



Dongguan YiJia Electronics Communication Technology Co.,Ltd.

SPECIFICATION FOR APPROVAL

Date 2024/05/17
File No 24051701
Revision 1.0

CUSTOMER: Dongguan Fyrnetics Co., Ltd.

CUSTOMER NO: E04-000013

PART NAME: WIFI双频Antenna L=165mm MHF

SUPPLIER NO: YJL01.156.009.301A

Date:

Q'TY:

CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
 ChenGuoqiang	XieLi	ChenXingyi

YJ-RD-F04-A

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

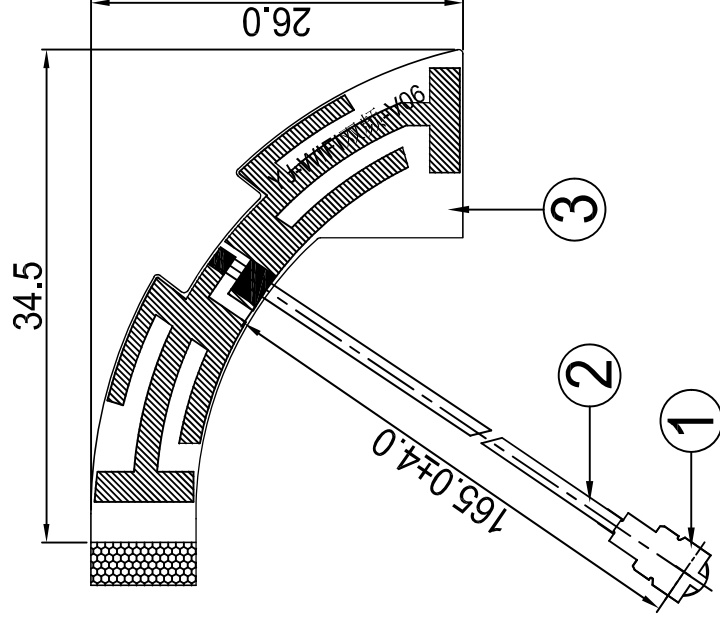


承认书项目表

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10	RoHS报告 (RoHS Test Report)	**	**
11	N/A	N/A	N/A
12	-	-	-
13	-	-	-

CUSTOMER
PART NO

REV.	DESCRIPTION	DATE
A	首次发行	2023-09-16
B	修改线长	2023-11-03
C	修改离型纸	2023-11-08
D	修改FPC及线长	2023-11-13
E	修改FPC及线长	2023-12-23
F	修改FPC	2024-01-08
G	修改FPC	2024-01-11
H	修改线长	2024-03-18
I	修改线长	2024-05-14



焊炬高度 <1.3 (不含型纸)

3	FPC	32.5*26.0mm	FPC	FPC11XXXXA.P01	1
2	Coaxial Cable	O.D.1.13 Black	O.D.1.13	COA100XXA.P01	1
1	Mini Connector	Au Plated 1代 (原厂)	Cu	TER100XXA.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY

PART NO.: YJL01.156.009.301A		DATE: 2024-05-14	
APPROVED BY	CHECKED BY	DESIGNED BY	Tolerance
何清军	周棋	廖光喜	X.X ±0.50
			UNITS: mm
			SCALE: 1/1
			REVISION: 1
			X° ±3°

 东莞市一佳电子通讯科技有限公司
Dongguan Yijia Electronics Communication Technology Co., Ltd.

PART NAME: WIFI双频 Antenna L=165mm MHF

PART NO.: YJL01.156.009.301A

APPROVED BY	CHECKED BY	DESIGNED BY
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[illegible]

何清军	周棋	廖光喜	SCALE: 1/1
			REVISION:

REVISION:	6	7
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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 2.5 Max@5.15-5.85GHz
Gain	4.4 dBi@2.4-2.5GHz 3.4 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear

