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	2025/06/03
编 号 File No	25060301
版 本 Revision	1.0

客 户 CUSTOMER: 科莱德Klyde Electronics

客户料号 CUSTOMER NO: 高尔夫球车Golf Carts

品 名 PART NAME: WIFI Dual-band Antenna L=500MM MHF

供方料号 SUPPLIER NO: YJL01.197.005.301A

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

NO.59 Muyu Road,Shatou Community,Changan town, Dongguan City, Guangdong Province
广东省东莞市长安镇沙头社区木鱼路59号

东莞市一佳电子通讯科技有限公司
DONGGUAN YIJIA ELECTRONICS COMMUNICATION TECHNOLOGY CO., LTD

承认书项目表

Letter of admission List

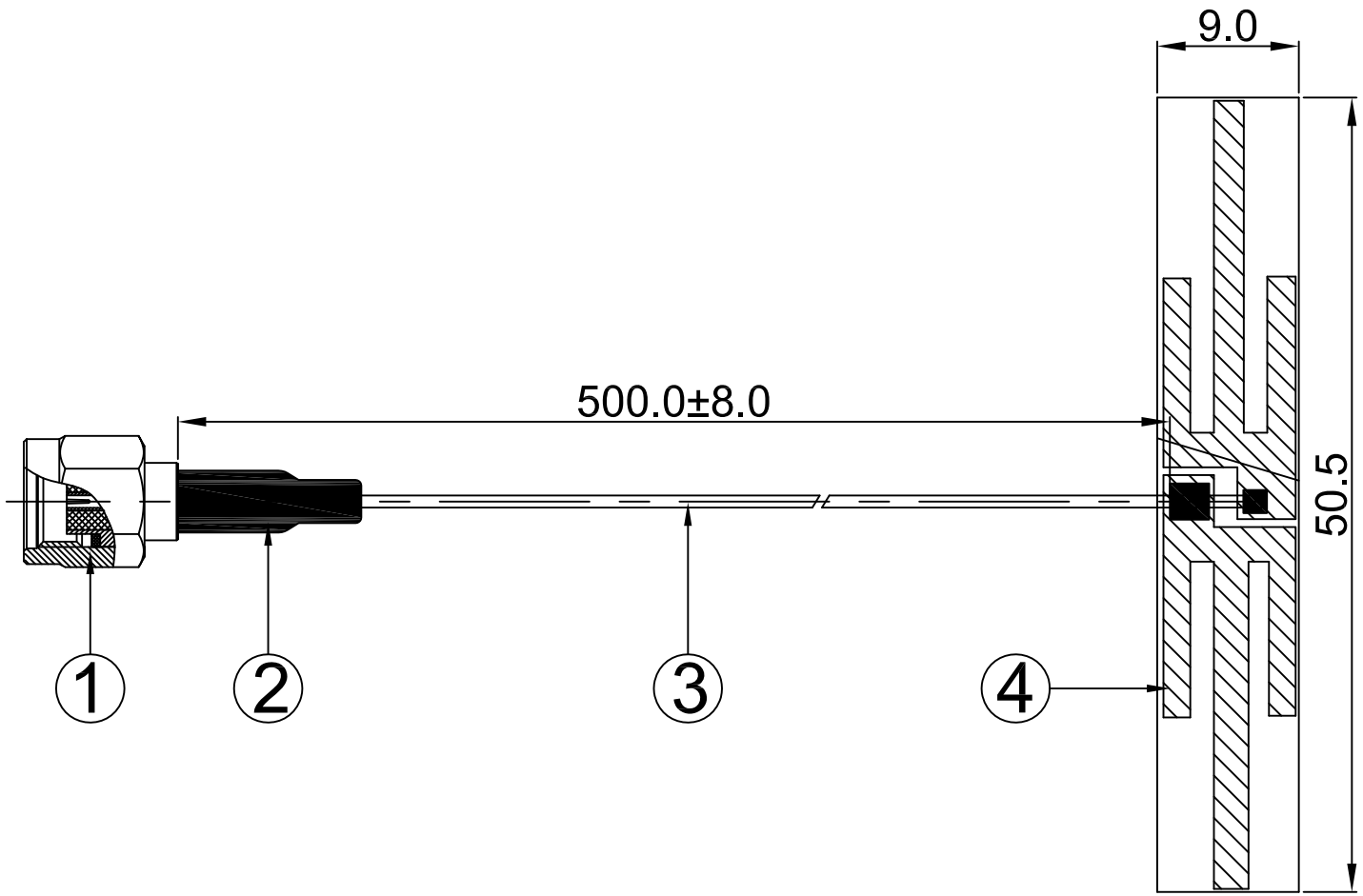
NO.	内 容（Contents）	页 数（Number of Page）	页 码（Page Code）
1	承认书封面（Spec Cover）	1	1
2	承认书项目表（Spec Item ）	1	2
3	工程成品图 （Drawing）	1	3
4	天线规格（Antenna Specification）	1	4
5	S参数测试 （S Parameter ）	1	5
6	无源测试 （Passive Test ）	3	6 ~ 8
7	方向图（Radiation Pattern ）	3	9 ~ 11
8	天线装配图（Antenna Profile）	2	12 ~ 13
9	材质证明（ Material Certificate ）	46	14 ~ 59
10	RoHS报告（ RoHS Test Report ）	**	**
11	N/A	N/A	N/A
12	-	-	-
13	-	-	-

