



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	2024/03/14
编号 File No	24031406
版本 Revision	1.0

客 户
CUSTOMER:

客户料号
CUSTOMER NO:

501007935

品 名
PART NAME:

RF Antenna _L

供方料号
SUPPLIER NO:

YJI01.005.098.306A

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



承认书项目表

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

RoHS
Compatible

CUSTOMER
PART NO

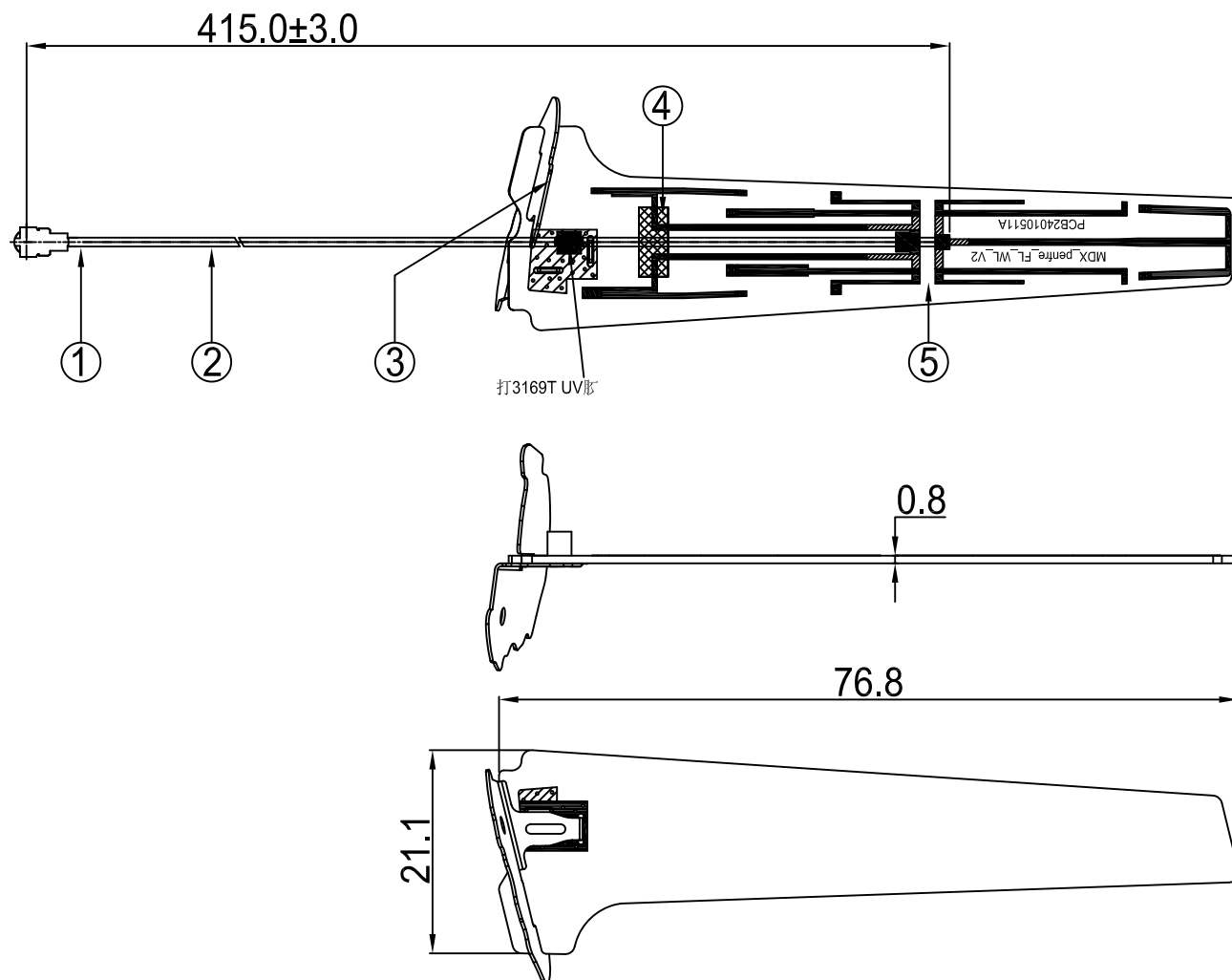
REV.



