Dongguan YiJia Electronics Communication Technology Co.,Ltd.

SPECIFICATION FOR APPROVAL

Date	2024/06/25
File No	24062502
Revision	1.0

CUSTOMER: GUIDE

CUSTOMER NO: ZC19

PART NAME: WIFI Antenna L=280mm MHF

SUPPLIER NO: YJT01.220.030.302A

Date: Q “TY:

CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
ChenGuoqiang	XieLi	ChenXingyi

YJ-RD-F04-A

add：YuanfuIndustrialZone,59MuyuRoad,ShatouCommunity,ChanganTown,DongguanCity
Tel:0769-82586086 Fax:0769-82586086

Admission book item table

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11	N/A	N/A	N/A
12	-	-	-
13	-	-	-

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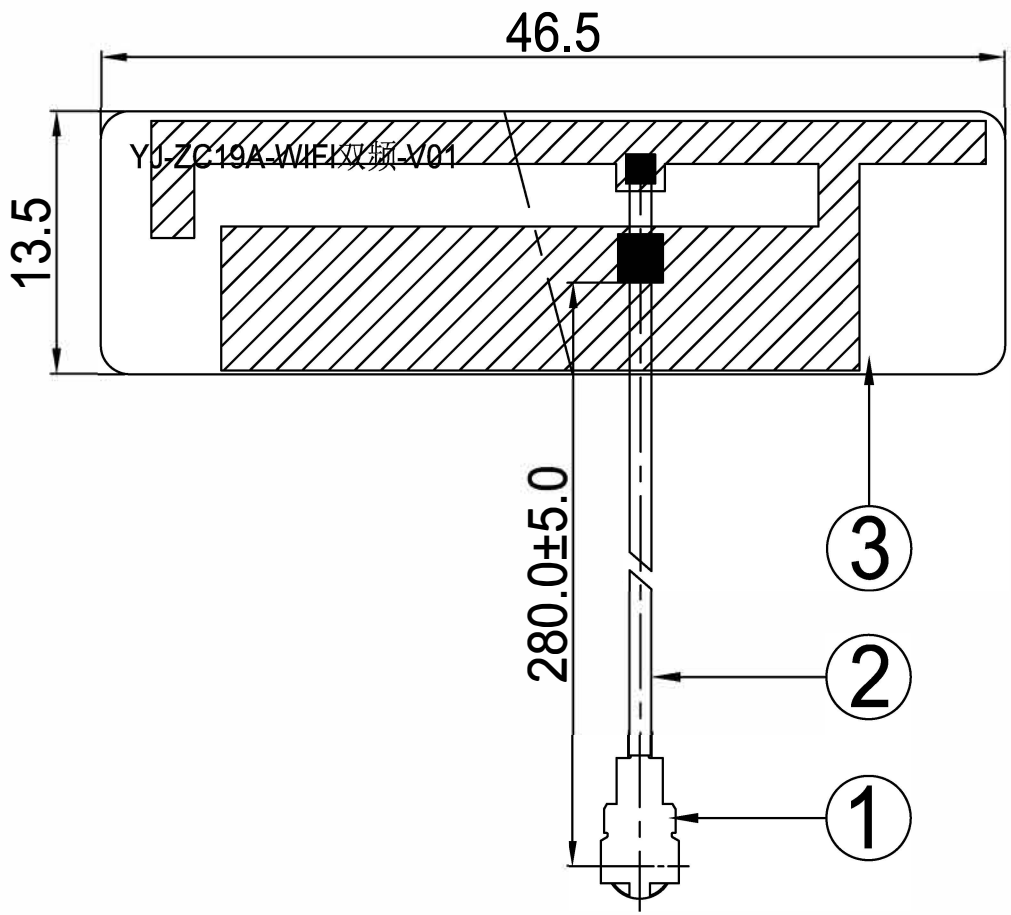
RoHS Compatible

CUSTOMER	
PART NO	

REV.	DESCRIPTION	DATE
A	Initial issue	2024-03-15
B	Modifying FPC	2024-05-13



NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY
3	FPC	46.5*13.5mm	FPC	FPC11XXXA.P01	1
2	Coaxial Cable	O.D.1.13 Black	O.D.1.13	COA100XXA.P01	1
1	Mini Connector	Au Plated 1代	Cu	TER100XXA.P01	1