NO.59 Muyu Road,Shatou Community,Changan town, Dongguan City, Guangdong Province
广东省东莞市长安镇沙头社区木鱼路59号

RoHS Compatible

CUSTOMER	
PART NO	

REV.	DESCRIPTION	DATE
A	Initial realese	2024-11-22
B		



NO	PART NAME	DESCRIPTION	Material	QTY
4	FPC	50.5*9.0MM	FPC	1
3	Coaxial Cable	O.D.1.37 Black	O.D.1.37	1
2	Heat Shrink Tube	L15.0mm/Ø2.5mm Black	EVA	1
1	SMA Male Reverse	Au Plated	Cu	1

东莞市一佳电子通讯科技有限公司
DONGGUAN YIJIA ELECTRONICS COMMUNICATION TECHOLOGY CO.,LTD
NO.59 Muyu Road Shatou Community Changan town, Dongguan City, Guangdong
广东省东莞市长安镇沙头社区木鱼路59号

PART NAME: Wifi Dual-band Antenna L=500MM MHP			
PART NO.: YJL01.197.005.301A			DATE: 2024-11-22
APPROVED BY	CHECKED BY	DESIGNED BY	Tolerance
QINGJUN HE	WENBEI JIANG	Guangxi Liao	UNITS: mm SCALE: 1/1 REVISION: A X.X ±0.50 X.XX±0.15 X° ±3°

