



REPORT No.: SZ24070138E01

TEST REPORT

APPLICANT : AXPPO Technology Inc.

PRODUCT NAME : TMP6113 SKAA ANTENNA

MODEL NAME : TMP6113_SKAA_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	2.4G SKAA
Frequency	2403.5MHz-2477.3MHz
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

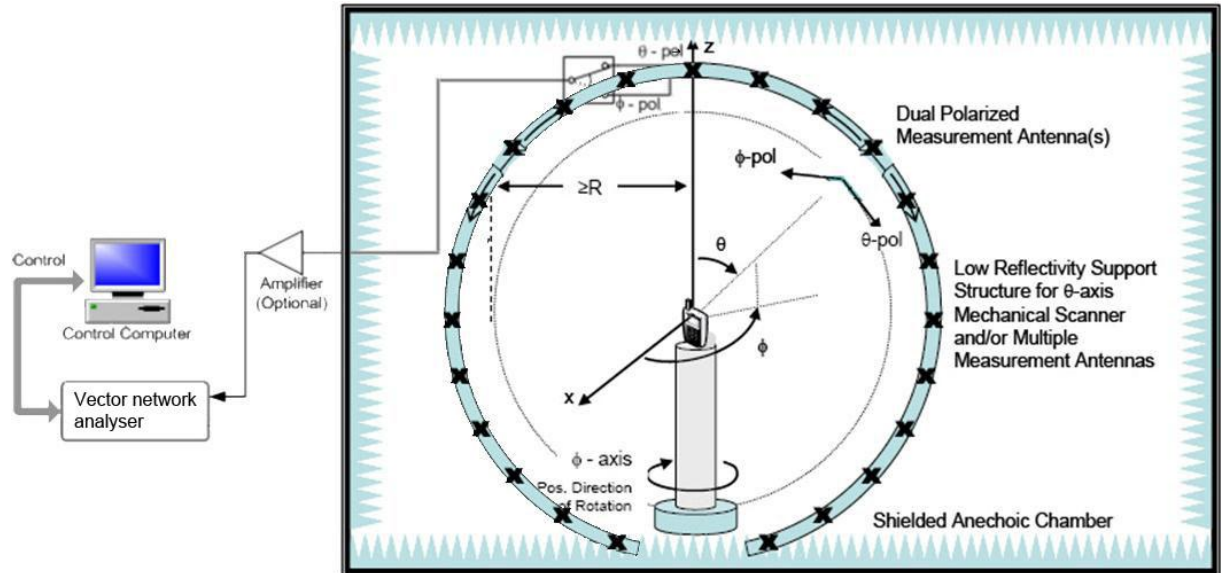
The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in Measurement” (GUM) published by ISO. When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% Confidence intervals.