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PART NAME: WIFI Antenna L=280mm MHF

PART NO.: YJT01.220.030.302A

DATE: 2024-05-13

APPROVED BY	CHECKED BY	DESIGNED BY

UNITS: mm
SCALE: 1/1
REVISION: B

Tolerance
X.X ±0.50
X.XX±0.15
X° ±3°

Antenna Specification

Electrical Properties	
Frequency	2.4-2.5GHz 5.18-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	1 dBi@2.4-2.5GHz 1 dBi@5.18-5.85GHz
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	First generation IPEX
Cable Type	O.D.1.13mm
Cable Length	50mm
Cable Color	White
Operating Temp.	-40 ~ +85 ˚C
Storage Temp / Humidity	25±5˚C / <70%

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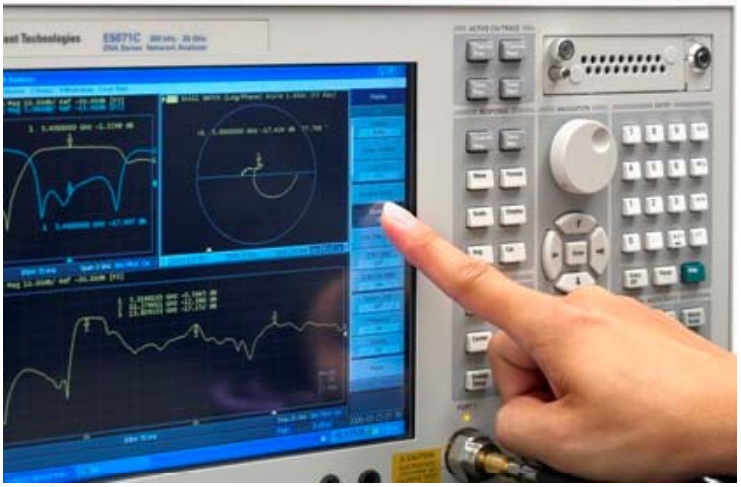
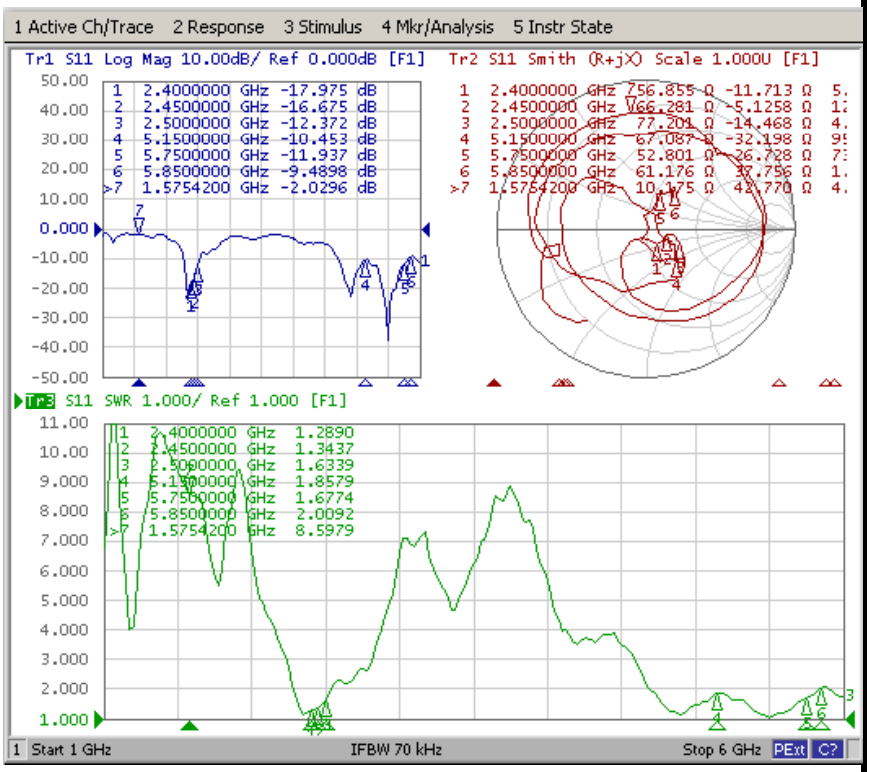
Agilent E5071B	
S Parameter Test // WiFi Antenna	

