



REPORT No.: SZ24090406E01

TEST REPORT

APPLICANT : Precision Enterprise Ltd

PRODUCT NAME : BLE Module

MODEL NAME : JM03T

TRADE NAME : N/A

BRAND NAME : N/A

STANDARD(S) : IEEE Std 149-2021

RECEIPT DATE : 2024-10-09

TEST DATE : 2024-10-09

ISSUE DATE : 2024-10-14



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MORLAB

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Change History		
Version	Date	Reason for change
1.0	2024-10-14	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Precision Enterprise Ltd
Applicant Address:	Unit J, 33/F., COS Centre, 56 Tsun Yip Street, Kwun Tong, Kowloon, Hong Kong
Manufacturer:	DONGGUAN PROTRONIC ELECTRONICS LTD.
Manufacturer Address:	No.1 Gongye Blvd, Shipai Town, Dongguan, Guangdong Province, P.R.China

1.2. Equipment Under Test (EUT) Description

Wireless Type	Bluetooth
Frequency	2400MHz-2500MHz
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.

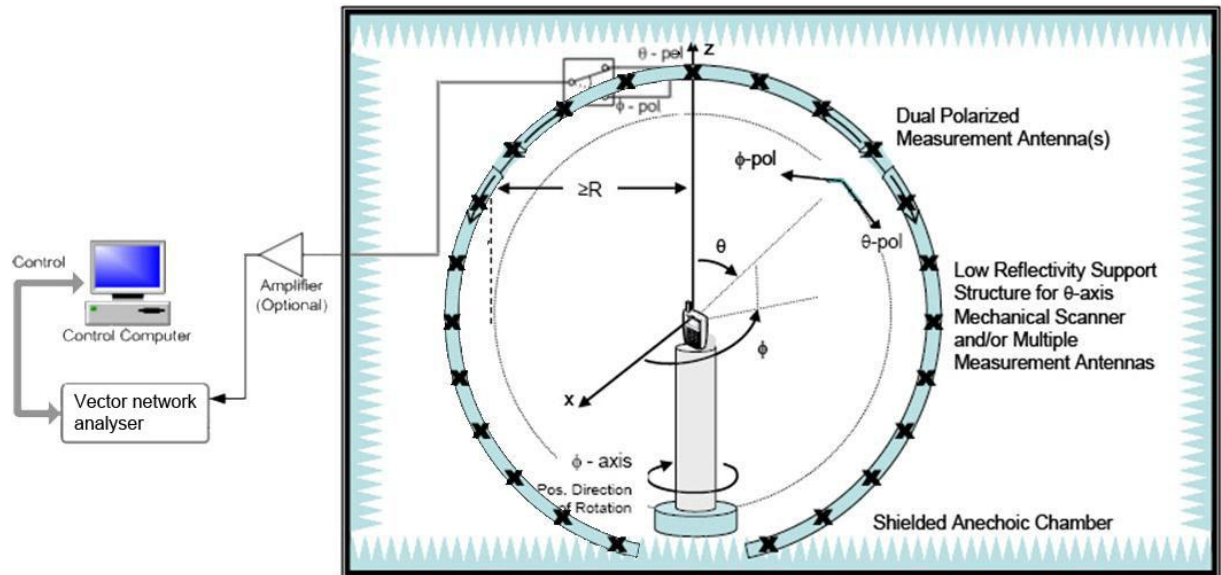


2.4. Test Results lists

2.4.1. Gain

Frequency (MHz)	Gain(dBi)
2400	-7.11
2410	-7.01
2420	-7.61
2430	-7.79
2440	-8.11
2450	-8.17
2460	-7.88
2470	-7.63
2480	-7.64
2490	-8.66
2500	-8.89

