

Vendor Name: YiJia Electronic Communications Technology Co., Ltd.

Specification for Approval

Client Name: PAX Computer Technology (ShenZhen) Co., LTD

Brand Name: YiJia

Part No: YJS01.086.111.301A

Part Description: 2.4/5GHz Antenna, Material: FPC

Manufacturer: YiJia Electronic

PAX Part Name: Antenna

PAX Materiel No.: 200212000000466

PAX Description: T3300-2.4/5GHz Antenna -FPC-V01-YiJia

PAX Import Reason:

Supplier Signature	Customer Signature
	Admit: Confirm:

Supplier Address: Yuanfu Industrial Park, No.59, Muyu Road, Shatou Community,
Chang'an Town, Dongguan, Guangdong,

Supplier: WangSheng **Supplier Telephone and Fax:** 0769-82586086 82586086

Date: 2022.10.24



Spec Item

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RoHS
Compatible

CUSTOMER
PART NO

REV.

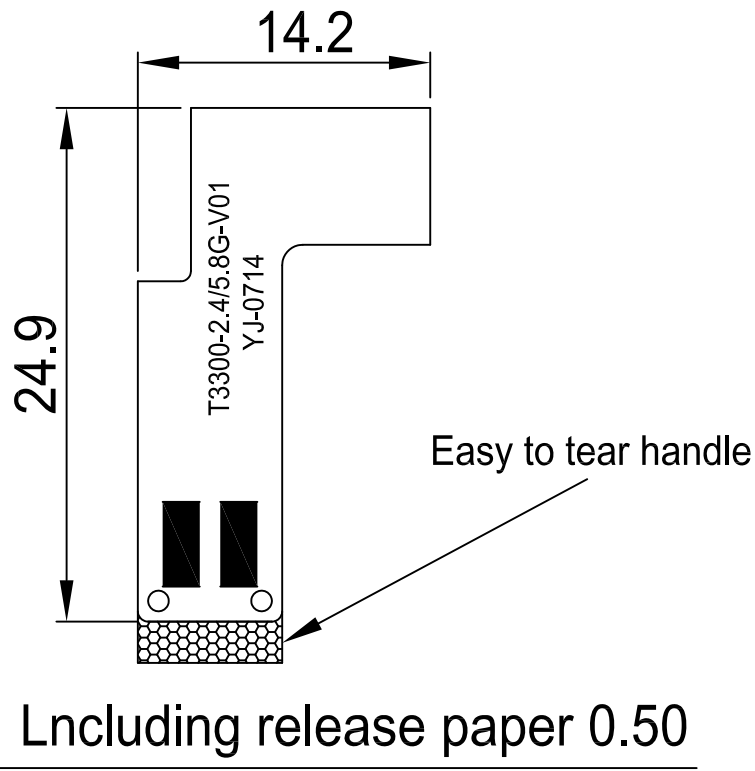
DESCRIPTION

DATE



Initial issue

2022-10-18



The wiring area Gold-plated area PI reinforcement area (with glue)

Remark:

1. Material: one-half PI base material, copper foil thickness 0.5oz, Thickness of finished product without release paper: 0.1mm.
2. Color/surface treatment: single side black ink, white screen printing. Exposed copper area with gold plating treatment, reverse 3M9471 adhesive yellow release paper without divider.
3. Size: key size with *.
4. Tolerance: the tolerance not marked refers to the standard tolerance.



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

PART NAME: 2.4/5.8G Antenna

PART NO.: YJS01.086.111.301A

DATE:2022-10-18

APPROVED BY

CHECKED BY

DESIGNED BY



Tolerance

Yin tao

Wenruyang

Chenxingyi

UNITS: mm

SCALE: 1/1

REVISION: C

X.X ±0.50

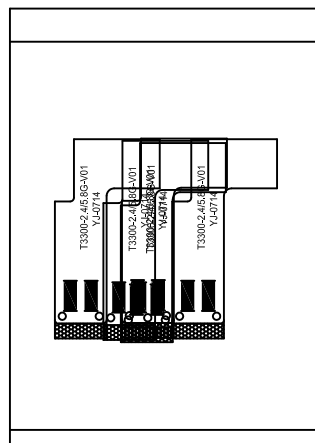
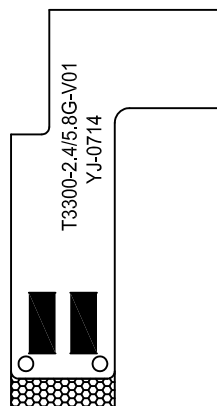
X.XX±0.15

