



REPORT No.: SZ24070139E01

TEST REPORT

APPLICANT : AXPPO Technology Inc.

PRODUCT NAME : TMP6113 SUB ANTENNA

MODEL NAME : TMP6113_SUB_ANT_V2.1_FPC_CABLE

TRADE NAME : TM

BRAND NAME : TM

STANDARD(S) : IEEE Std 149-2021

RECEIPT DATE : 2024-07-15

TEST DATE : 2024-07-17

ISSUE DATE : 2024-08-05



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MORLAB

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Change History		
Version	Date	Reason for change
1.0	2024-08-05	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	AXPRO Technology Inc.
Applicant Address:	9F., No. 217, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231633, Taiwan
Manufacturer:	AXPRO Technology Inc.
Manufacturer Address:	9F., No. 217, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231633, Taiwan

1.2. Equipment Under Test (EUT) Description

Wireless Type	915MHz MIC RF
Frequency	902.561MHz-919.19MHz
Antenna Type	N/A
Product HW Version	N/A
Product SW Version	N/A
IMEI	N/A
Sample No.	1#



2. Test Results

2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	IEEE Std 149-2021	IEEE Recommended Practice for Antenna Measurements

2.2. Test Conditions

Test Environment Conditions:

Relative Humidity(%):	25 - 75
Temperature(°C):	10 - 30

2.3. Measurement Uncertainty

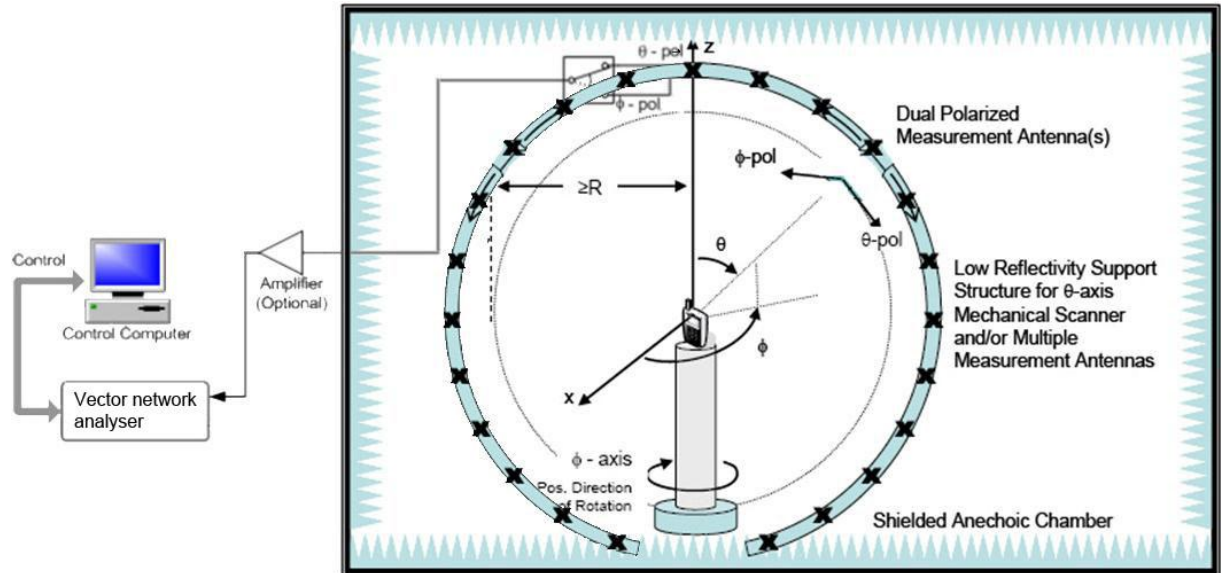
The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in Measurement” (GUM) published by ISO. When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% Confidence intervals.

