



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 2023/05/30

编号
File No 23053006

版本
Revision 1.0

客户
CUSTOMER:

方位 Fanvil Technology Co., LTD.

客户料号
CUSTOMER NO:

EADA100041A0

品名
PART NAME:

WIFI Antenna

供方料号
SUPPLIER NO:

YJL01.106.044.306A

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

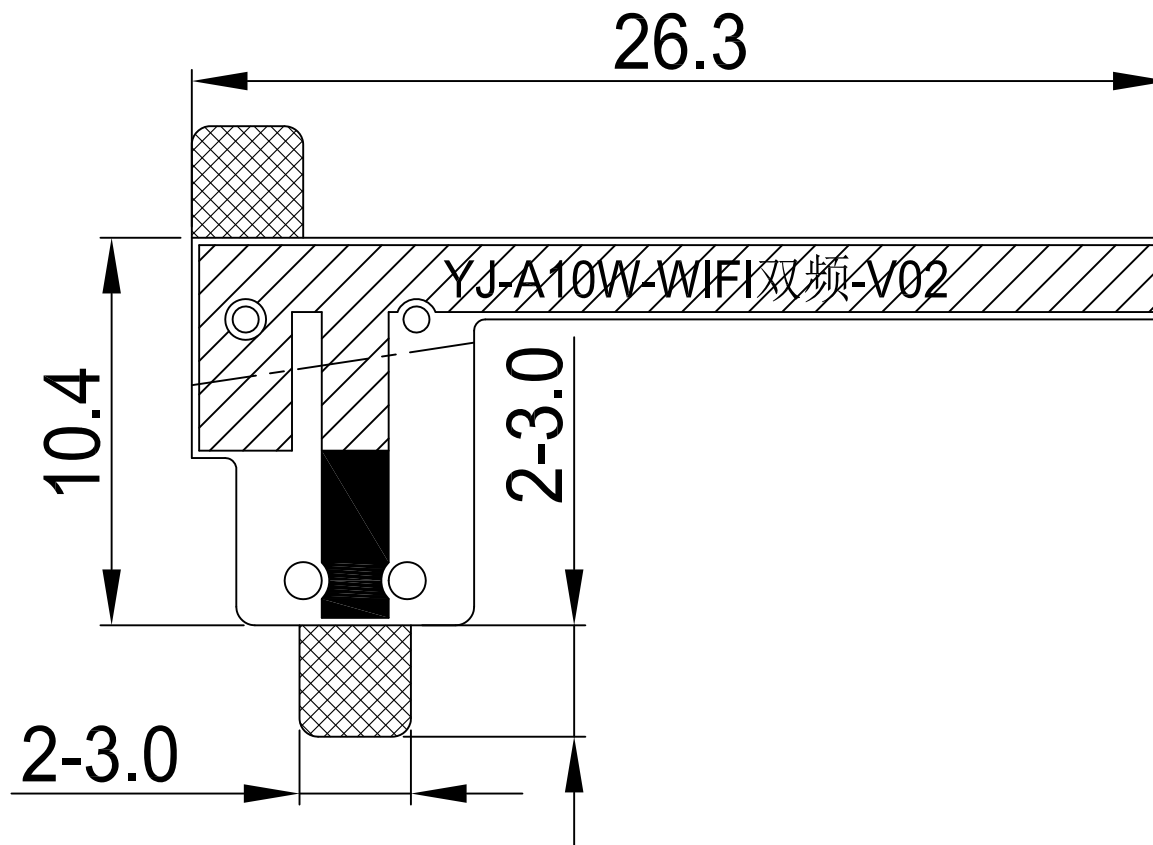
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RoHS
Compatible

REV.	DESCRIPTION	DATE
A	首次发行	2022-12-30
B	添加手撕位	2023-02-03



布線區 鍍金區 手撕位

備注:

- 1.材質: 一对半基材; FPC厚度: 0.1mm.
- 2.顏色/表面處理: 焊点鍍金; 背面3M胶带分割线
顏色: 黑色油墨, 白色丝印.
- 3.尺寸: 帶*為重點尺寸.
- 4.公差: 未標注公差參照標準公差.