DESCRIPTION

DATE

2024-01-05



5	PCB	76.8*21.1*0.8MM	PCB	PCB1050XA.P01	1
4	Paste+EVA	7.5*2.5*2.0MM	Paste+EVA	EVA10391A.P01	1
3	Metal	23.6*22.7*0.3MM	SUS304	MET1018XA.P01	1
2	Coaxial Cable	O.D 1.37 Gray Low Loss	O.D 1.37	COA1001XA.P01	1
1	Mini Connector	Au Plated 1	Cu	TER1000XA.P02	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY



东莞市一佳电子通讯科技有限公司

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

PART NAME: RF Antenna _L

PART NO.: YJI01.005.098.306A

DATE: 2024-01-05

APPROVED BY

CHECKED BY

DESIGNED BY



UNITS: mm

SCALE: 1/1

REVISION: A

Tolerance

X.X ±0.50

X.XX±0.15

X° ±3°



天线规格

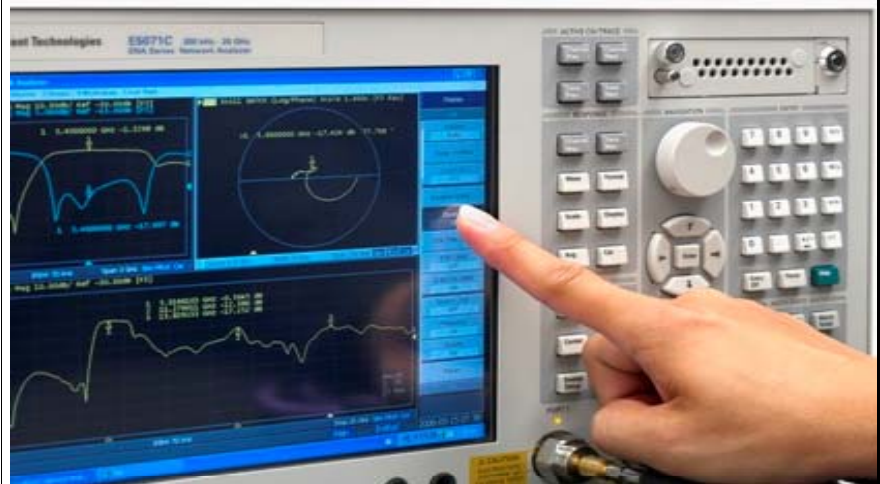
Antenna Specification

Electrical Properties	
Frequency	830-930MHz 1.44GHz 2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	3.5 Max@830-930MHz 2.0 Max@1.44GHz 2.0 Max@2.4-2.5GHz 2.0 Max@5.15-5.85GHz
Gain	0.7 dBi@830-930MHz 2.6 dBi@1.44GHz 2.6 dBi@2.4-2.5GHz 3.1 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	1 IPEX
Cable Type	O.D.1.37mm
Cable Length	415mm
Cable Color	Gray
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