X° ±3°

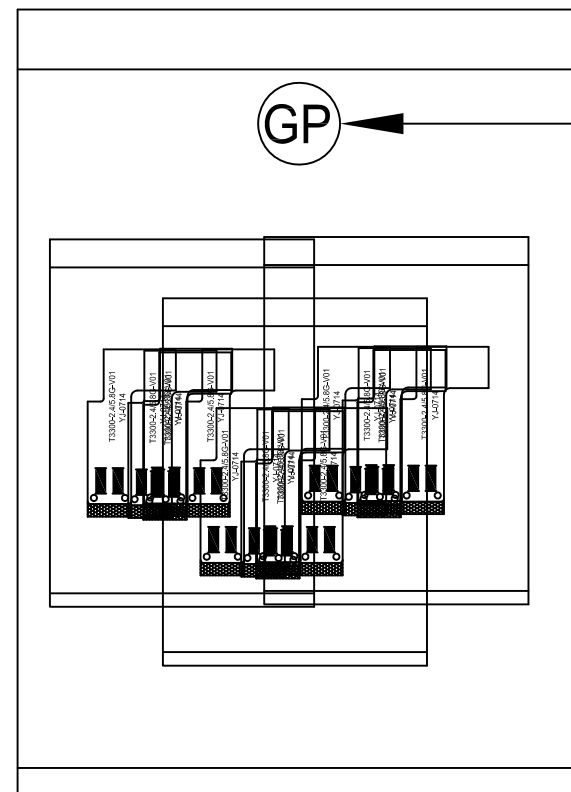
RoHS
Compatible

Packing instruction

REV.	DESCRIPTION	DATE
△	Initial issue	2022-10-18

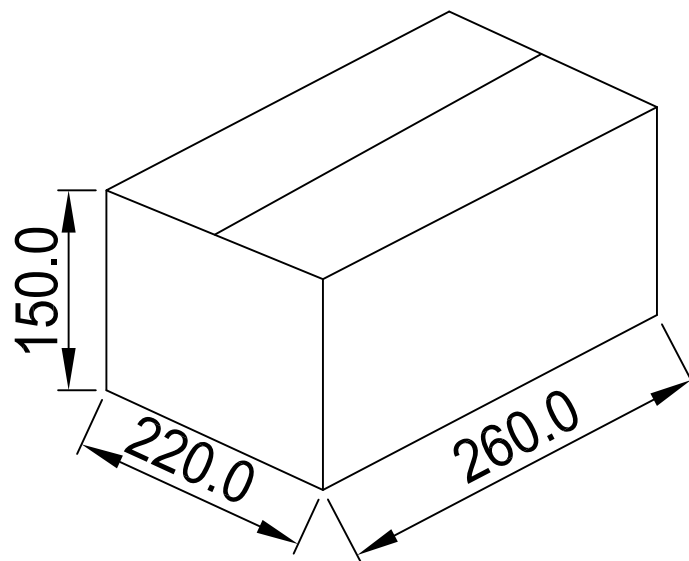


1. 200Pcs/1 small bag



GP label

2. 1000 pcs 1 big bag



3. 10000PCS/Box



Dongguan YiJia Electronics Communication Technology Co., Ltd. Tel.: 0769-85535057
Fax: 0769-81664308

PART NAME: 2.4/5.8G Antenna

PART NO.: YJS01.086.111.301A

DATE: 2022-10-18

APPROVED BY

CHECKED BY

DESIGNED BY



Tolerance

Yin tao

Wenruyang

Chenxingyi

UNITS: mm

SCALE: 1/1

REVISION: A

X.X ±0.50

X.XX ±0.15

X° ±3°



Antenna Specification

Electrical Properties	
Antenna type	monopole
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	2.0 dBi@2.4-2.5GHz 3.2 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%