 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双频 Antenna			
PART NO.:YJL01.106.044.306A			DATE: 2023-02-03
APPROVED BY	CHECKED BY	DESIGNED BY	
何清军	周棋	廖光喜	UNITS: mm
			SCALE: 1/1
			REVISION: B
			Tolerance X.X ±0.50 X.XX±0.15 X° ±3°



天线规格

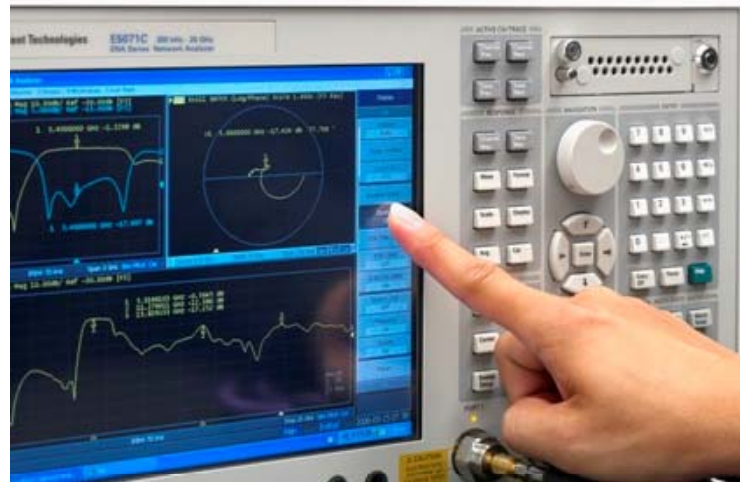
Antenna Specification

Electrical Properties	
Frequency	2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	2.9 dBi@2.4-2.5GHz 3.5 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%

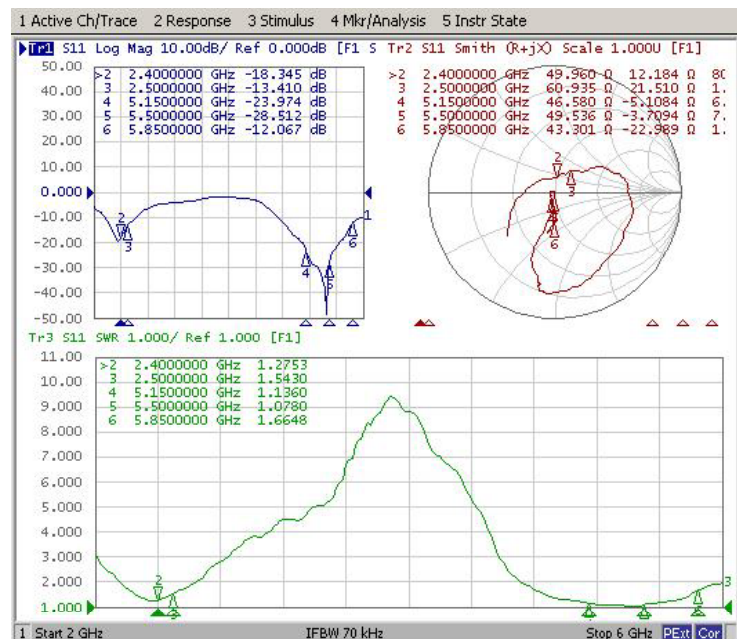
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Agilent E5071B



S Parameter Test // WiFi Antenna





Passive Test For WiFi Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	63.4	-2.0	2.2
2410	63.4	-2.0	2.1
2420	63.7	-2.0	2.1
2430	65.2	-1.9	2.4
2440	64.9	-1.9	2.3
2450	67.1	-1.7	2.5
2460	65.8	-1.8	2.4
2470	68.1	-1.7	2.8
2480	65.2	-1.9	2.5
2490	66.2	-1.8	2.9
2500	63.7	-2.0	2.6