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Passive Test For WiFi Antenna(2.4G)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	35.2	-4.6	1.0
2410	36.6	-4.4	1.0
2420	38.3	-4.2	-0.9
2430	38.6	-4.1	-0.8
2440	39.2	-4.1	-0.7
2450	41.8	-3.8	-0.4
2460	40.9	-3.9	-0.4
2470	40.5	-3.9	-0.2
2480	38.9	-4.1	-0.1
2490	36.3	-4.3	-0.1
2500	37.2	-4.2	-0.1

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Passive Test For WiFi Antenna(5.8G)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	32.5	-4.8	0.2
5200	37.8	-4.2	0.8
5250	42.7	-3.6	0.6
5300	48.7	-3.1	0.8
5350	52.0	-2.8	1.0
5400	52.4	-2.8	0.4
5450	52.9	-2.7	0.6
5500	52.2	-2.8	0.7
5550	46.8	-3.3	0.6
5600	44.4	-3.5	0.5
5650	57.8	-2.3	0.7
5700	54.9	-2.6	0.2
5750	48.9	-3.1	0.8
5800	42.7	-3.6	0.4
5850	40.8	-3.8	1.0

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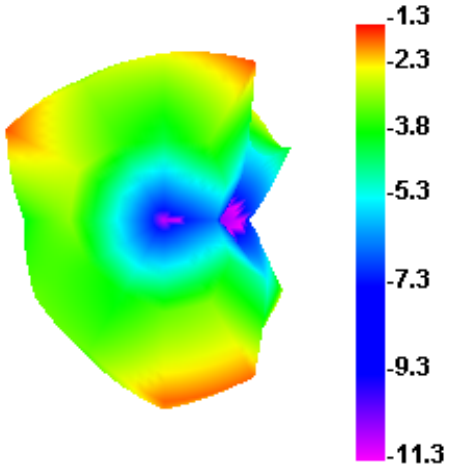
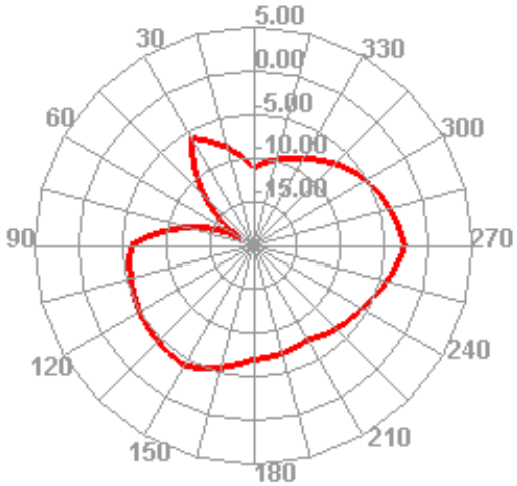
Radiation Pattern For WiFi Antenna

