



Word Easy Electronics Co.,Ltd.

SPECIFICATION FOR APPROVAL

2025/11/18

Date

25111801

File No

1.0

Revision

NEXhome Smart Technologies Co.,Ltd.

CUSTOMER: _____

CUSTOMER NO: _____

BT Antenna L=40mm MHF

PART NAME: _____

WE007N.F0208.V01

SUPPLIER NO: _____

Date:

Q “TY:

CUSTOMER APPROVED BY

APPROVAL

CHIEF

SUPERVISOR

SUPPLIER SIGNATURE

APPROVAL

CHECK

DESIGN

工程专用章
Hunter

Luo

Liu

WE-RD-F01-A



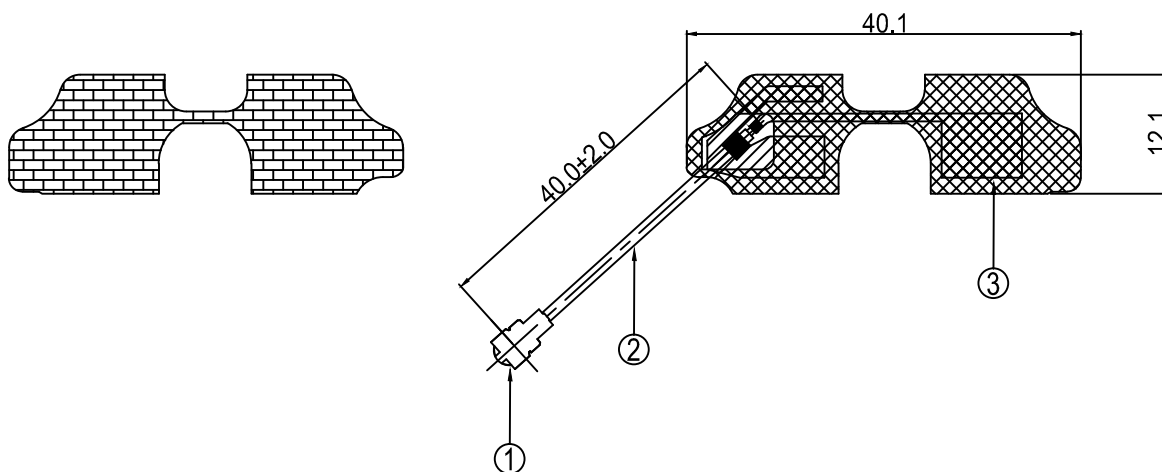
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RoHS

Compatible

REV.	DESCRIPTION	DATE
A	Initial Issuance	2025.11.18



3	FPCB	40.1*12.1*T0.3MM	FPCB	FPC0496.V01	1
2	Coaxial Cable	O.D.0.81 Black	O.D.0.81	CAB0081.V01	1
1	Mini Connector	Au Plated 4th	Cu	MET0XD4.V01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY



World Easy Electronics Co.,Ltd.

Tel :0591-22628085

Fax:0591-22627656

PART NAME: BT Antenna L=40mm MHF

PART NO.: WE007N.F0208.V01

DATE: 2025-11-18

APPROVED BY	CHECKED BY	DESIGNED BY		Tolerance
		周红涛	UNITS: mm	X.X ±0.50
			SCALE: 1/1	X.XX±0.15
			REVISION: A	X° ±3°



Antenna Specification

Electrical Properties

Frequency	2400~2500MHz
Impedance	50 Ohm Nominal
V.S.W.R	≤ 1.7
Return Loss	≤ -11
Radiation	Omni-directional
Gain (Peak)	$\leq -1.2\text{dBi}$
Polarization	Linear
Connector	4st generation I-PEX

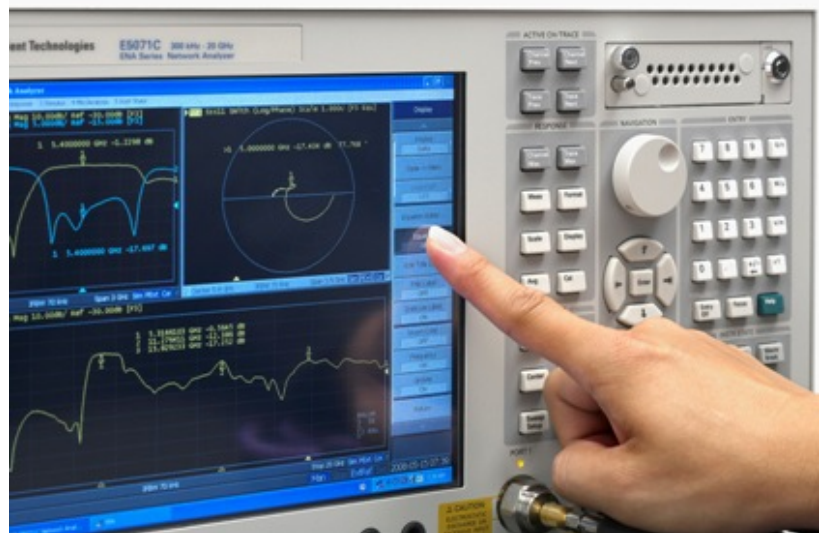
Physical Properties

Antenna Material	FPC
Cable Type	O.D.0.81//L=40mm
Operating Temp.	-10 ~ +60 °C
Storage Temp.	-10 ~ +70 °C
Cable Color	Black