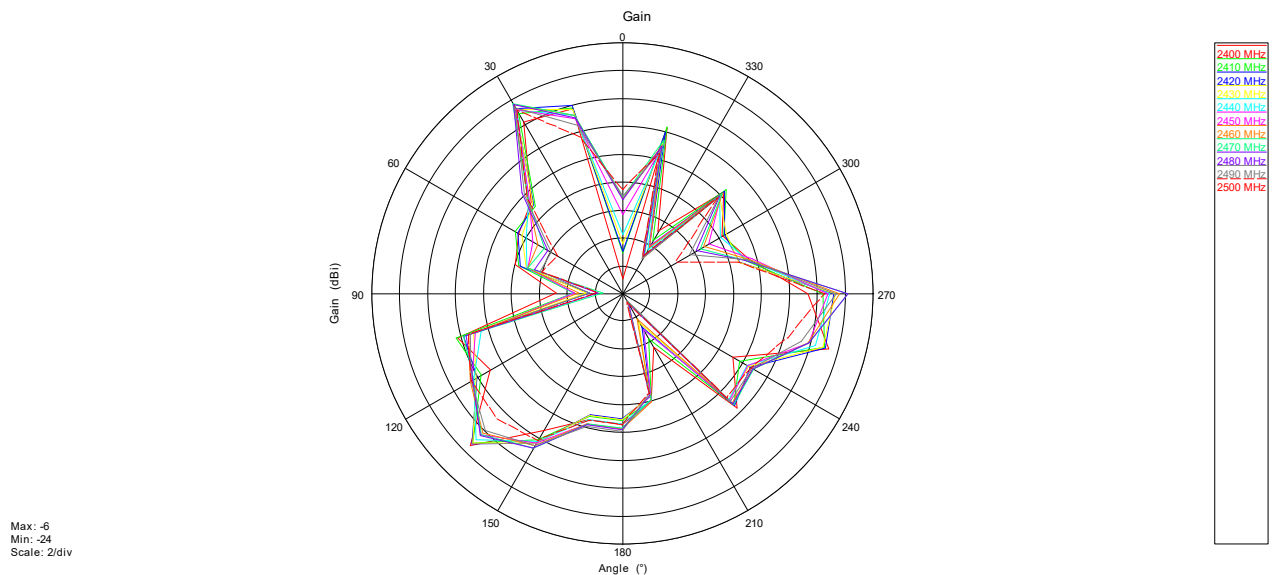
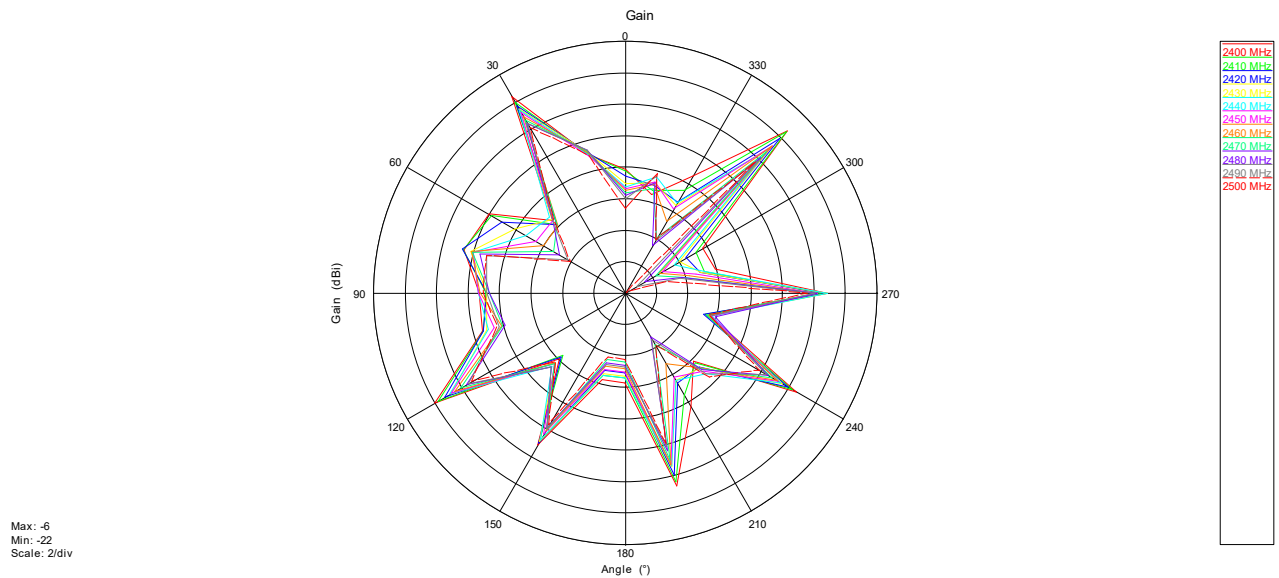
Annex A Test Setup Photos