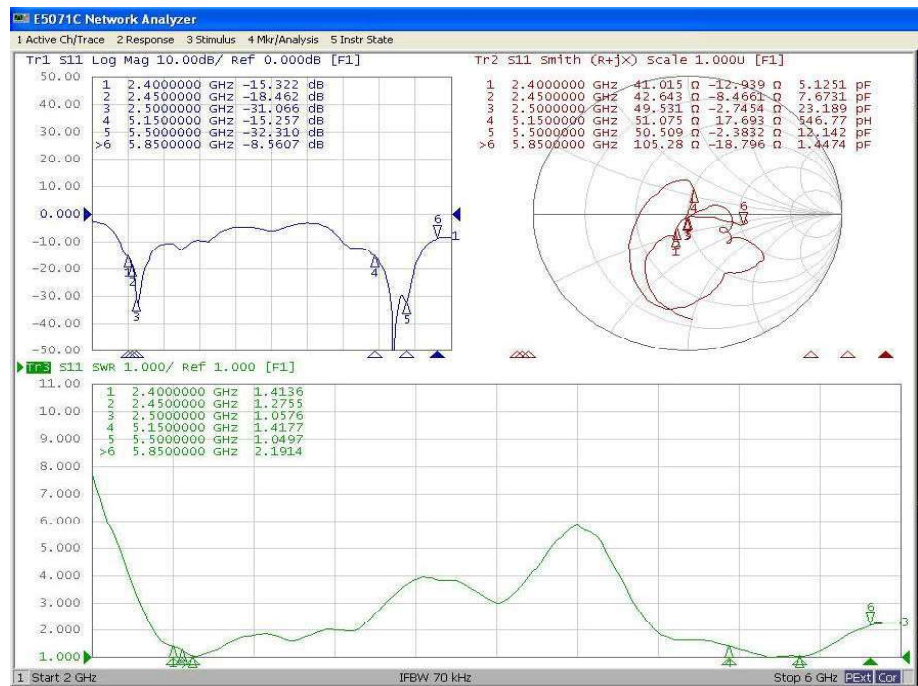
Test Conditions

DUT SN/PN	ES7-RW-131200#
Equipment Used	XH-IOE MPS2450 5*5*5m
Active Tester	Rohde&Schwarz CMW500
Passive Tester	Rohde&Schwarz ZVB8
Notes	Battery installed



Antenna Performance Test

**Agilent
E5071B
S11
Parameter
Test //
WiFi
Antenna**





Passive Test For WiFi Antenna(2.4G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	47.7	-3.2	3.8
2410	48.6	-3.1	3.9
2420	48.7	-3.1	3.9
2430	50.0	-3.0	4.0
2440	50.7	-3.0	3.9
2450	51.5	-2.9	3.6
2460	51.6	-2.9	4.2
2470	52.1	-2.8	4.3
2480	51.6	-2.9	4.4
2490	51.6	-2.9	4.4
2500	49.7	-3.0	4.2

