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	2024/09/20
编 号 File No	24092001
版 本 Revision	1.0

客 户 CUSTOMER: 道通

客户料号 CUSTOMER NO: 501016135

品 名 PART NAME: BT Antenna

供方料号 SUPPLIER NO: YJI01.005.107.301A

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

东莞市长安镇沙头社区木鱼路59号 Tel:0769-82586086 Fax:0769-82586086

Manufacturer: Dongguan Yijia Electronic Communication Technology Co., LTD
Address: Building 3, No. 59 Muyu Road, Shatou Community, Changan Town, Dongguan City, Guangdong Province

承认书项目表

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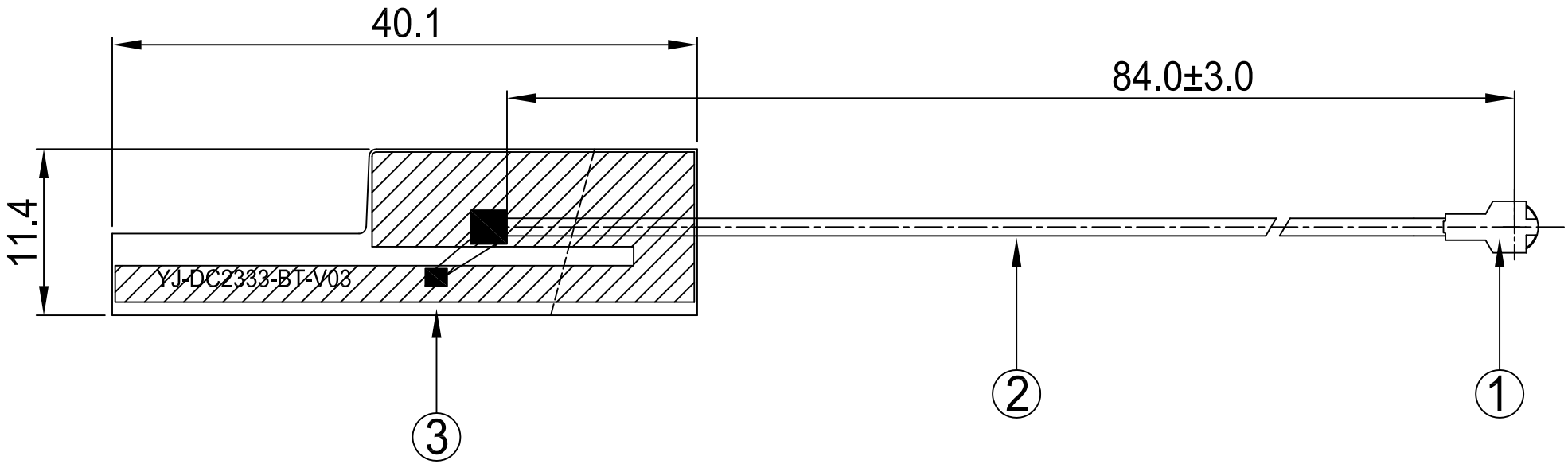
13	-	-	-

RoHS Compatible

CUSTOMER	
PART NO	

REV.	DESCRIPTION	DATE
A	首次发行	2024-07-05
B		



NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY
3	FPCB	40.1*11.4MM	FPCB	FPC1000XA.P01	1
2	Coaxial Cable	O.D.0.81 Black	O.D.0.81	COA1000XA.P01	1
1	Mini Connector	Au Plated 4代	Cu	TER1000XA.P01	1