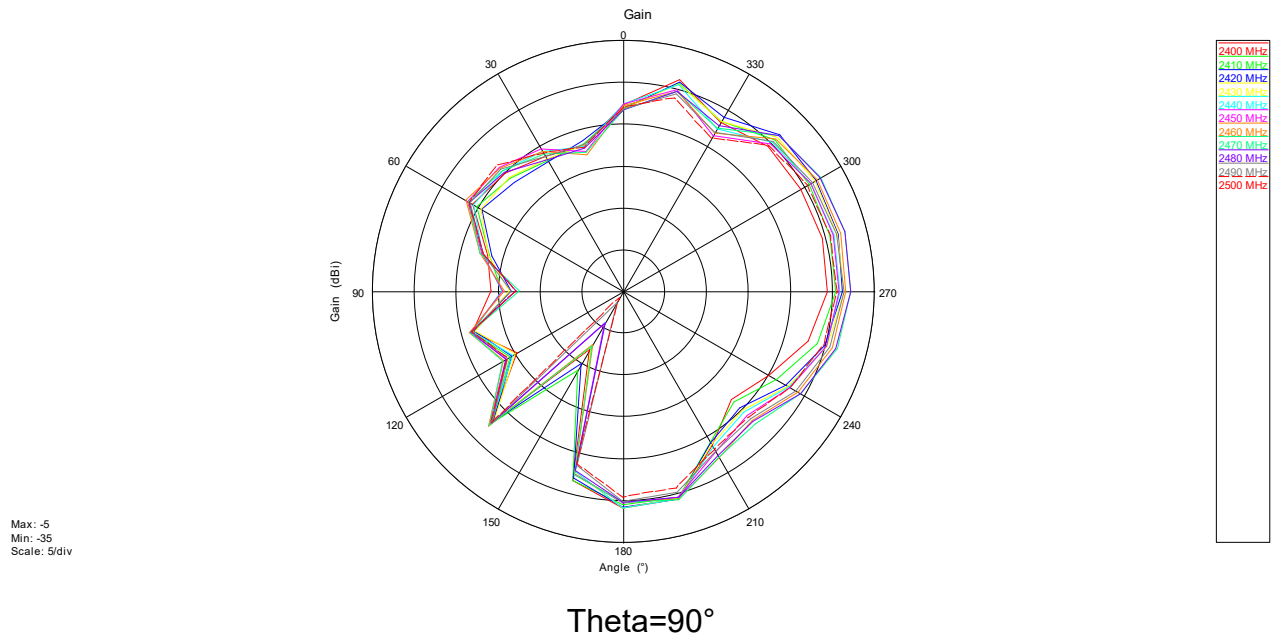
Annex B Figures

1. 2D Radiation Pattern

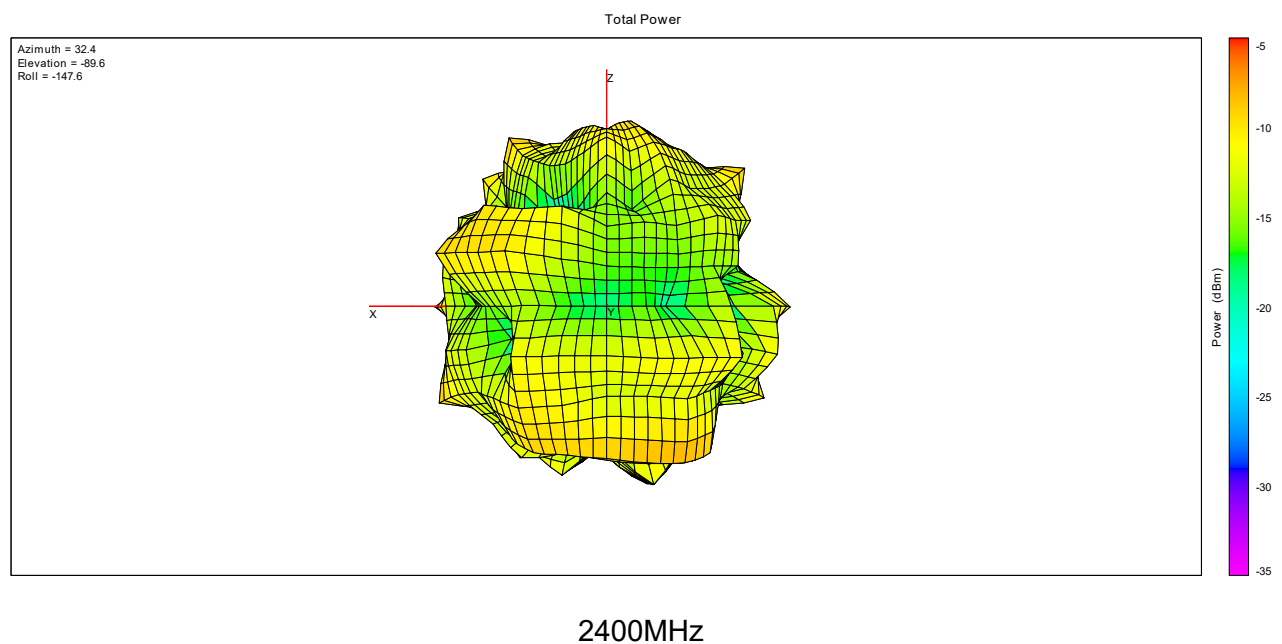


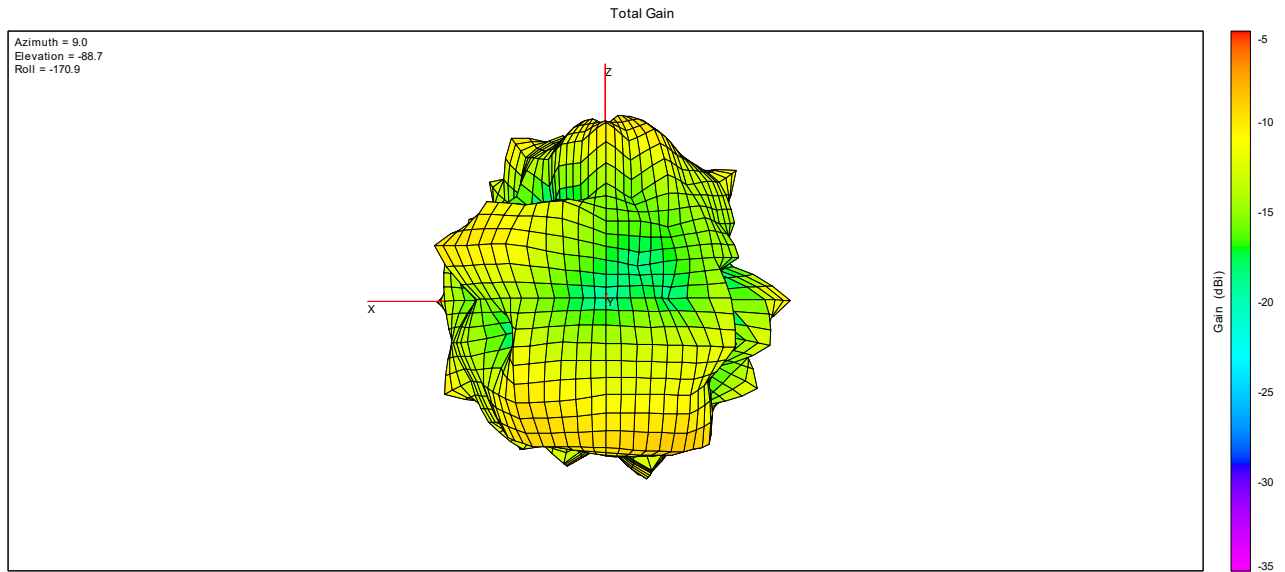


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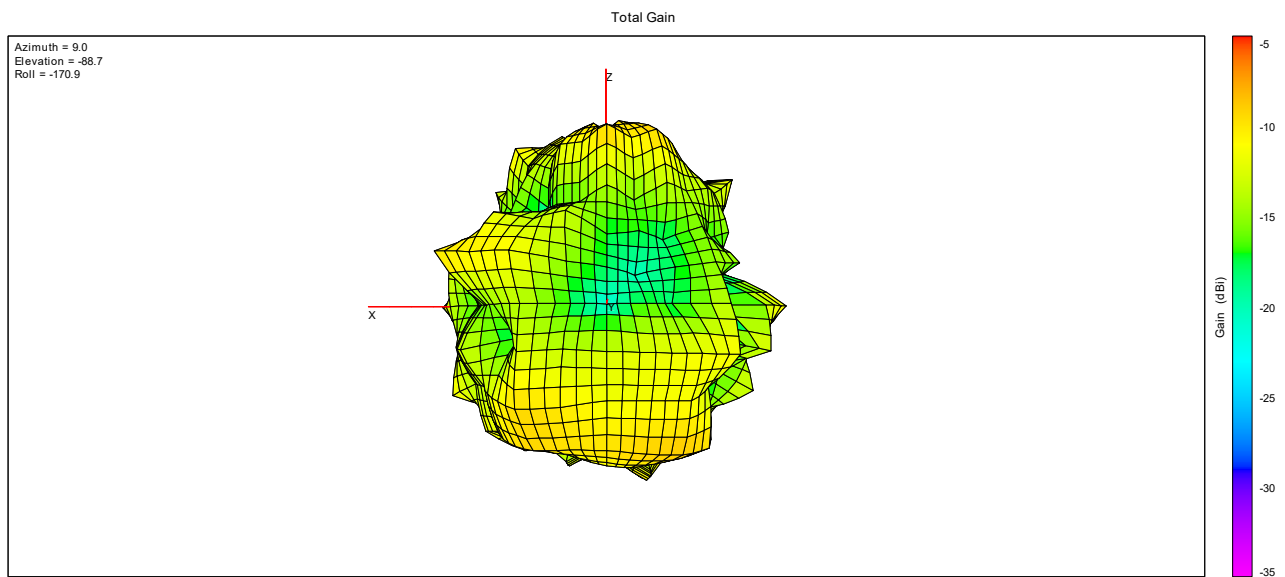


2. 3D Radiation Pattern





2440MHz



2480MHz



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	MY4611014 0	E5071C	Agilent	2024.05.30	2025.05.29
2	OTA Chamber	TJ2235-Q17 93	AMS-89 23-150	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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