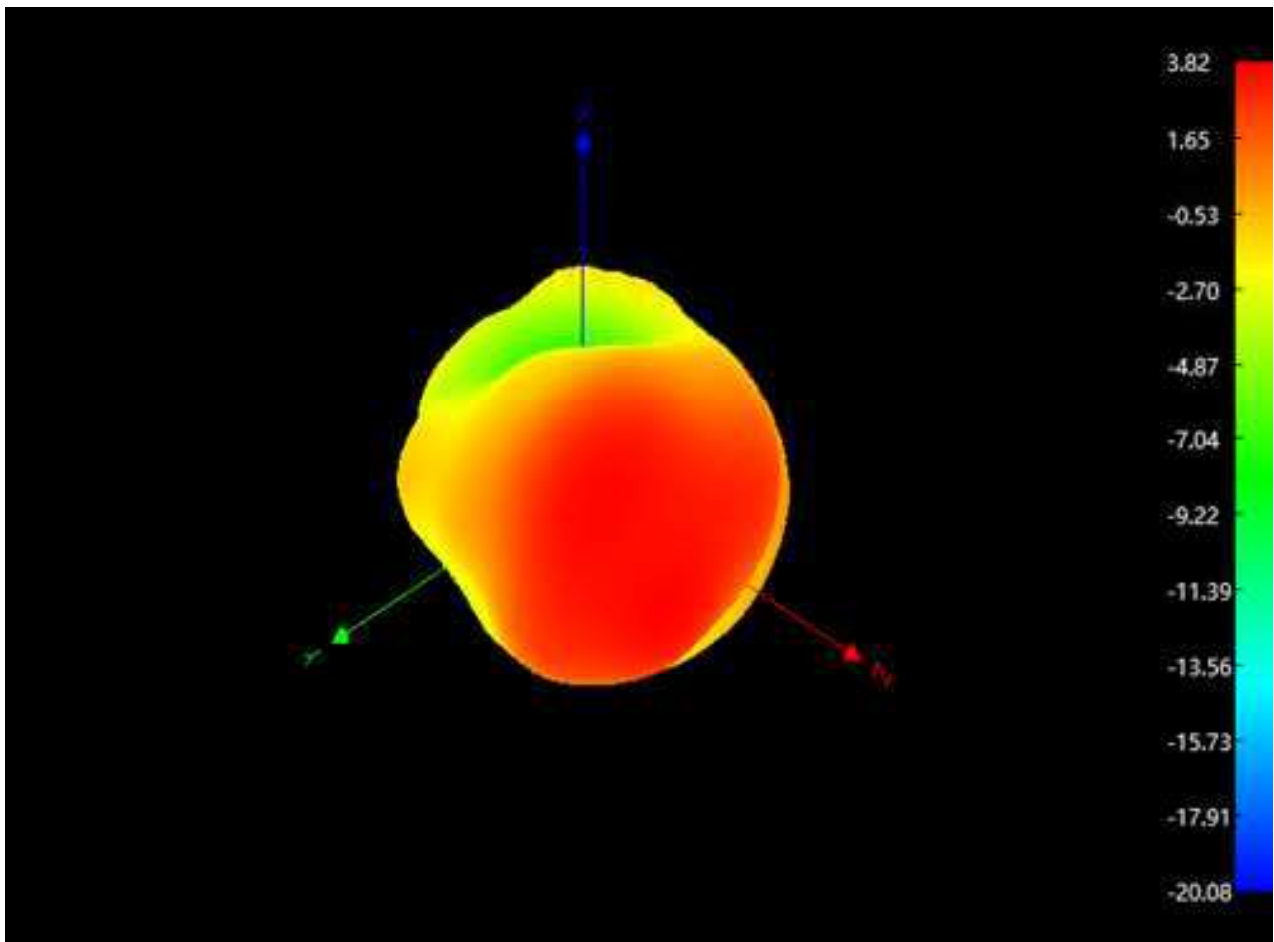


Passive Test For WiFi Antenna(5.8G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	50.8	-2.9	2.9
5200	52.6	-2.8	3.4
5250	50.0	-3.0	2.7
5300	50.0	-3.0	2.0
5350	47.4	-3.2	1.2
5400	49.2	-3.1	1.0
5450	44.9	-3.5	1.3
5500	40.1	-4.0	2.0
5550	47.0	-3.3	1.6
5600	44.4	-3.5	2.1
5650	41.2	-3.9	2.3
5700	41.8	-3.8	2.9
5750	40.9	-3.9	2.2
5800	40.0	-4.0	2.0
5850	40.9	-3.9	2.0