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

PART NAME: BT Antenna

PART NO.: YJI01.005.107.301A

DATE: 2024-07-05

APPROVED BY	CHECKED BY	DESIGNED BY	
殷涛	雷志勤	陈兴易	UNITS: mm SCALE: 1/1 REVISION: B

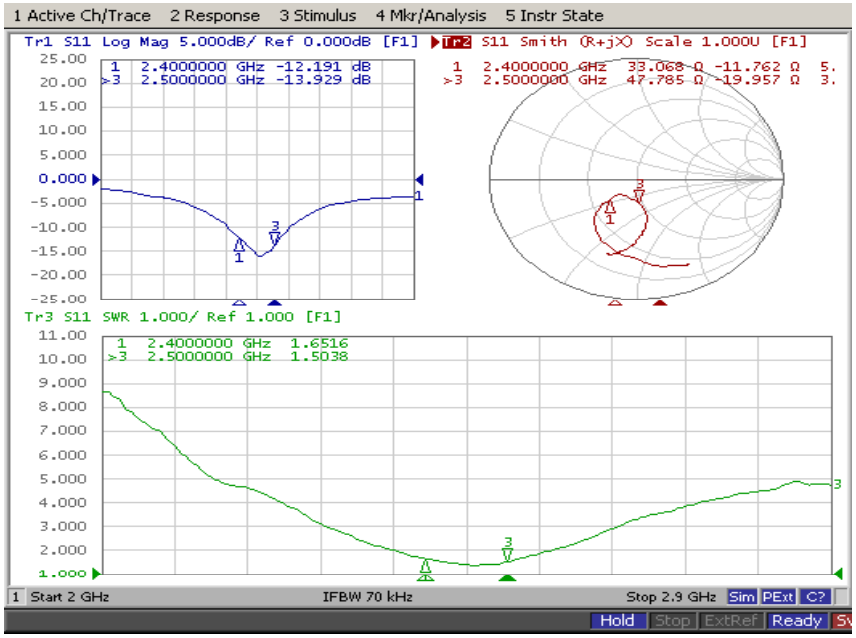
Tolerance
X.X ±0.50
X.XX±0.15
X° ±3°

天线规格
Antenna Specification

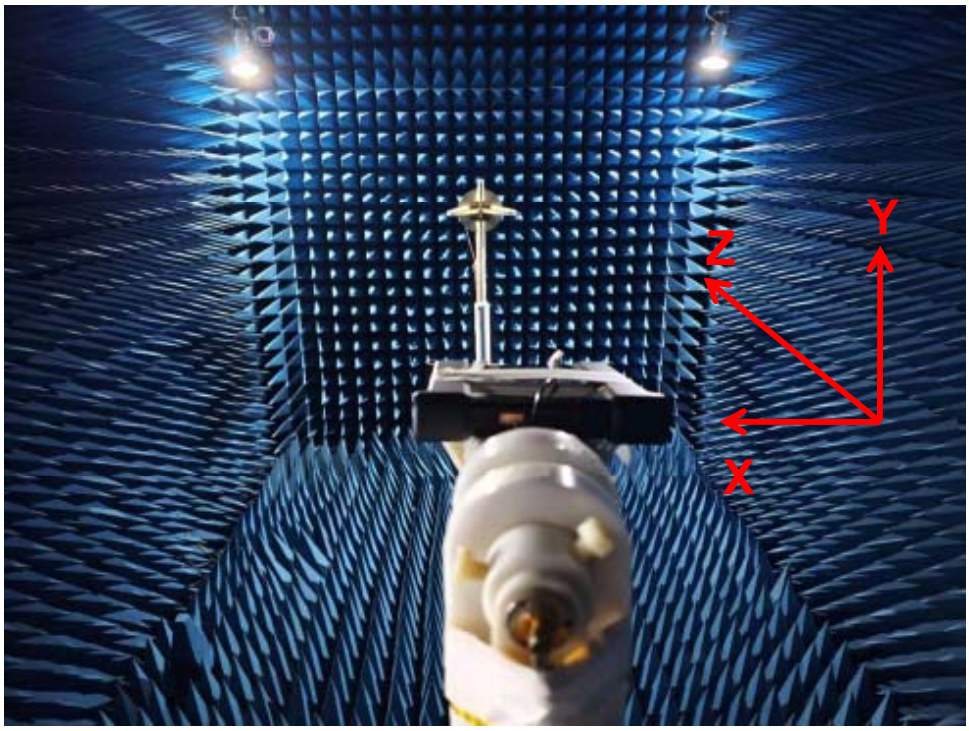
Electrical Properties	
Frequency	2.4-2.5GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	1.7 dBi
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	4代IPEX
Cable Type	O.D.0.81mm
Cable Length	84mm
Cable Color	Black
Operating Temp.	-40 ~ +85 ˚C
Storage Temp / Humidity	25±5˚C / <70%

