中国认可
国际互认
检测
TESTING
CNAS L6791

TEST REPORT

Applicant:	PREDICORE TECHNOLOGY INC
Address:	18703 CLAY RD STE 200, (77084) HOUSTON, TEXAS, USA
Equipment Type:	Wiver
Model Name:	Wiver (refer to section 2.3)
Brand Name:	MAPER
Test Standard:	IEEE Std 149-2021
Sample Arrival Date:	Apr. 02, 2025
Test Date:	Apr. 02, 2025
Date of Issue:	Apr. 24, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Mai Jintian **Checked by:** Xia Long **Approved by:** Tolan Tu (Testing Director)

Revision History

Version	Issue Date	Revisions
Rev. 01	Apr. 24, 2025	Initial Issue

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☑ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	PREDICORE TECHNOLOGY INC
Address	18703 CLAY RD STE 200, (77084) HOUSTON, TEXAS, USA
Contact Person	Diego Ismirlian
Telephone Number	+54 911 4917 3533
E-mail Address	dismirlian@mapertech.com

2.2 Manufacturer Information

Manufacturer	PREDICORE TECHNOLOGY INC
Address	18703 CLAY RD STE 200, (77084) HOUSTON, TEXAS, USA

2.3 General Description for Equipment under Test (EUT)

EUT Name	Wiver
Model Name Under Test	Wiver
Serial Model Name	R2 & HD & HT
Model Description	All models are same with electrical parameters and internal circuit structure, but only differ in model name. (this information provided by the customer)
Antenna Type	PCB Antenna
Dimensions	33*18 mm

2.4 Ancillary Equipment

Note: Not applicable.

2.5 Technical Information

Frequency Range	902MHz ~ 928MHz

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	IEEE Std 149-2021	IEEE Standard Test Procedures for Antennas

3.2 Test Verdict

Report Section	Description	Remark
ANNEX A.1	Gain and Efficiency	--
ANNEX B	Radiation Pattern	--

3.3 Test Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

Item	Uncertainty
Gain	±1.92dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Condition

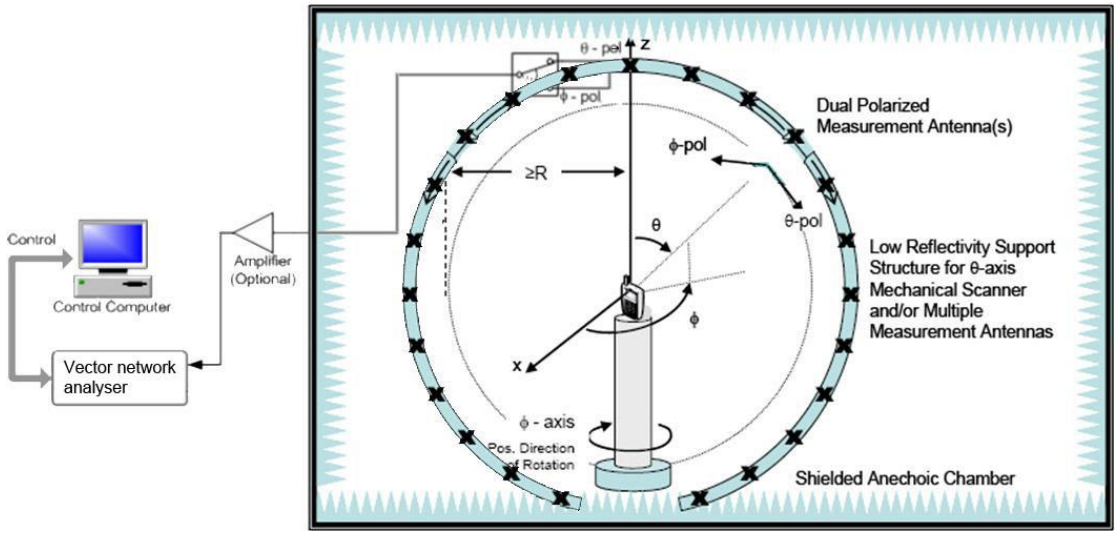
Environment Parameter	Selected Values During Tests			
	Ambient Pressure(KPa)	Temperature(℃)	Voltage	Relative Humidity (%)
Normal Temperature, Normal Voltage (NTNV)	100 to 102	21.6	N/A	48