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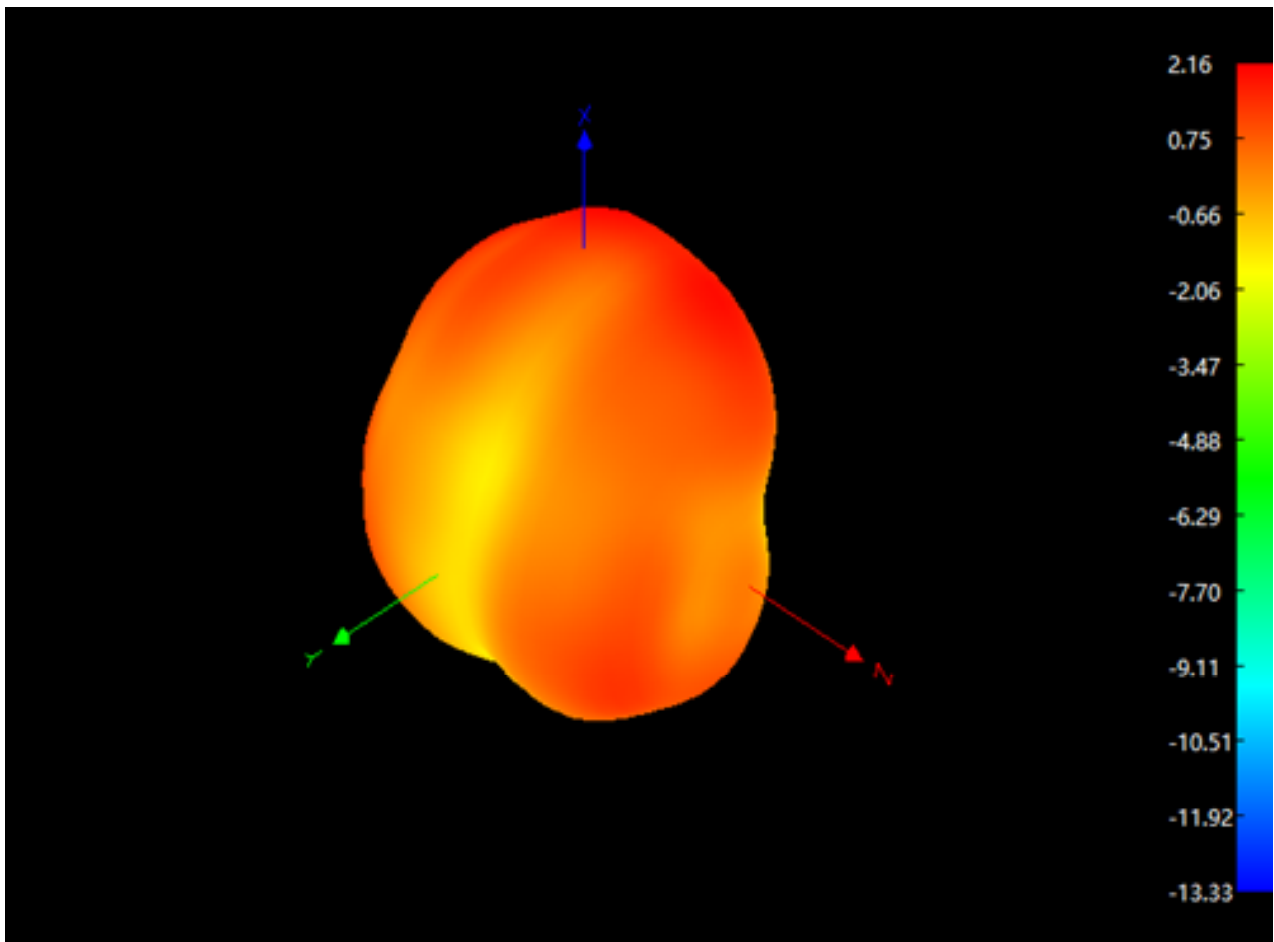
Passive Test For WiFi Antenna(5.8G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	51.1	-2.9	1.6
5200	55.1	-2.6	2.0
5250	52.7	-2.8	2.1
5300	50.9	-2.9	1.7
5350	49.9	-3.0	1.6
5400	54.2	-2.7	1.8
5450	51.6	-2.9	1.5
5500	47.9	-3.2	1.7
5550	51.9	-2.9	2.4
5600	49.9	-3.0	2.2
5650	48.0	-3.2	2.5
5700	50.0	-3.0	2.9
5750	50.7	-3.0	3.1
5800	50.2	-3.0	3.5
5850	52.0	-2.8	3.3