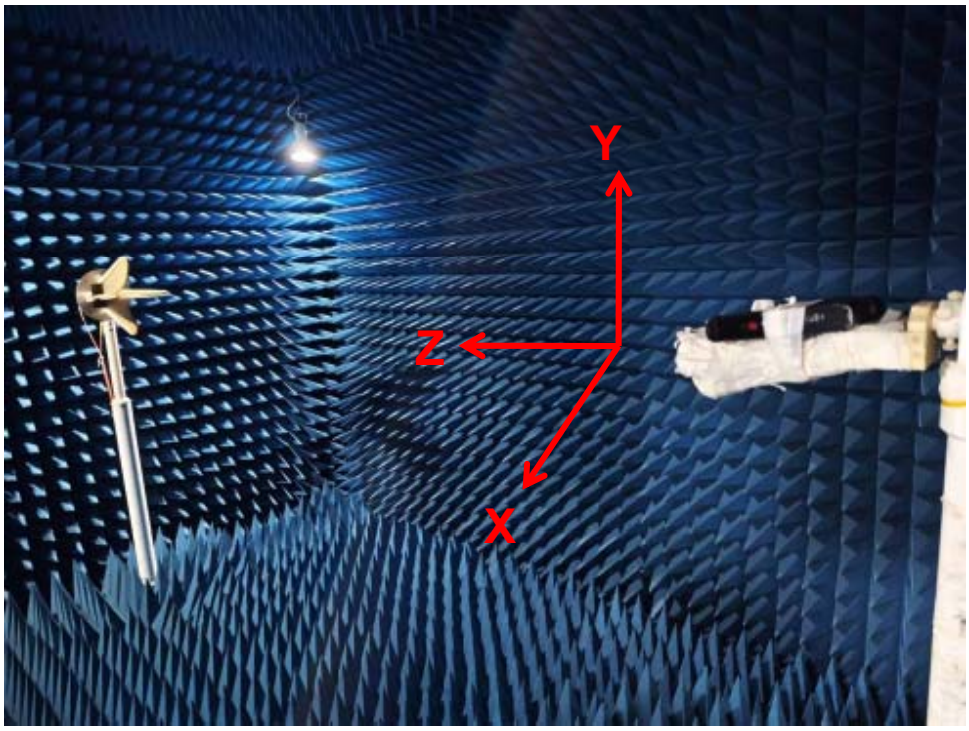
Antenna Performance Test

Agilent E5071C S Parameter Test // BT Antenna



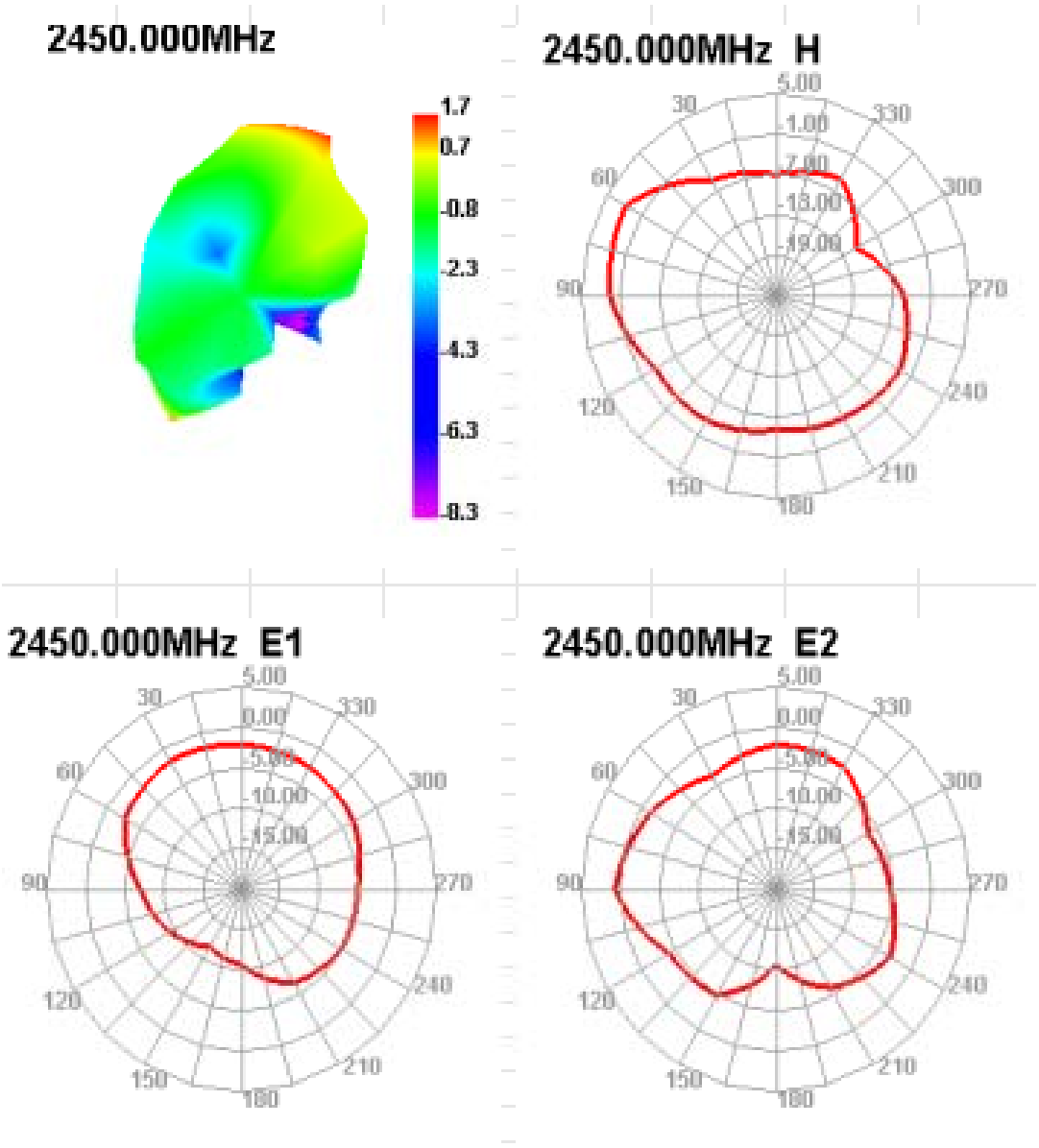
Antenna Passive Test





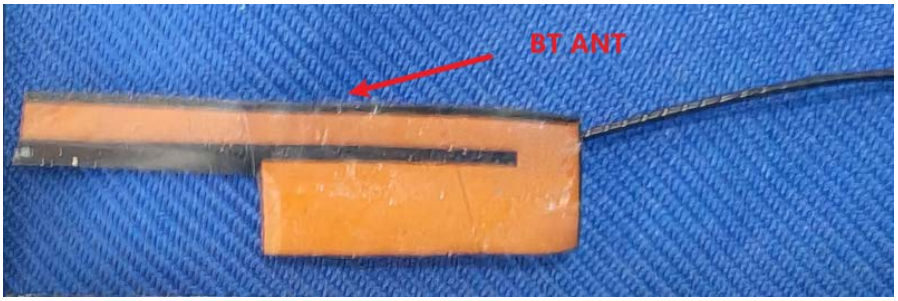
Passive Test For BT Antenna(2.4G)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	43.8	-3.6	1.4
2410	44.2	-3.6	1.4
2420	43.4	-3.6	1.4
2430	43.8	-3.6	1.5
2440	43.5	-3.6	1.5
2450	45.3	-3.4	1.7
2460	44.1	-3.6	1.5
2470	44.7	-3.5	1.6
2480	44.1	-3.6	1.5
2490	43.0	-3.7	1.5
2500	41.4	-3.8	1.4