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
SG24 Multi-probe Antenna Measurement System	SATIMO	SG24-L	1101855-0001	2024.11.11	2027.11.10
Vector Network Analyzer	Agilent	E5071B	MY42404001	2025.01.15	2026.01.14
Description	Manufacturer	Name		Version	
Test Software	MVG	SPM		V 1.8	

4.3 Test Setup

4.3.1 Antenna gain, efficiency and radiation pattern test setup



4.4 Test Frequencies

Test Frequencies	902MHz, 903MHz, 904MHz, 905MHz, 906MHz, 907MHz, 908MHz, 909MHz, 910MHz, 911MHz, 912MHz, 913MHz, 914MHz, 915MHz, 916MHz, 917MHz, 918MHz, 919MHz, 920MHz, 921MHz, 922MHz, 923MHz, 924MHz, 925MHz, 926MHz, 927MHz, 928MHz

ANNEX A TEST RESULTS

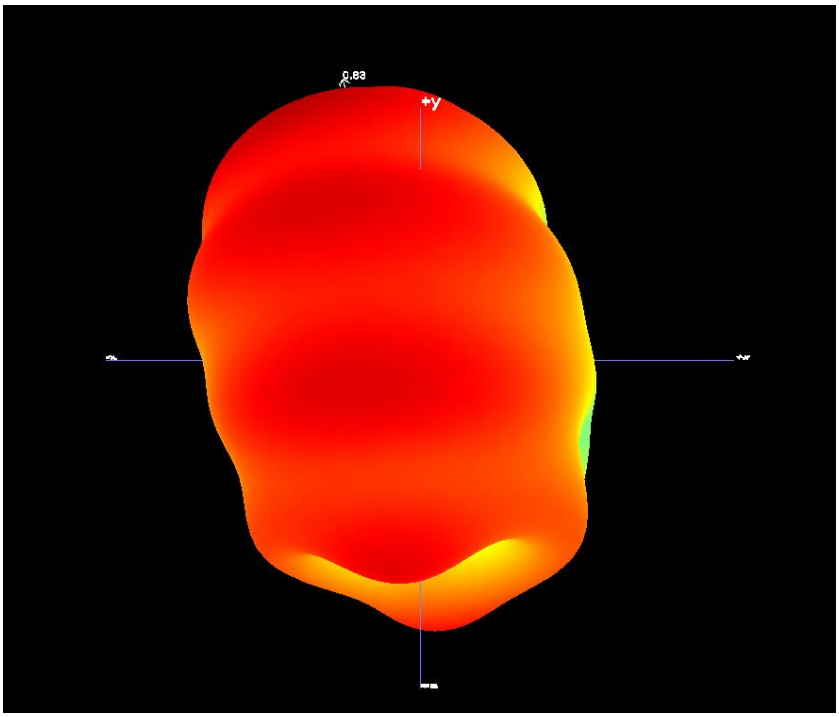
A.1 Gain and Efficiency

Frequency	Gain (dBi)	Efficiency (%)
902MHz	**0.83**	**51**
903MHz	0.75	50
904MHz	0.63	49
905MHz	0.37	48
906MHz	0.34	47
907MHz	0.33	46
908MHz	0.33	45
909MHz	0.35	44
910MHz	0.35	44
911MHz	0.37	43
912MHz	0.34	42
913MHz	0.28	41
914MHz	0.20	41
915MHz	0.52	39
916MHz	0.49	39
917MHz	0.50	38
918MHz	0.50	38
919MHz	0.47	38
920MHz	0.37	37
921MHz	0.19	36
922MHz	0.01	35
923MHz	-0.16	33
924MHz	-0.27	33
925MHz	0.00	32
926MHz	-0.09	32
927MHz	-0.22	31
928MHz	-0.43	30