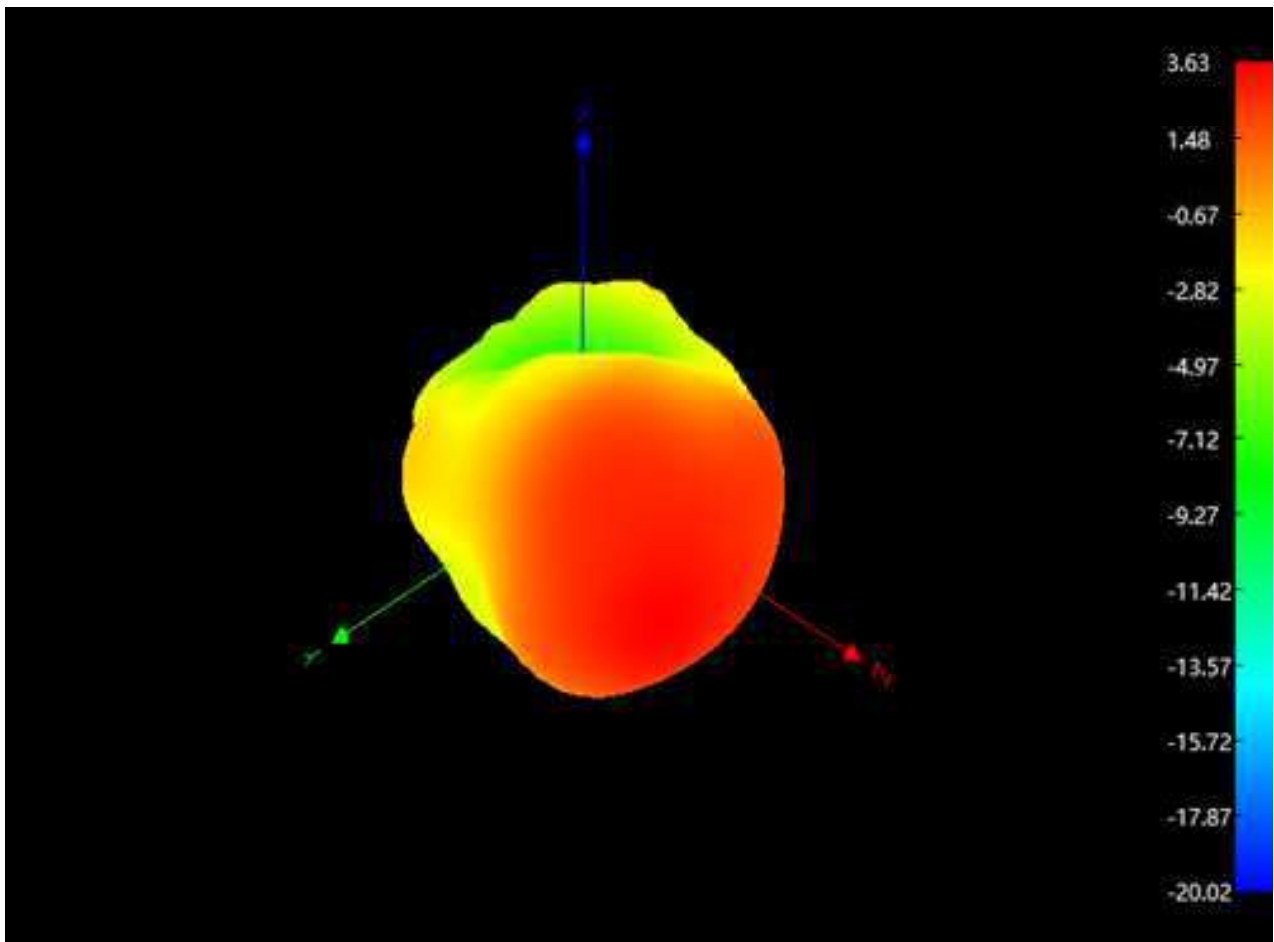


Radiation Pattern For WiFi Antenna (2400MHz)