东莞市一佳电子通讯科技有限公司
DONGGUAN YIJIA ELECTRONICS COMMUNICATION TECHNOLOGY CO., LTD

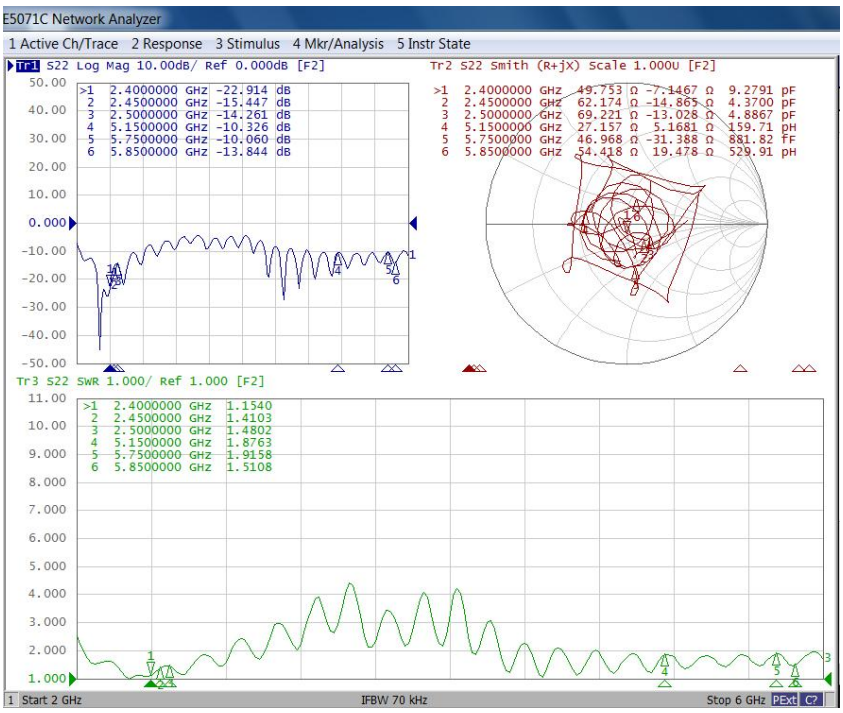
天线规格
Antenna Specification

Electrical Properties	
Frequency	2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	3.5 dBi@2.4-2.5GHz 3.2 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	SMA Male Reverse
Cable Type	O.D.1.37mm
Cable Length	500mm
Cable Color	Black
Operating Temp.	-40 ~ +85 ˚C
Storage Temp / Humidity	25±5˚C / <70%

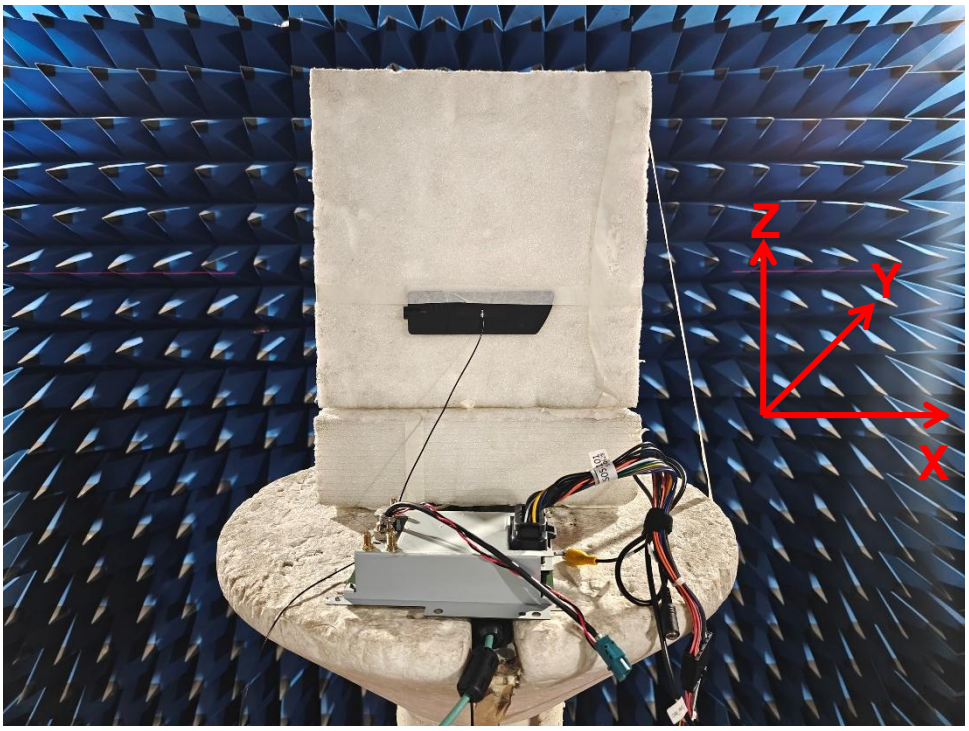
NO.59 Muyu Road,Shatou Community,Changan town, Dongguan City, Guangdong Province
广东省东莞市长安镇沙头社区木鱼路59号