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WiFi Antenna



Antenna composition

The project has 1 antenna in total (WIFI 2.4G-5G) , Composed of FPC。

A complete set of antennas provided by our company,
As shown in Table 1-1

name	WIFI
texture of material	FPC
quantity(pcs)	1

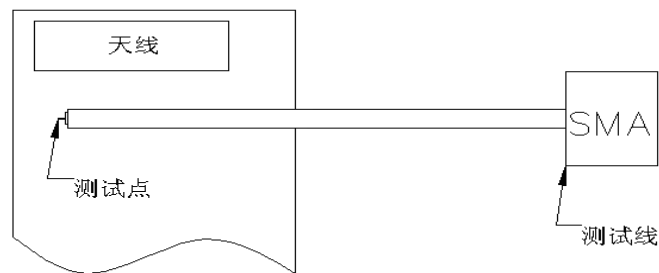
Table 1-1 Details of antenna



Passive Test

Testing tools

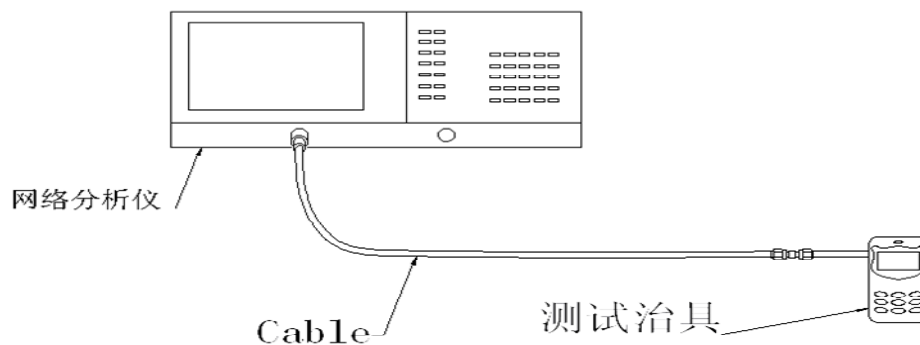
Purpose: To test passive parameters of antenna as accurately as possible.
Manufacturing method: The handset is made of a 50 ohm coaxial cable, one end of which is connected to the back end of the matching circuit of the handset motherboard (Front end of RF test hole), the other end is connected with SMA connector. The schematic diagram is as follows:



S11 Test method description

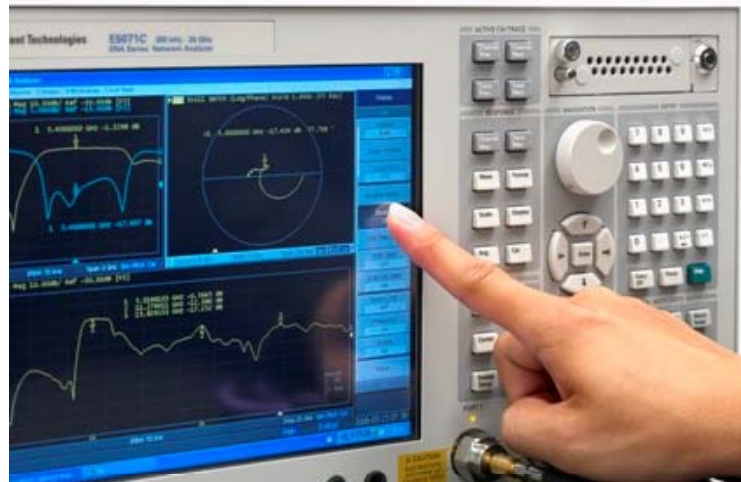
Test equipment: network analyzer (Agilent E5071B)

Test method: use a 50 ohm CABLE to export from the instrument test port, connect the SMA connector of the handset after calibration with the calibration piece, and record the return loss and standing wave ratio corresponding to the relevant frequency point. The test diagram is as follows:

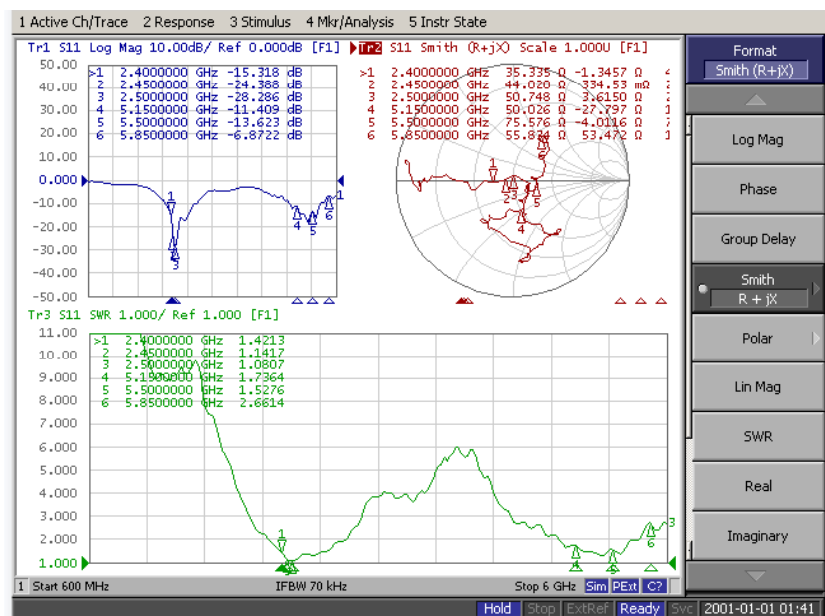




Agilent E5071B



S Parameter Test // WiFi Antenna





Passive Test For WiFi Antenna(2.4G)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	31.3	-5.0	-0.4
2410	31.5	-5.0	-0.3
2420	31.8	-5.0	0.0
2430	31.5	-5.0	0.0
2440	32.1	-4.9	0.2
2450	36.3	-4.4	0.8
2460	37.4	-4.3	1.0
2470	39.4	-4.0	1.4
2480	39.8	-4.0	1.6
2490	41.3	-3.8	1.8
2500	43.3	-3.6	2.0