2.4. Test Results lists

2.4.1. Gain

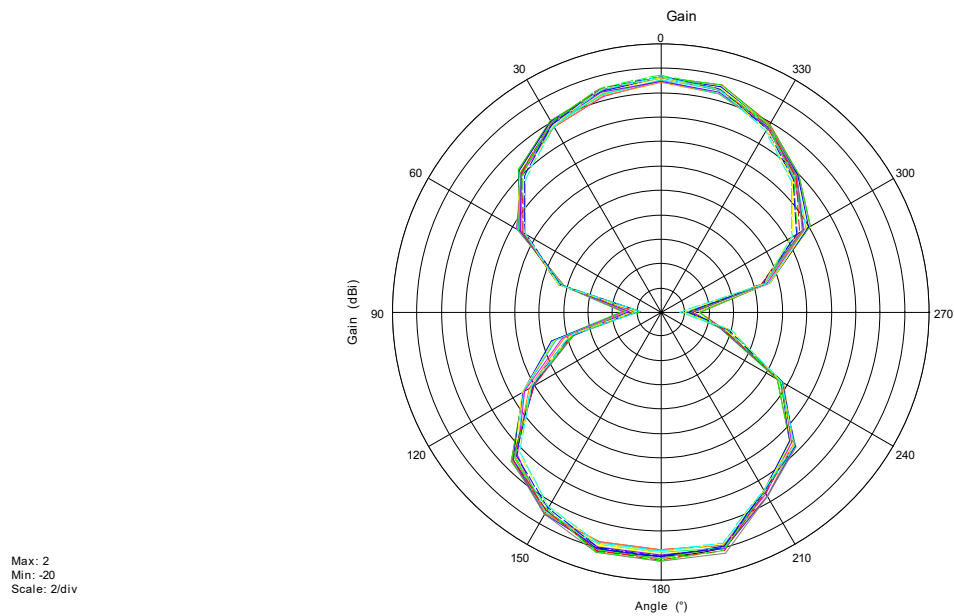
Frequency (MHz)	Gain(dBi)
2403.5	1.09
2404	1.09
2410	1.06
2416	1.18
2422	0.95
2428	0.99
2434	0.93
2440	1.16
2446	1.14
2452	1.39
2458	1.19
2464	1.15
2470	0.94
2476	0.61
2477.3	0.52