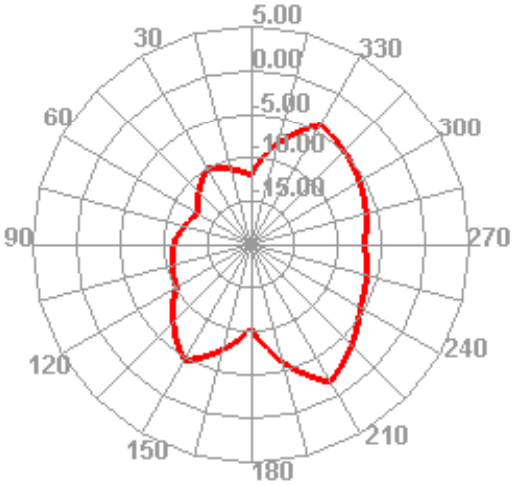
2400.000MHz



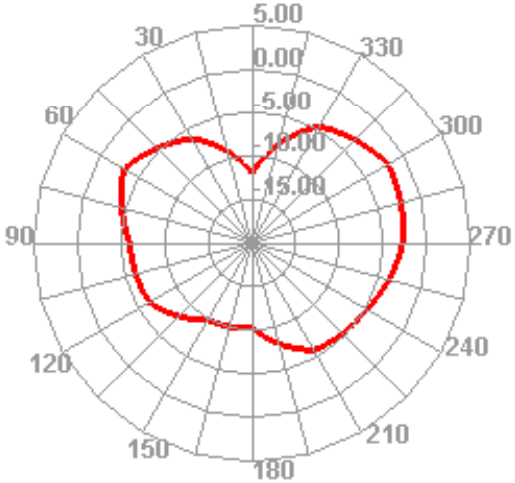
2400.000MHz H



2400.000MHz E1



2400.000MHz E2



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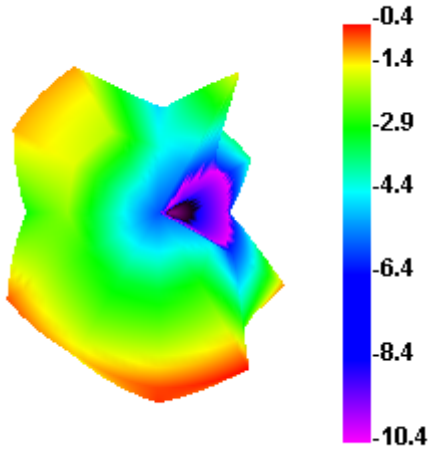
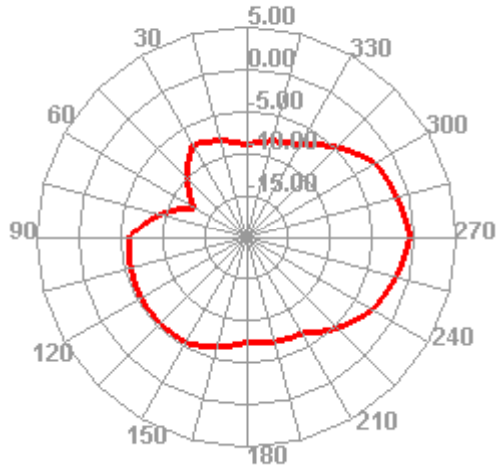
Radiation Pattern For WiFi Antenna

