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	2023/09/04
编 号 File No	23090401
版 本 Revision	1.0

客 户 CUSTOMER: 铁头科技

客户料号 CUSTOMER NO: 31112.00021.00.00

品 名 PART NAME: Antenna L=55mm MHF

供方料号 SUPPLIER NO: YJL01.050.015.301A

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

YJ-RD-F04-A

add：东莞市长安镇沙头社区木鱼路59号元富工业区 Tel:0769-82586086 Fax:0769-82586086

承认书项目表

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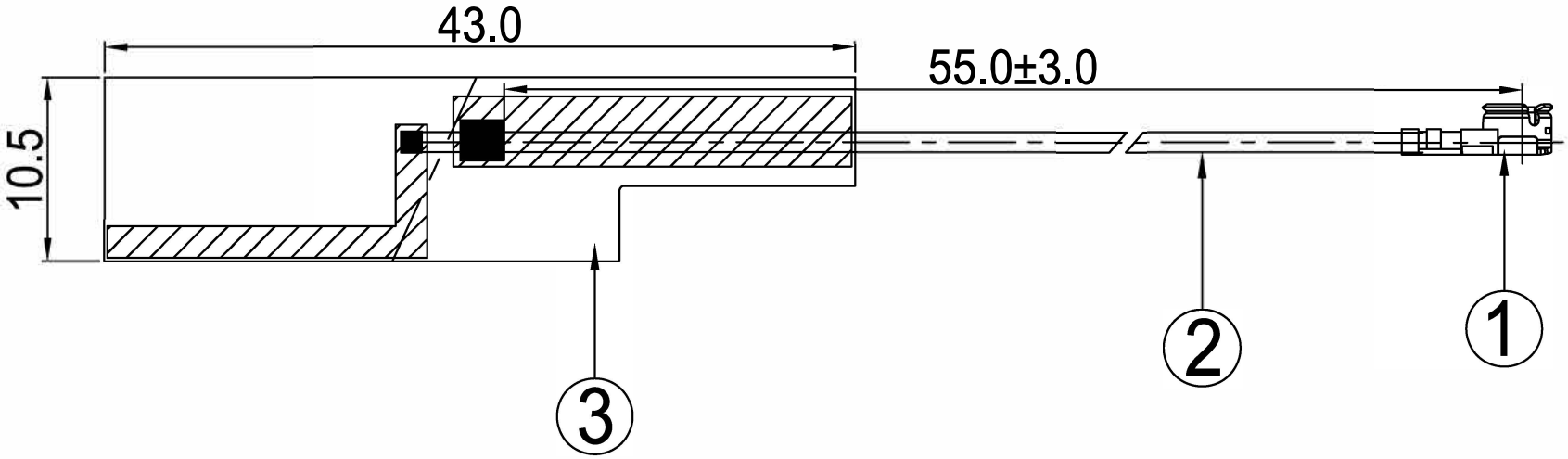
RoHS Compatible

CUSTOMER	
PART NO	

REV.	DESCRIPTION	DATE
A	首次发行	2023-05-15
B	修改FPC	2023-05-17



NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY
3	FPC	43.0*10.5mm	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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Tel :0769-82586086
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PART NAME: Antenna L=55mm MHF

PART NO.: YJL01.050.015.301A

DATE: 2023-05-17

APPROVED BY	CHECKED BY	DESIGNED BY	
何清军	周棋	廖光喜	UNITS: mm SCALE: 1/1 REVISION: B

Tolerance
X.X ±0.50
X.XX±0.15
X° ±3°

天线规格
Antenna Specification

Electrical Properties	
Frequency	2.4-2.5GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	3.4 dBi
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	1代IPEX
Cable Type	O.D.1.13mm
Cable Length	55mm
Cable Color	Black
Operating Temp.	-40 ~ +85 ˚C
Storage Temp / Humidity	25±5˚C / <70%