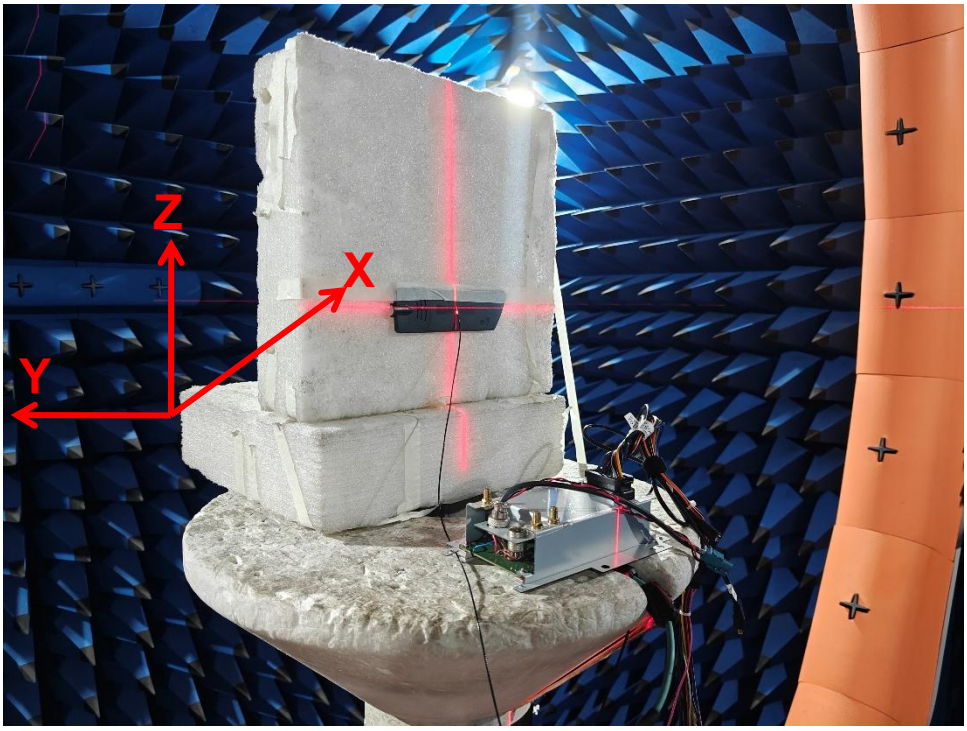
Antenna Performance Test

Agilent E5071C S22 Parameter Test // WIFI Antenna



Antenna Passive Test

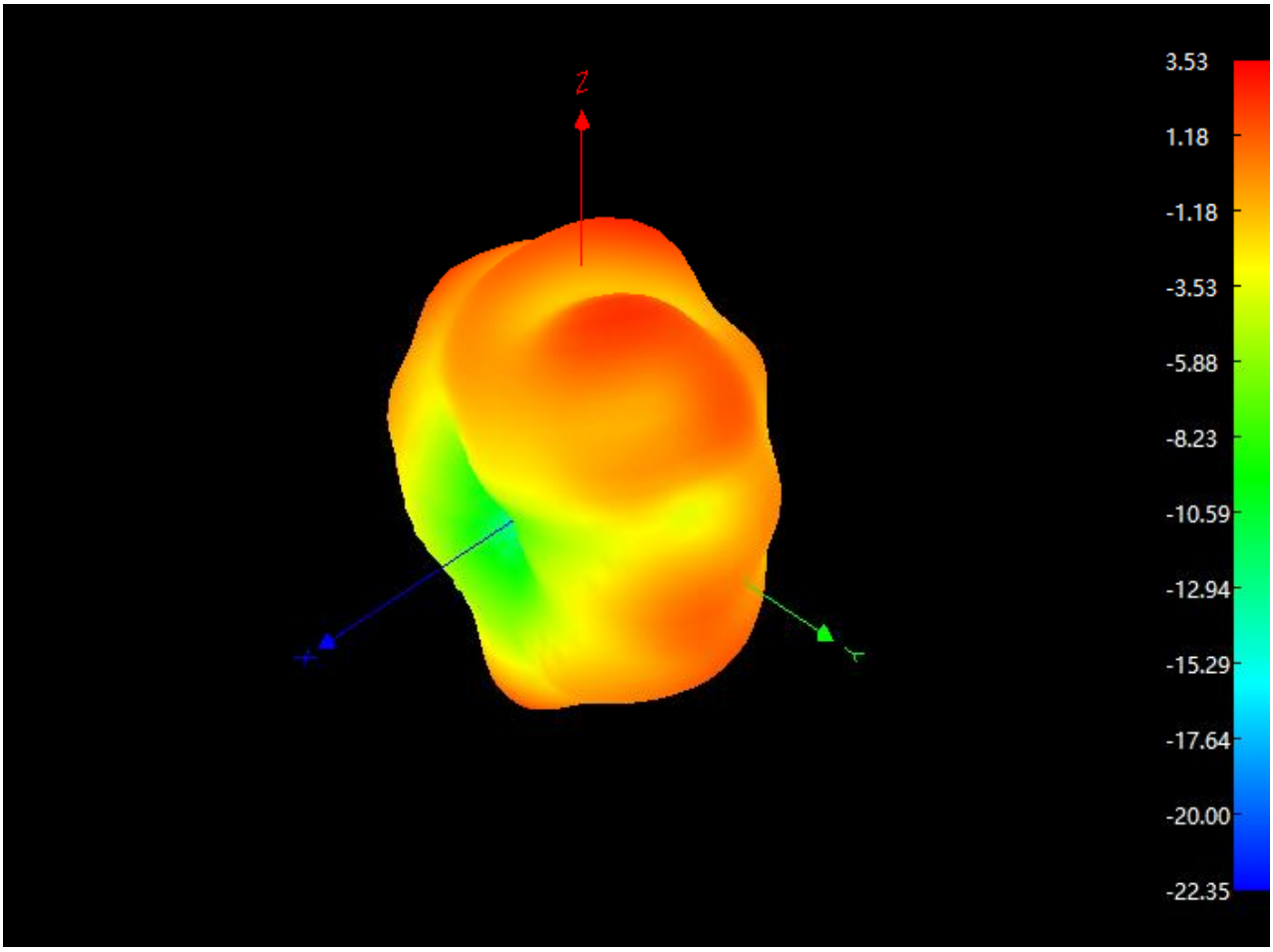




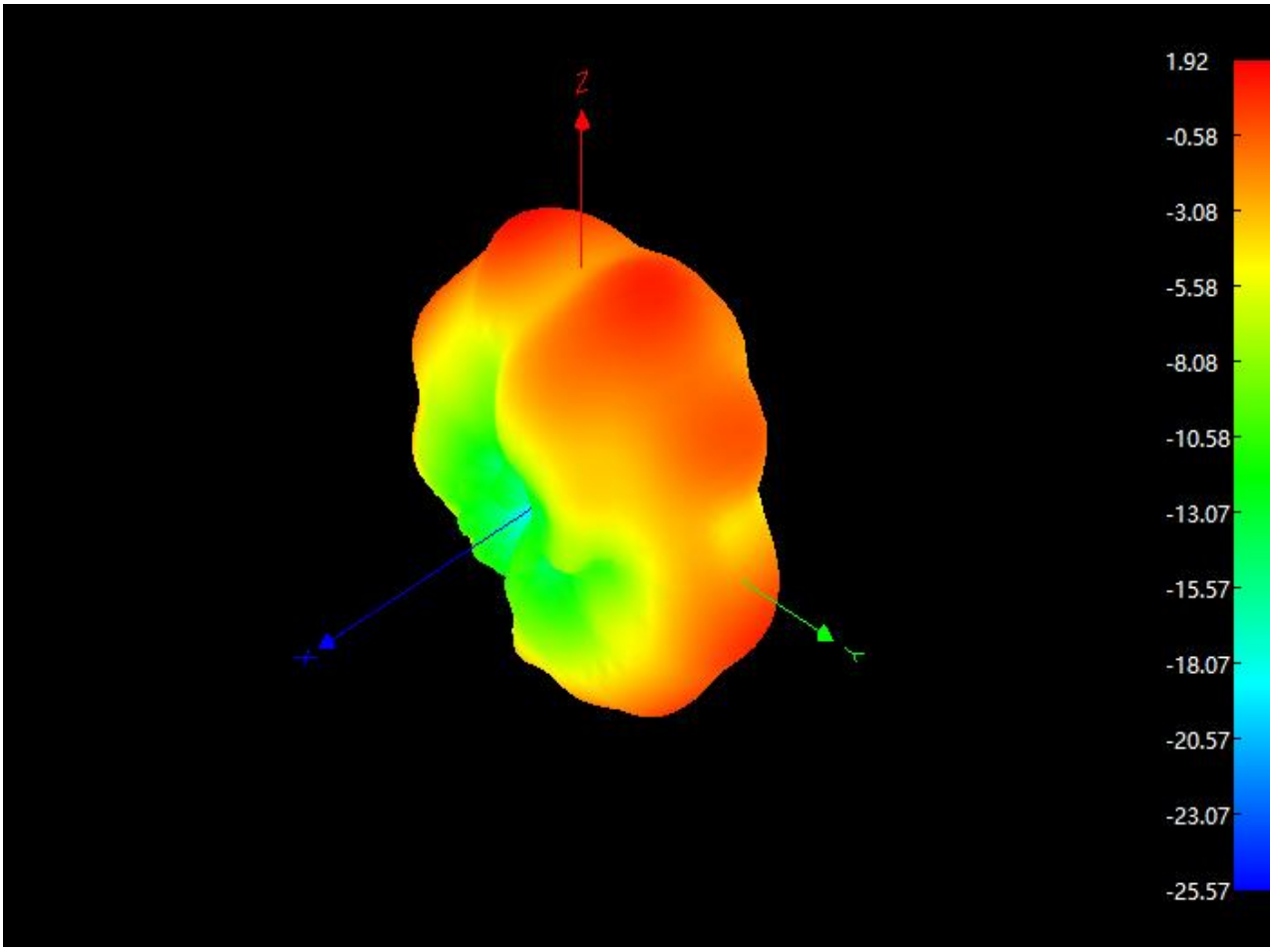
Passive Test For WIFI Antenna(2.4G)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	63.4	-2.0	3.2
2410	63.2	-2.0	3.2