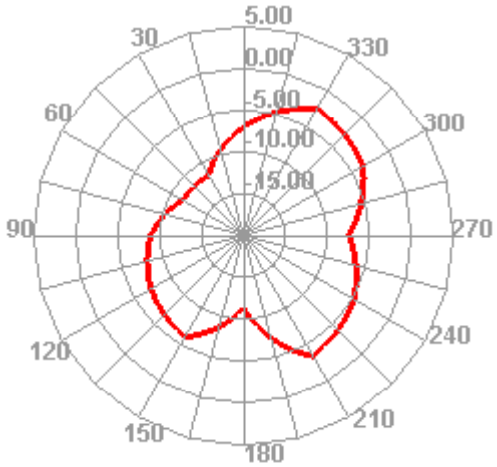
2450.000MHz



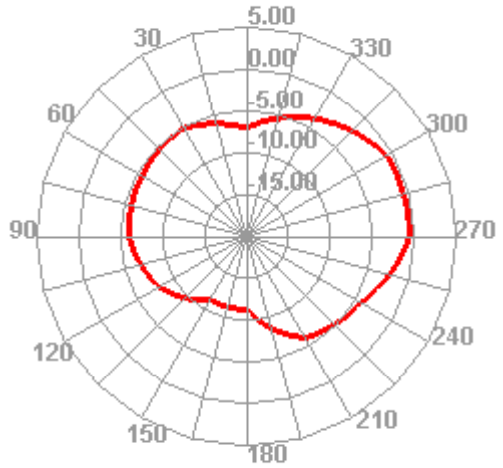
2450.000MHz H



2450.000MHz E1



2450.000MHz E2



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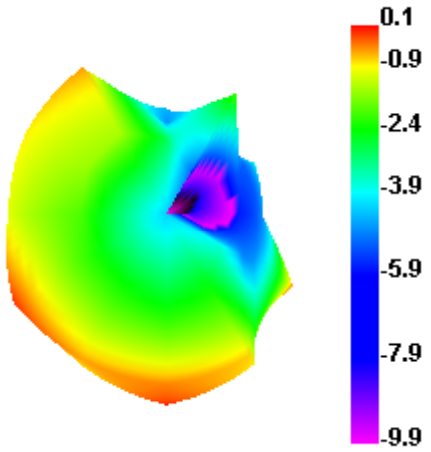
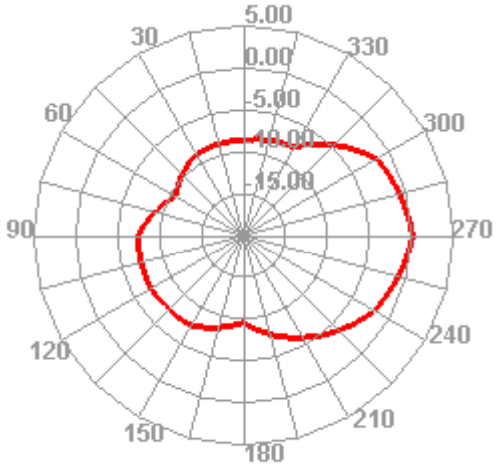
Radiation Pattern For WiFi Antenna

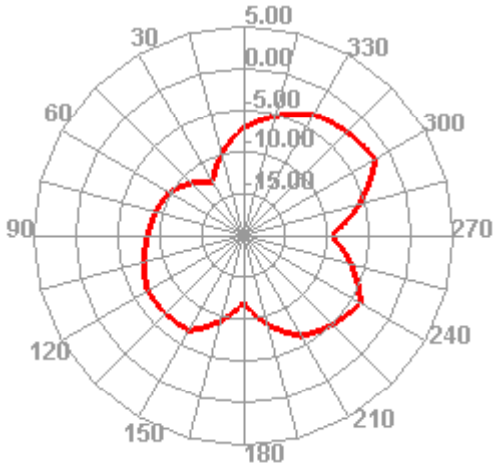
2500.000MHz



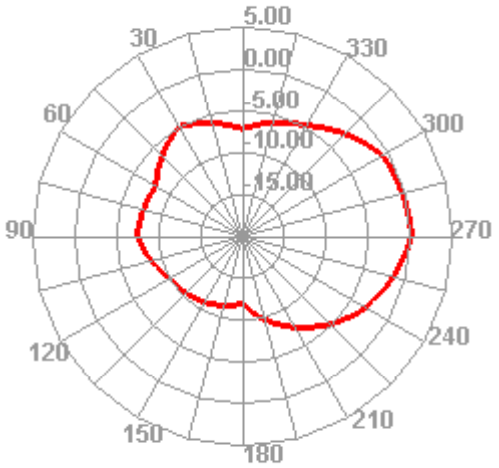
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



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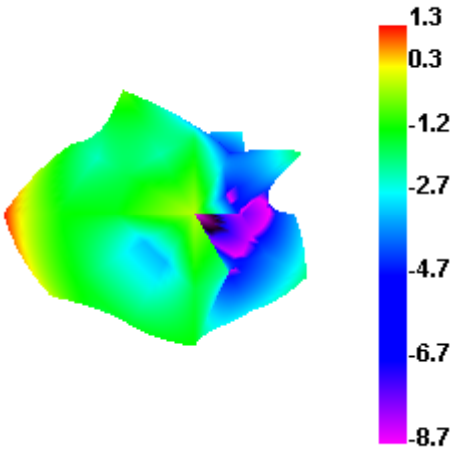
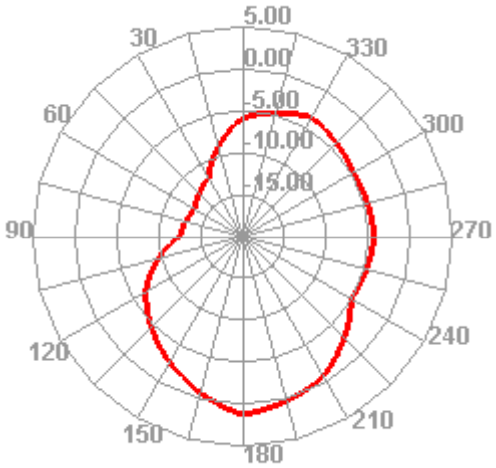
Radiation Pattern For WiFi Antenna