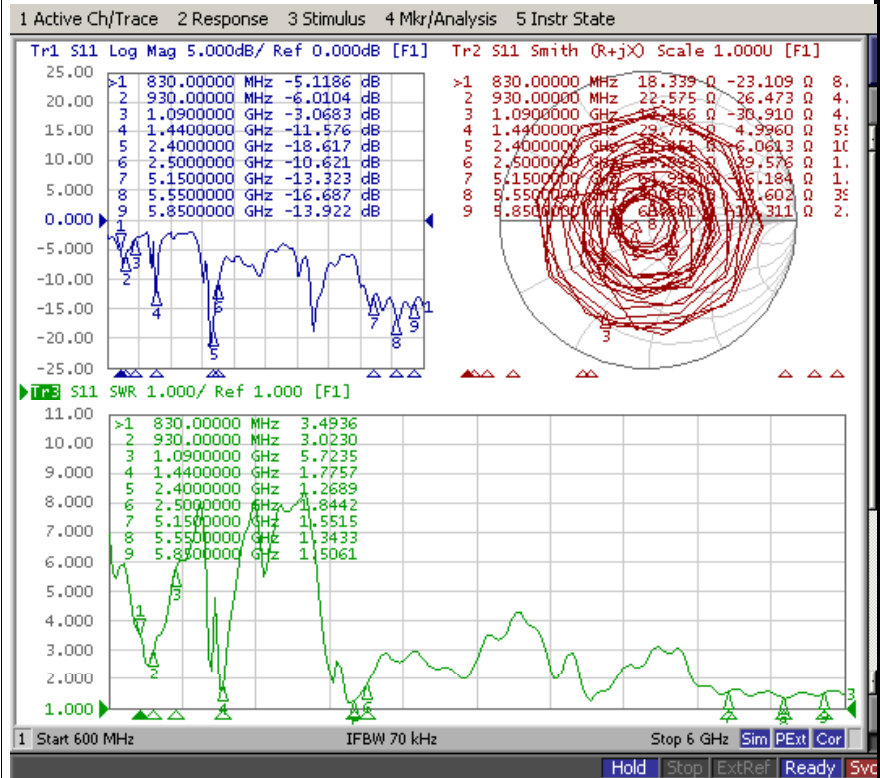


Antenna Performance Test

**Agilent
E5071B**

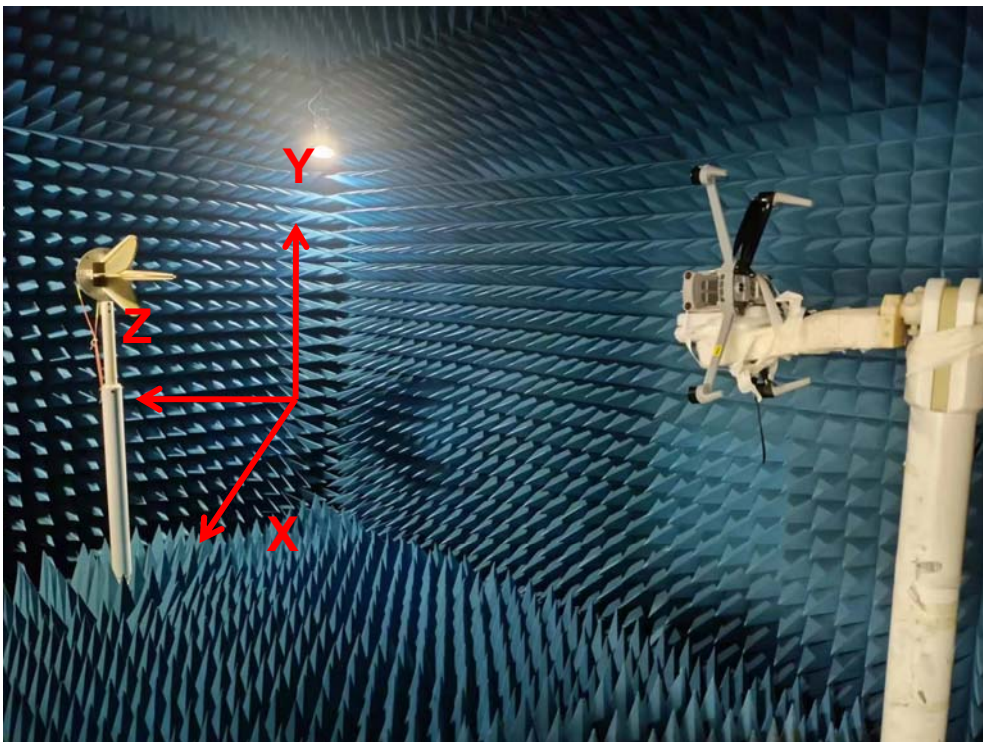
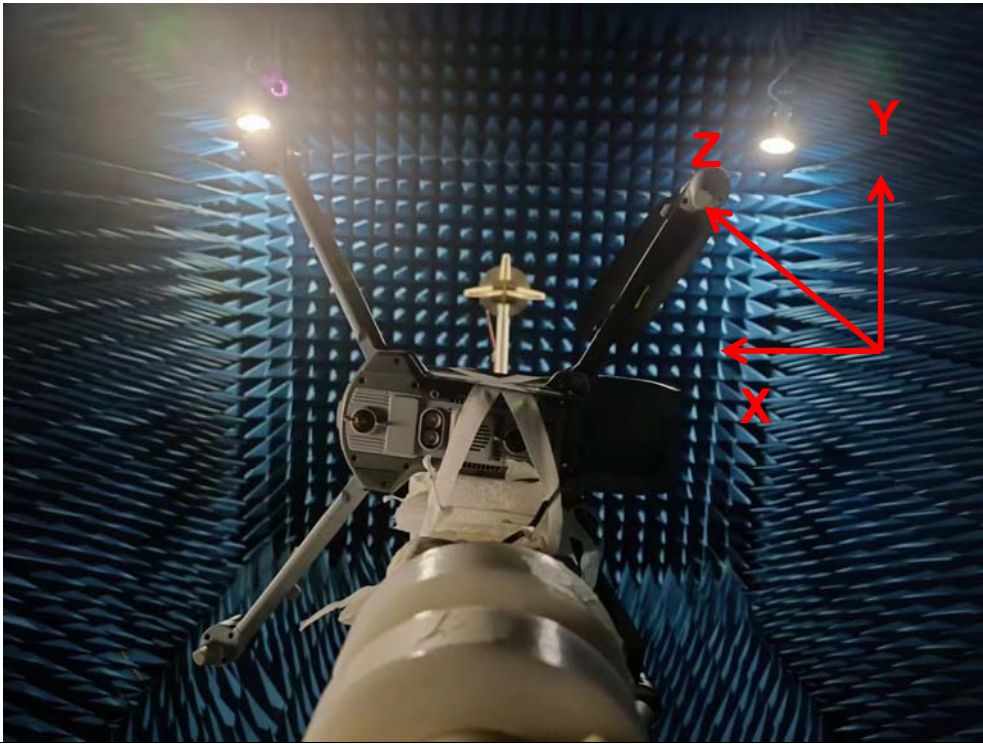


