



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

2024/01/05

编号
File No

24010501

版本
Revision

1.0

客户
CUSTOMER:

Autel Robotics Co.,Ltd.

客户料号
CUSTOMER NO:

501007936

品名
PART NAME:

WIFI_R Antenna

供方料号
SUPPLIER NO:

YJI01.005.098.301A

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

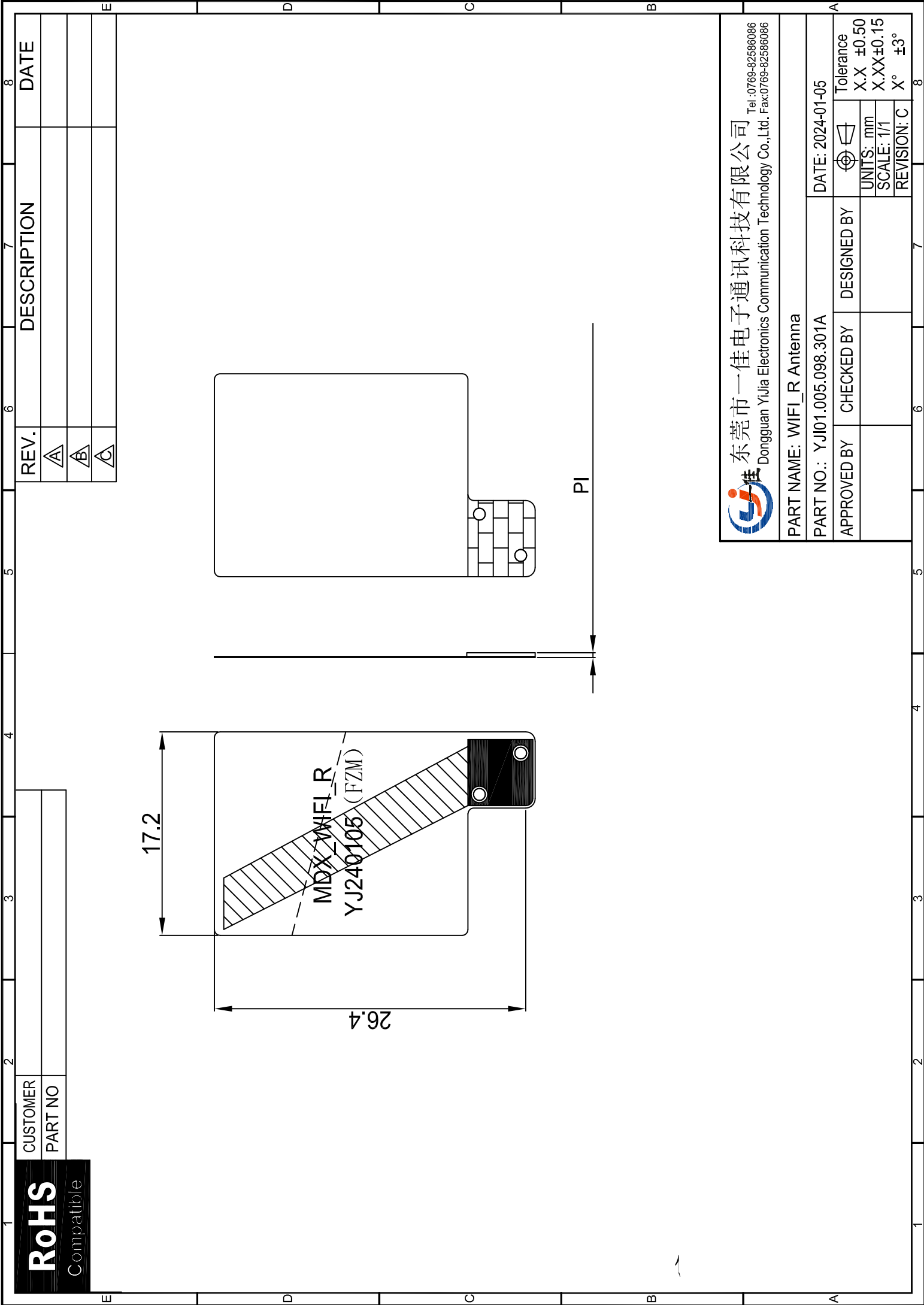
add:Yuanfu Industrial Zone, 59 Muyu Road, Shatou Community, Changan Town, Dongguan City

Tel:0769-82586086 Fax:0769-82586086



承认书项目表

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13	-	-	-



RoHS
Compatible

CUSTOMER
PART NO

REV.	DESCRIPTION	DATE
A		
B		
C		



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
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PART NAME: WIFI_R Antenna