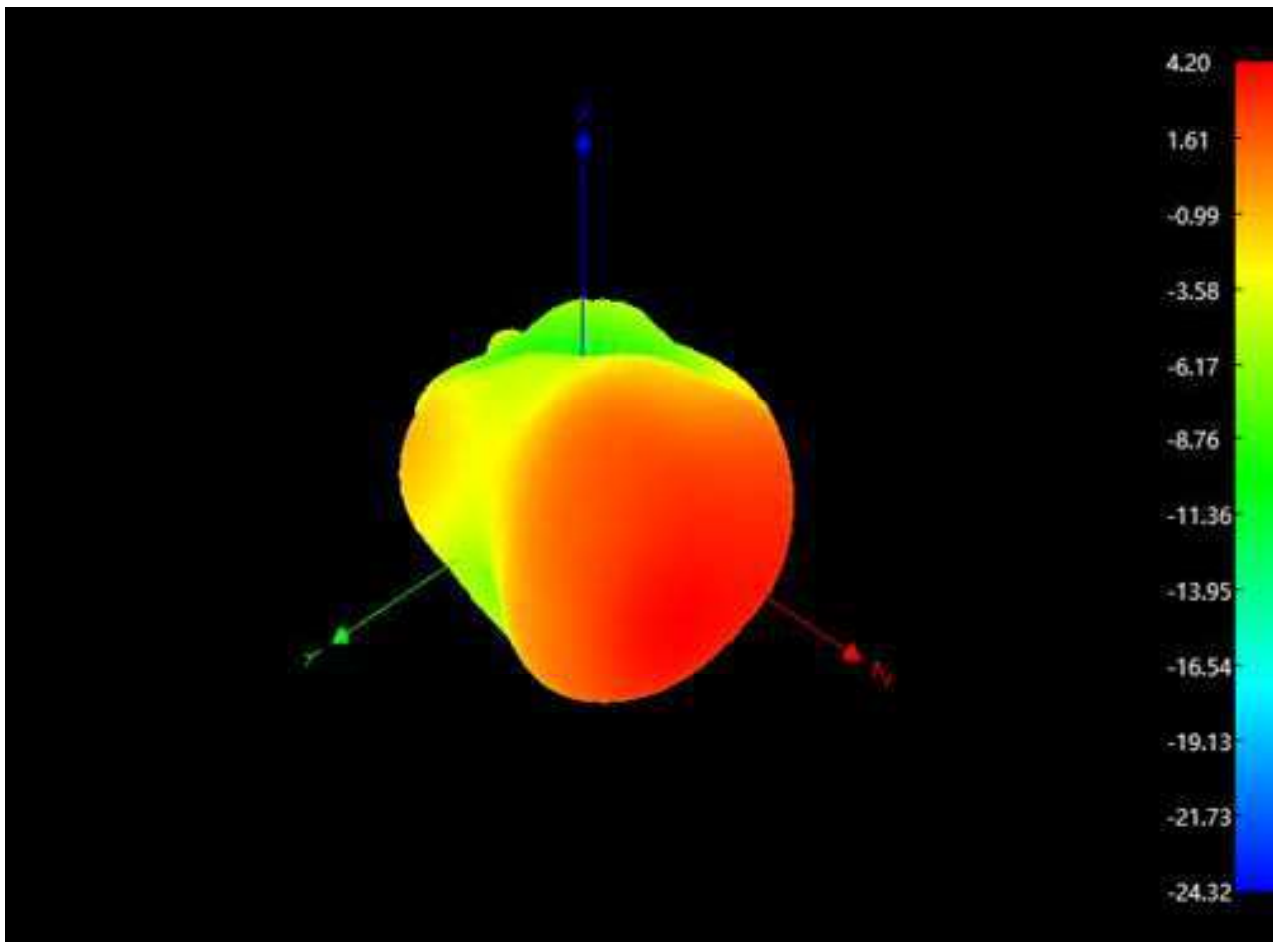


Radiation Pattern For WiFi Antenna (2450MHz)





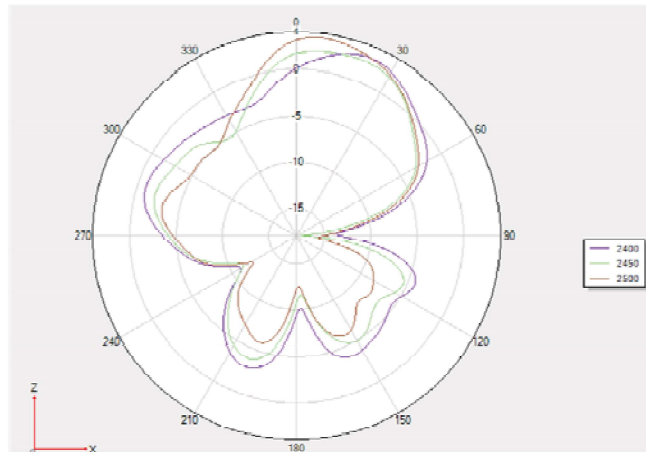
Radiation Pattern For WiFi Antenna (2500MHz)