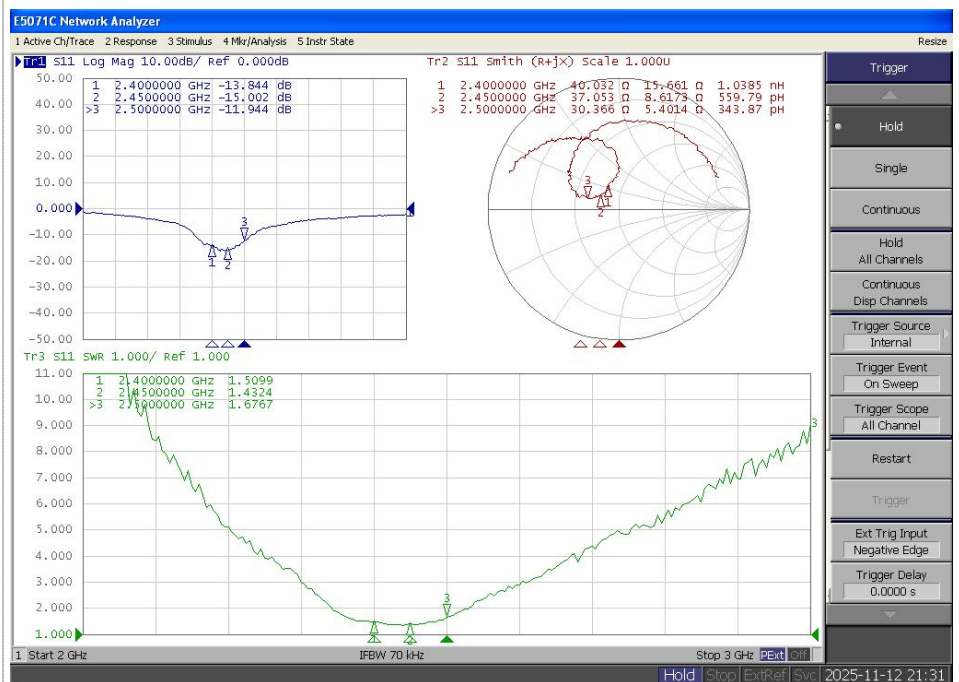


Antenna Performance Test

**Agilent
E5071C**



**S
Parameter
Test //
BT**





Antenna Passive Test



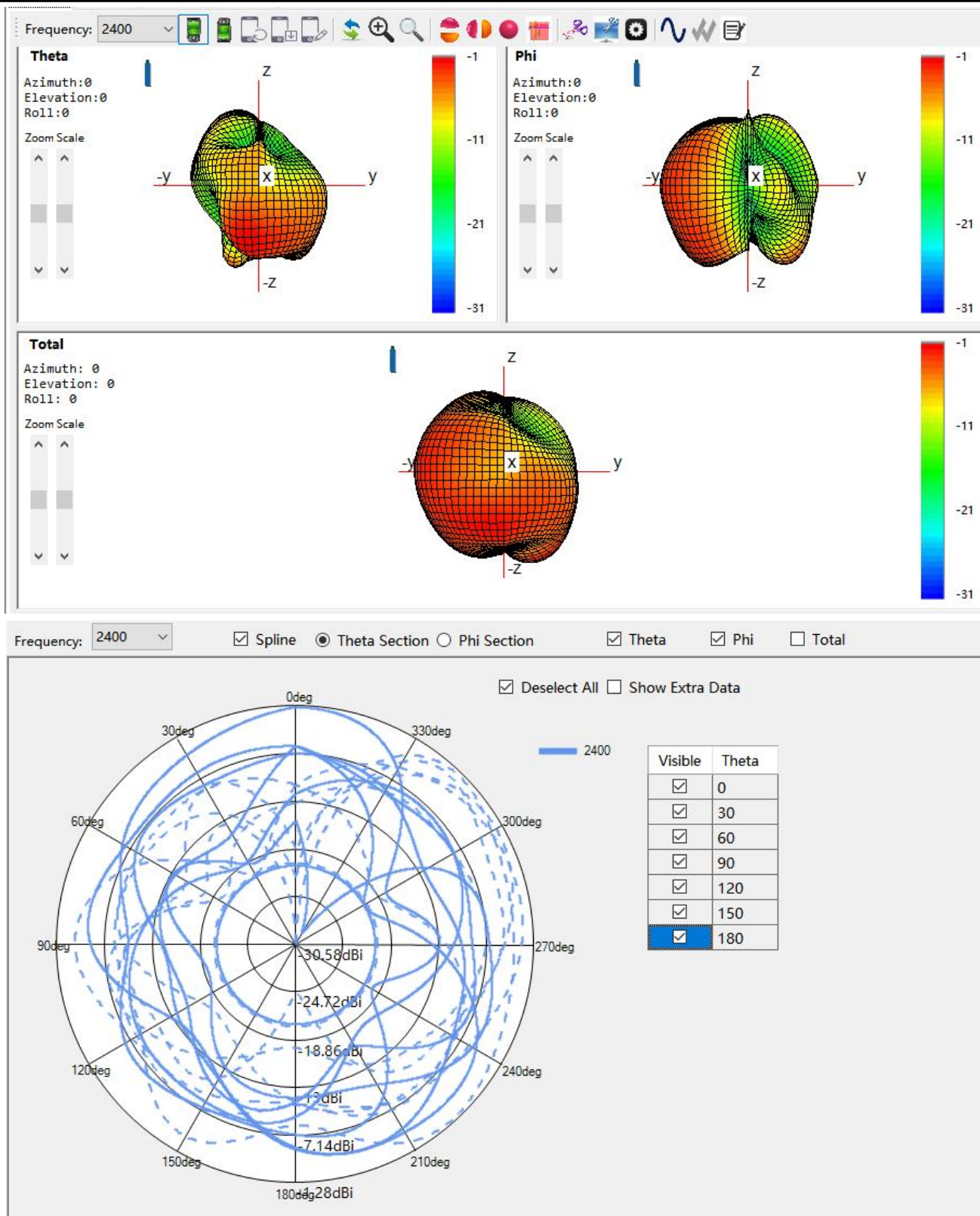