PART NO.: YJ101.005.098.301A

DATE: 2024-01-05

APPROVED BY	CHECKED BY	DESIGNED BY	Tolerance
			X.X ±0.50
			UNITS: mm
			SCALE: 1/1
			REVISION: C
			X° ±3°



天线规格

Antenna Specification

Electrical Properties

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	3.4 dBi@2.4-2.5GHz 2.2 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear

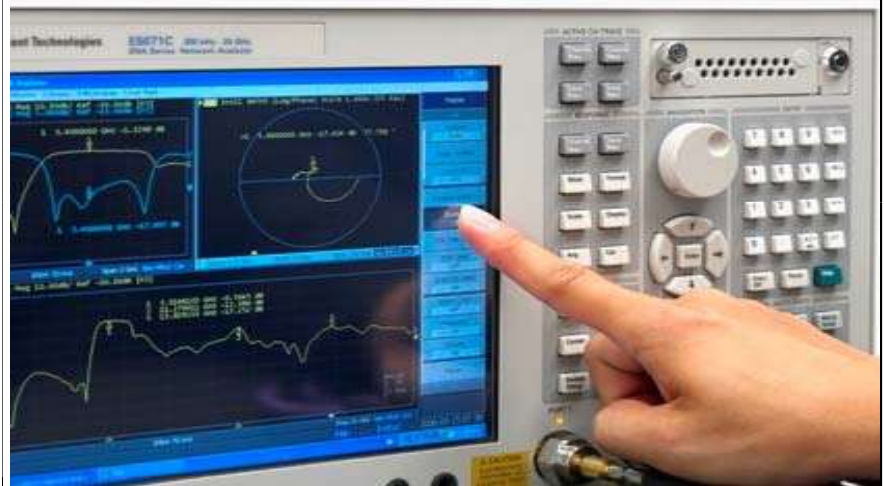
Physical Properties

Connector	None
Cable Type	None
Cable Length	None
Cable Color	None
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