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Passive Test For WiFi Antenna(5.8G)

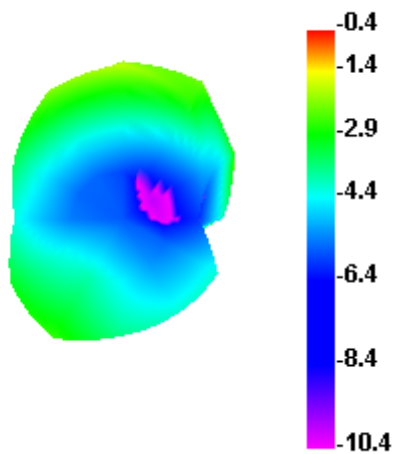
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	25.8	-5.9	0.5
5200	31.3	-5.1	1.8
5250	33.6	-4.7	2.3
5300	38.1	-4.2	2.6
5350	43.5	-3.6	3.1
5400	43.9	-3.6	3.1
5450	42.7	-3.7	2.9
5500	43.8	-3.6	2.7
5550	40.9	-3.9	2.3
5600	37.5	-4.3	2.0
5650	48.6	-3.1	3.2
5700	44.5	-3.5	2.9
5750	38.0	-4.2	2.1
5800	31.1	-5.1	0.9
5850	27.5	-5.6	0.0

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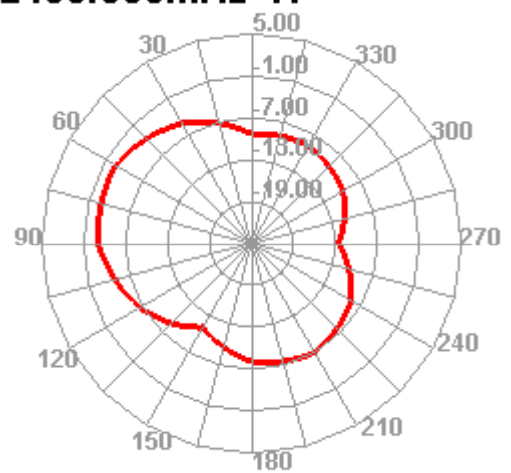


Radiation Pattern For WiFi Antenna(2400MHz)

