769-82586086 Fax:0769-82586086

PART NAME: WIFI Antenna

PART NO.: YJ101.005.070.308A

DATE: 2022-10-24

APPROVED BY

CHECKED BY

DESIGNED BY



Tolerance

殷涛

黄志林

陈兴易

UNITS: mm

X.X ±0.50

SCALE: 1/1

X.XX±0.15

REVISION: C

X° ±3°



# 天线规格

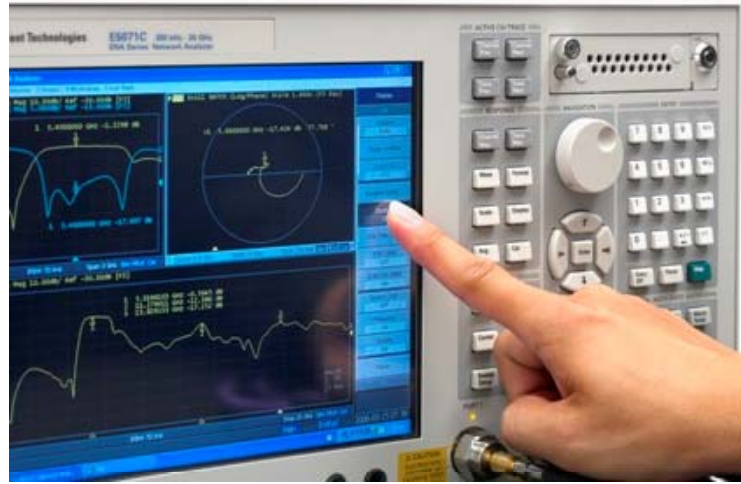
## Antenna Specification

<b>Electrical Properties</b>	
Frequency	2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max@2.4-2.5GHz 3.0 Max@5.15-5.85GHz
Gain	2.2 dBi@2.4-2.5GHz 3.1 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear
<b>Physical Properties</b>	
Connector	None
Cable Type	None
Cable Length	None
Cable Color	None
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25 ± 5 °C / <70%