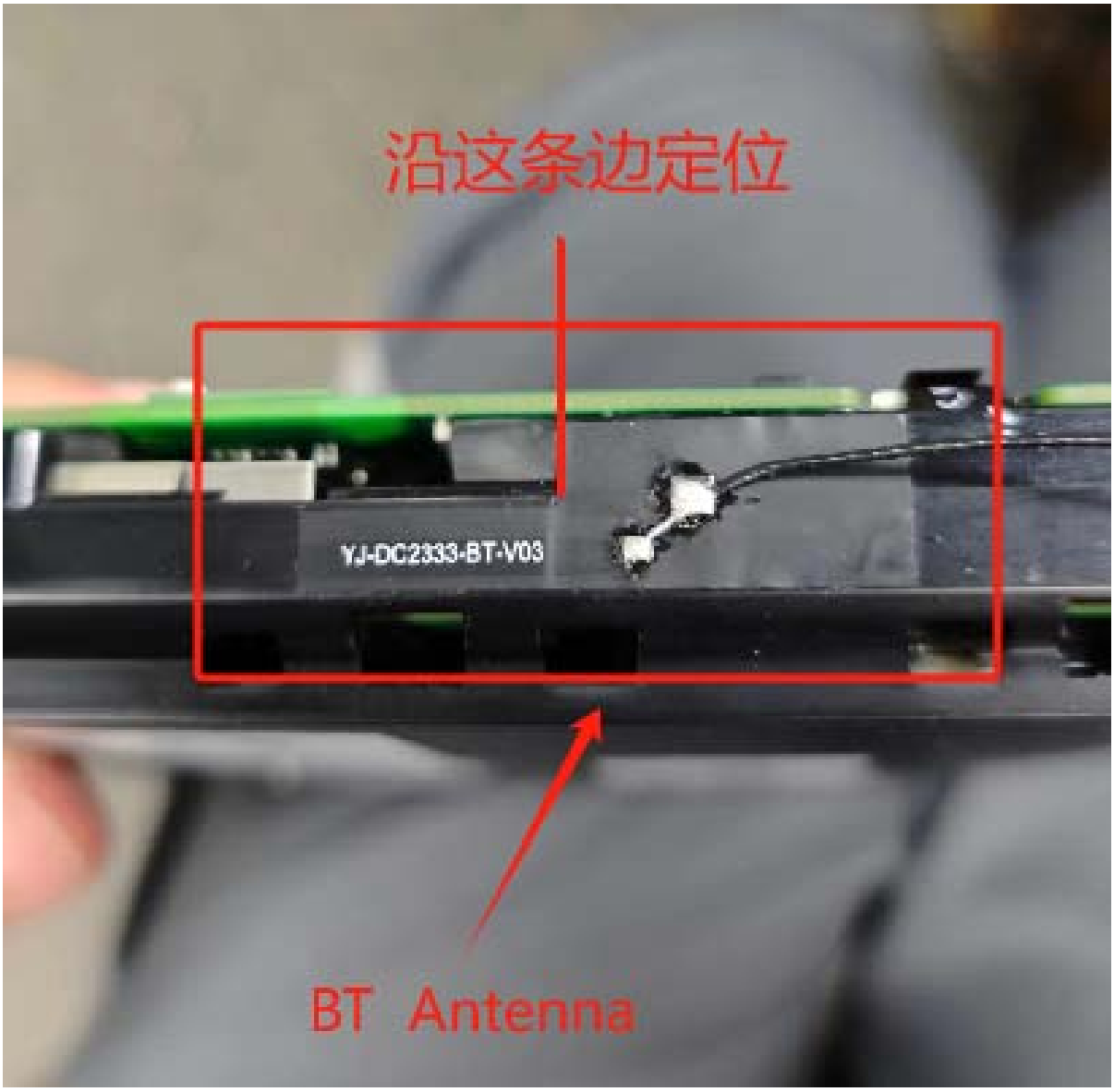
Radiation Pattern For BT Antenna（2450MHz）



Active Test For BT Antenna			
Band	Channel	TRP	TIS
Blue Tooth Band 0	0	2.0	-87.11
	39	2.6	-86.6
	78	3.3	-86.6