**S
Parameter
Test //
WIFI-L
Antenna**





Antenna Passive Test





Passive Test For Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
820	29.2	-5.4	-1.9
830	32.1	-4.9	-1.3
840	34.0	-4.7	-1.2
850	36.7	-4.4	-0.5
860	39.3	-4.1	0.1
870	42.4	-3.7	0.7
880	42.2	-3.8	0.7
890	40.1	-4.0	0.6
900	39.9	-4.0	0.7
910	31.2	-5.1	-0.6
920	29.1	-5.4	-1.1
930	25.6	-5.9	-2.1
940	24.0	-6.2	-2.5
950	23.1	-6.4	-2.4
960	22.6	-6.5	-2.6



Passive Test For Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1430	64.5	-1.9	2.6
1438	64.2	-1.9	2.6
1446	61.6	-2.1	2.3
1454	57.4	-2.4	1.9
1462	52.0	-2.8	1.2
1470	46.2	-3.4	0.7
1478	38.2	-4.2	-0.2
1486	32.6	-4.9	-0.9
1494	30.2	-5.2	-1.1
1502	28.6	-5.4	-1.1
1510	25.8	-5.9	-1.5





Passive Test For WIFI2.4 Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	66.1	-1.8	2.4
2410	65.8	-1.8	2.6
2420	66.4	-1.8	2.2
2430	65.3	-1.9	2.0
2440	64.1	-1.9	2.0
2450	67.6	-1.7	2.2
2460	66.9	-1.8	2.1
2470	66.1	-1.8	2.0
2480	63.7	-2.0	1.8
2490	60.2	-2.2	1.7
2500	56.9	-2.5	1.9



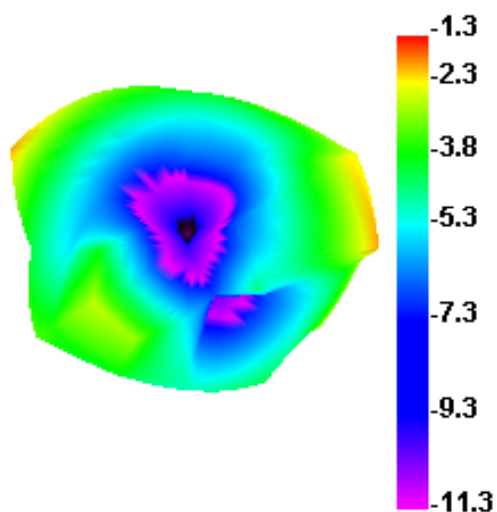
Passive Test For WiFi5.8 Antenna

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	38.6	-4.1	0.0
5200	37.4	-4.3	-0.4
5250	40.6	-3.9	-0.3
5300	47.0	-3.3	0.7
5350	48.8	-3.1	1.3
5400	46.5	-3.3	1.2
5450	41.3	-3.8	0.6
5500	42.6	-3.7	1.1
5550	45.8	-3.4	1.9
5600	48.0	-3.2	2.2
5650	59.4	-2.3	3.1
5700	54.4	-2.6	2.0
5750	50.9	-2.9	1.6
5800	49.0	-3.1	0.5
5850	46.6	-3.3	0.8