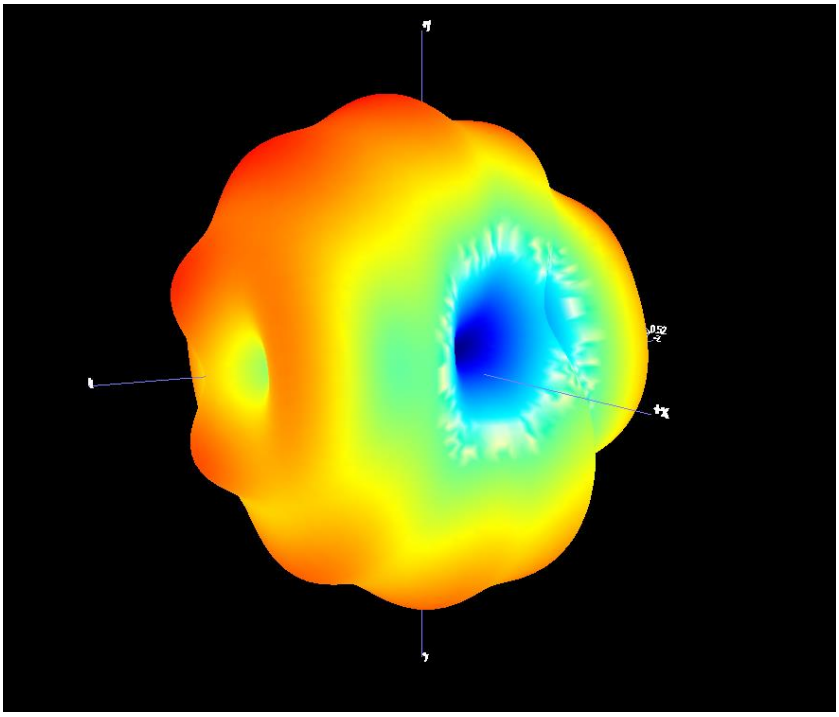
ANNEX B RADIATION PATTERN

B.1 3D Pattern

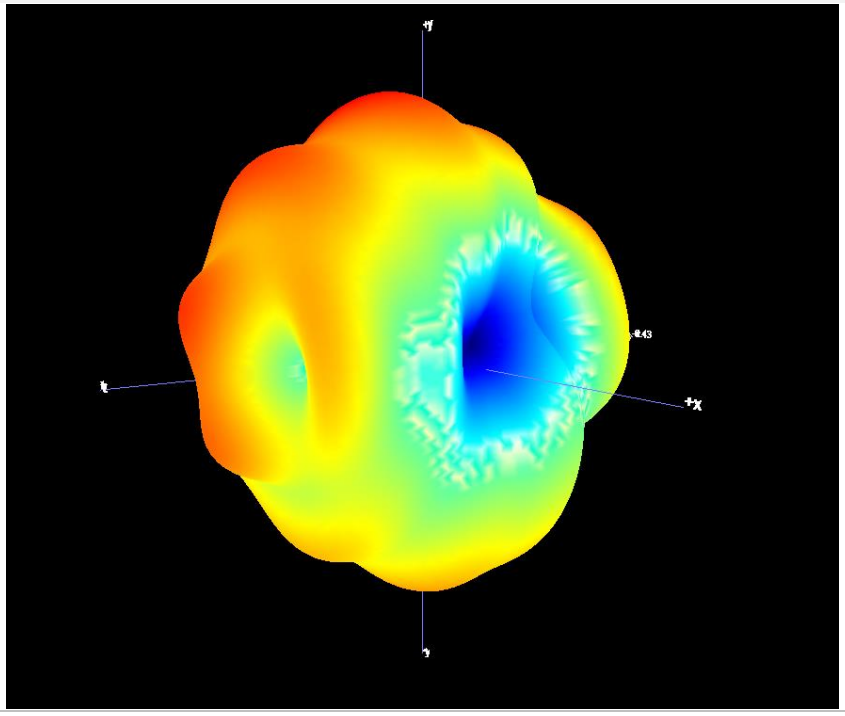
B1.1 3D Pattern for 902MHz