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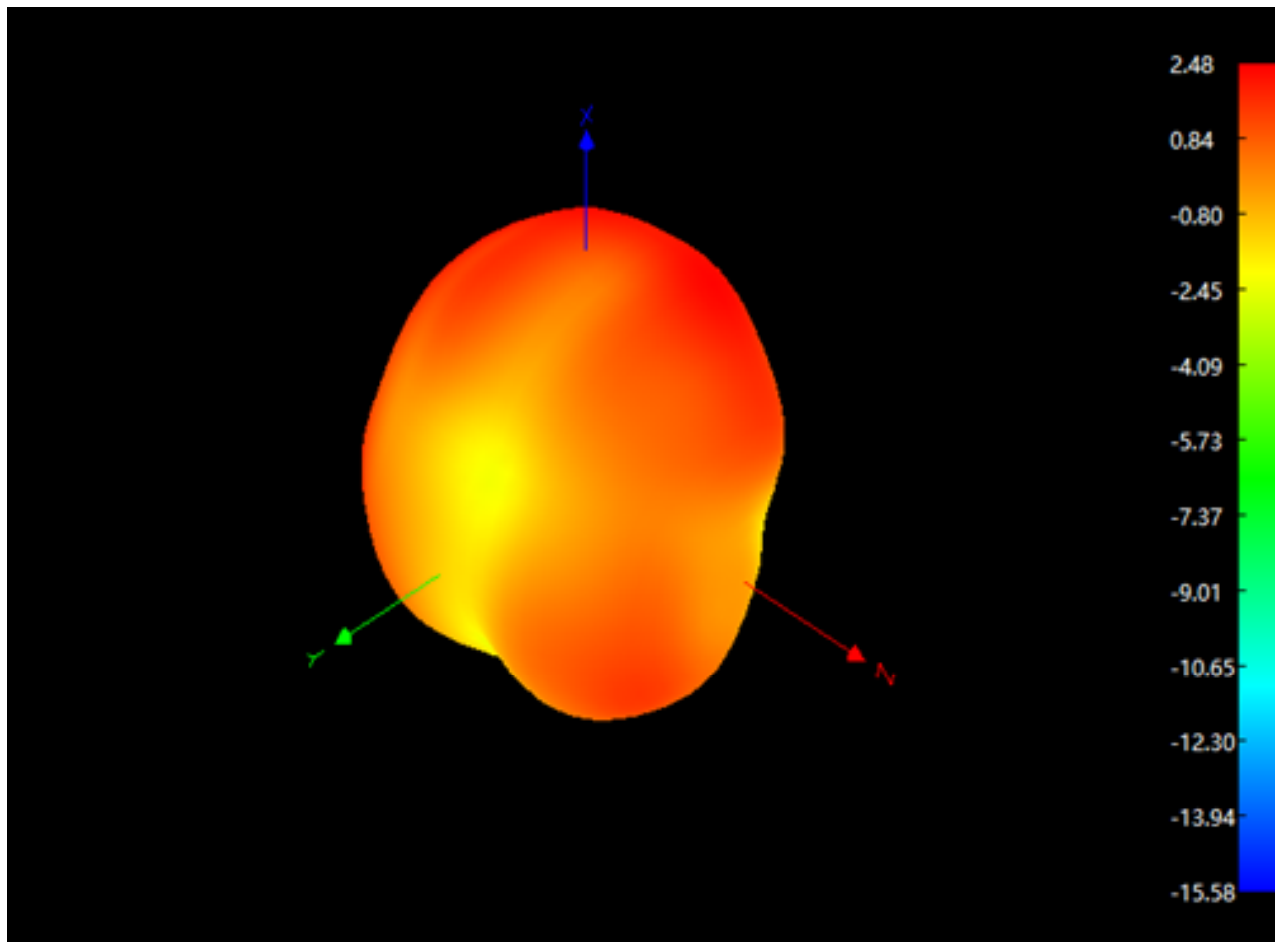


Radiation Pattern For WiFi Antenna (2400MHz)