2420	63.1	-2.0	3.2
2430	62.8	-2.0	3.2
2440	61.9	-2.1	3.1
2450	63.7	-2.0	3.5
2460	61.2	-2.1	3.4
2470	60.0	-2.2	3.3
2480	56.6	-2.5	2.9
2490	57.4	-2.4	2.8
2500	55.6	-2.6	2.6

Passive Test For WIFI Antenna(5.8G)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	60.8	-2.2	2.0
5200	63.2	-2.0	2.3
5250	64.0	-1.9	2.4
5300	57.4	-2.4	2.1
5350	49.1	-3.1	1.7
5400	56.2	-2.5	2.9
5450	55.9	-2.5	3.0
5500	47.9	-3.2	2.6
5550	50.9	-2.9	2.9
5600	58.2	-2.4	3.2
5650	51.5	-2.9	2.3
5700	48.0	-3.2	1.9
5750	55.0	-2.6	1.9
5800	57.0	-2.4	2.5
5850	51.4	-2.9	2.4

Radiation Pattern For WIFI Antenna(2450MHz)

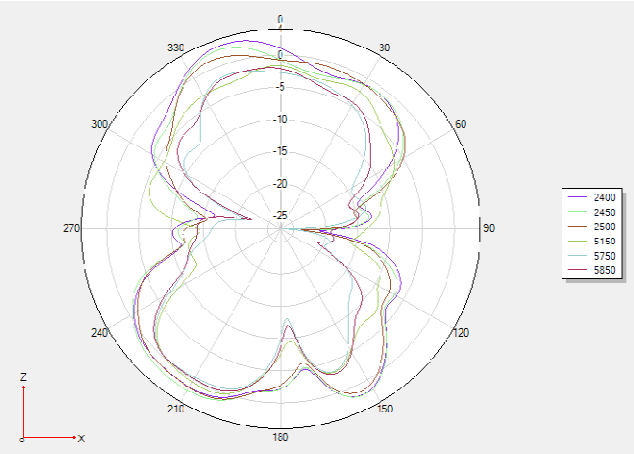


Radiation Pattern For WIFI Antenna(5750MHz)

