Shenzhen Heyixun Technology Co., LTD

SPECIFICATION FOR APPROVAL

customer Name	Guangzhou Youwo Technology Co., Ltd		
Customer project Name	BO807Z3K	Heyixun project Name	BO807Z3K
customer P/N		Heyixun P/N	HYX008-BO807Z3K-L-V8
Band	2400-2500MHz		
vers ion	A1		
Designer Information			
RF Engineer	Xu Liang	EE Engineer	Shi Zhenhao
ME Engineer	Xu Liang		

Heyixun Approval				customer Approval	
	prepared	checked BY	Approval BY	checked BY	Approval BY
signature	Zhu Zengyuan				
Date	2024-12-24				

change Log				
vers ion	change Description	person in charge	Approval BY	Date

catalogue

Drawing or Product Image

Shenzhen Heyixun Technology Co., LTD

sample Dimensions Test Report

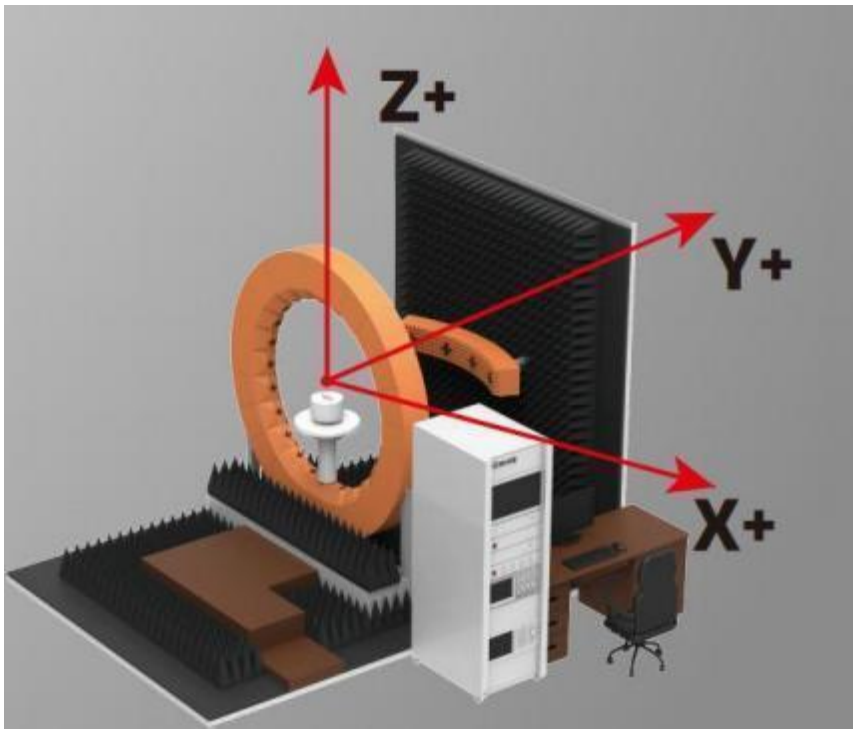
customer Name	GuangzhouYouwo TechnologyCo., Ltd	customer P/N		Heyixun P/N	HYX008-BO807Z3K-L-V8
Test Date	2024-12-24	samp le Qty.	3	Inspector	Zhu Zengyuan
Dimens ion NO.	standard	samp le 1	samp le 2	samp le 3	pass/NG
①length	15.92mm±0.2mm	15.90mm	15.92mm	15.95mm	**Pass**
②width	7.98mm±0.2mm	7.99mm	7.96mm	7.98mm	**Pass**
③thickness	0.2±0.05mm	0.19mm	0.21mm	0.20mm	**Pass**
Conclusion					PASS
Inspector & Date	Zhu Zengyuan 2024-12-24		Approval &Date		