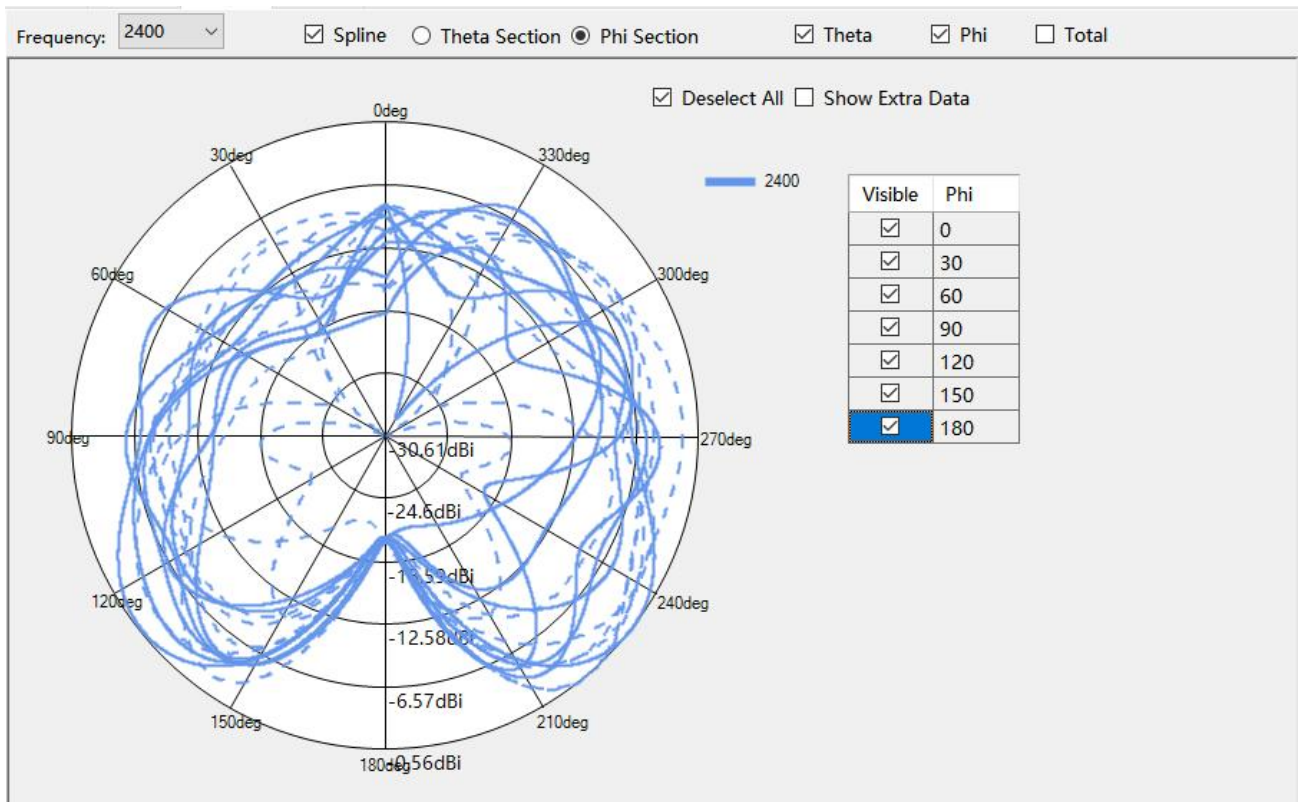
Passive Test For BT

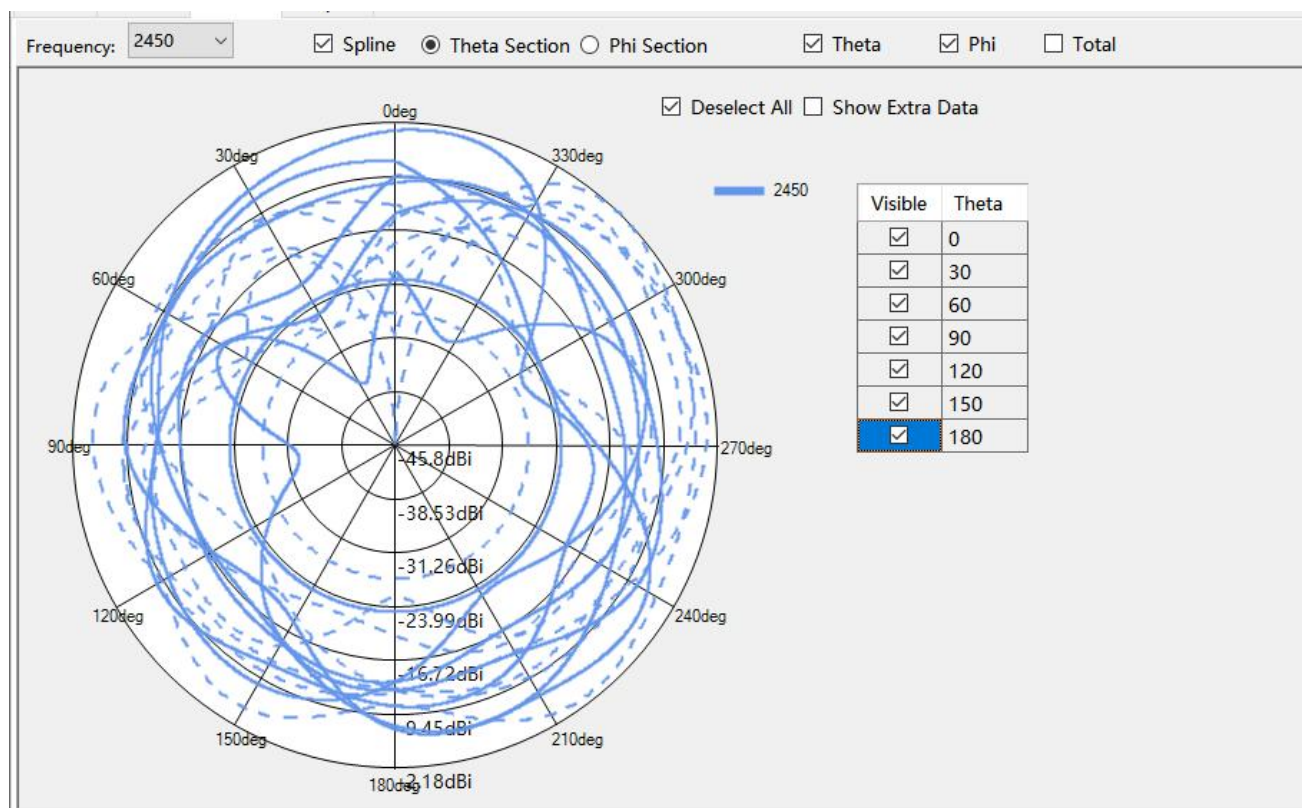
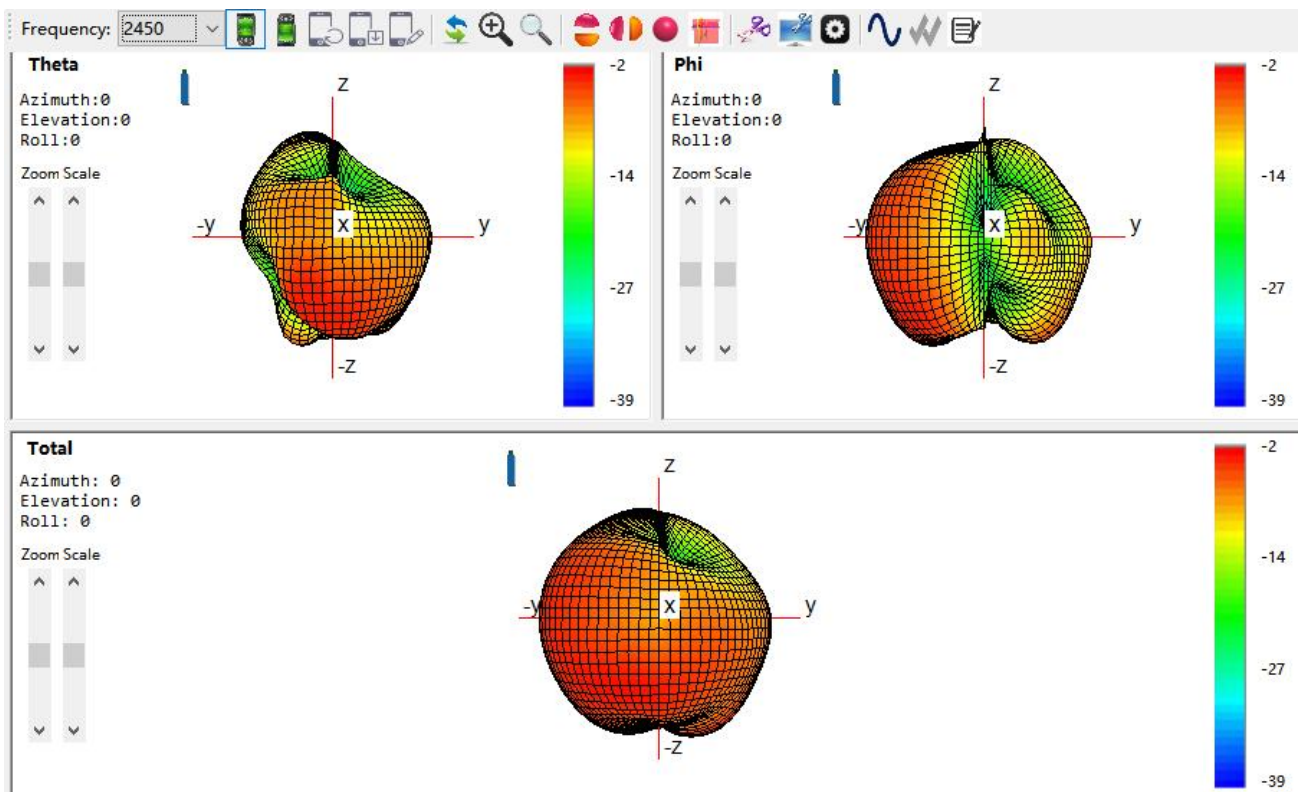
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	33.0	-4.8	-1.2
2410	31.2	-5.1	-1.2
2420	30.0	-5.2	-1.7
2430	27.6	-5.6	-2.0
2440	26.2	-5.8	-1.8
2450	24.0	-6.2	-2.5
2460	22.8	-6.4	-2.4
2470	20.7	-6.8	-3.1
2480	18.7	-7.3	-3.7
2490	17.4	-7.6	-3.5
2500	16.1	-7.9	-3.8