Annex A Test Setup Photos

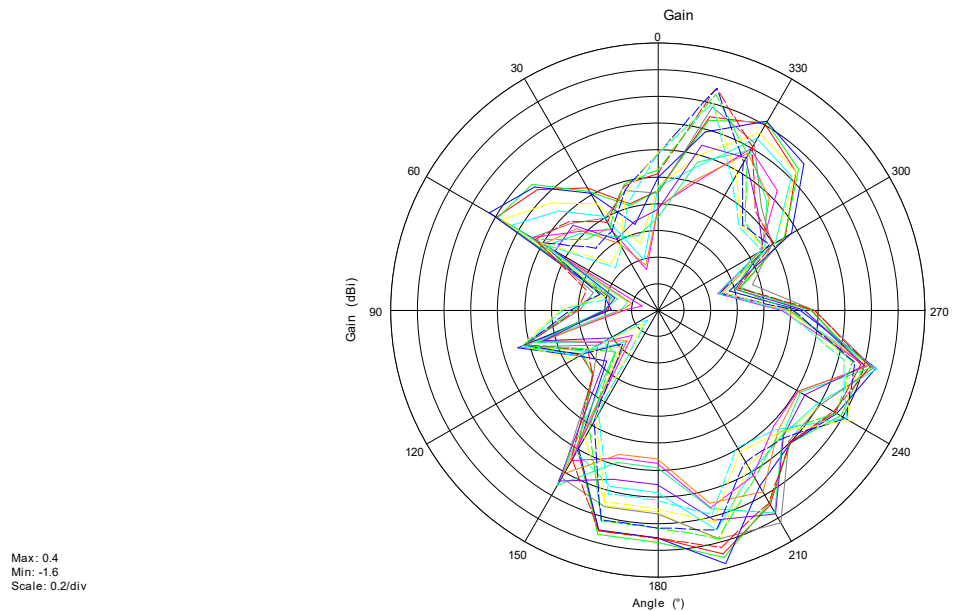


Annex B Figures

1. 2D Radiation Pattern



Phi=0°



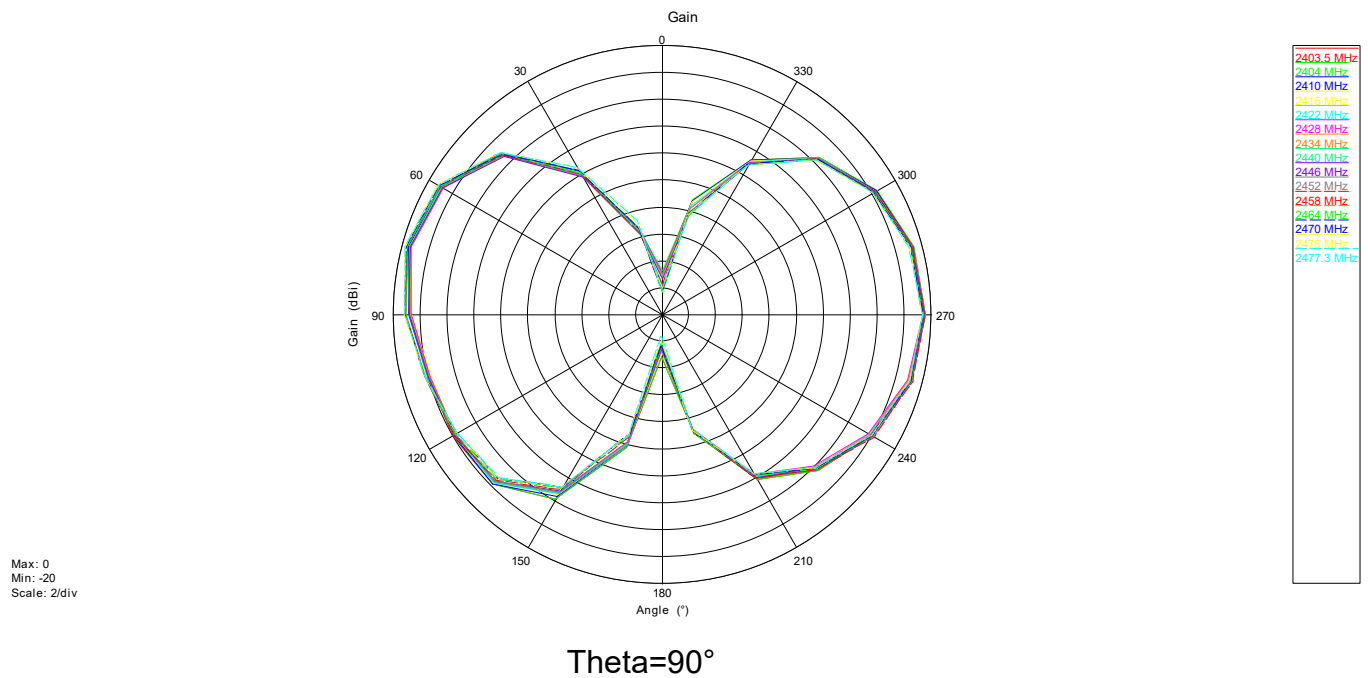
Phi=90°

2403.5 MHz
2404 MHz
2410 MHz
2416 MHz
2422 MHz
2428 MHz
2434 MHz
2440 MHz
2446 MHz
2452 MHz
2458 MHz
2464 MHz
2470 MHz
2476 MHz
2477.3 MHz