RF Performance Test Report

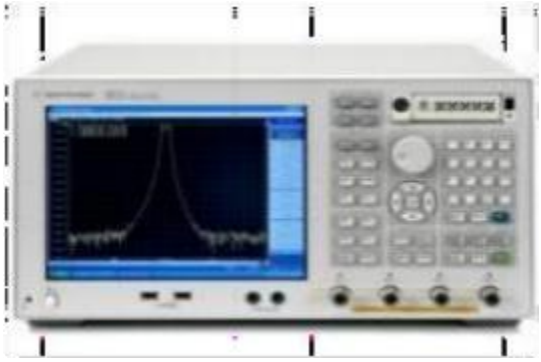
customer Name	Guangzhou Youwo Technology Co., Ltd	project Name	BO807Z3K	Heyixun P/N	HYX008-BO807Z3K-L-V8
Band	2400-2500MHZ	Test Date	2024-12-24	Inspector	Zhu Zengyuan

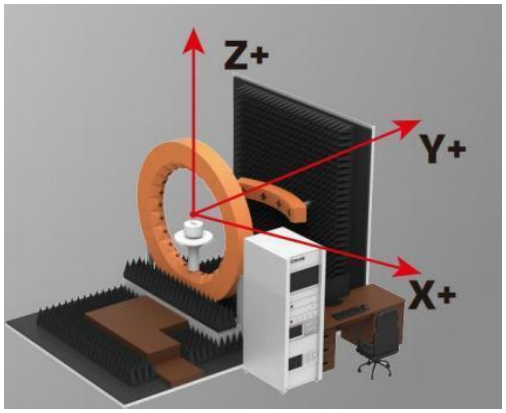
Antenna Test Equipment Introduction

Test of antenna input characteristics using Agilent E5071c andAgilent5071c vector network analyzer ; The radiation pattern of the antenna are tested using the ETS starlab 3D near field Anechoic Chamber, and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:

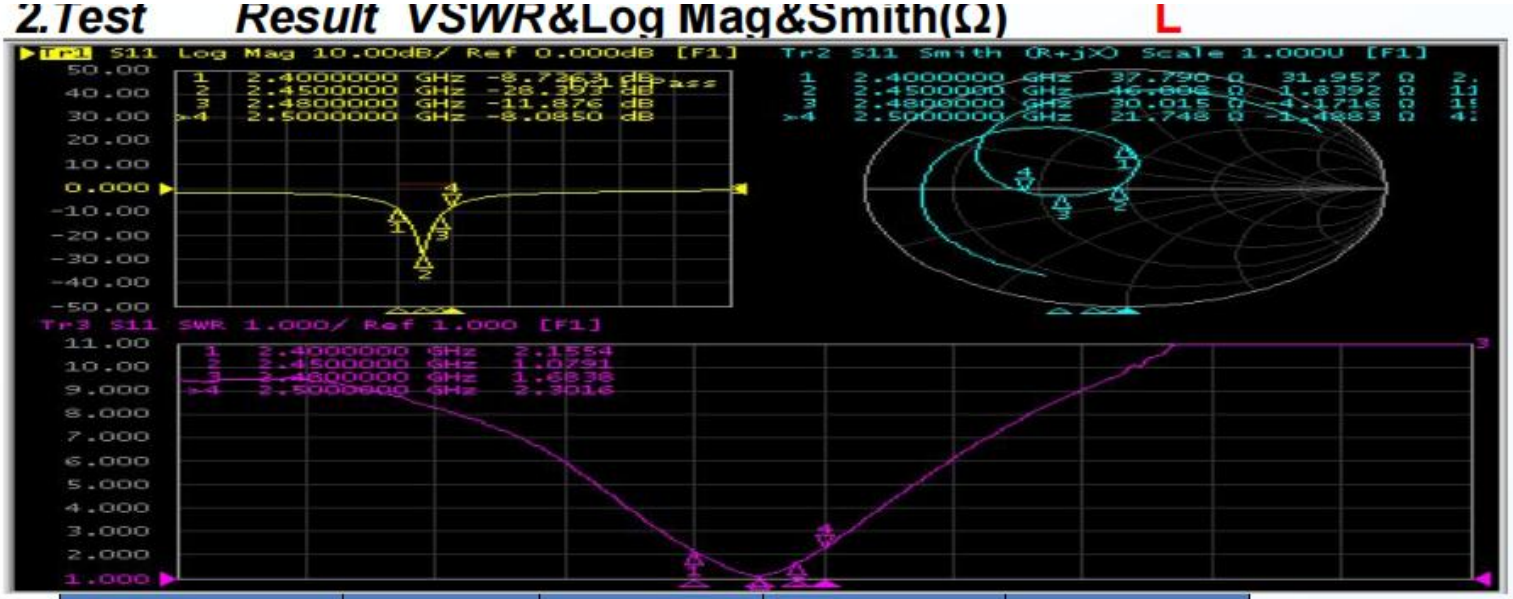


Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	Agilent 8960 E5515C& Agilent 4438C&CMW500 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C





2.Test Result VSWR&Log Mag&Smith(Ω) L



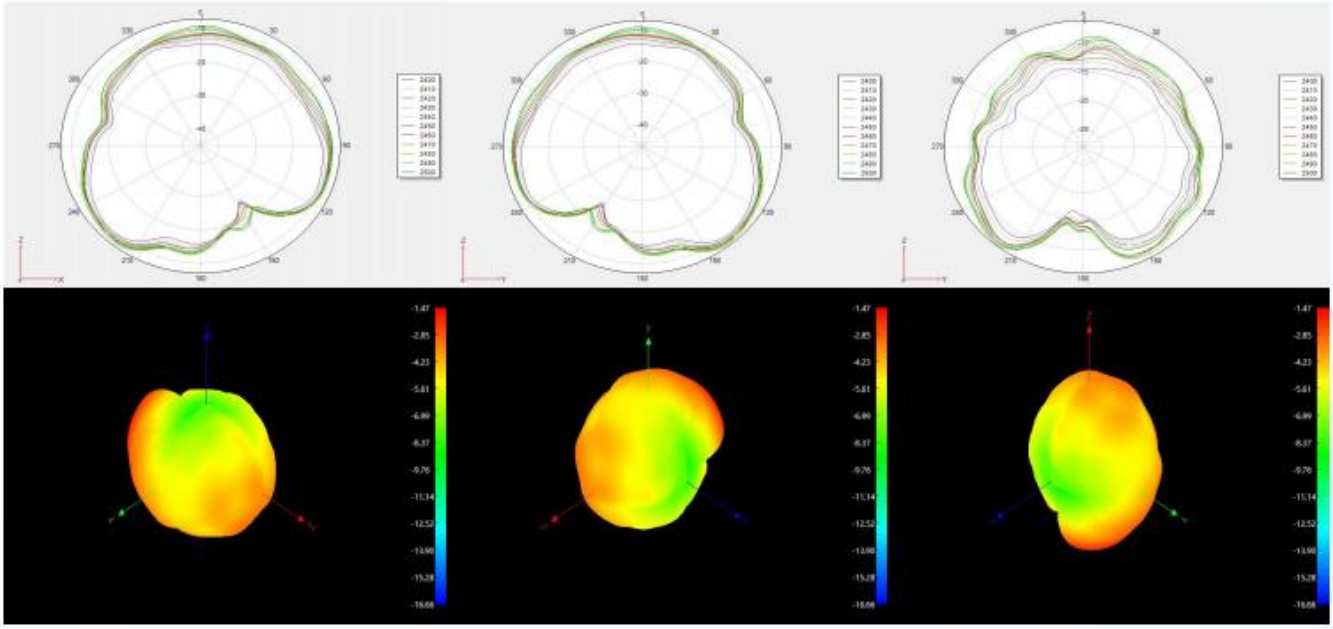
Frequency (MHz)	2400	2450	2480	2500
Log Mag	-8.72	-28.39	-11.87	-8.08
Smith(Ω)	37.79	46.88	30.01	21.74
VSWR	2.15	1.07	1.68	2.30

3.Test Result

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	25.36	-1.74
2410	25.84	-1.67
2420	26.94	-1.78
2430	27.44	-1.64
2440	29.31	-0.99
2450	28.46	-1.25
2460	27.34	-1.47
2470	26.19	-1.52
2480	25.33	-1.87
2490	25.62	-1.78
2500	25.41	-1.69