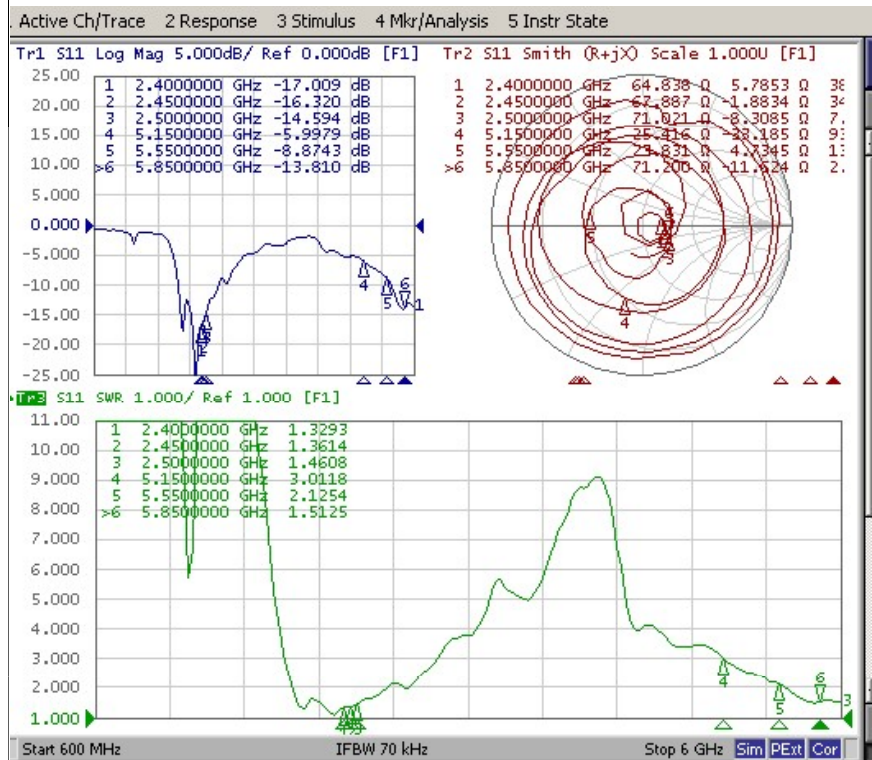


Antenna Performance Test

*Agilent
E5071B*

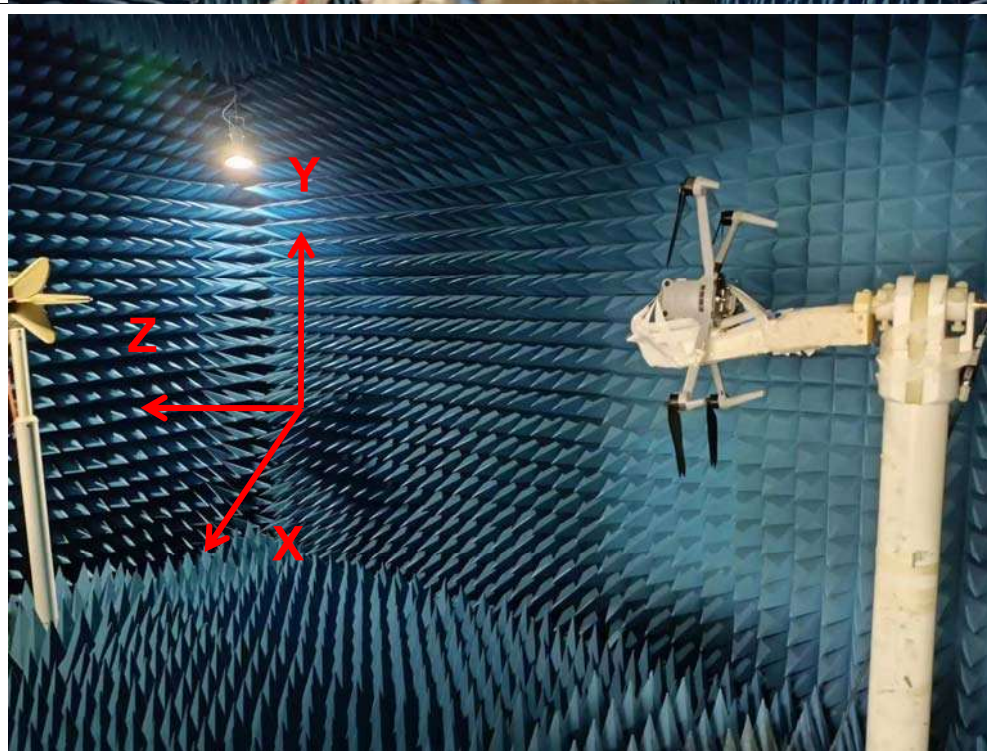
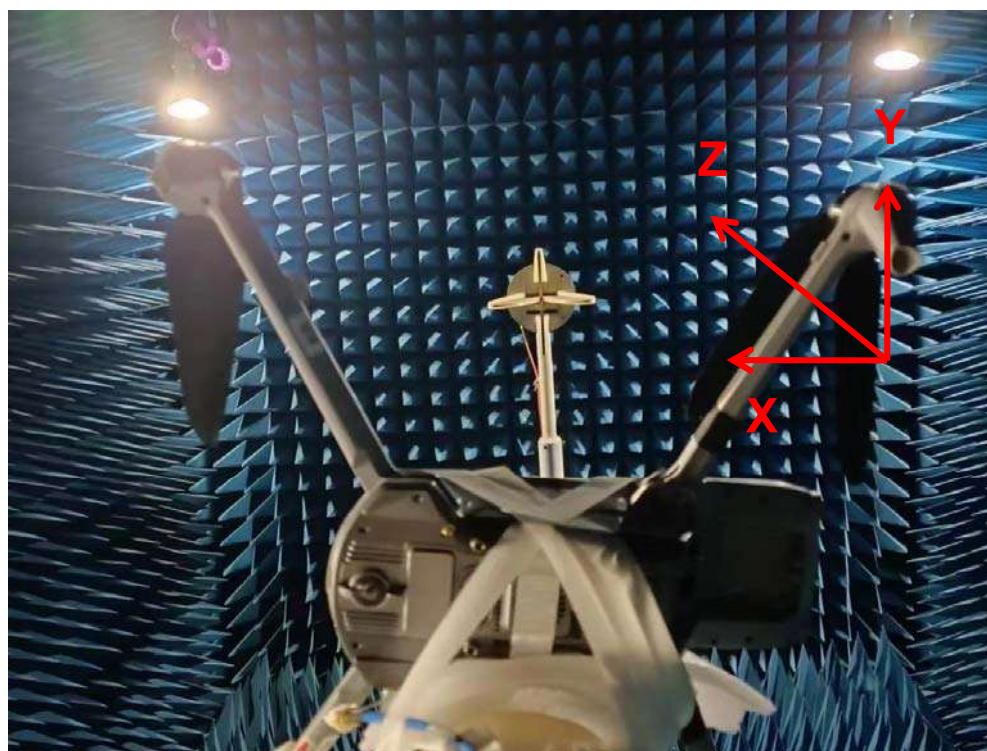


*S
Parameter
Test //
WIFI-R
Antenna*





Antenna Passive Test





Passive Test For WIFI2.4 Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	51.2	-2.9	3.0
2410	52.4	-2.8	3.2
2420	53.4	-2.7	3.4
2430	53.1	-2.8	3.2
2440	53.0	-2.8	3.1
2450	56.9	-2.5	3.1
2460	56.6	-2.5	2.8
2470	57.6	-2.4	2.7
2480	55.2	-2.6	2.6
2490	55.0	-2.6	2.7
2500	56.7	-2.5	2.8