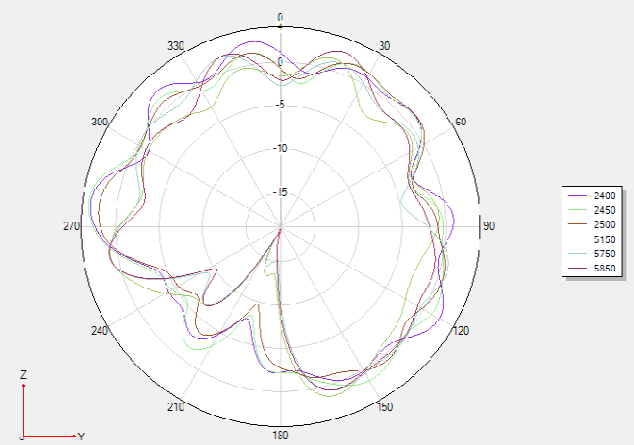


Radiation Pattern For WIFI Antenna

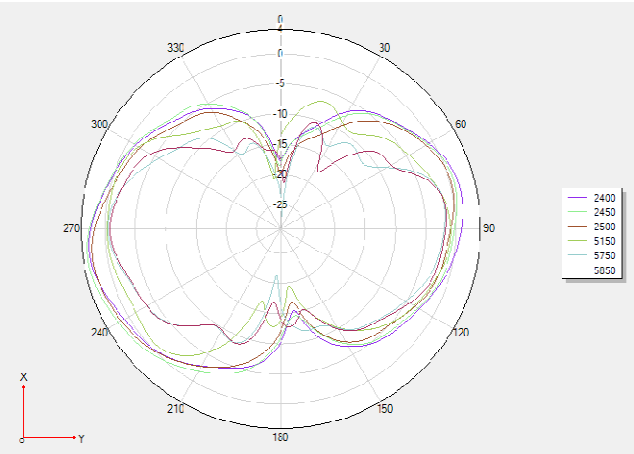
Phi 0°