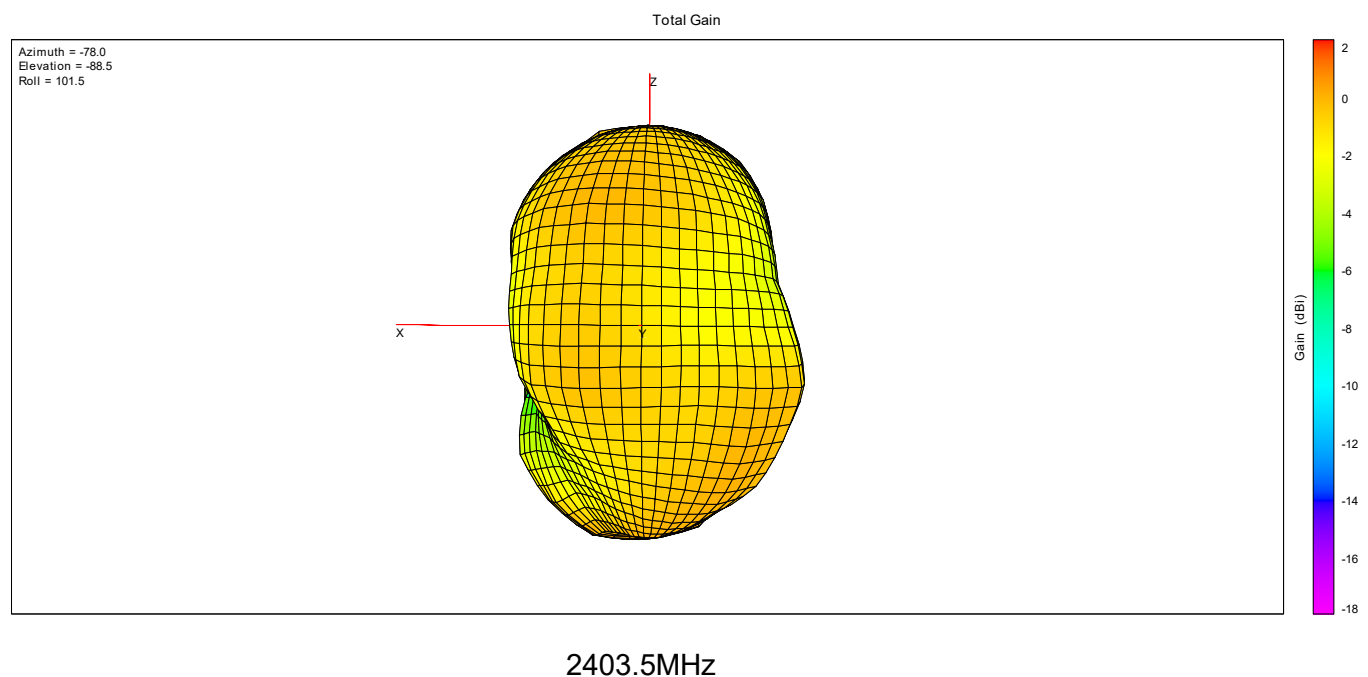
2403.5 MHz
2404 MHz
2410 MHz
2416 MHz
2422 MHz
2428 MHz
2434 MHz
2440 MHz
2446 MHz
2452 MHz
2458 MHz
2464 MHz
2470 MHz
2476 MHz
2477.3 MHz