B1.2 3D Pattern for 915MHz

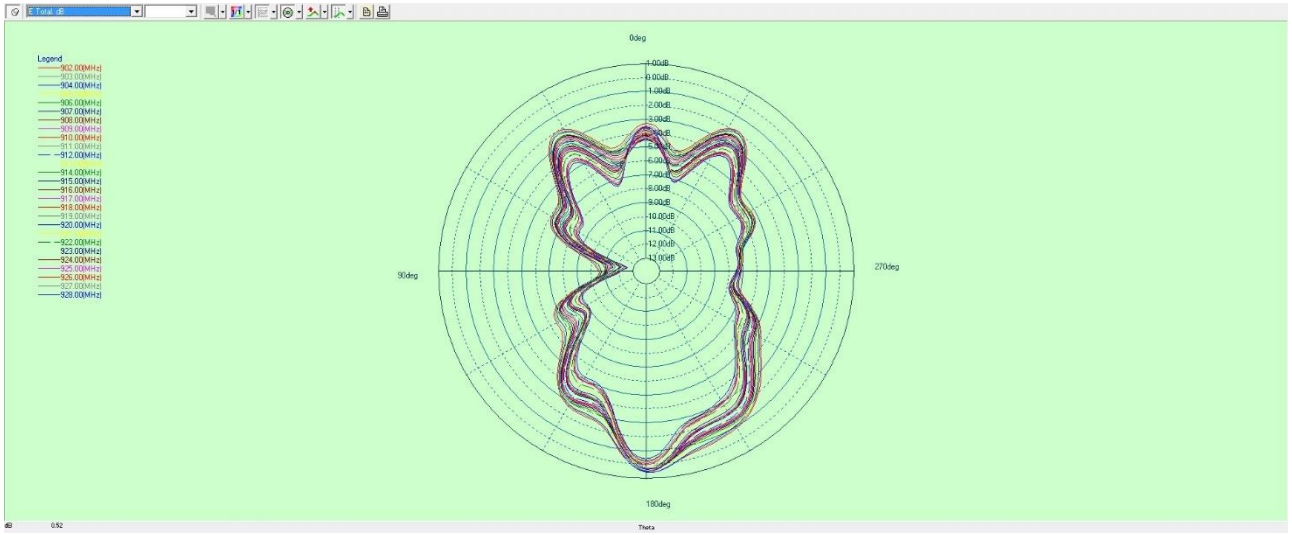


B1.3 3D Pattern for 928MHz

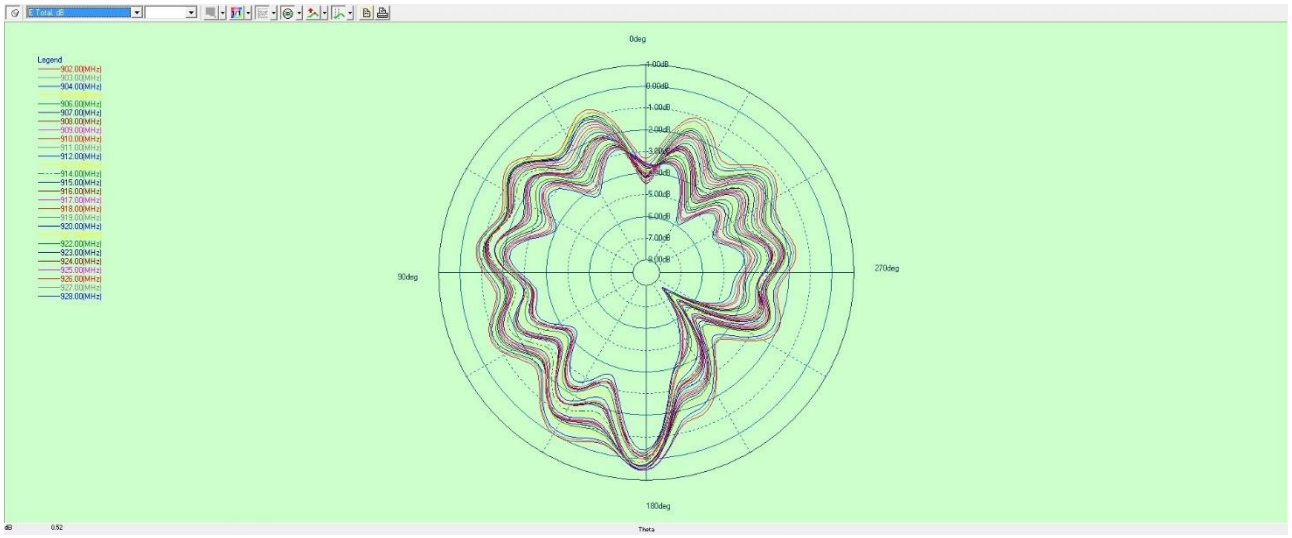


B.2 1D Radiation Pattern