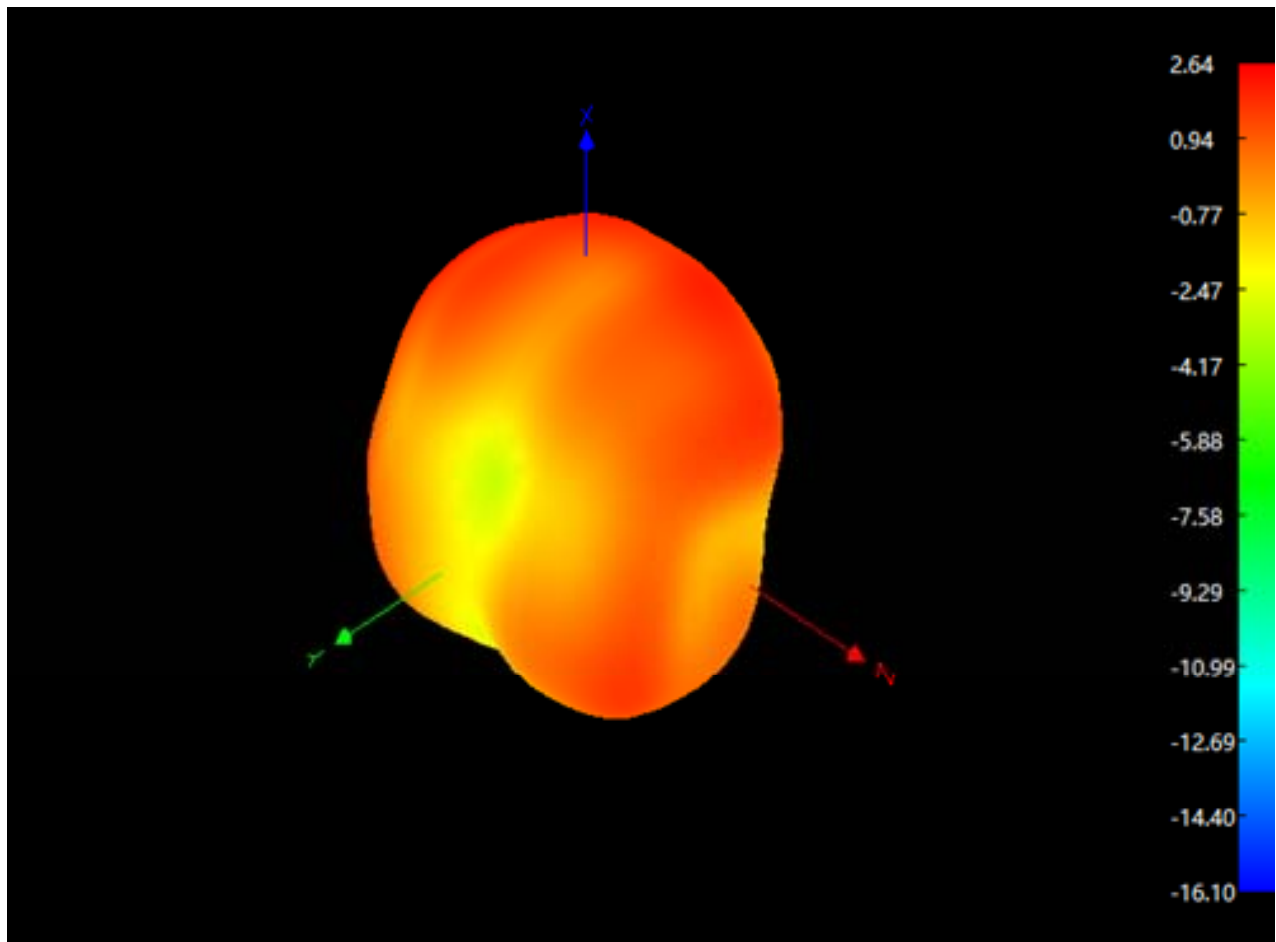


Radiation Pattern For WiFi Antenna (2450MHz)