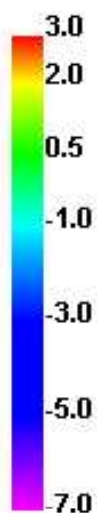
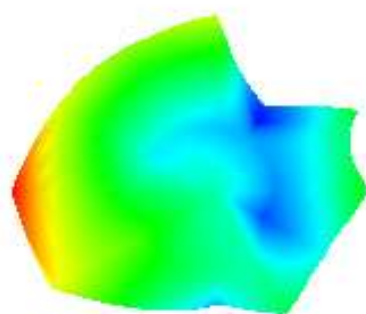
Passive Test For WiFi5.8 Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	18.8	-7.3	-0.8
5200	25.9	-5.9	0.2
5250	32.7	-4.9	0.9
5300	35.4	-4.5	1.3
5350	34.2	-4.7	1.1
5400	33.8	-4.7	1.0
5450	34.6	-4.6	1.6
5500	37.4	-4.3	2.2
5550	39.1	-4.1	2.2
5600	38.2	-4.2	1.4
5650	46.7	-3.3	1.7
5700	46.7	-3.3	1.4
5750	46.2	-3.4	1.5
5800	39.5	-4.0	1.2
5850	35.4	-4.5	0.8

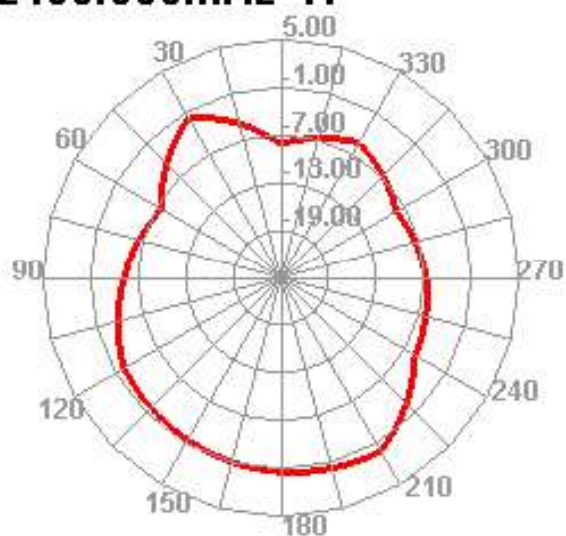