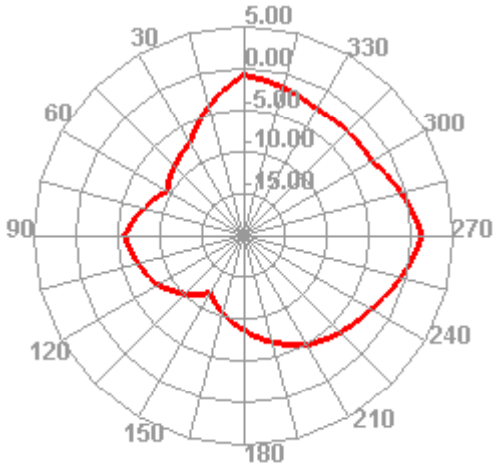
5150.000MHz



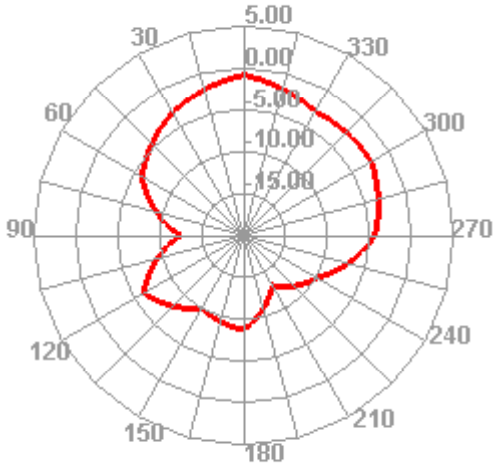
5150.000MHz H



5150.000MHz E1



5150.000MHz E2



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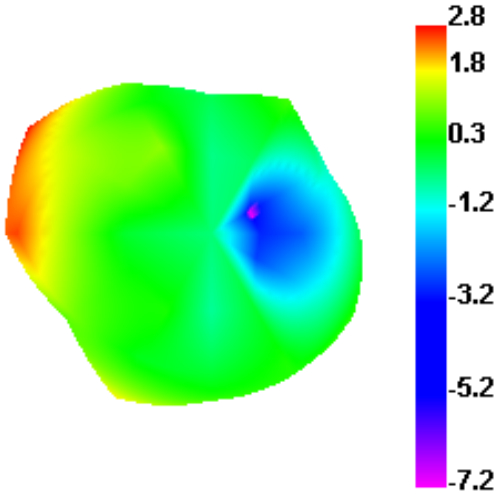
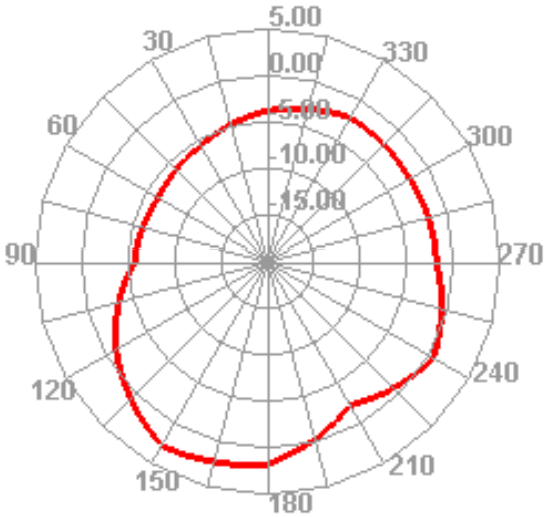
Radiation Pattern For WiFi Antenna