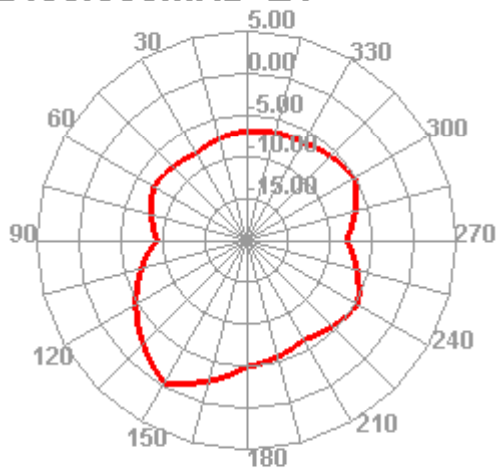
2400.000MHz



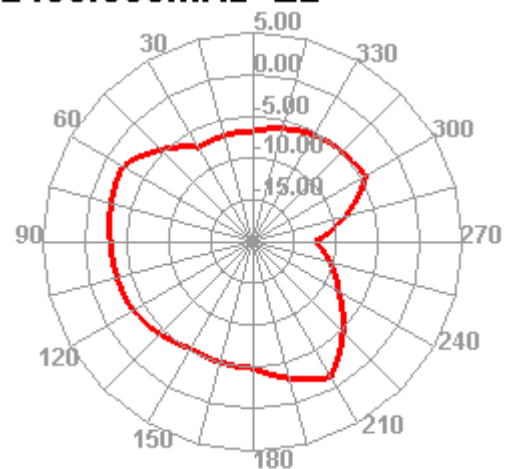
2400.000MHz H



2400.000MHz E1



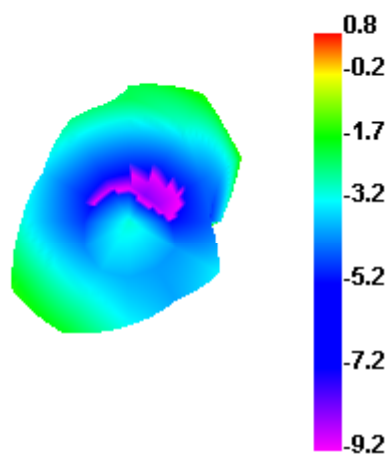
2400.000MHz E2



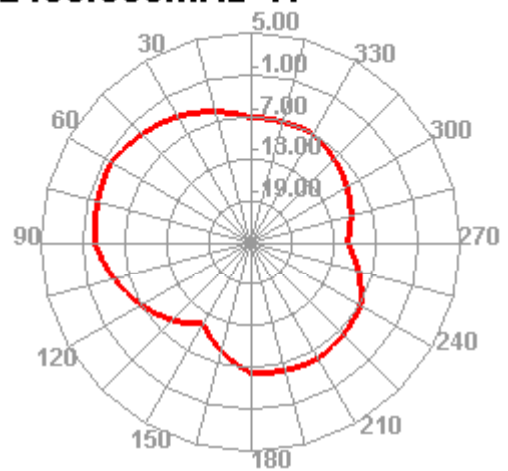


Radiation Pattern For WiFi Antenna(2450MHz)

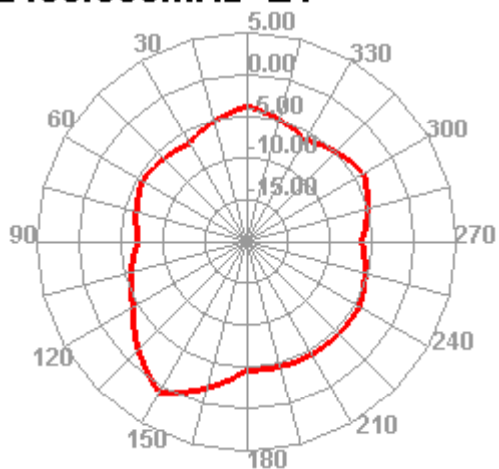
2450.000MHz



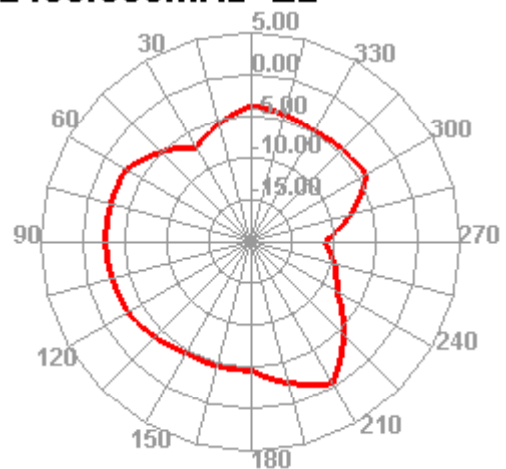
2450.000MHz H



2450.000MHz E1



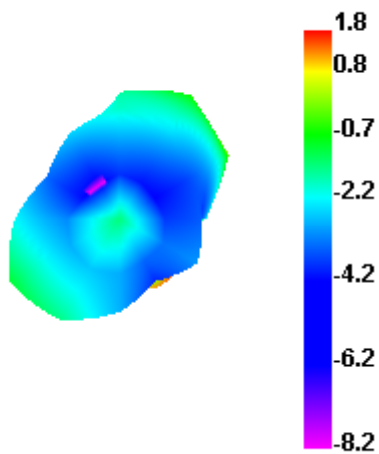
2450.000MHz E2



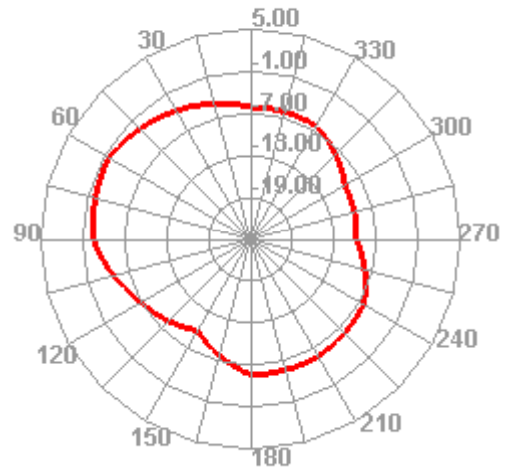


Radiation Pattern For WiFi Antenna(2490MHz)