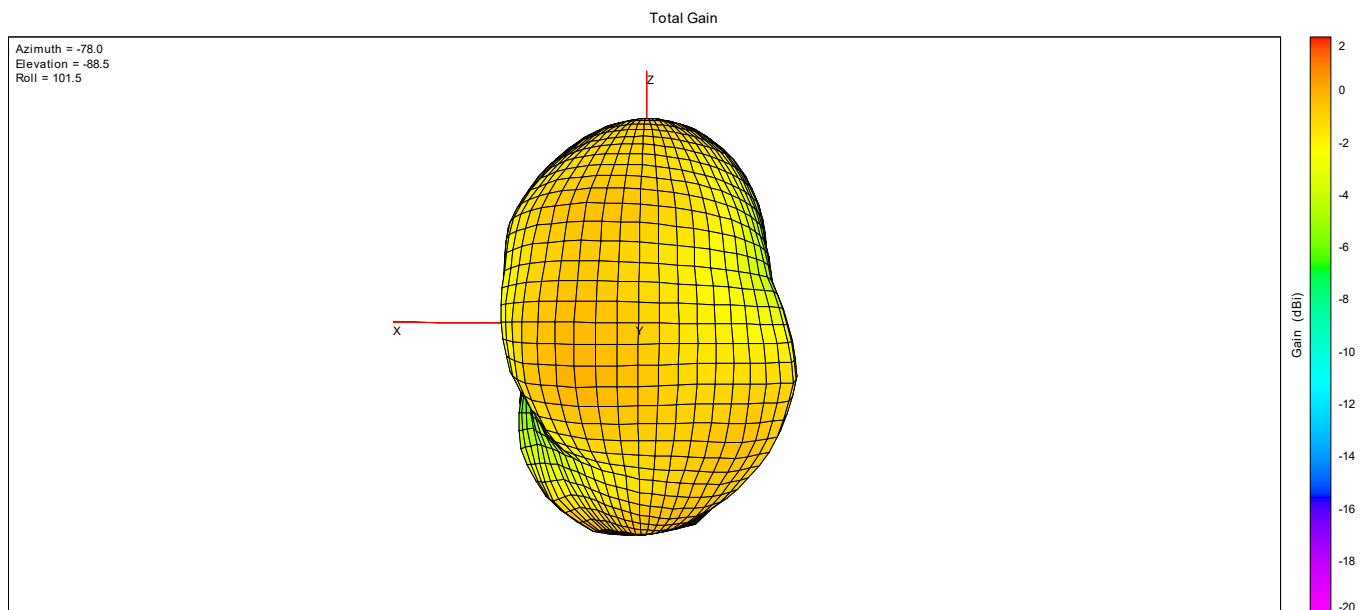
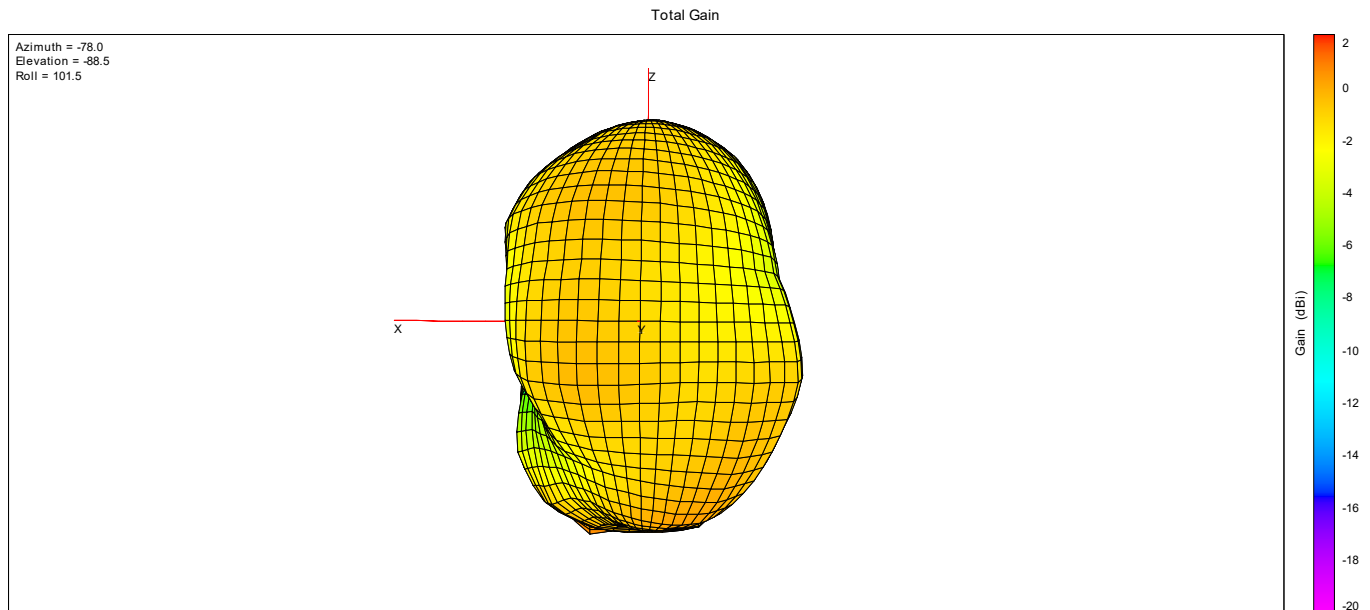


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2. 3D Radiation Pattern







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.

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