Radiation Pattern For WIFI2.4 Antenna

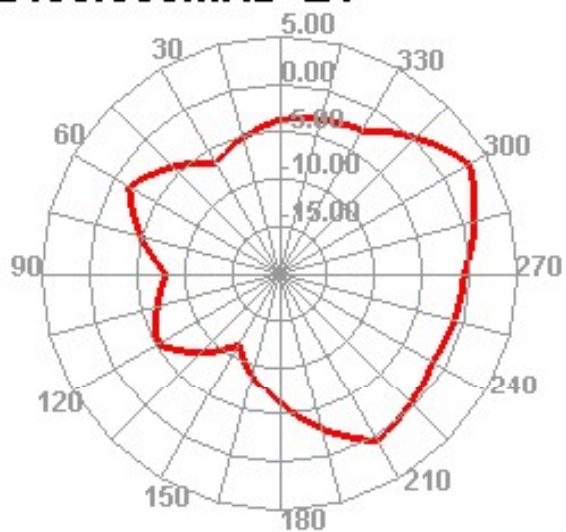
2400.000MHz



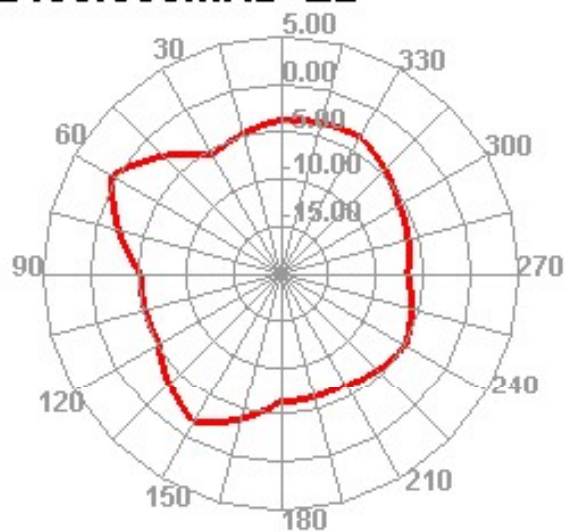
2400.000MHz H



2400.000MHz E1



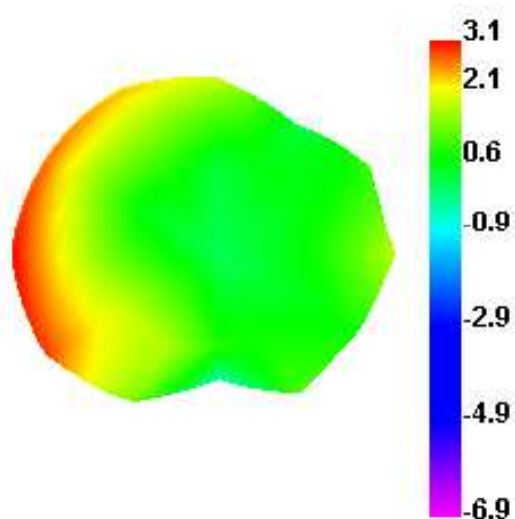
2400.000MHz E2



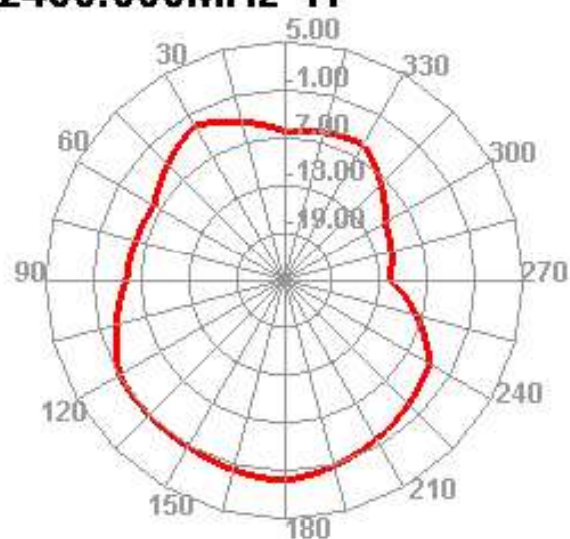


Radiation Pattern For WIFI2.4 Antenna

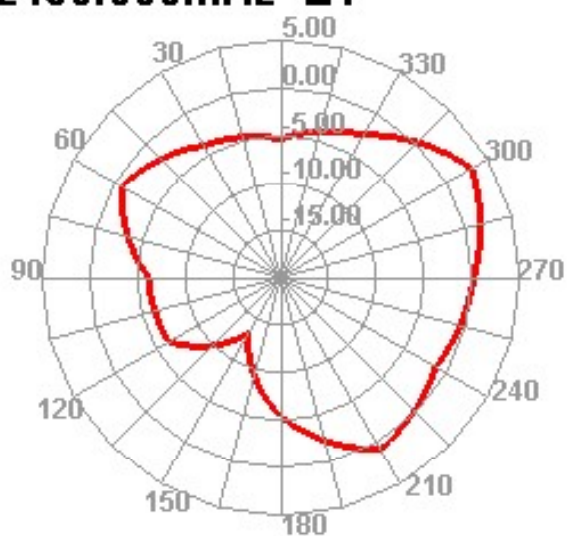
2450.000MHz



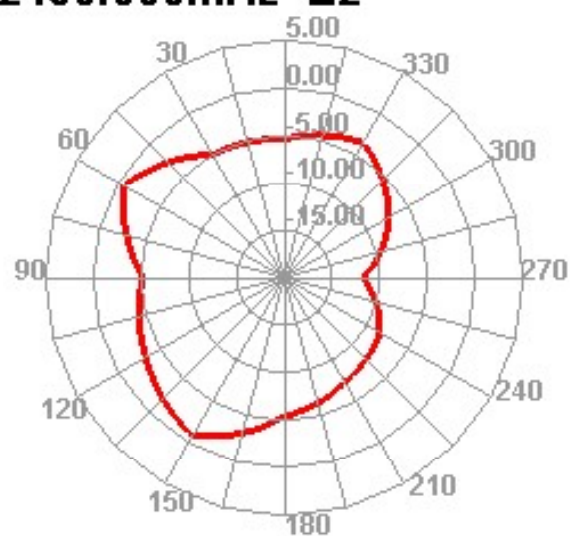
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2450.000MHz E1