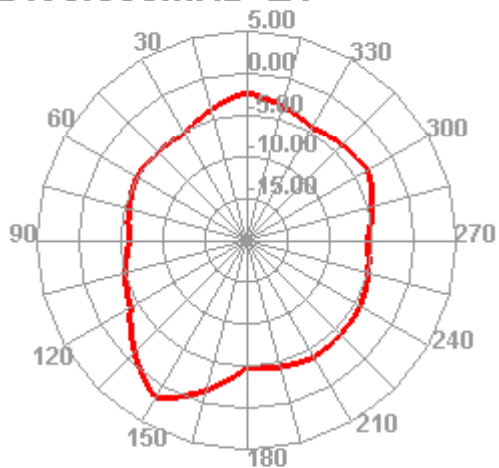
2490.000MHz



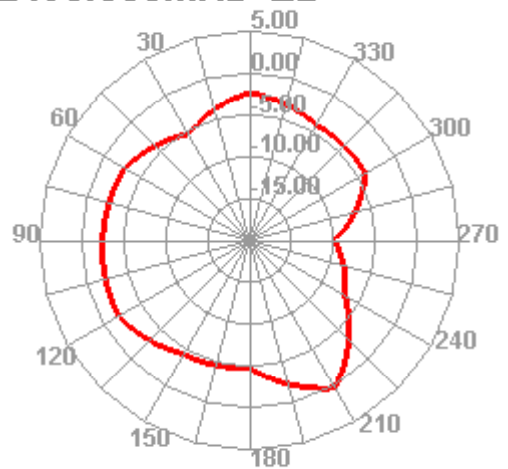
2490.000MHz H



2490.000MHz E1



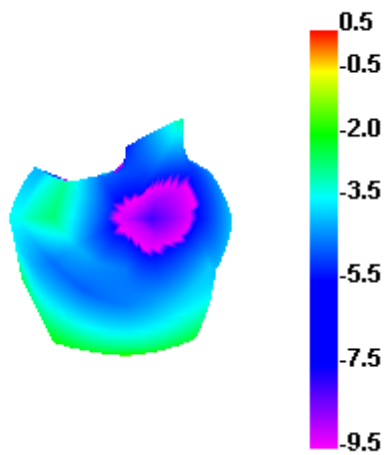
2490.000MHz E2



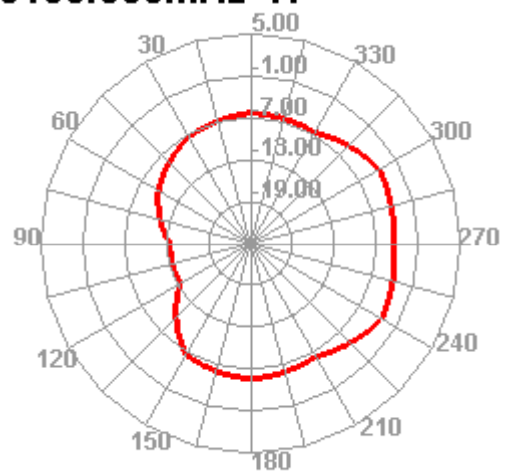


Radiation Pattern For WiFi Antenna(5150MHz)