3.Test Result

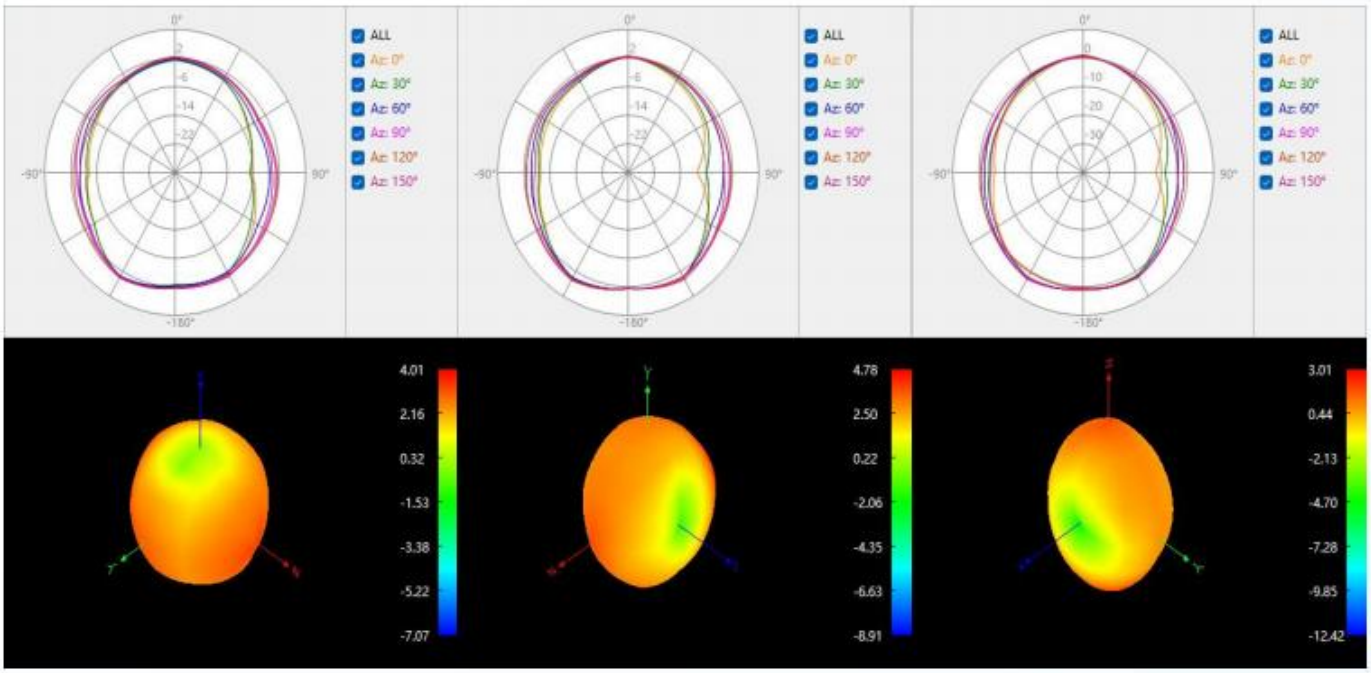
3.1 2D Pattern——BTANT



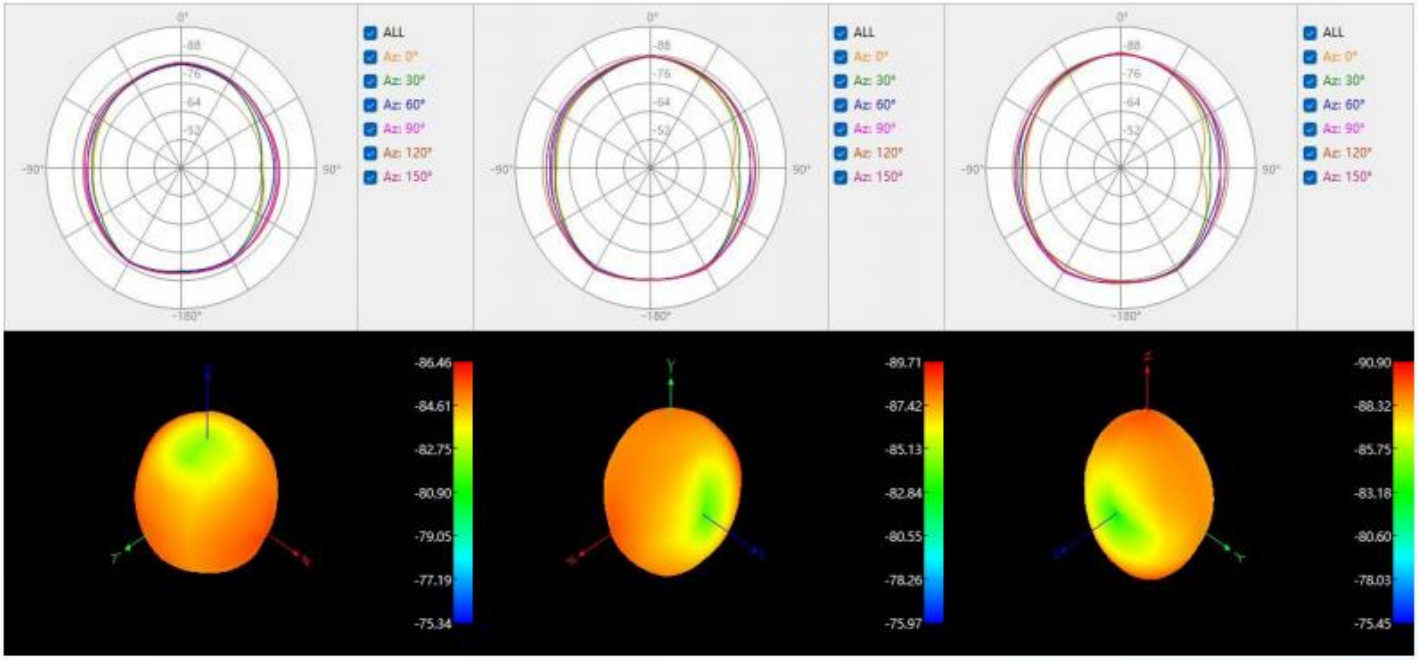
3.OTA Data

Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band		Channel	TRP(dBm)	TIS(dBm)
BT	L	0	1.03	-83.49
		39	1.57	-86.48
		78	-0.65	-87.23
	R	0	2.53	-85.64
		39	2.05	-87.26
		78	-1.81	-86.01