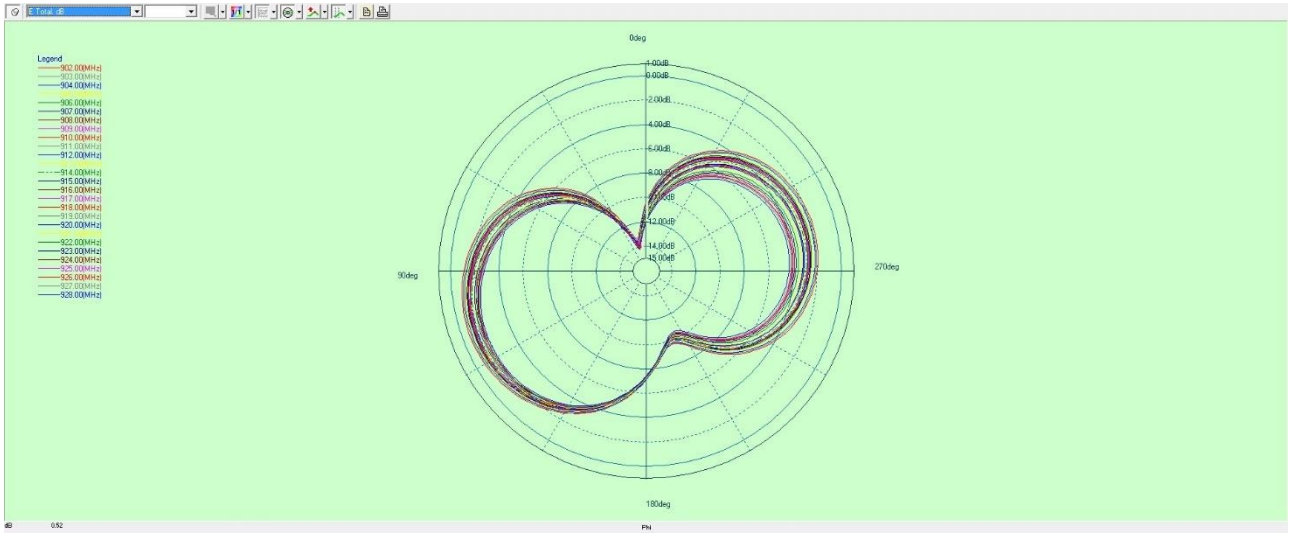
B2.1 PHI=0



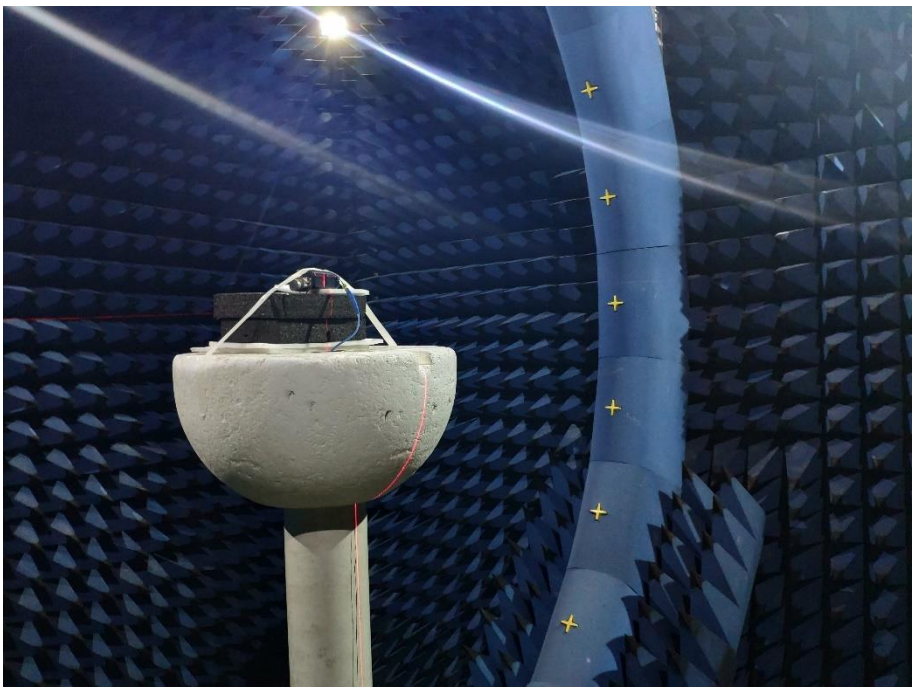
B2.2 PHI=90

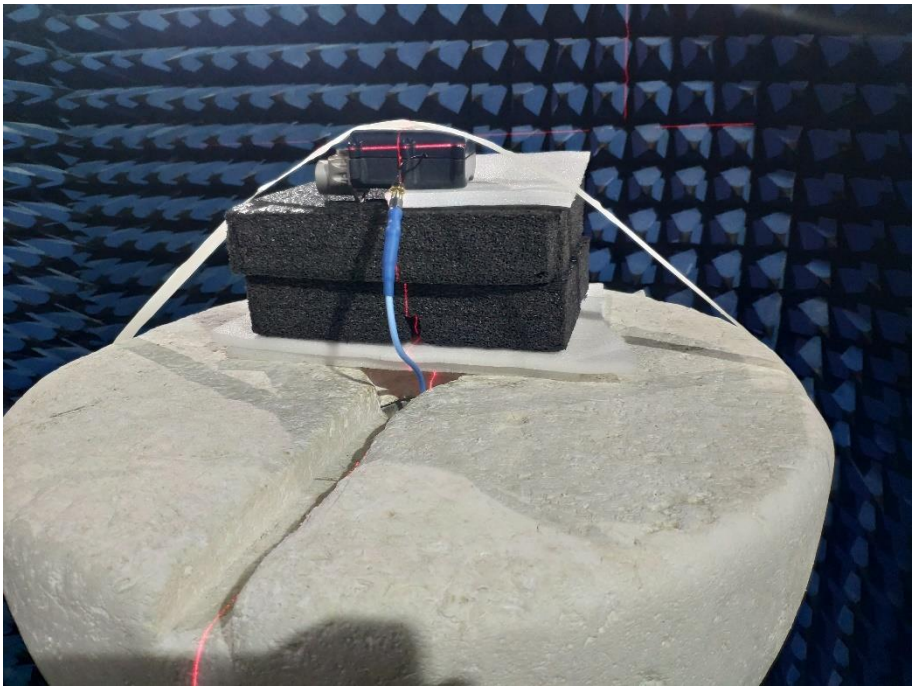


B2.3 THETA=90