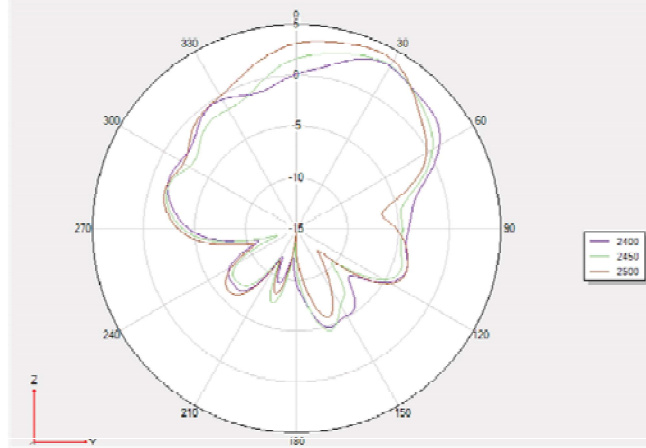


Radiation Pattern For WiFi Antenna

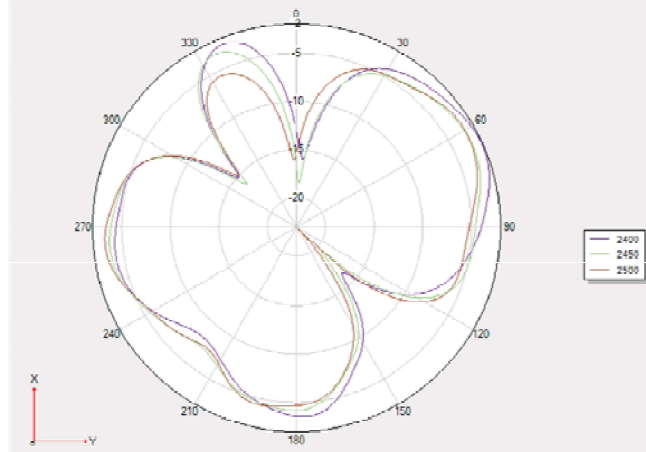
Phi 0°



Phi 90°