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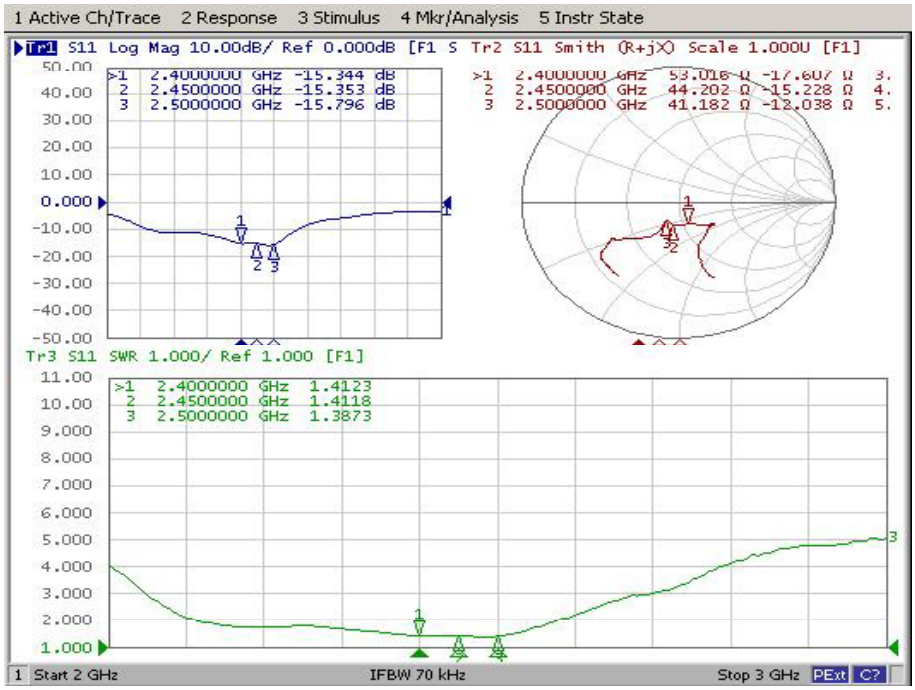
Antenna Performance Test

Agilent E5071B S11 Parameter Test // Antenna



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Passive Test For Antenna(2.4G)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	38.9	-4.1	3.4
2410	39.5	-4.0	3.4
2420	39.7	-4.0	3.3
2430	39.9	-4.0	3.3
2440	40.3	-3.9	3.1
2450	40.6	-3.9	3.3
2460	39.9	-4.0	2.7
2470	39.7	-4.0	3.1
2480	39.0	-4.1	2.6
2490	38.8	-4.1	2.6
2500	38.5	-4.1	2.1

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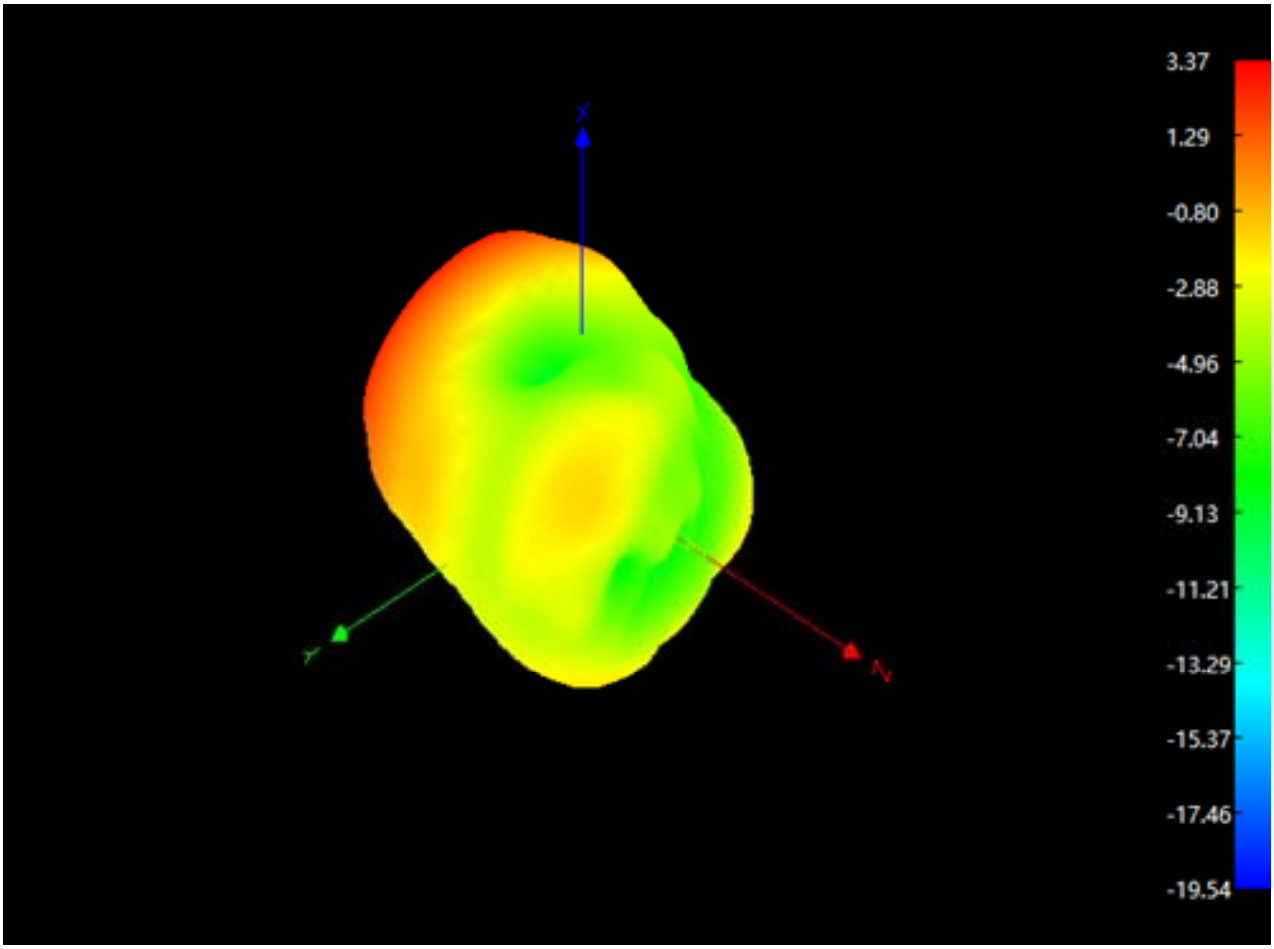
Radiation Pattern For Antenna（2400MHz）