2.4. Test Results lists

2.4.1. Gain

Frequency (MHz)	Gain(dBi)
902.561	-3.45
903	-3.47
904	-3.49
905	-3.49
906	-3.51
907	-3.54
908	-3.58
909	-3.63
910	-3.67
911	-3.71
912	-3.75
913	-3.75
914	-3.76
915	-3.78
916	-3.78
917	-3.77
918	-3.79
919.19	-3.86

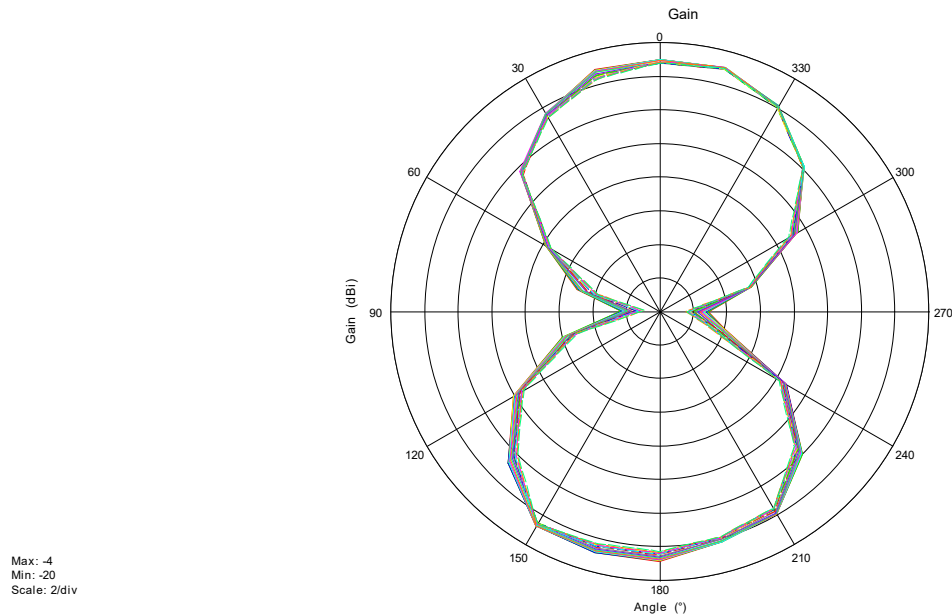