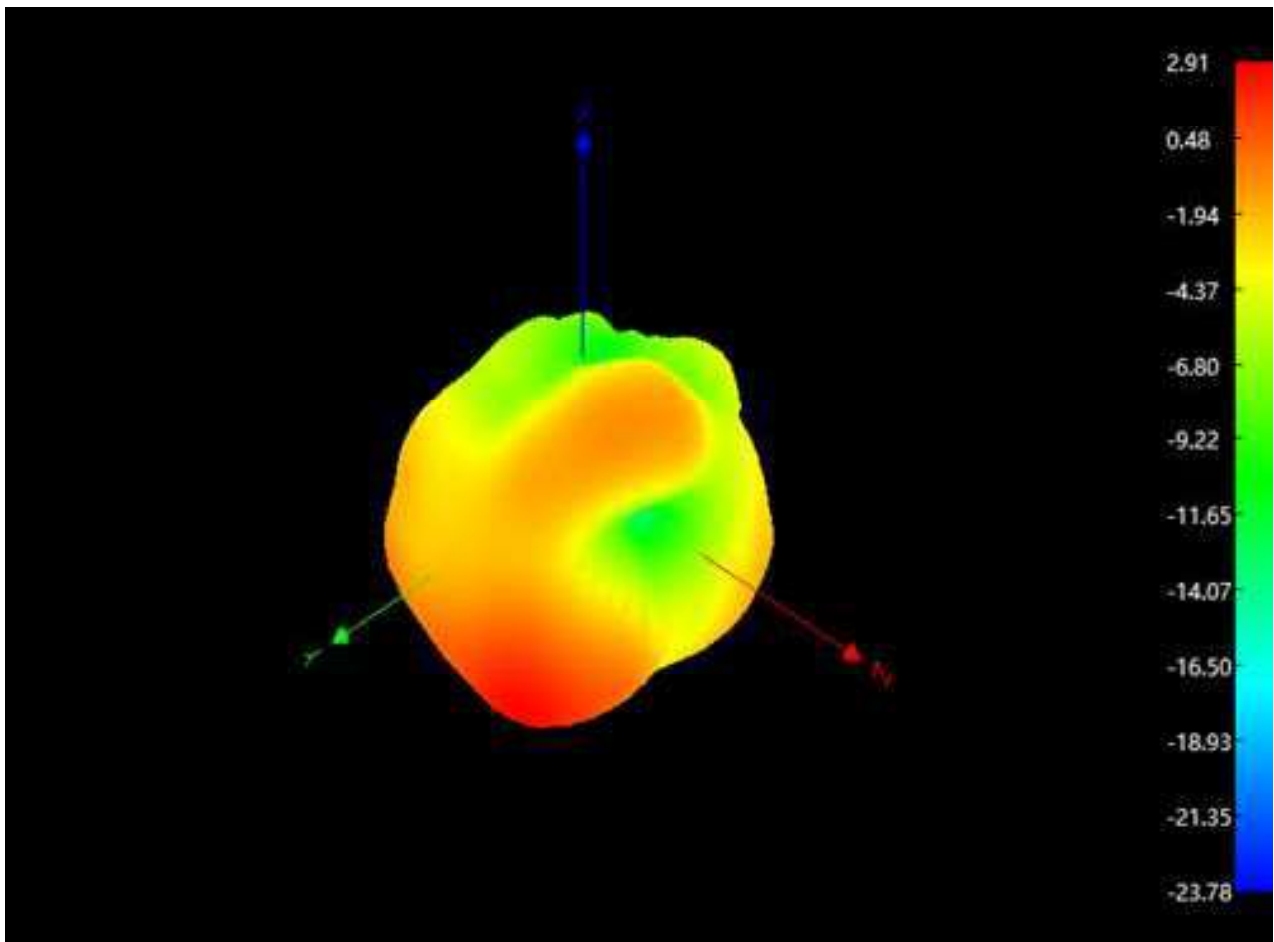


Theta 90°



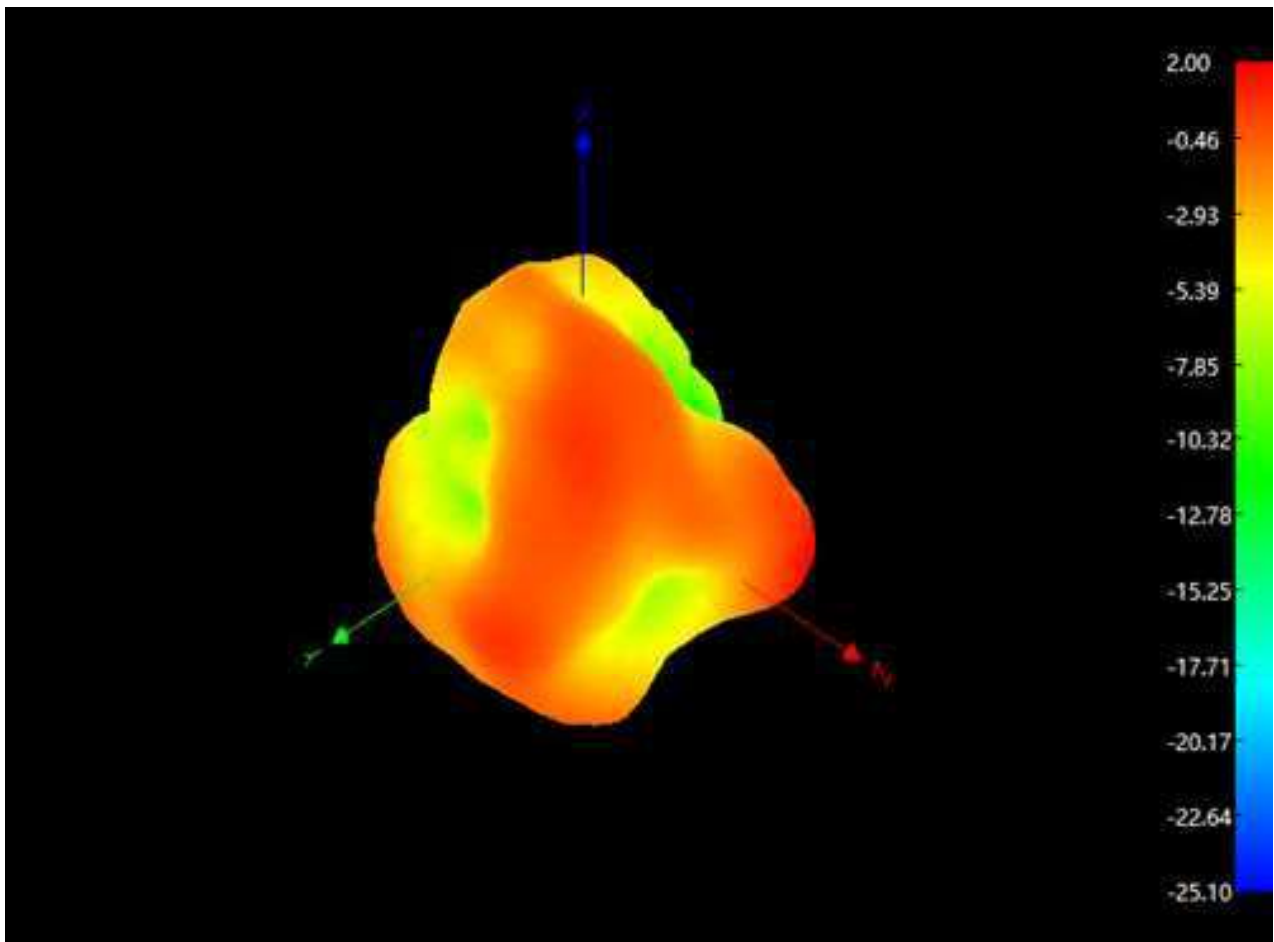


Radiation Pattern For WiFi Antenna (5150MHz)