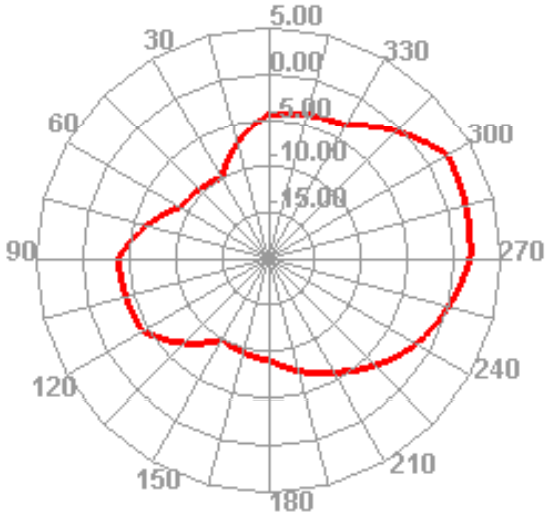
5500.000MHz



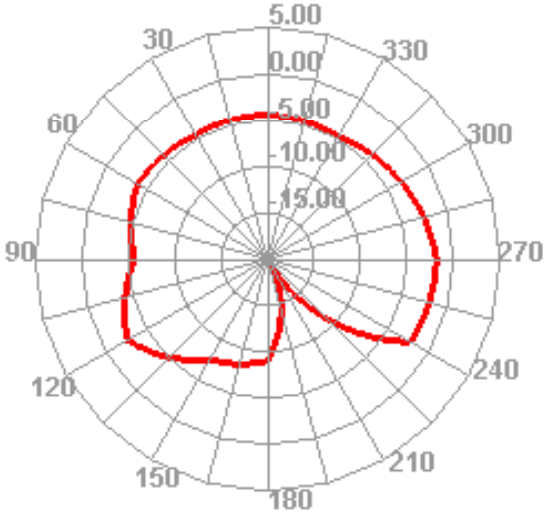
5500.000MHz H



5500.000MHz E1



5500.000MHz E2



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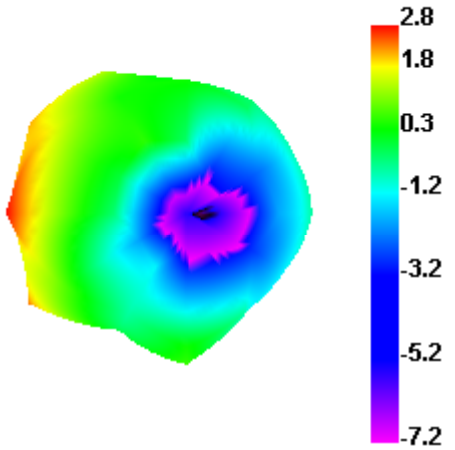
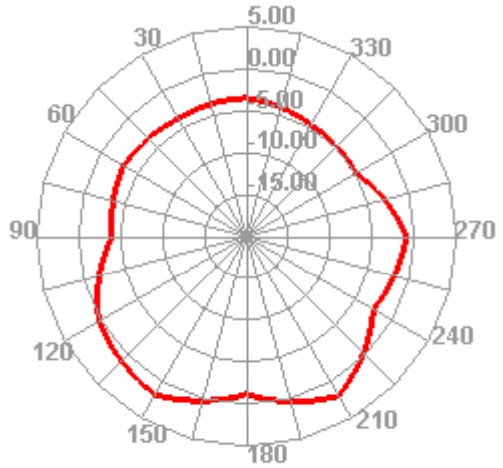
Radiation Pattern For WiFi Antenna