Annex A Test Setup Photos



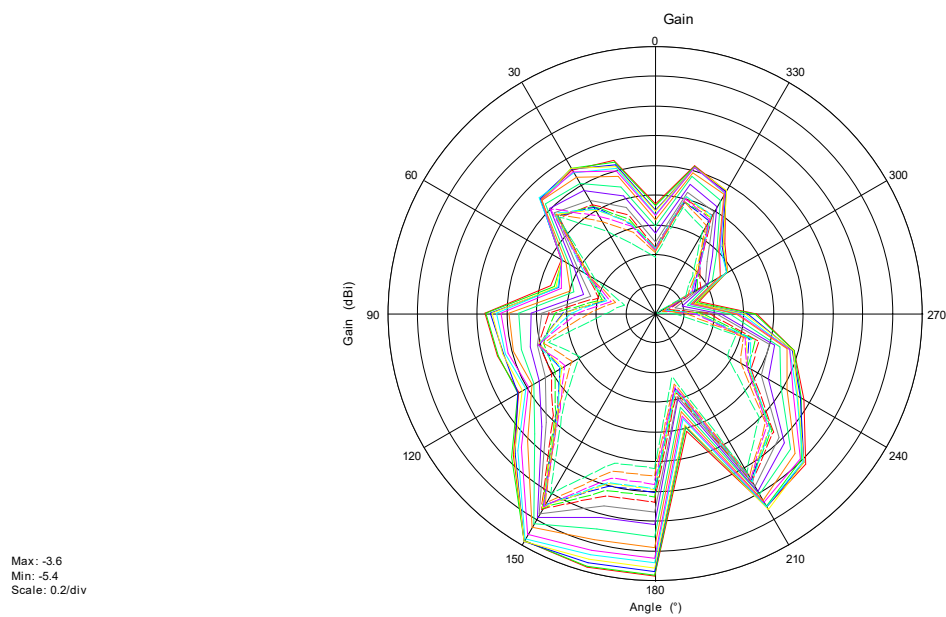


Annex B Figures

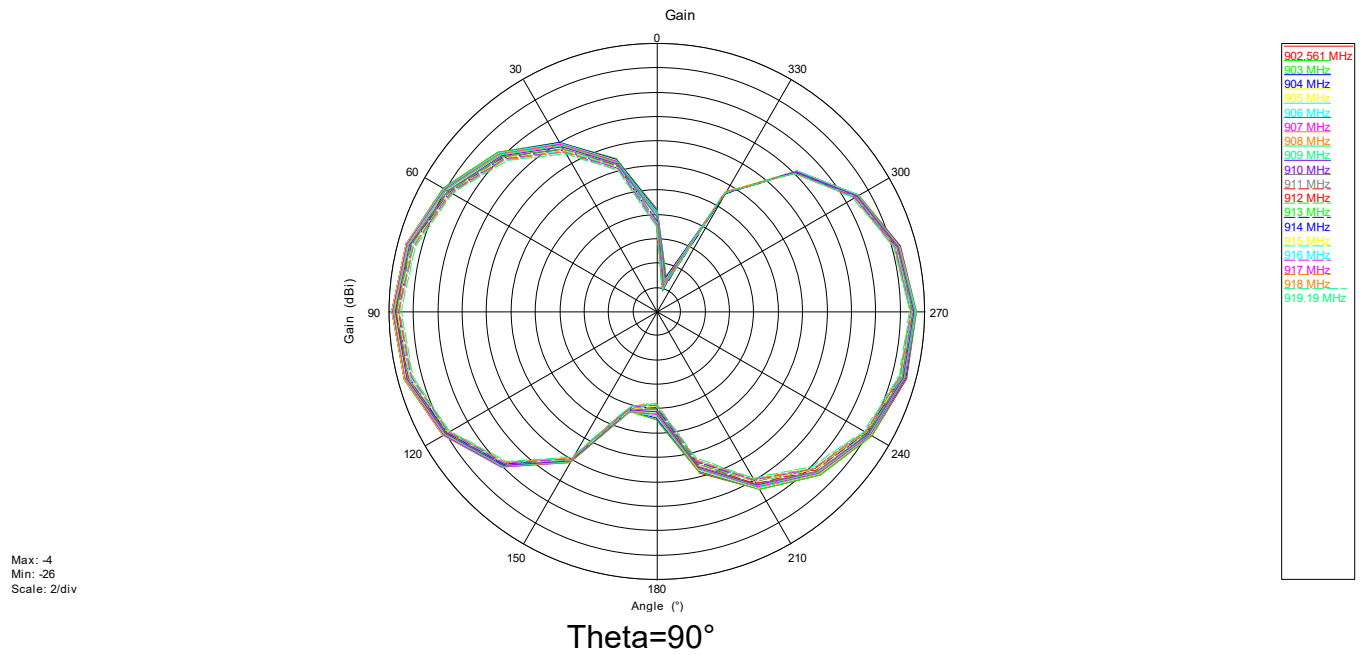
1. 2D Radiation Pattern



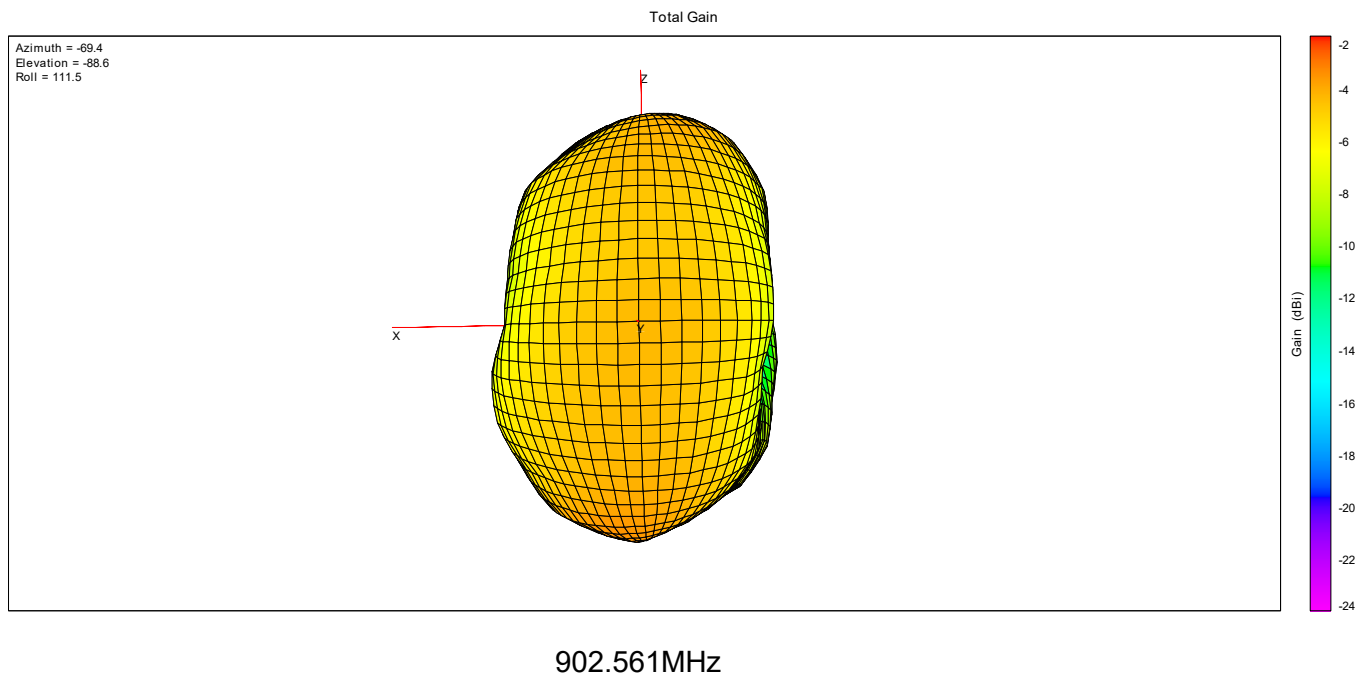
Phi=0°

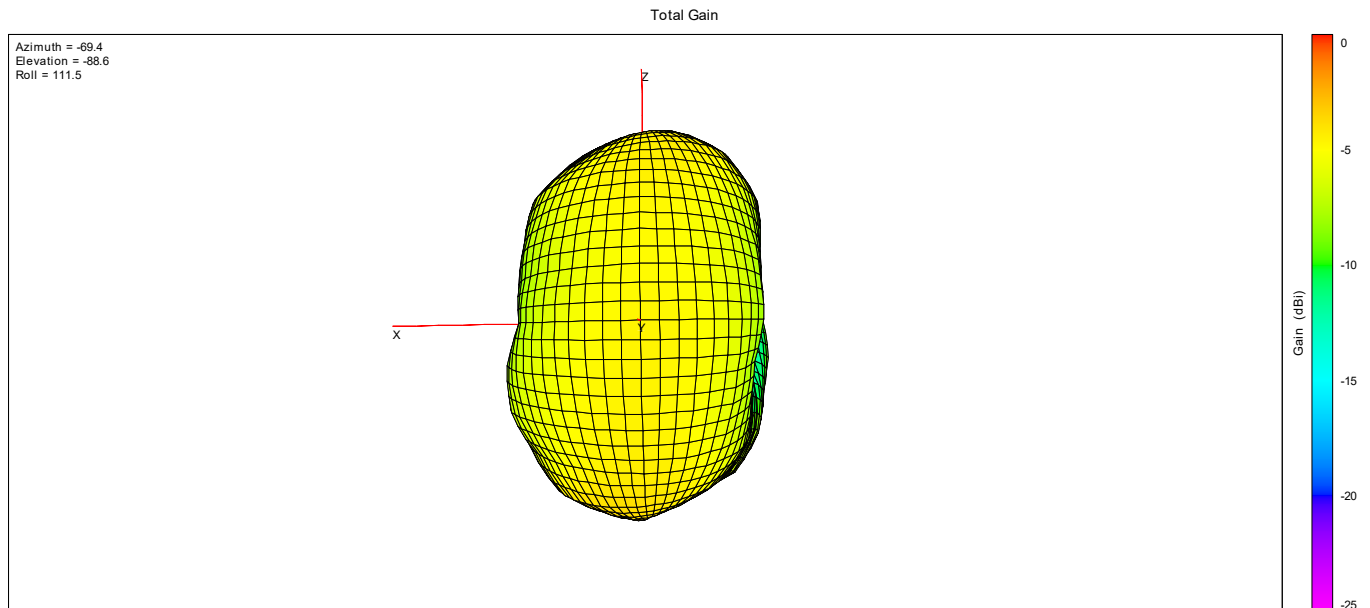


Phi=90°

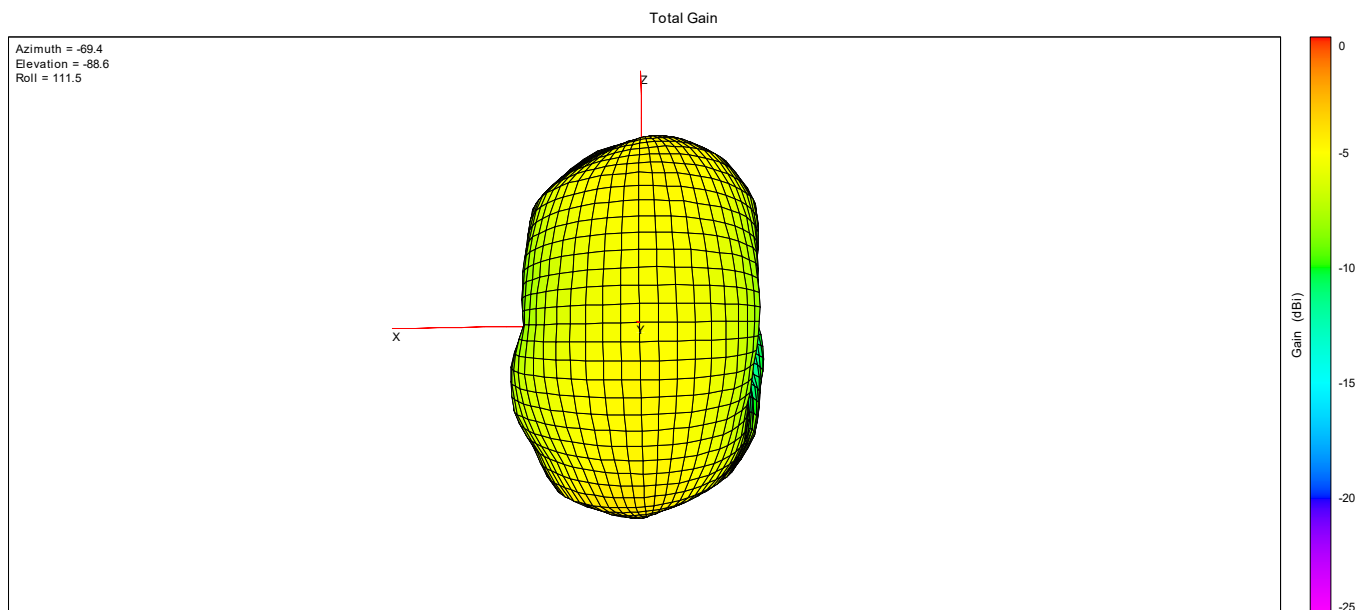


2. 3D Radiation Pattern





910MHz



919.19MHz



Annex C General Information

1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

1.3 Test Equipments Utilized

No.	Equipement Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Network Analyzer	MY46110140	E5071C	Agilent	2024.05.30	2025.05.29
2	OTA Chamber	TJ2235-Q1793	AMS-8923 -150	ETS	2022.11.30	2025.11.29

1.4 Test Software Utilized

No.	Software Name	Serial No.	Version	Manufacturer
1	Antenna Measurement System	1685	EMQuest EMQ-100 V 1.13 Build 21267	ETS

Note:The Main report is end here and the other Annex D will be submitted separately.

————— END OF MIAN REPORT —————