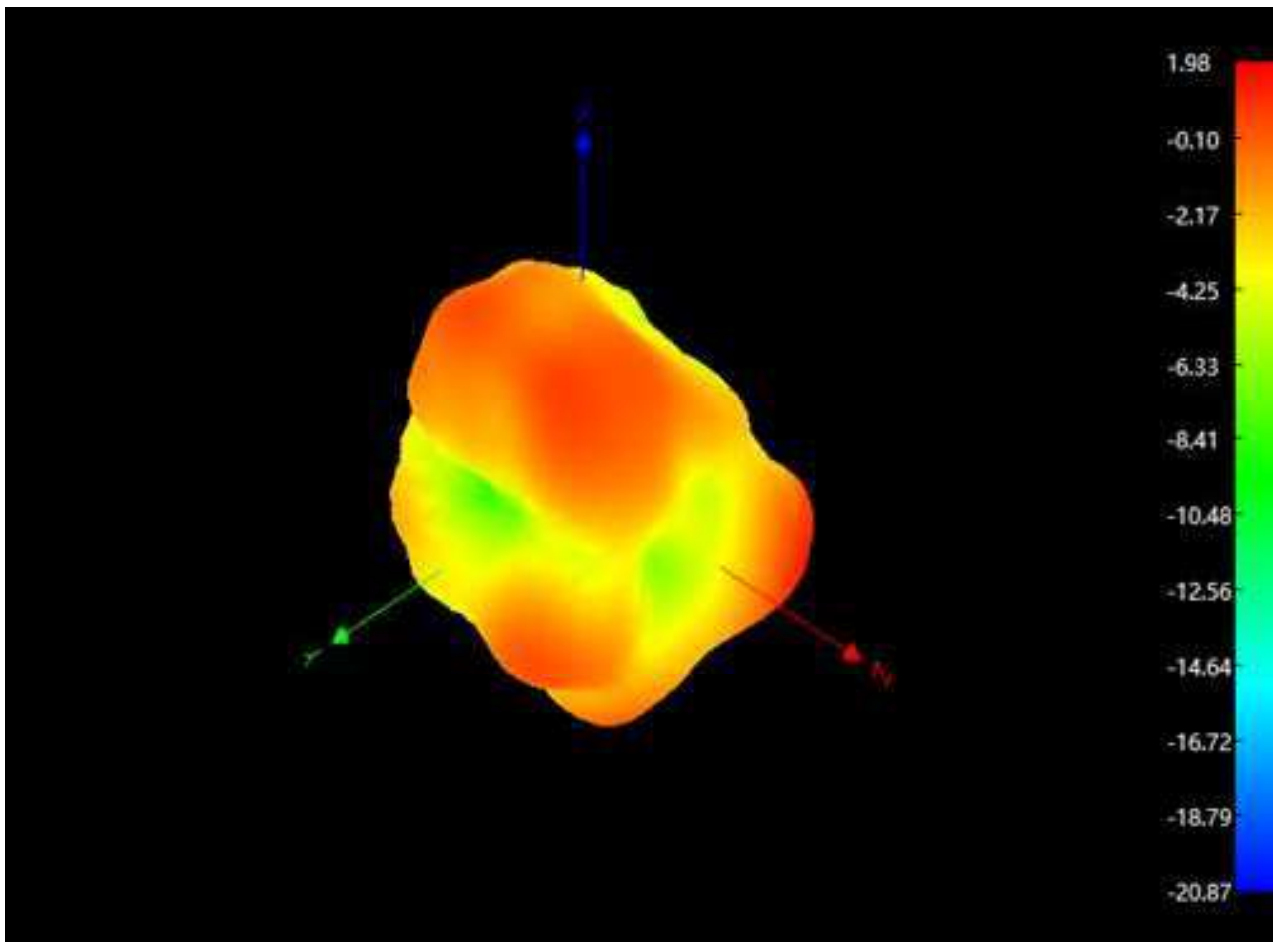


Radiation Pattern For WiFi Antenna (5500MHz)





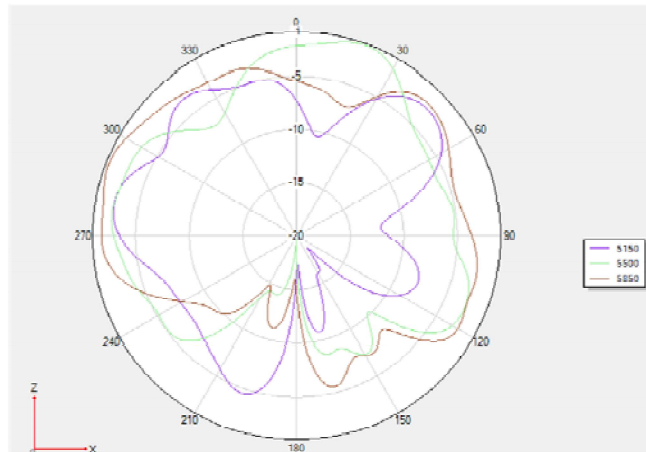
Radiation Pattern For WiFi Antenna (5850MHz)



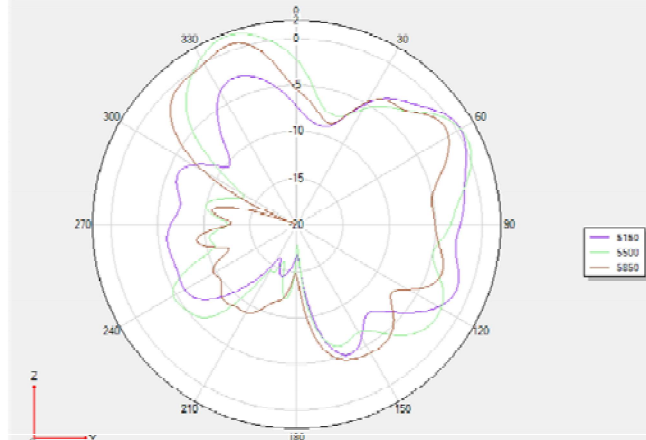


Radiation Pattern For WiFi Antenna

Phi 0°



Phi 90°



Theta 90°