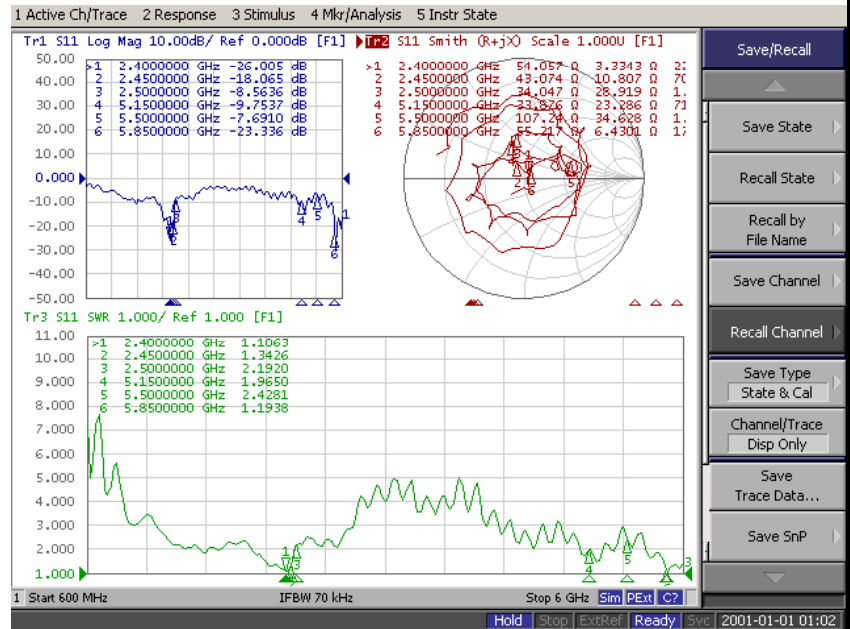


# Antenna Performance Test

**Agilent  
E5071B**

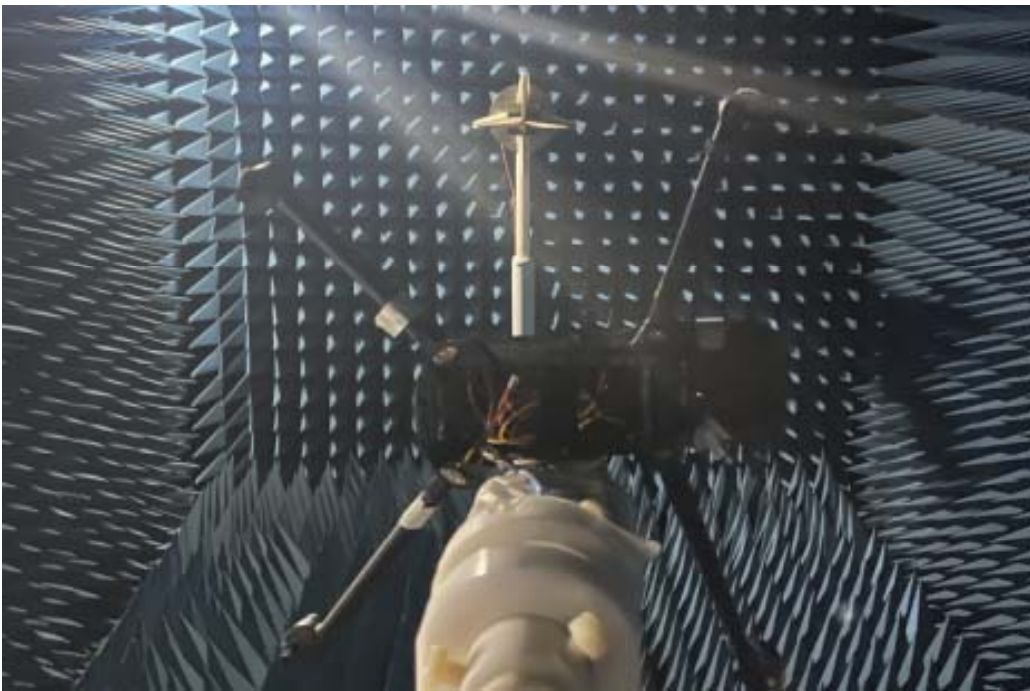


**S  
Parameter  
Test //  
内置WIFI\_R  
Antenna**





## *Antenna Passive Test*





### Passive Test For WIFI Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	48.7	-3.1	2.1
2410	49.1	-3.1	2.1
2420	46.6	-3.3	2.2
2430	46.6	-3.3	1.9
2440	46.9	-3.3	1.8
2450	47.4	-3.2	1.7
2460	47.6	-3.2	1.3
2470	47.6	-3.2	0.7
2480	45.7	-3.4	0.1
2490	44.8	-3.5	-0.7
2500	45.8	-3.4	-1.2



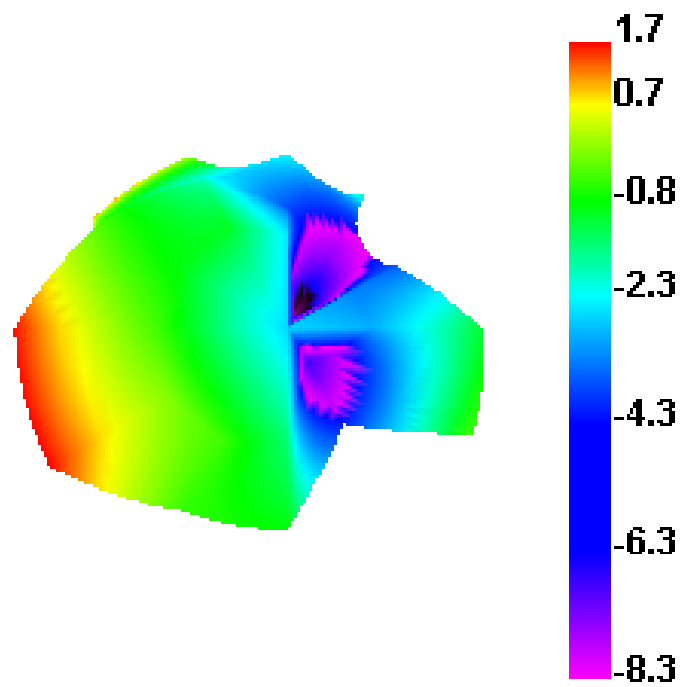
Passive Test For WiFi Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	27.9	-5.5	-0.4
5200	27.7	-5.6	-0.5
5250	29.4	-5.3	-0.4
5300	33.8	-4.7	0.2
5350	34.5	-4.6	0.5
5400	32.6	-4.9	0.2
5450	31.4	-5.0	-0.4
5500	35.5	-4.5	-0.3
5550	39.4	-4.0	0.5
5600	46.2	-3.4	1.4
5650	66.2	-1.8	3.1
5700	63.0	-2.0	3.1
5750	60.3	-2.2	2.9
5800	52.1	-2.8	2.0
5850	49.1	-3.1	1.9





## Radiation Patten For 2450MHz

**2450.000MHz**





## Radiation Patten For 5750MHz

**5750.000MHz**