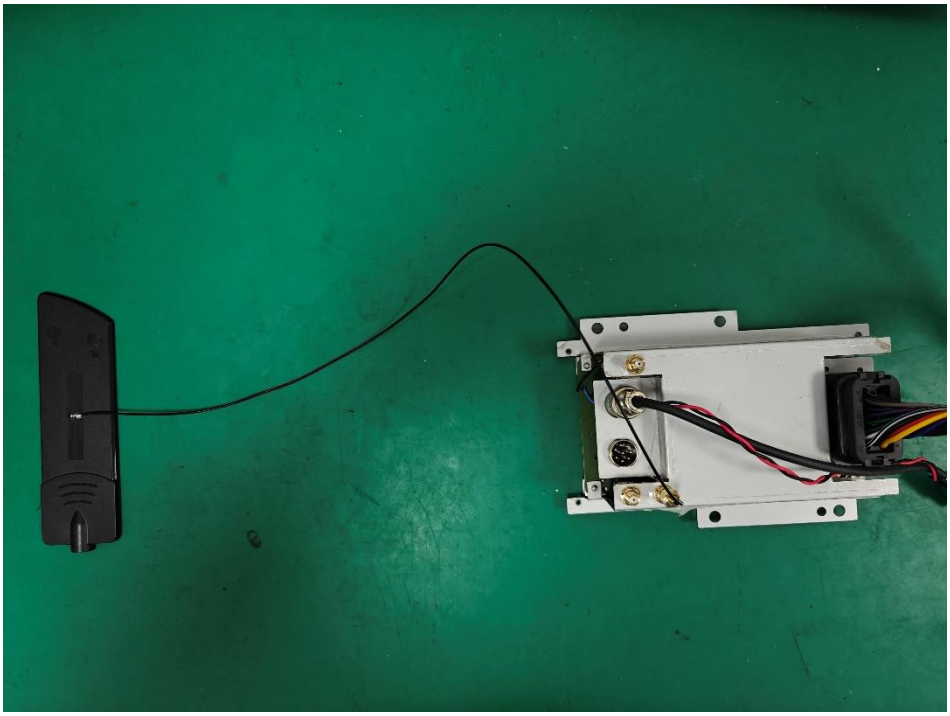


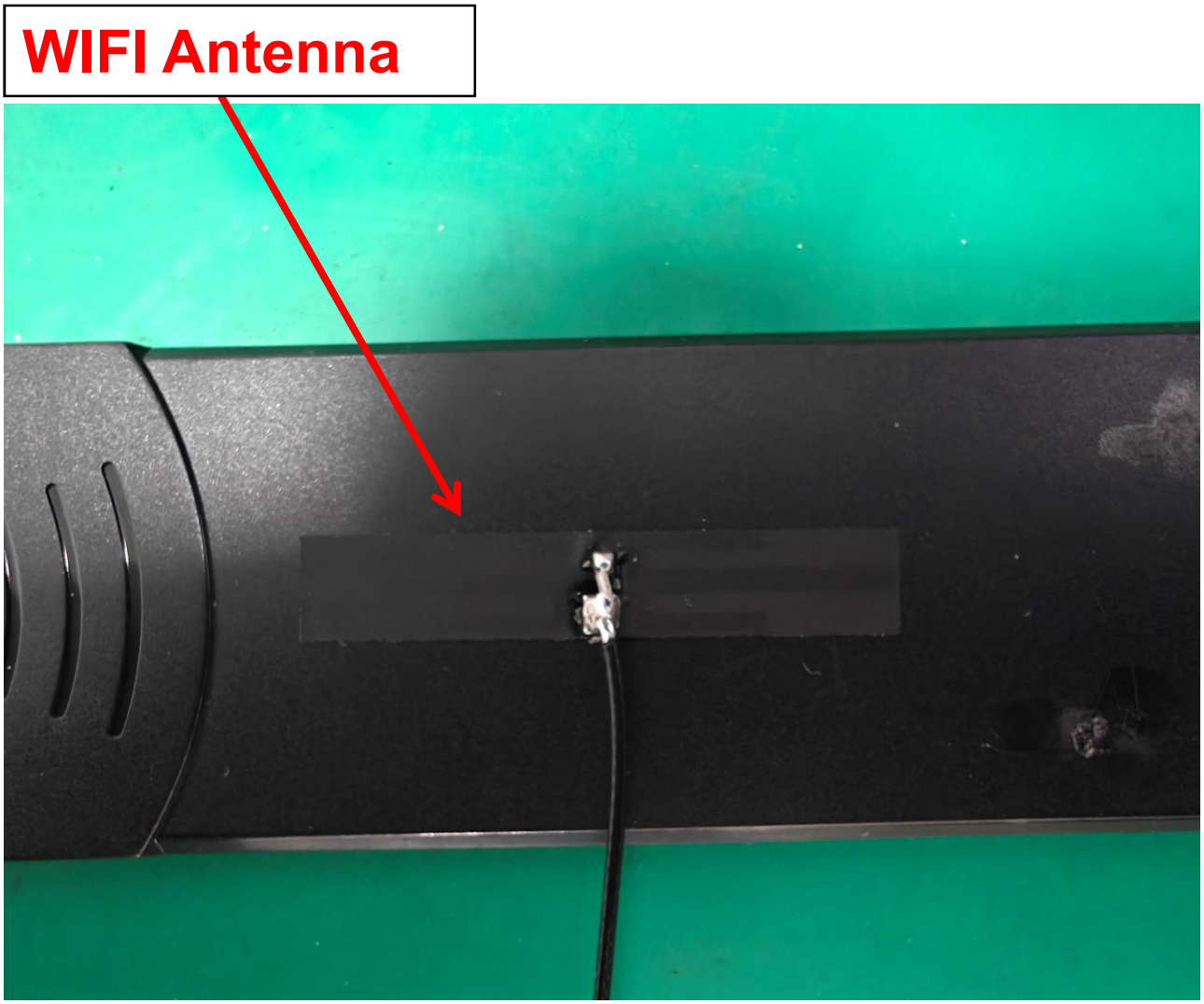
Phi 90°



Theta 90°



Device	
WIFI Antenna	


WIFI Antenna