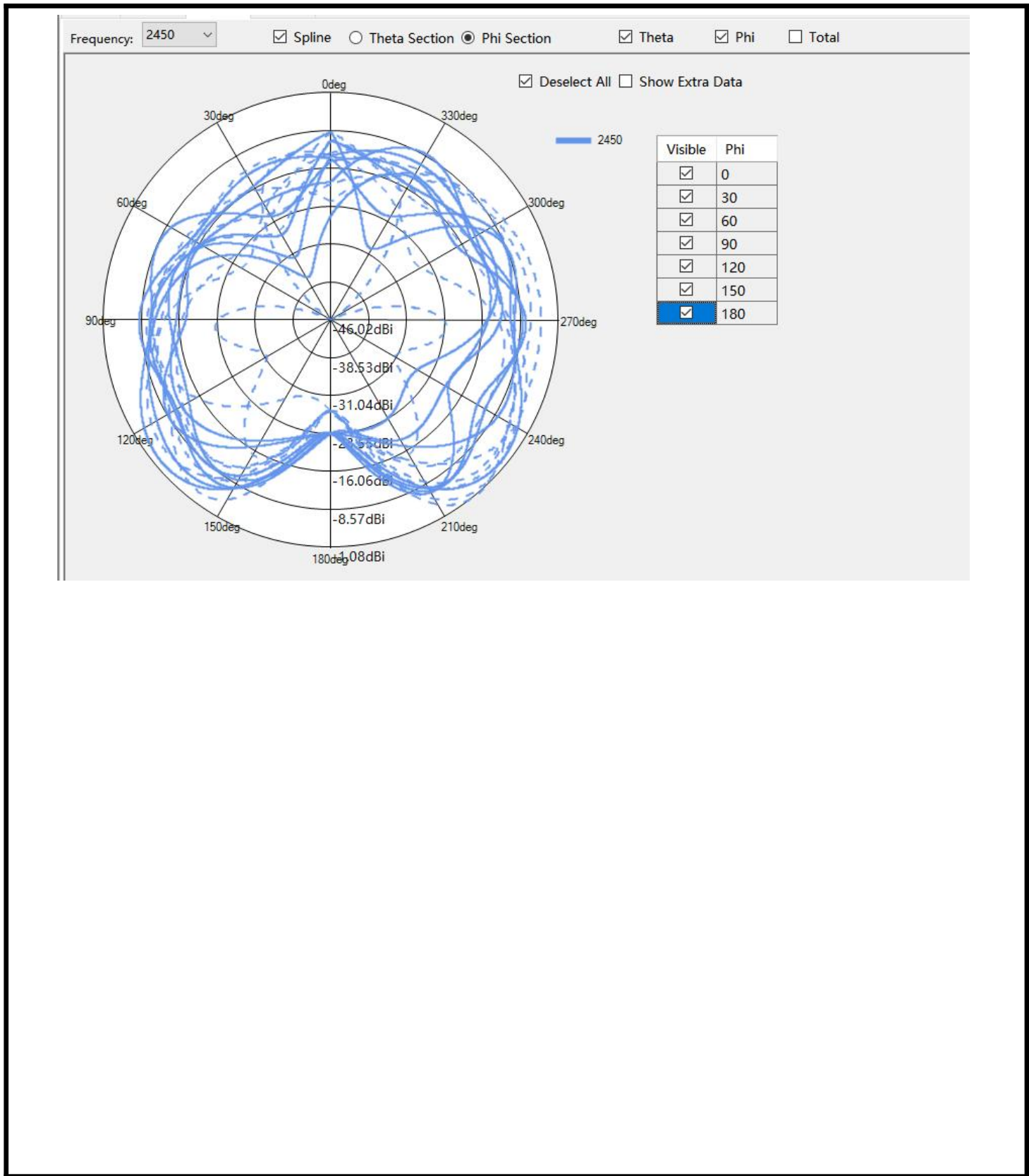


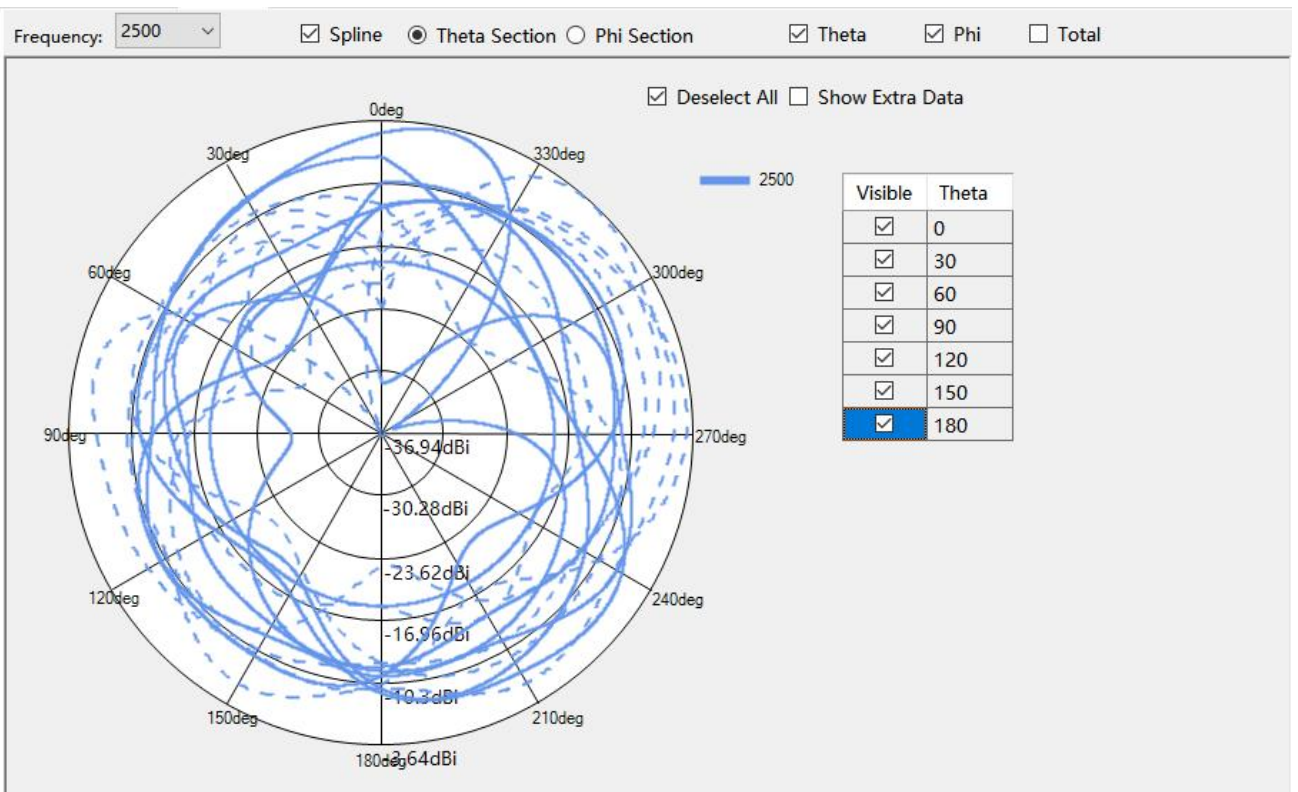