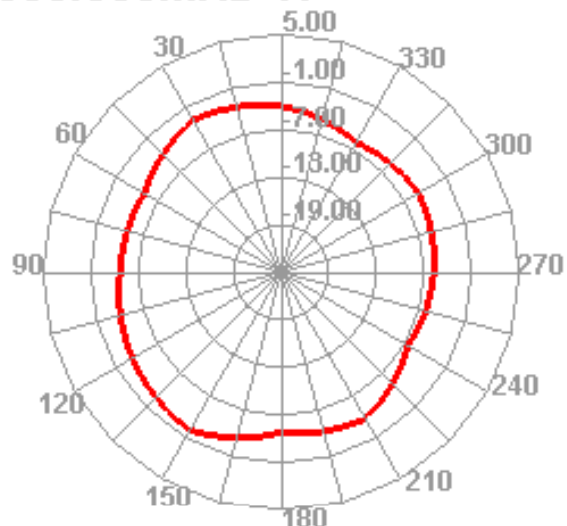


Radiation Pattern For Antenna

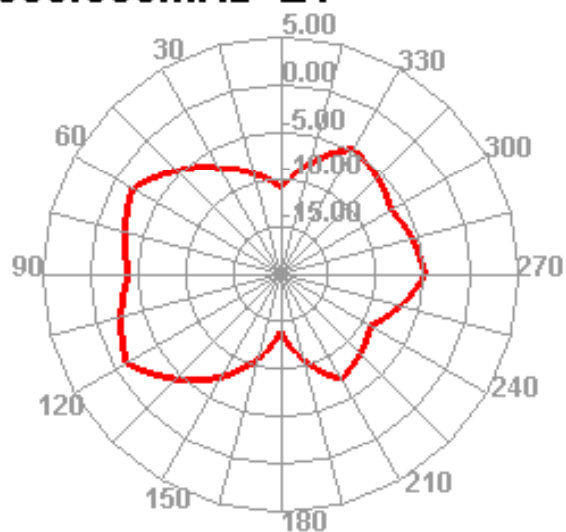
830.000MHz



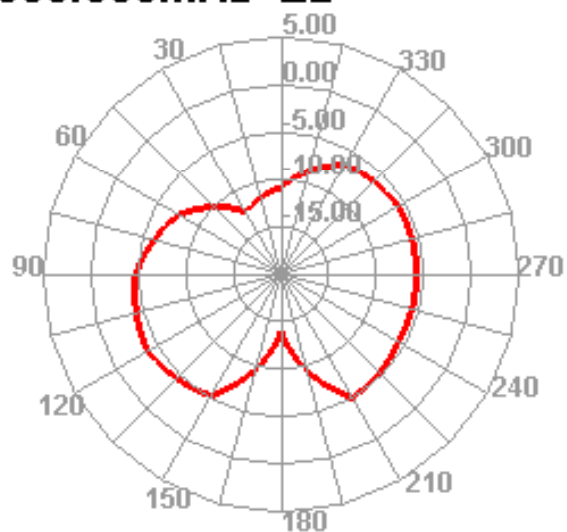
830.000MHz H



830.000MHz E1



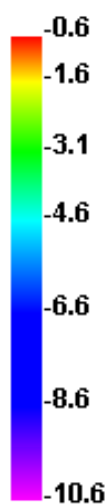
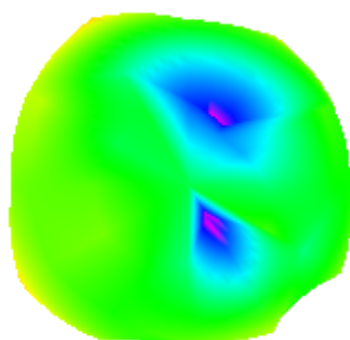
830.000MHz E2