3.1.Test Result L-TRP



3.1.Test Result L-TIS



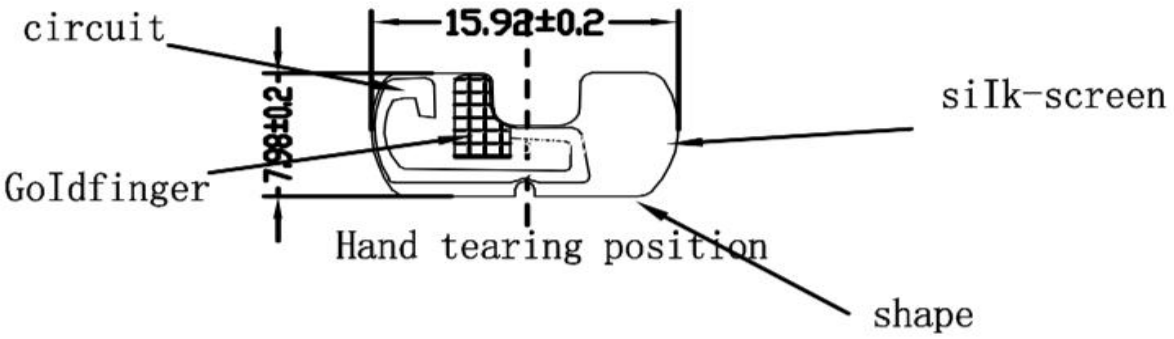
Shenzhen Heyixun Technology Co., LTD

Reliability Test Report

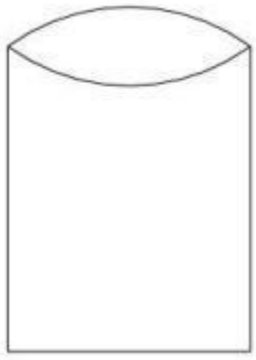
customer Name	Guangzhou Youwo Technology Co., Ltd	customer P/N		Heyixun P/N	HYX008-BO807Z3K-L-V8	
Test Date	2024-12-24	samp le Qty.	3	Inspector	Zhu Zengyuan	
Test Item	Requireme	testing equipment	samp le 1	samp le 2	samp le 3	PASS/NG
High temperature storage	The test was performed after 24 hours of exposure at +85° C and 2 hours of recovery	Constant temperature and humidity chamber	OK	OK	OK	Pass
Cryogenic storage	The test was performed after 24 hours of exposure at -40° C and 2 hours of recovery	Constant temperature and humidity chamber	OK	OK	OK	Pass
High temperature operation	Operates at +60° C for 24 hours	Constant temperature and humidity chamber	OK	OK	OK	Pass
Operates at low temperatures	It works on power for 24H at -20° C	Constant temperature and humidity chamber	OK	OK	OK	Pass
Salt spray test	(5 Shi 0.5)*Sodium chloride, pH value is 6.5~7.2, and the temperature of the experimental chamber is (35±2)° C ☑24H □48H	Salt spray testing machine	OK	OK	OK	Pass
Connector riveting pull-out force	1.13 Wire size ≥10N 0.81 Wire size ≥8N RG174 ≥60N RG178 ≥50N	Push-pull force gauge	/	/	/	/
Conclusion						Pass
Inspector & Date	Zhu Zengyuan 2024-12-24		Approval &Date			

PACK ING CRITERION

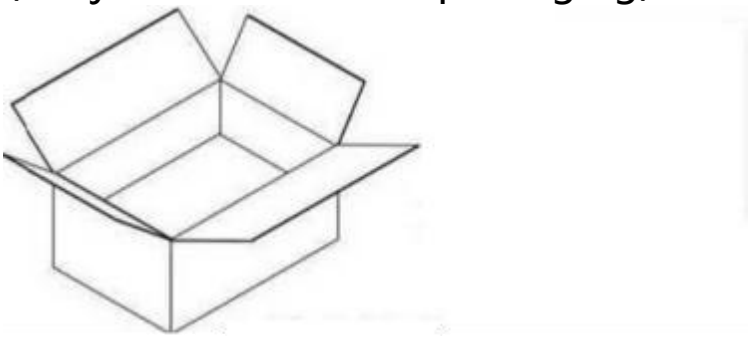
1、Individual products (Subject to the actual packaging)



2、Big PE bag packing (full sheet/single 90pcs) (Subject to the actual packaging)



3、Sealed, the outer box is affixed with our production label and ROHS label. (Subject to the actual packaging)



Environmental requirements

MSDS (Material Safety Data Sheet)	☑offer	☐Not available	☐N/A
COC (Environmental Protection Agreement)	☑offer	☐Not available	☐N/A
Technical standards for environmentally friendly hazardous substances	☑offer	☐Not available	☐N/A
Specific environmental requirements	☑ROHS2.0 COMPLIANT ☑Halogen-free ☑Meets California 65	☑ROHS2.0 COMPLIANT	

Install Wizard or Other

Installation Process:

Take the 1PCS product, tear off the release paper on the back of the FPC by hand, and then align the position of the FPC positioning hole with the positioning hole position of the shell (positioning rib or positioning line), and attach it to the shell flatly, the specific position is shown in the following figure:

Precautions during the installation process:

☑After attaching the antenna, ensure that the FPC is fully attached to the housing;

☑The positioning hole is aligned with the positioning post position of the housing;

☑The edge of the FPC is against the edge of the case;

☐Antenna with TerminalsWhen snapping the terminals to the PCBA end of the motherboard, first snap the terminals and then vertically;

☐When disassembling the antenna terminals, it is necessary to use a tool (such as a special crowbar) to the terminals vertically, and do not directly pull the wire to disassemble them。