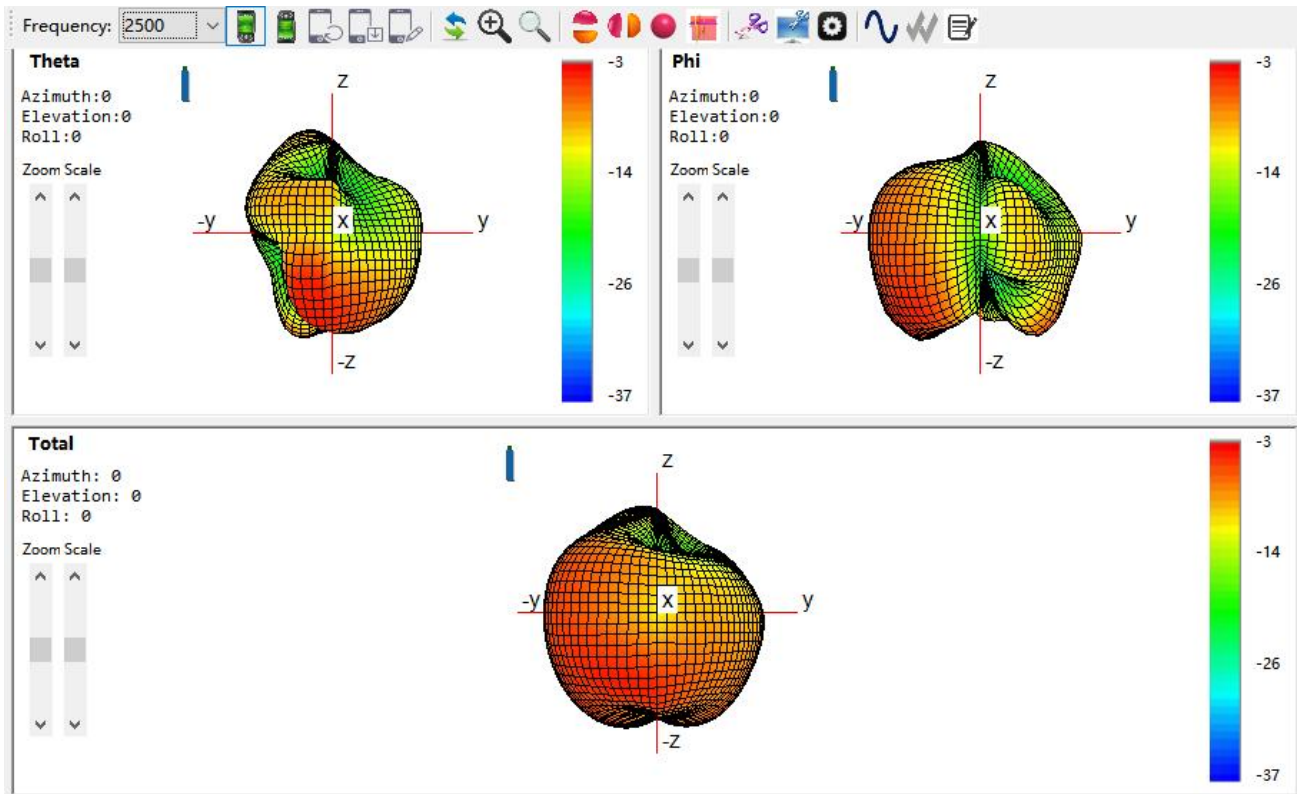
Antenna Radiation Pattern