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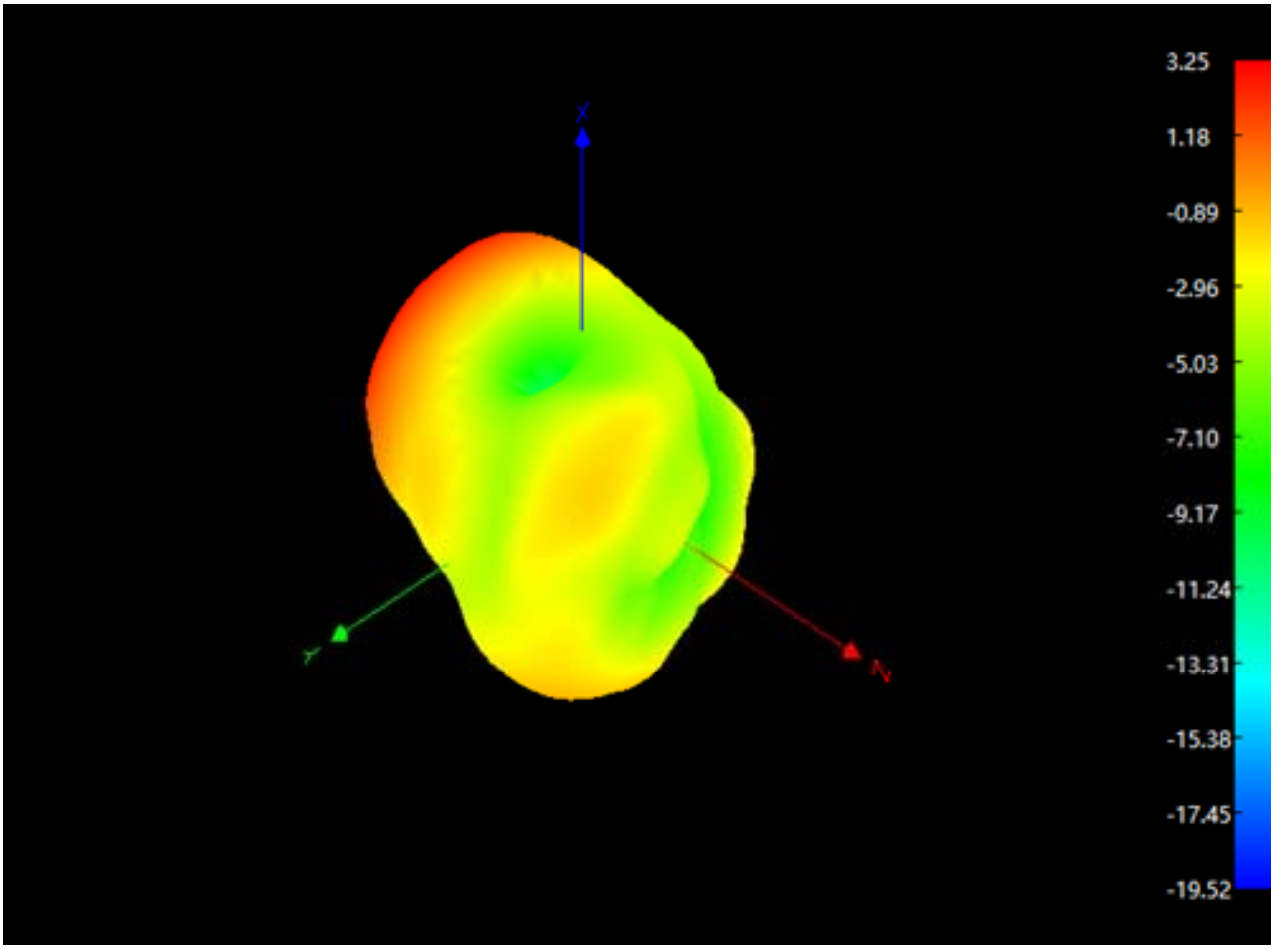
Radiation Pattern For Antenna（2450MHz）