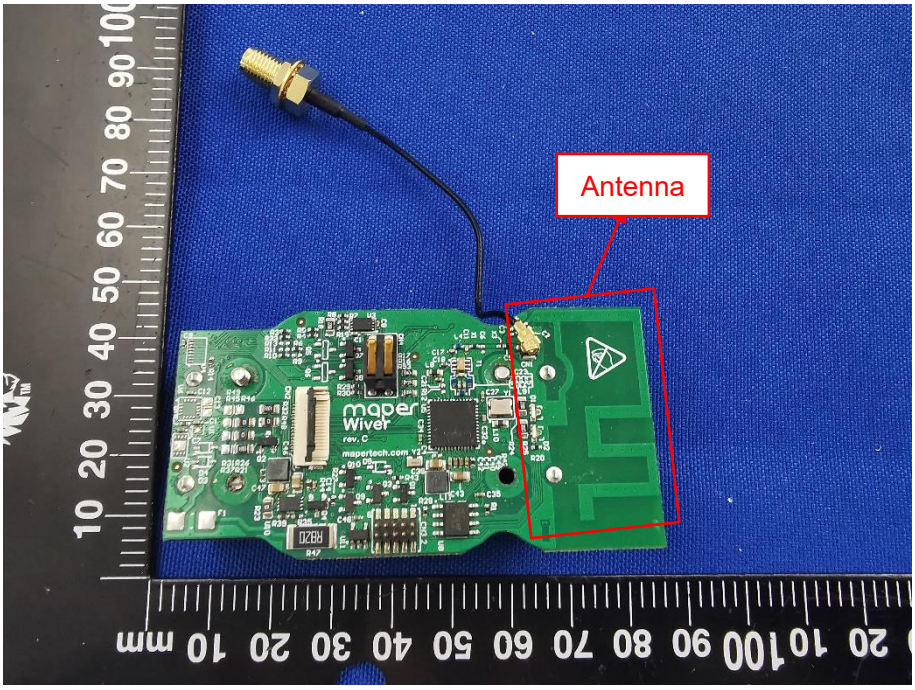


ANNEX C TEST SETUP PHOTO





ANNEX D EUT PHOTO



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--END OF REPORT--