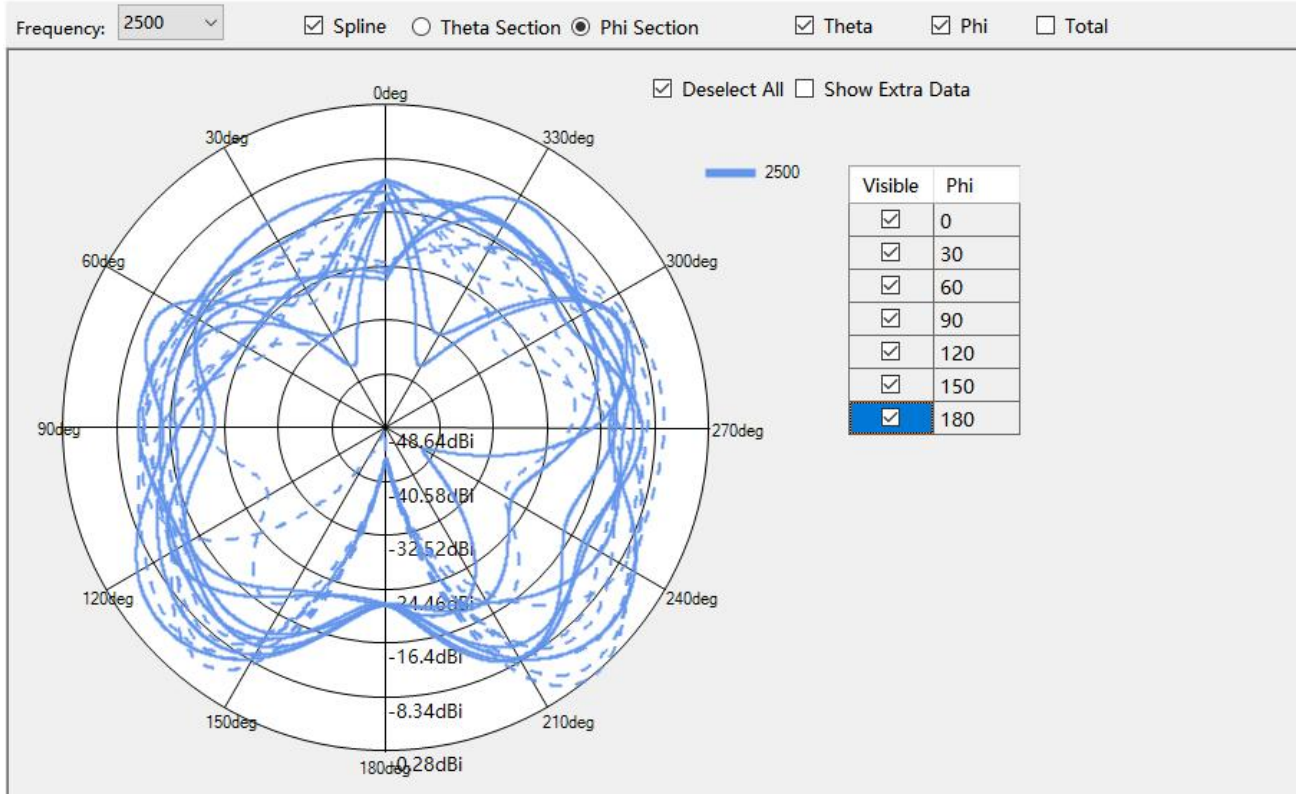












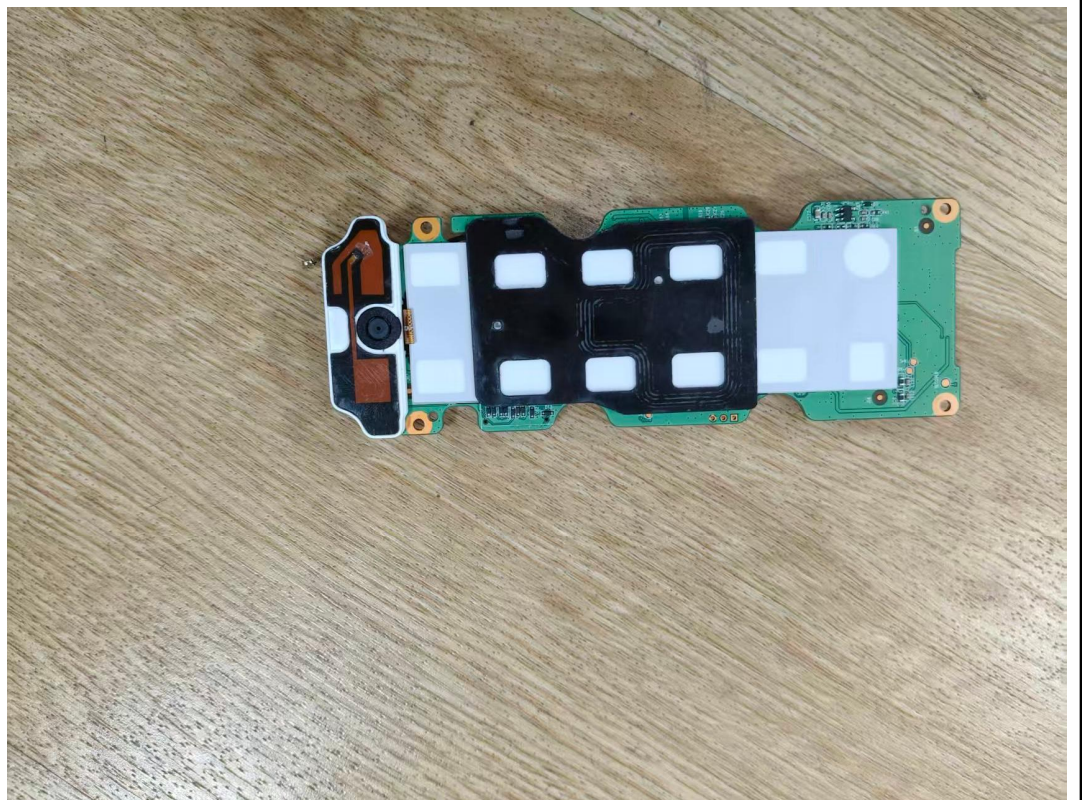


Antenna Profile