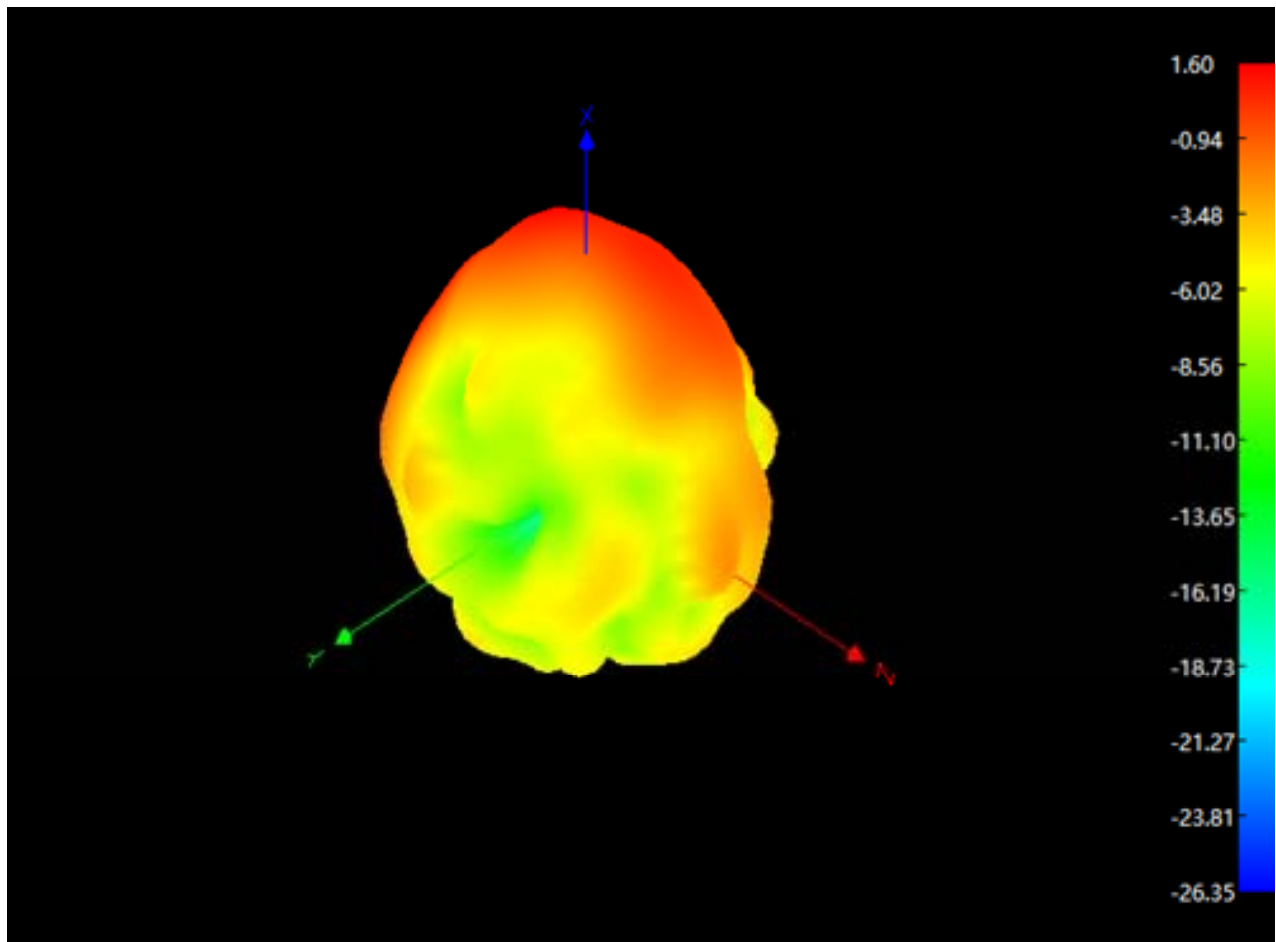


Radiation Pattern For WiFi Antenna (2500MHz)



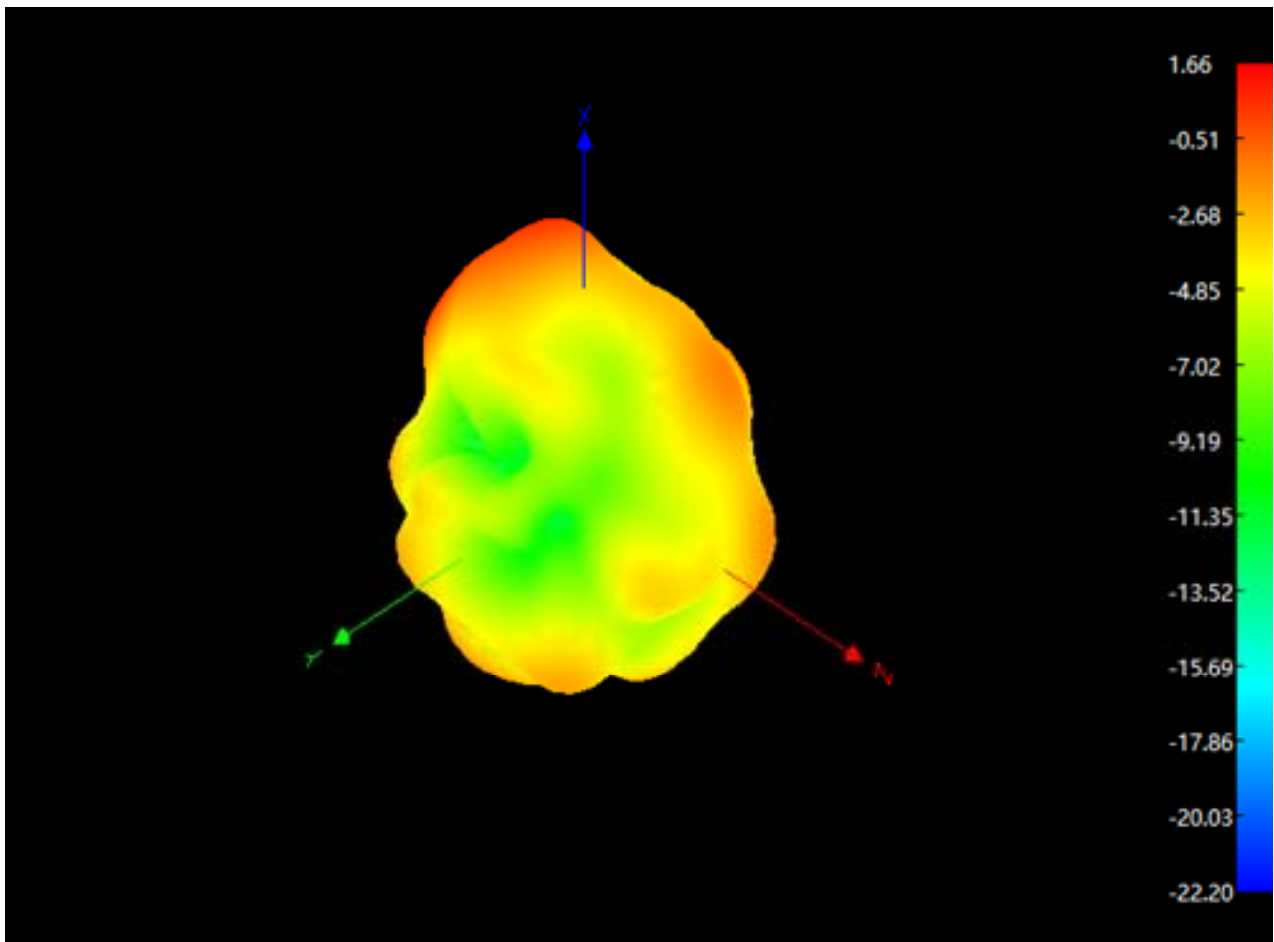


Radiation Pattern For WiFi Antenna (5150MHz)