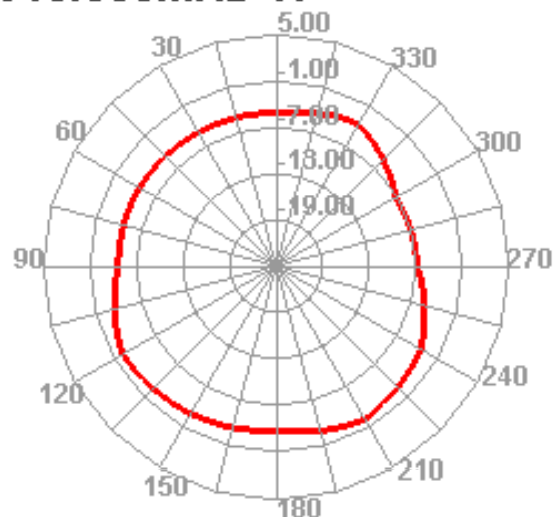


Radiation Pattern For Antenna

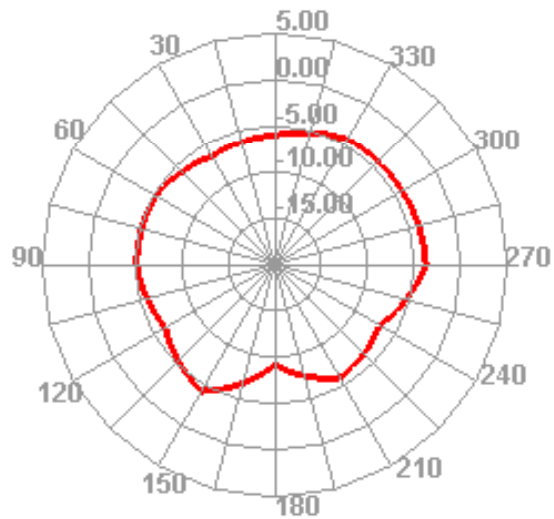
910.000MHz



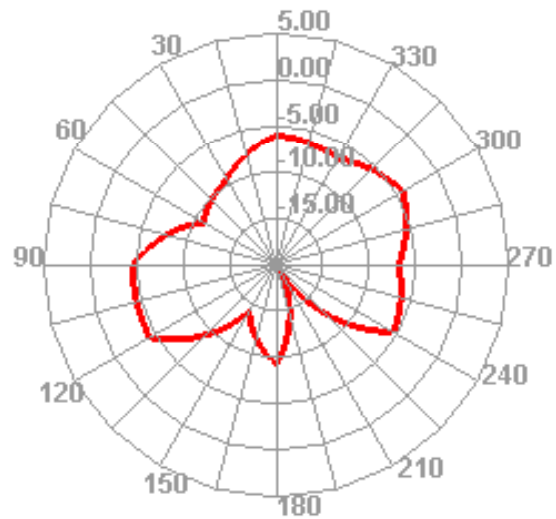
910.000MHz H



910.000MHz E1



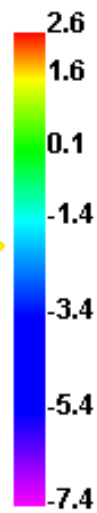
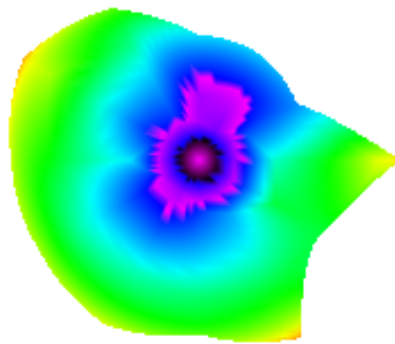
910.000MHz E2