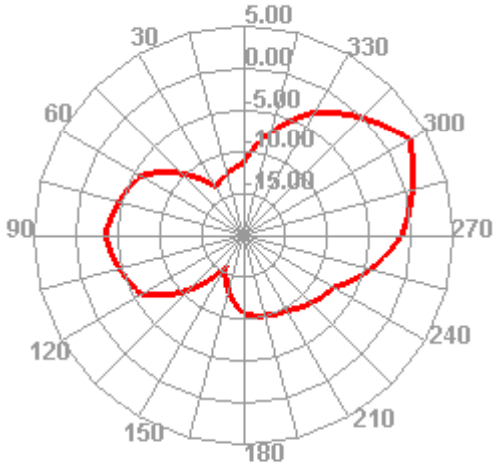
5750.000MHz



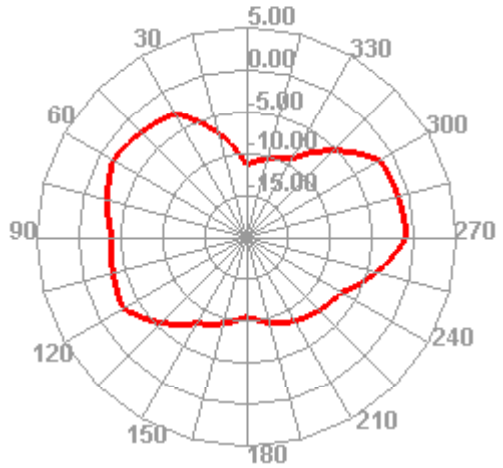
5750.000MHz H



5750.000MHz E1



5750.000MHz E2



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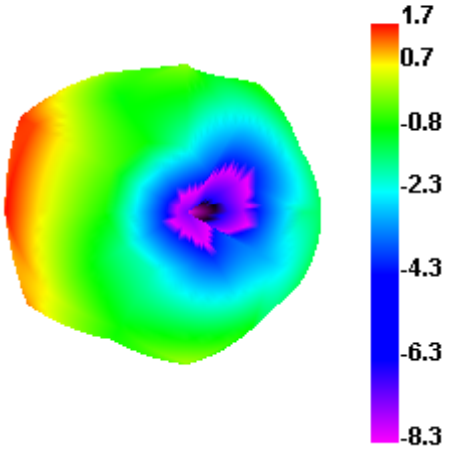
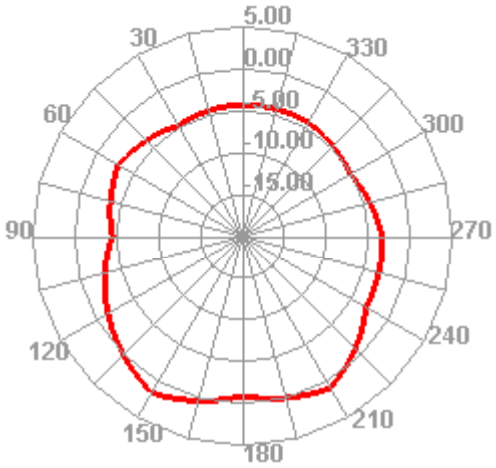
Radiation Pattern For WiFi Antenna

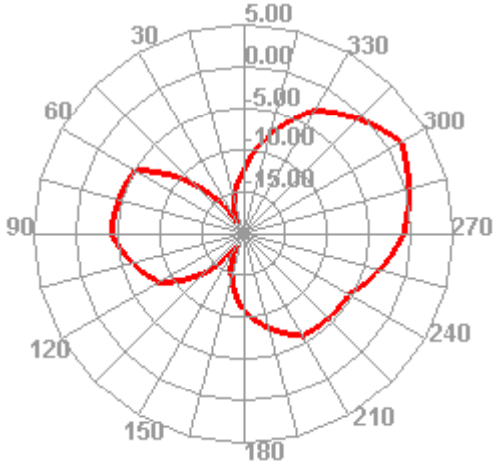
5850.000MHz



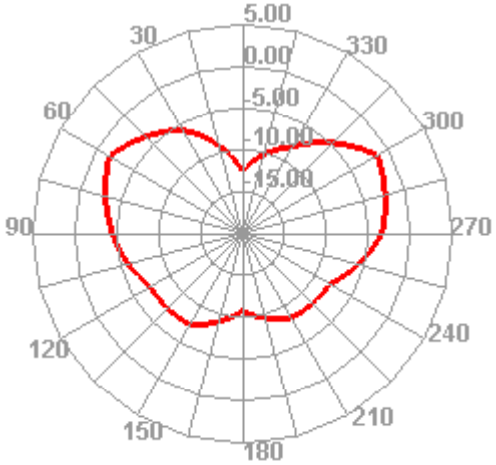
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



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WiFi Antenna	