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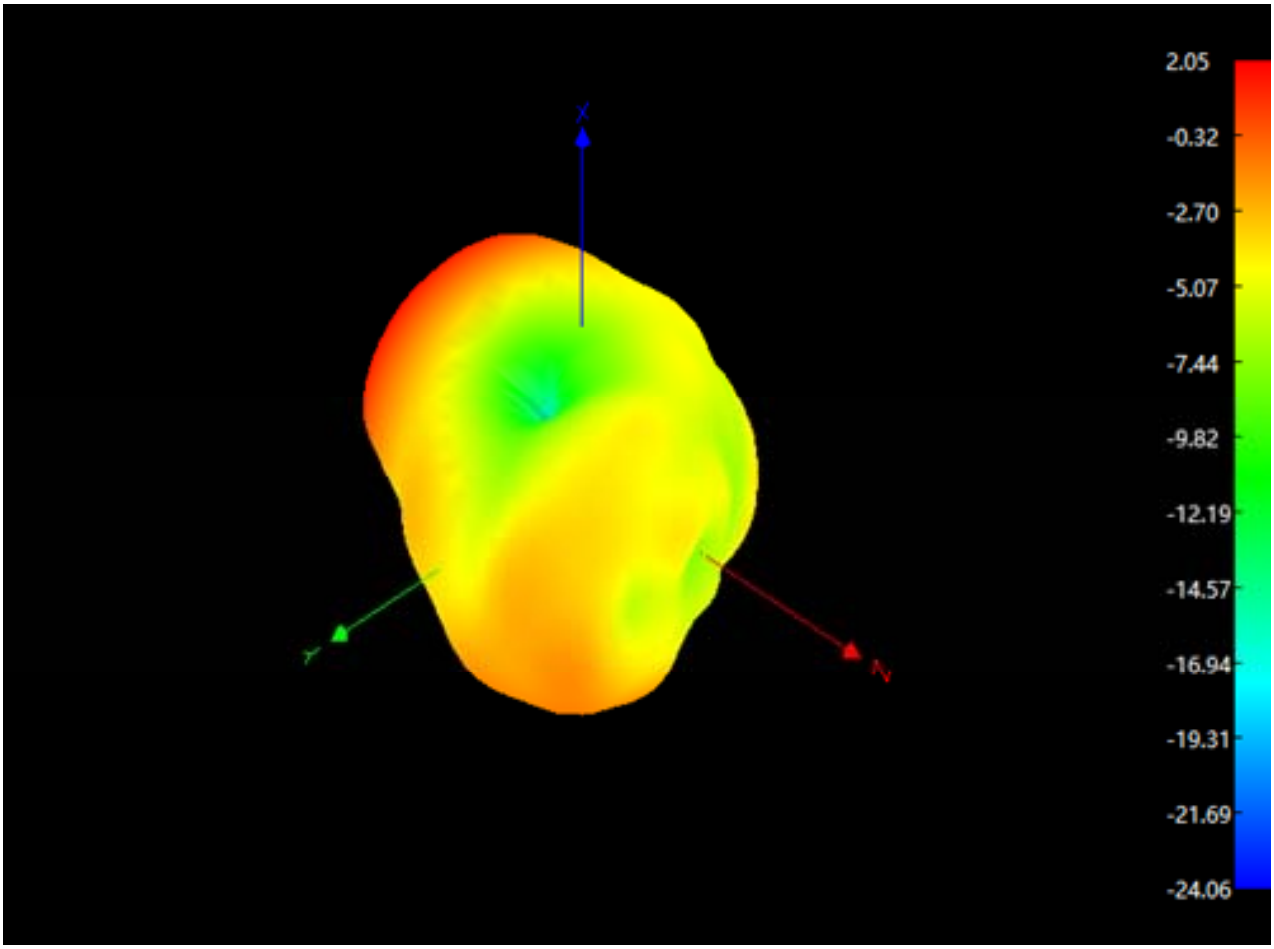
Radiation Pattern For Antenna（2500MHz）