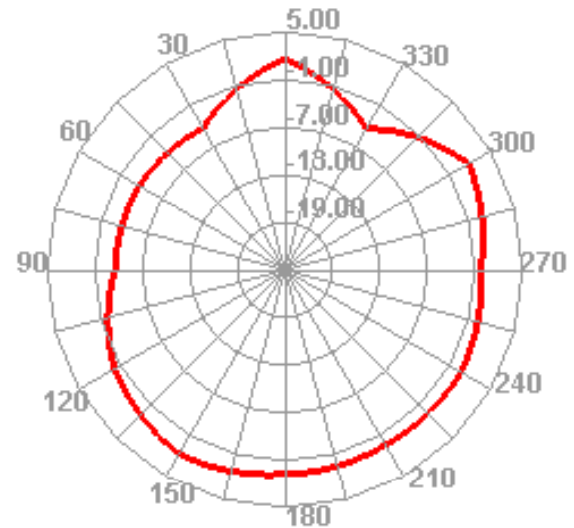


Radiation Pattern For Antenna

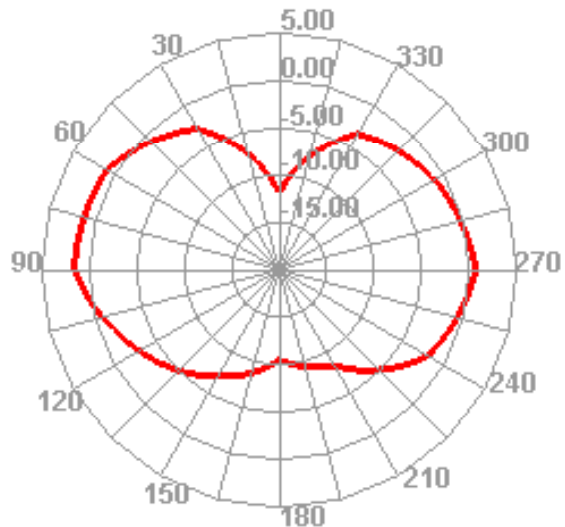
1438.000MHz



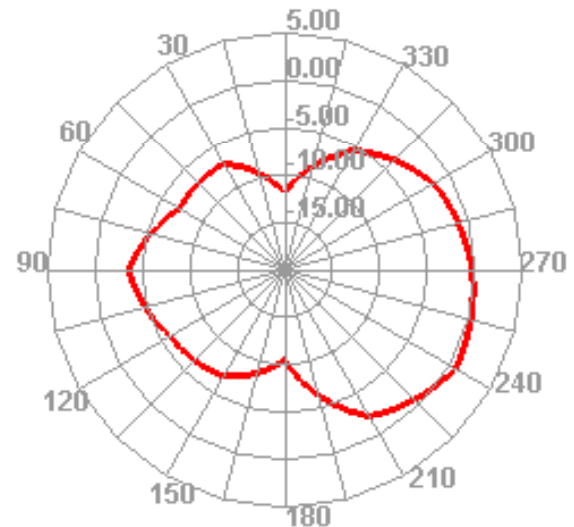
1438.000MHz H



1438.000MHz E1



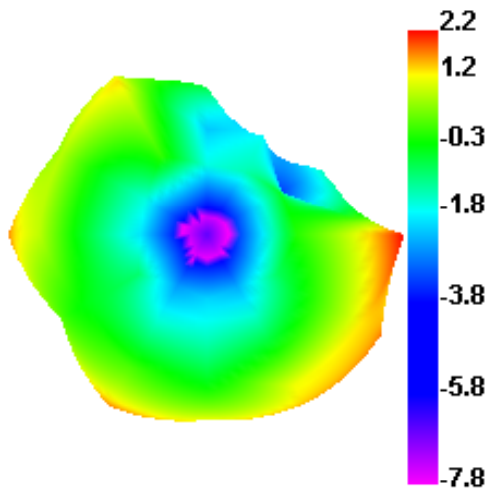
1438.000MHz E2



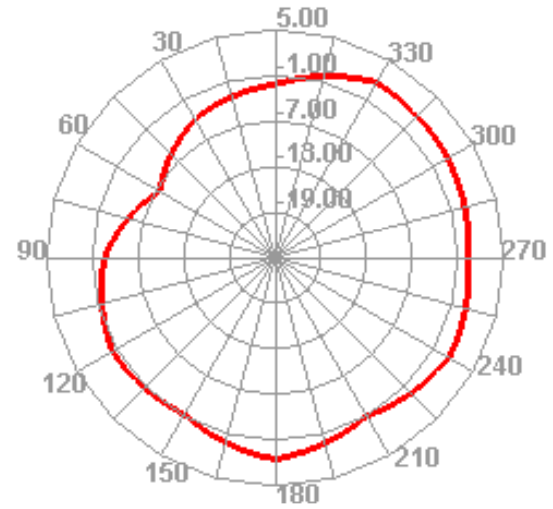


Radiation Pattern For Antenna

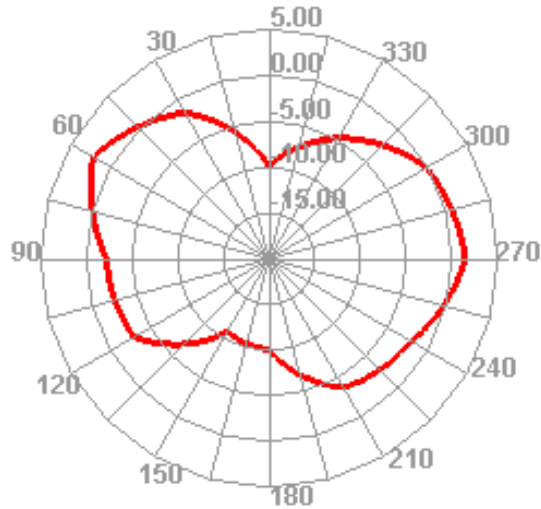