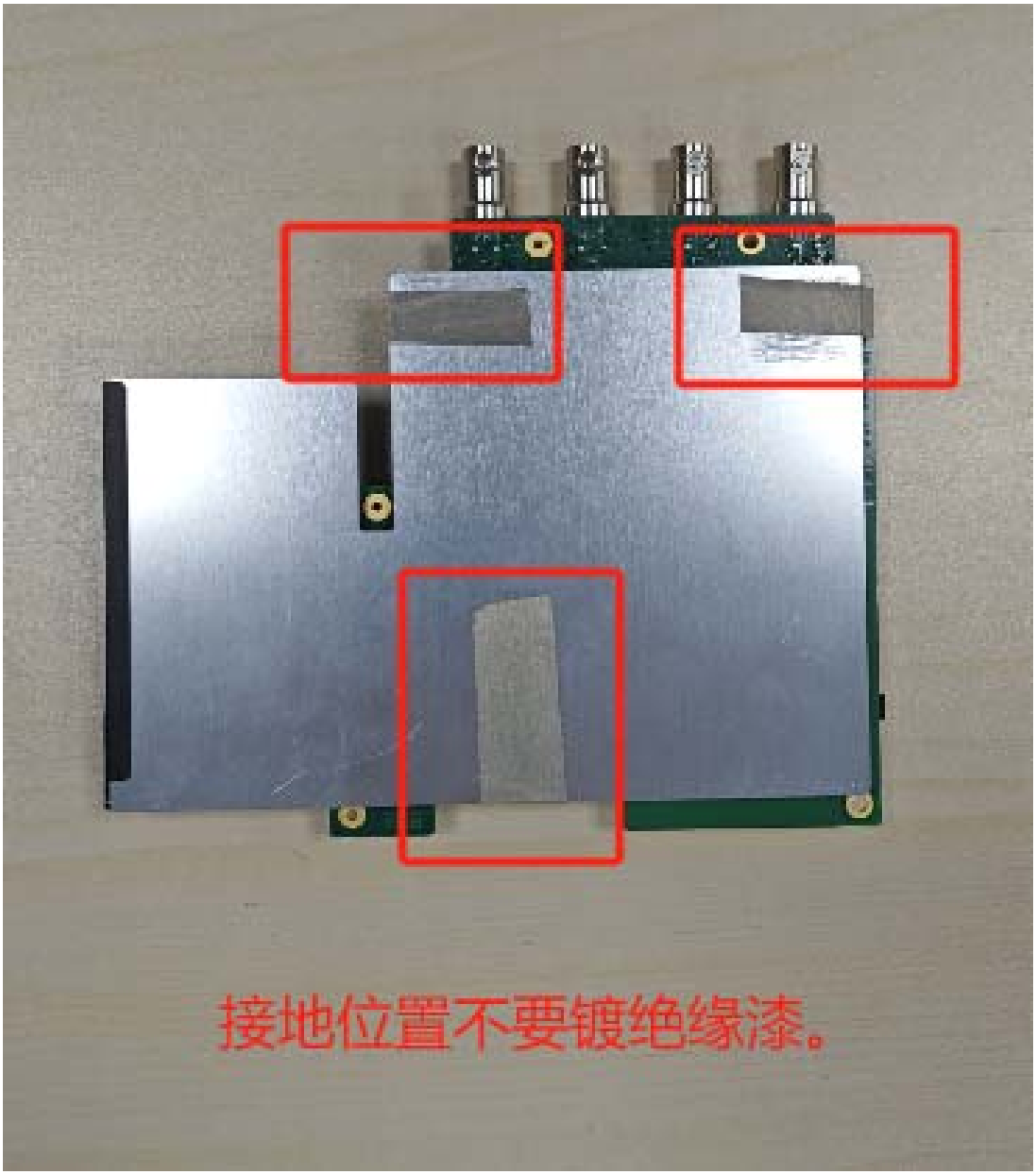
Device	

BT Antenna	


沿这条边定位
YJ-DC2333-BT-V03
BT Antenna

上层板此处，贴导电泡棉与下层板接地。

屏蔽罩与主板下方的金属板接地;
屏蔽罩与电池上的金属板接地;
接地的位置不要镀绝缘漆。


接地位置不要镀绝缘漆。