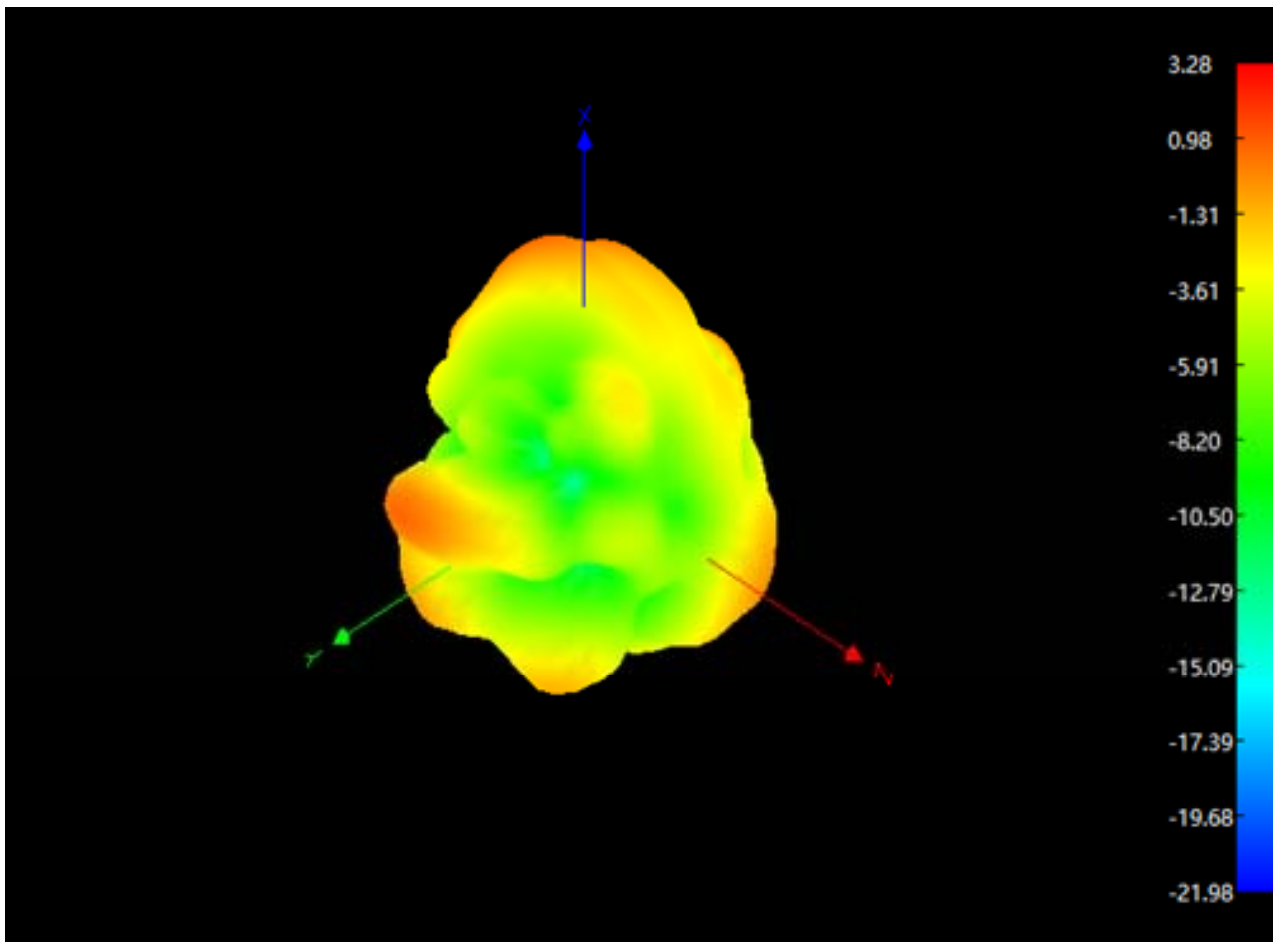


Radiation Pattern For WiFi Antenna (5500MHz)





Radiation Pattern For WiFi Antenna (5850MHz)