2450.000MHz



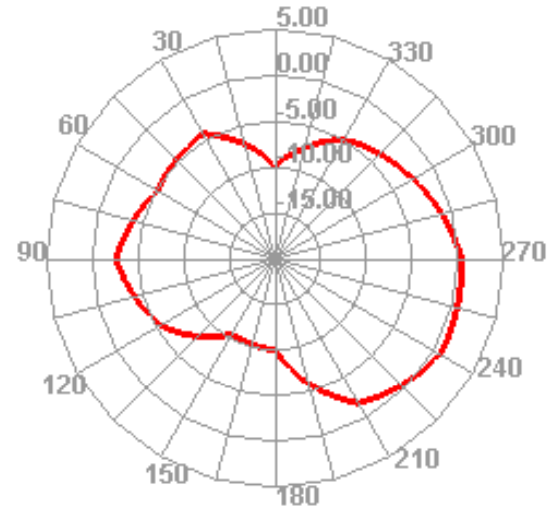
2450.000MHz H



2450.000MHz E1



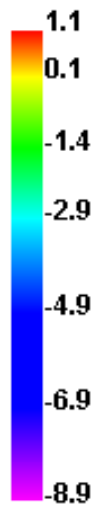
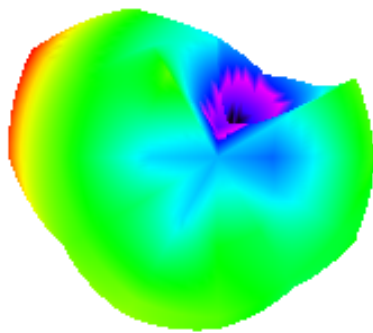
2450.000MHz E2



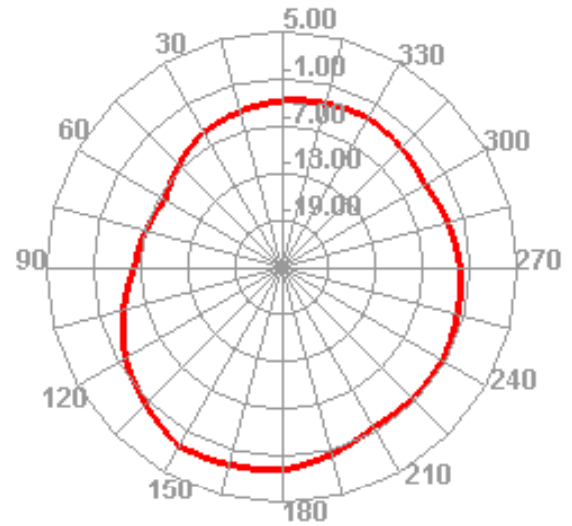


Radiation Pattern For Antenna

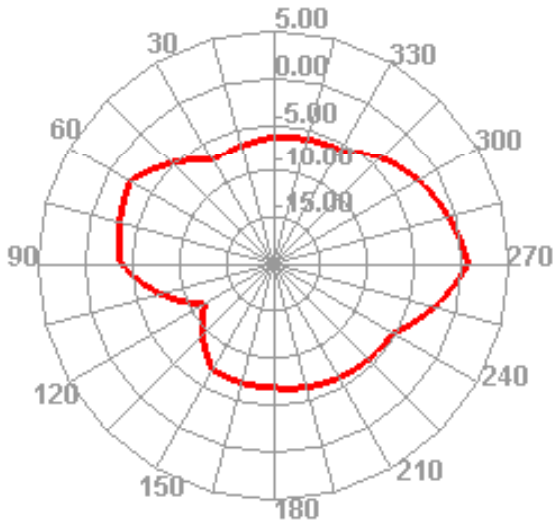
5500.000MHz



5500.000MHz H



5500.000MHz E1



5500.000MHz E2