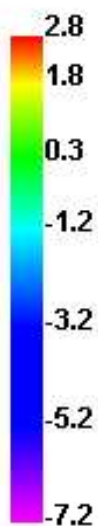
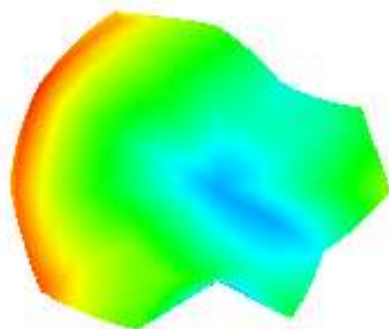
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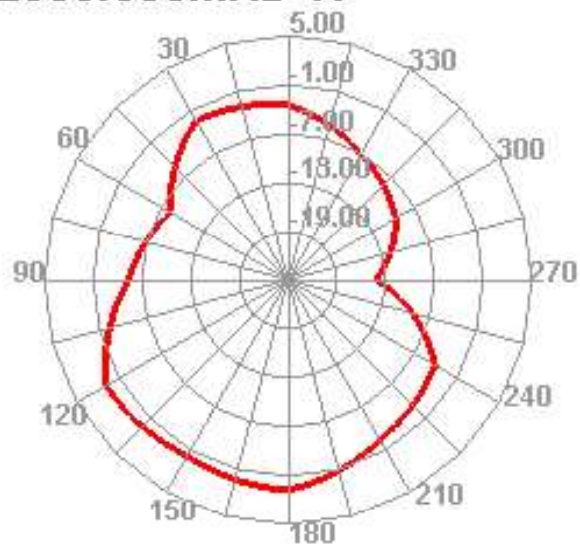