Device

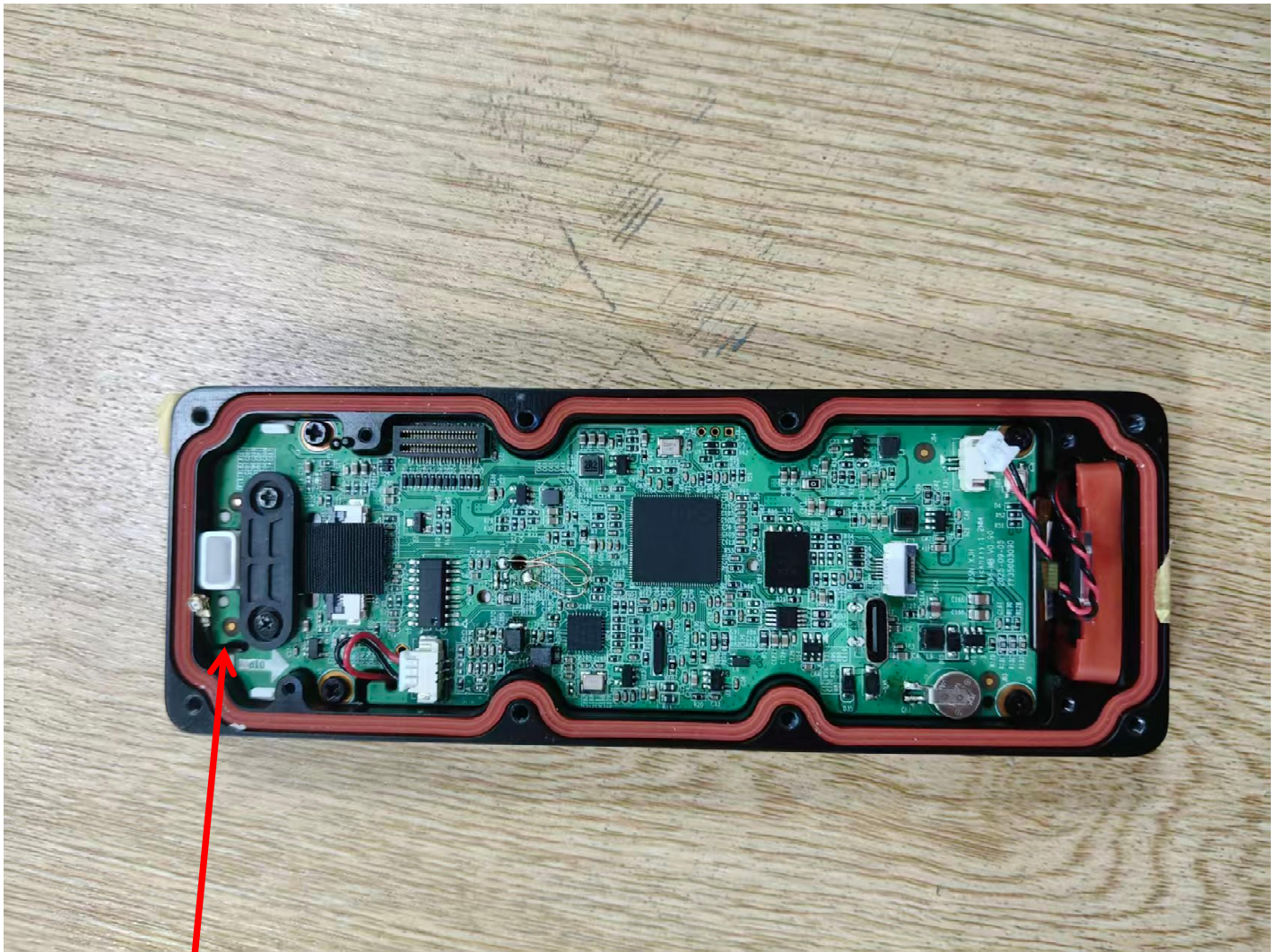


*Antenna
BT*





Assembly Drawing



BT Antenna