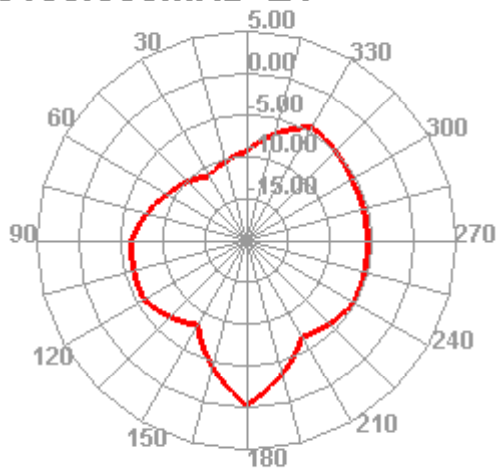
5150.000MHz



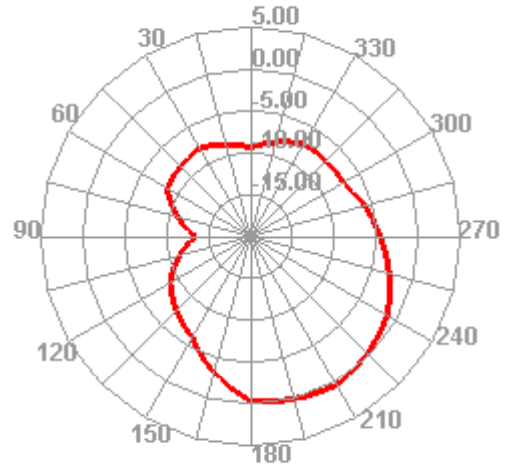
5150.000MHz H



5150.000MHz E1



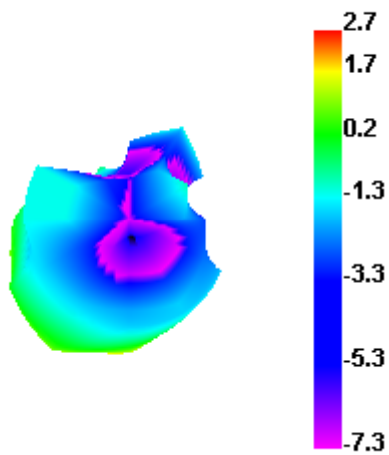
5150.000MHz E2



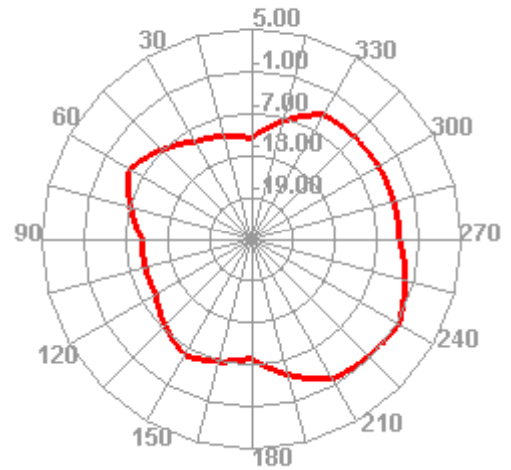


Radiation Pattern For WiFi Antenna(5500MHz)

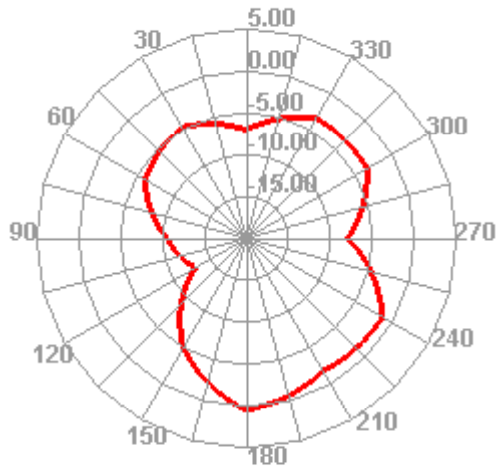
5500.000MHz



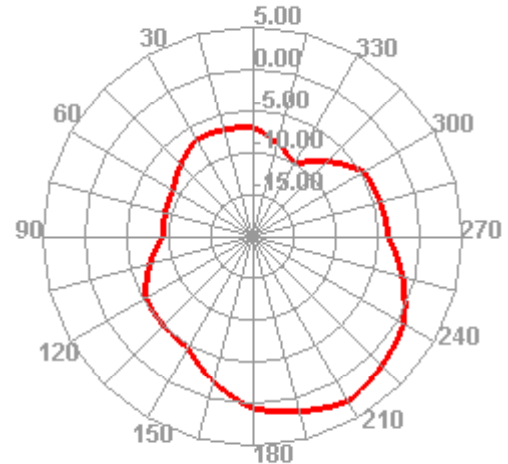
5500.000MHz H



5500.000MHz E1



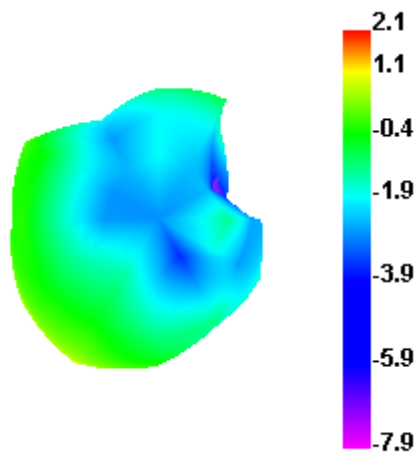
5500.000MHz E2



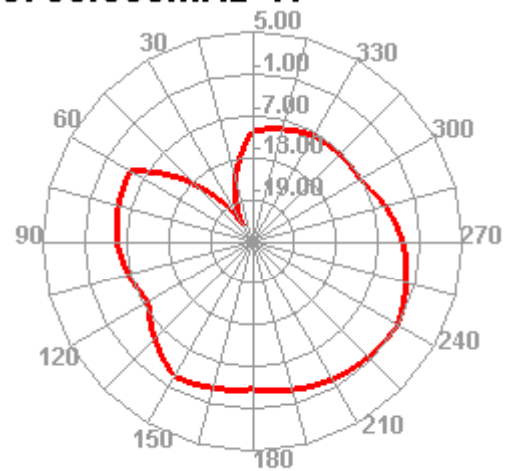


Radiation Pattern For WiFi Antenna(5750MHz)