Radiation Pattern For WIFI2.4 Antenna

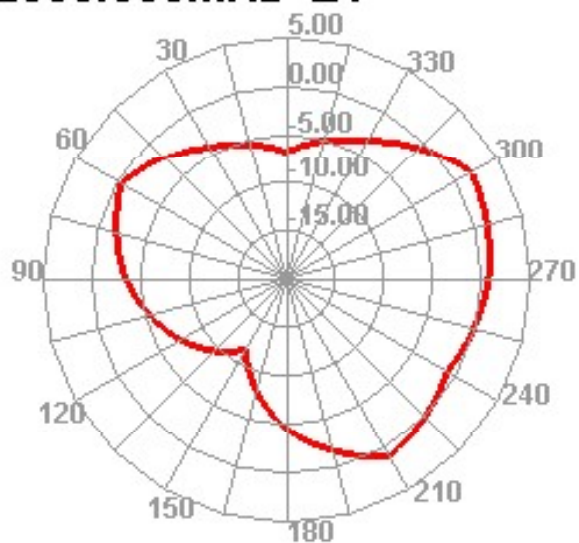
2500.000MHz



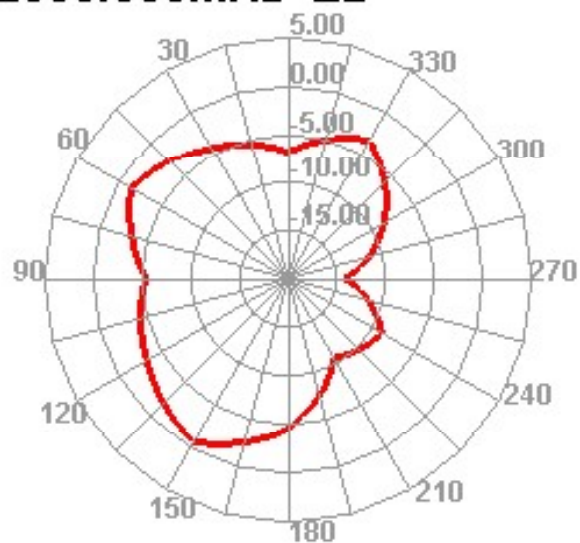
2500.000MHz H



2500.000MHz E1



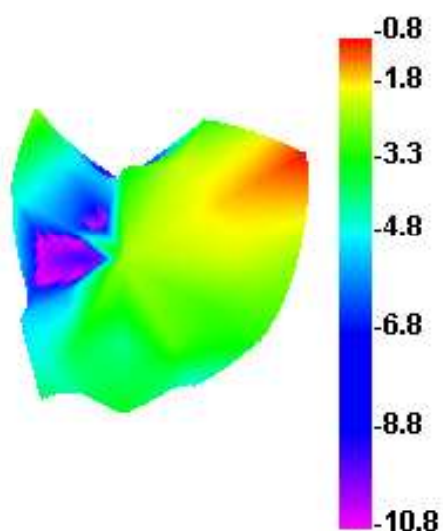
2500.000MHz E2



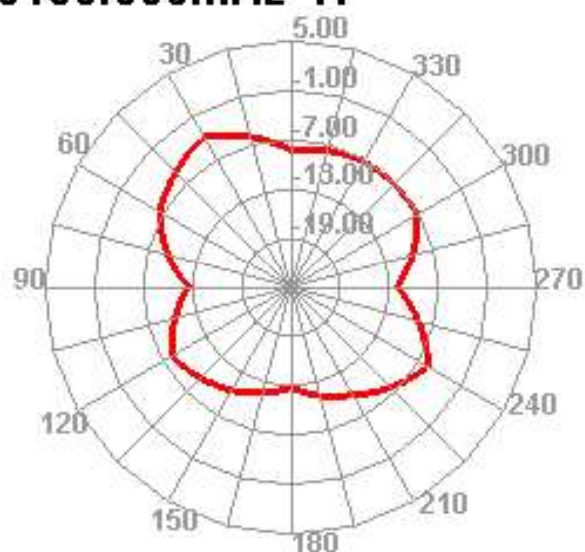


Radiation Pattern For WIFI5.8 Antenna

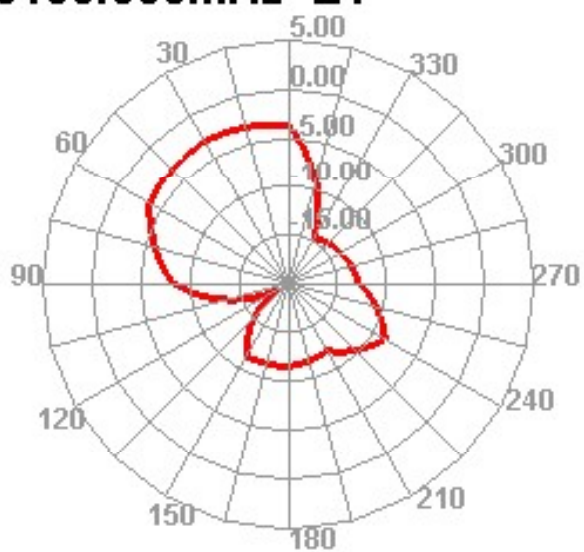
5150.000MHz



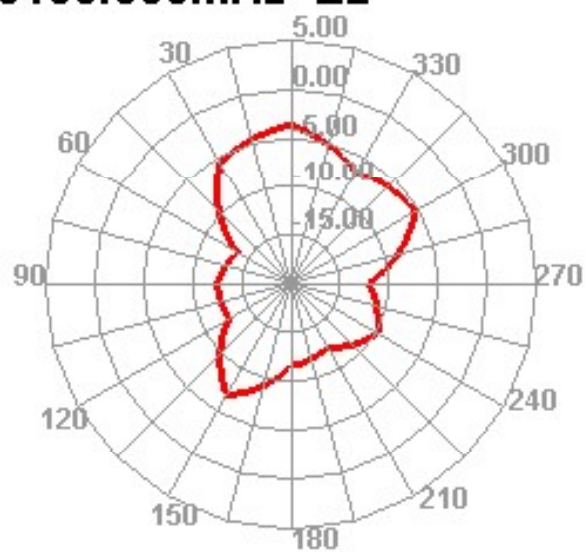
5150.000MHz H



5150.000MHz E1



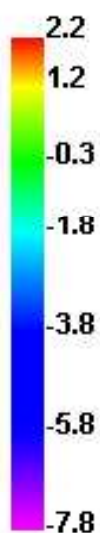
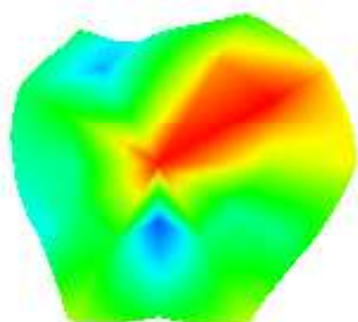
5150.000MHz E2