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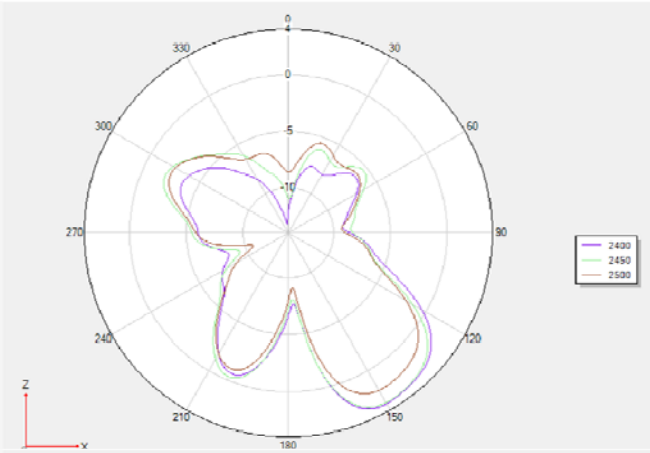
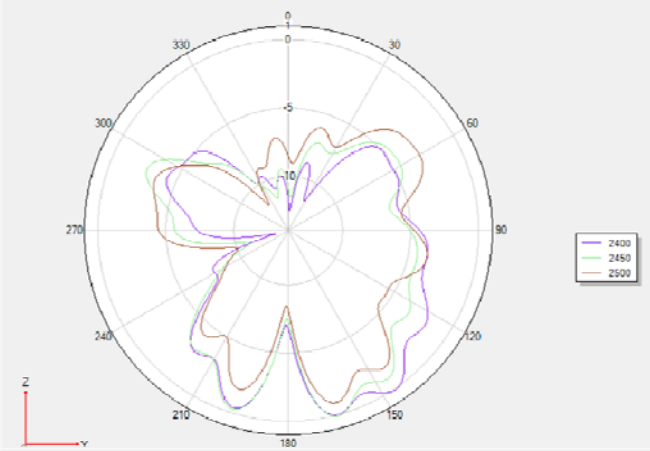
Radiation Pattern For Antenna