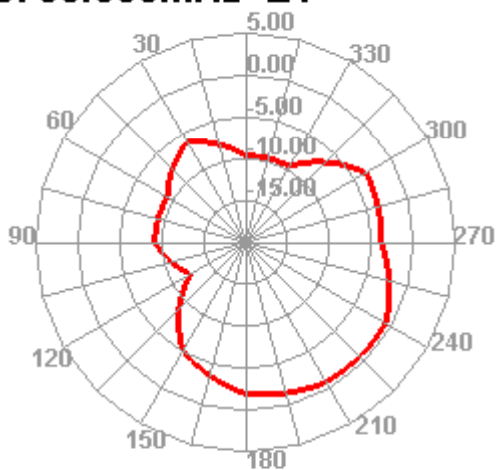
5750.000MHz



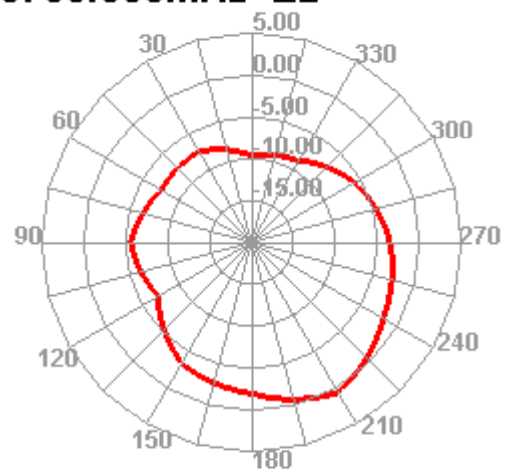
5750.000MHz H



5750.000MHz E1



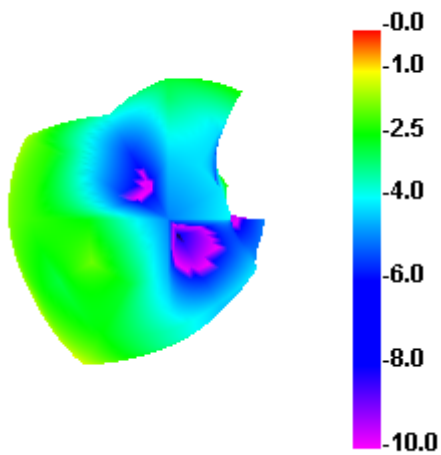
5750.000MHz E2



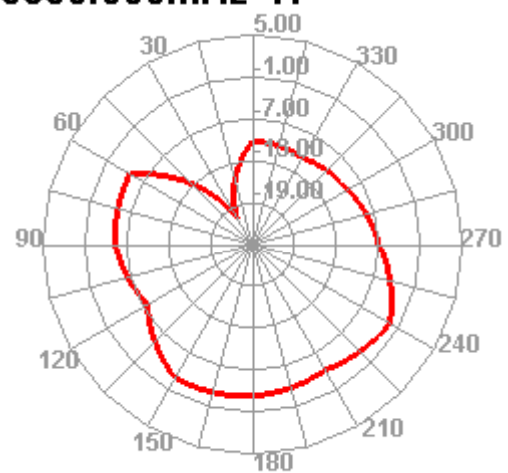


Radiation Pattern For WiFi Antenna(5850MHz)

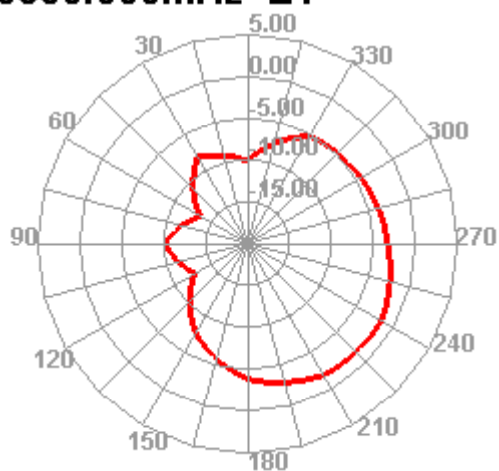
5850.000MHz



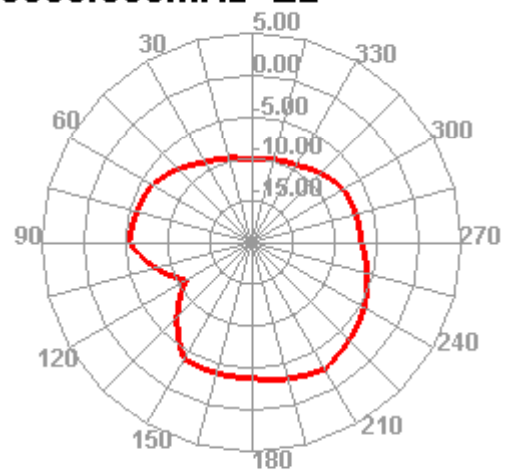
5850.000MHz H



5850.000MHz E1



5850.000MHz E2





WiFi Antenna