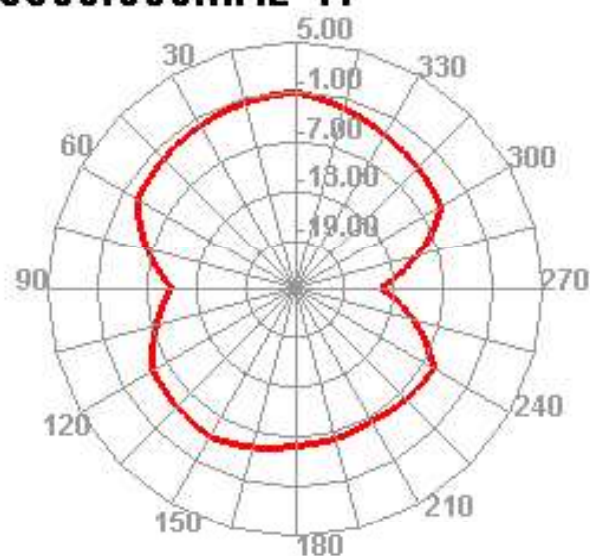


Radiation Pattern For WIFI5.8 Antenna

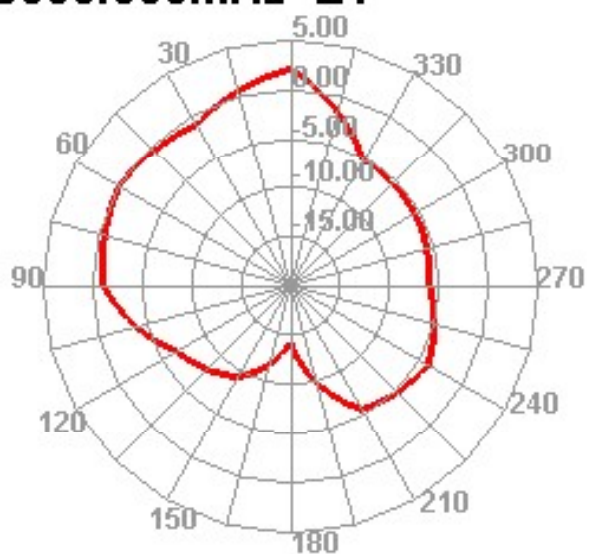
5500.000MHz



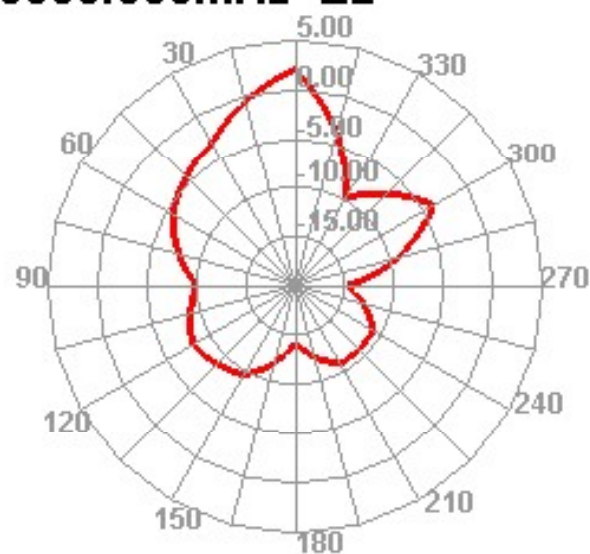
5500.000MHz H



5500.000MHz E1



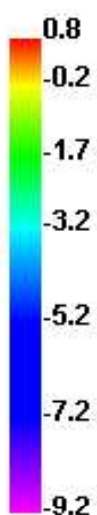
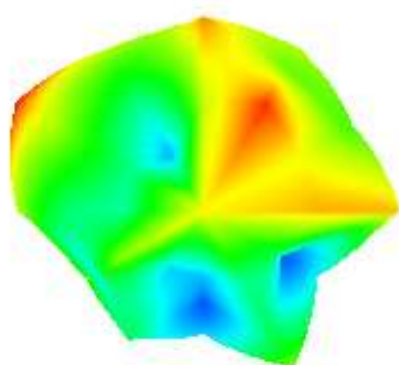
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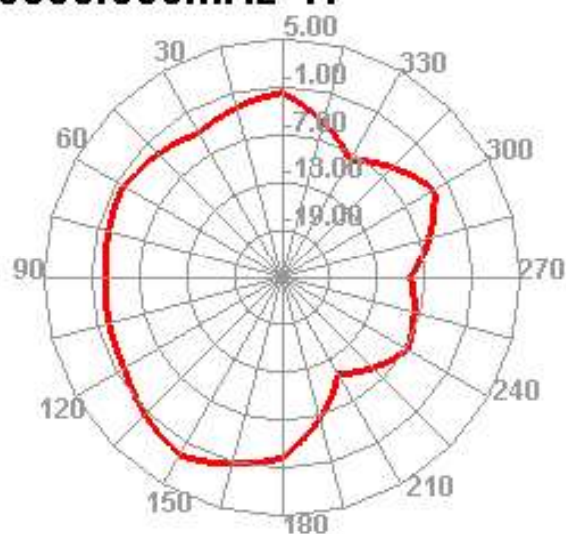


Radiation Pattern For WIFI5.8 Antenna

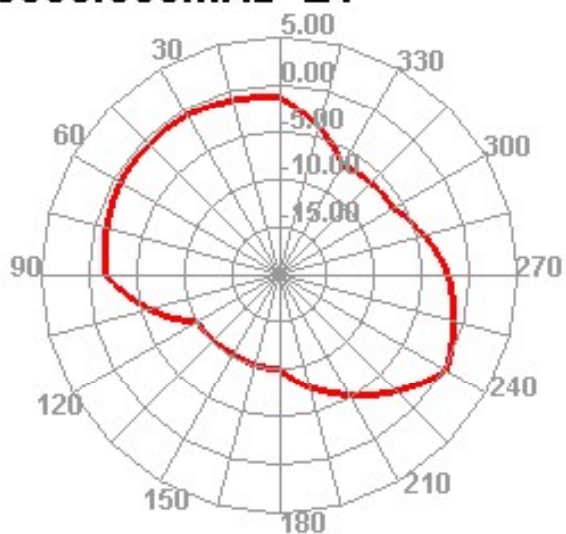
5850.000MHz



5850.000MHz H



5850.000MHz E1



5850.000MHz E2