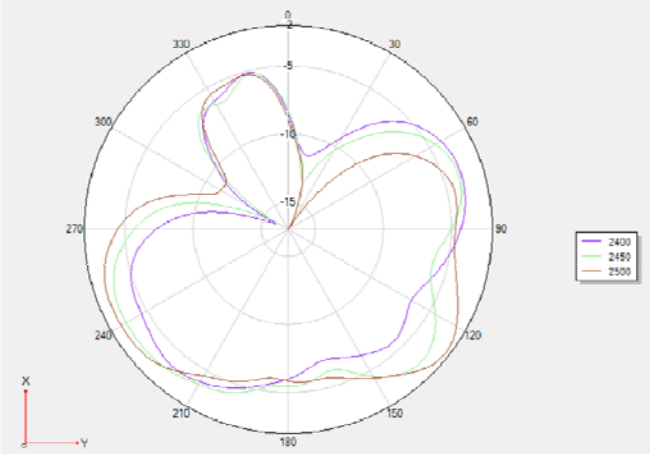
Phi 0°



Phi 90°



Theta 90°



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Device	

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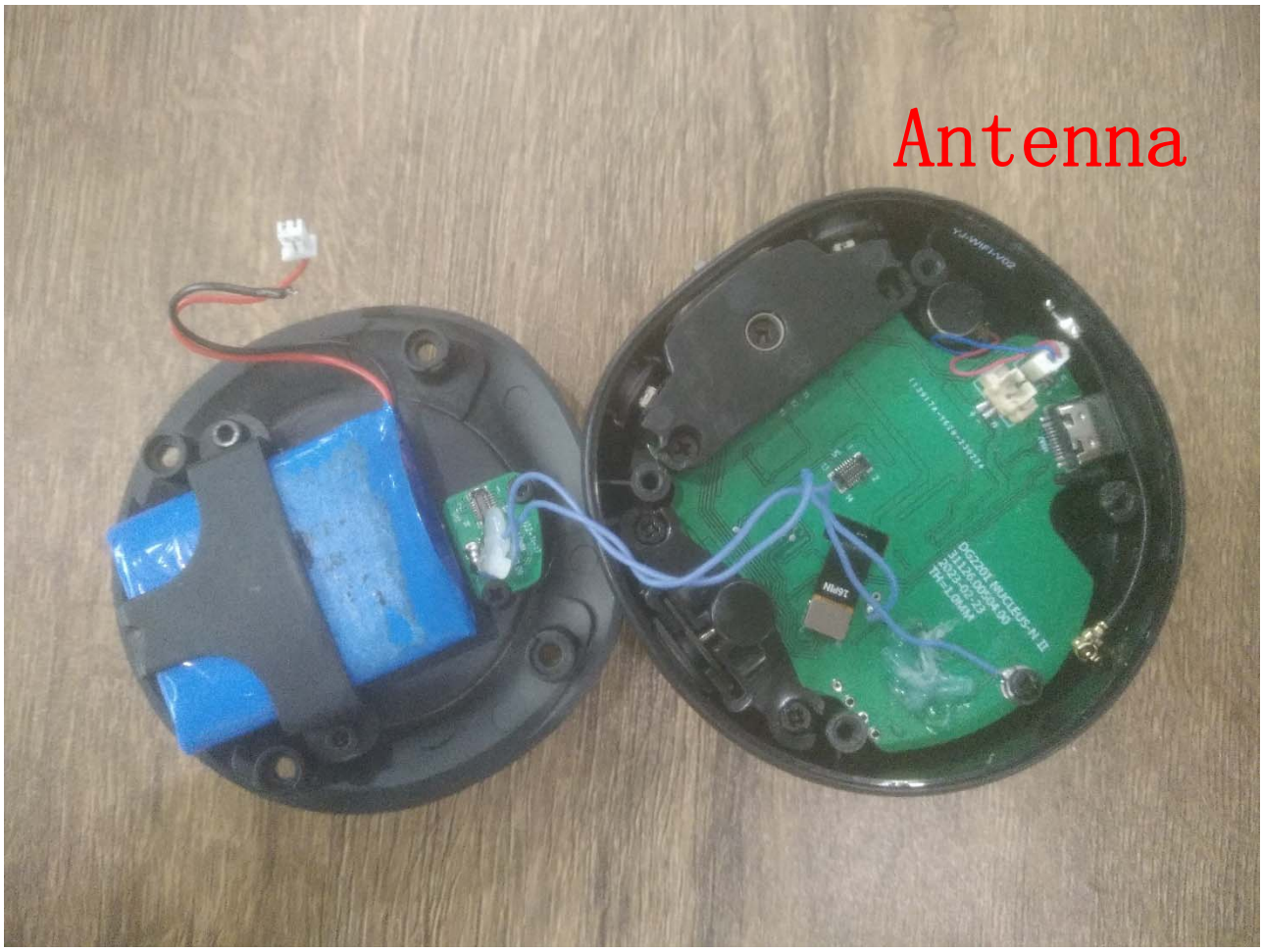
Antenna	

add：东莞市长安镇沙头社区木鱼路59号元富工业区 Tel:0769-82586086 Fax:0769-82586086



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