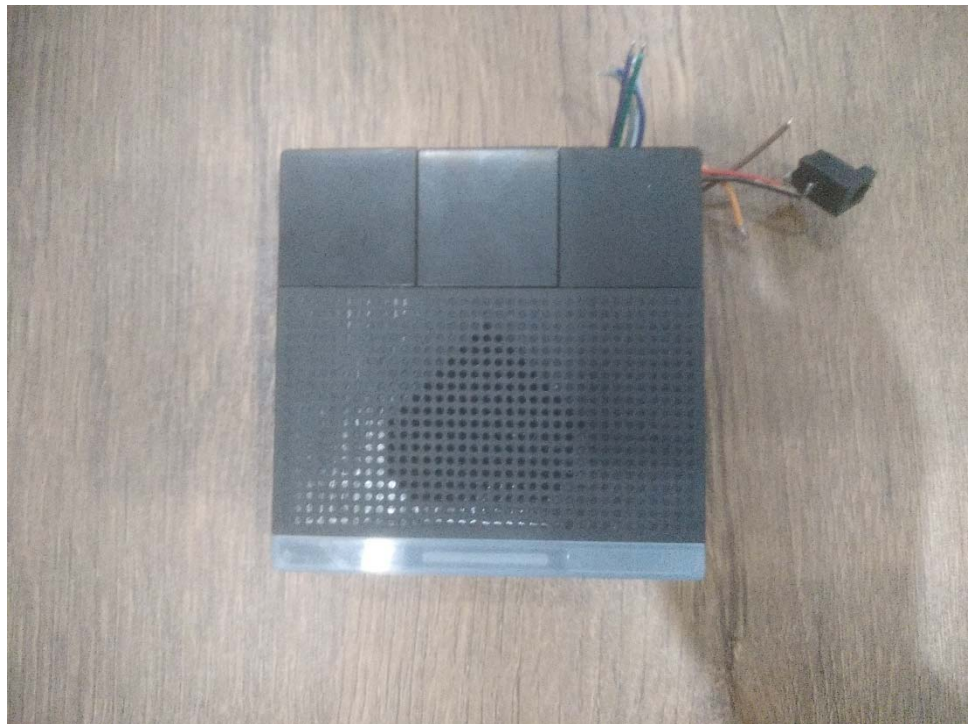


Active Test For WIFI							
Band	Channel	Data Rate	TRP	EIRP	Data Rate	TIS	EIS
WIFI 802.11a	36	6Mbps	17.2	20.7	54Mbps	-75.8	-79.5
	100		18.3	23.2		-75.1	-79.7
	165		17.4	22.3		-75.2	-80.0
WIFI 802.11b	1	11Mbps	19.7	23.3	11Mbps	-90.2	-93.9
	6		19.6	23.4		-91.0	-94.8
	11		19.5	23.3		-91.7	-95.6
WIFI 802.11g	1	6Mbps	19.8	22.7	54Mbps	-76.9	-80.0
	6		19.8	22.6		-78.4	-81.6
	11		19.9	22.8		-79.2	-82.6

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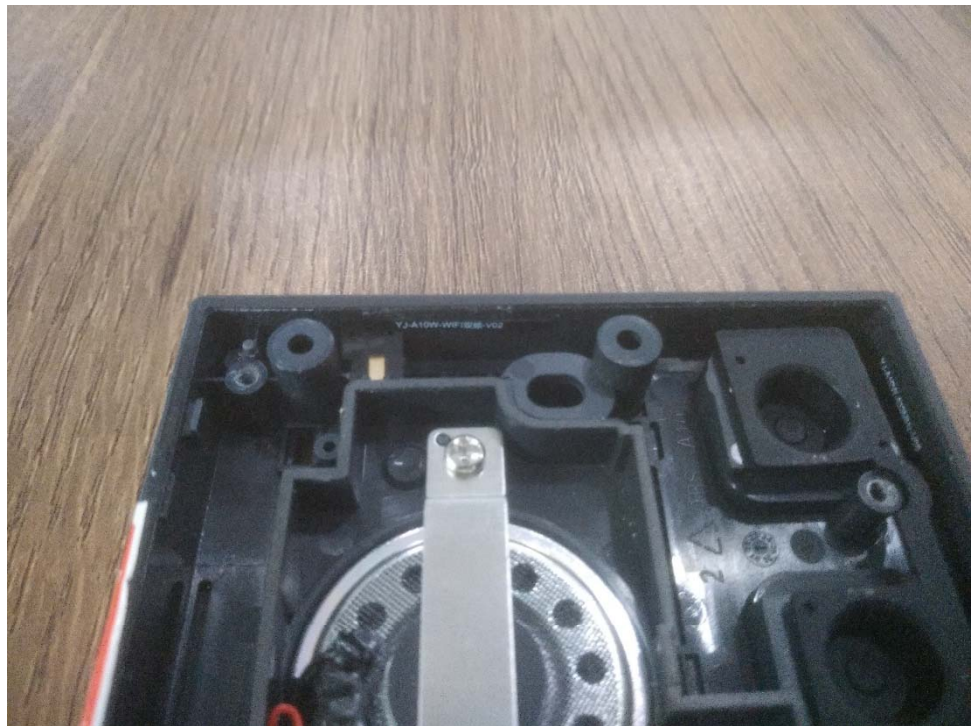


Device





WiFi Antenna





WiFi Antenna



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