

TEST REPORT

Reference No...... : WTX26X03079060W
Applicant : Prevent Biometrics
Address : 4600 W 77th St., Suite 275, Edina, MN, 55435
Manufacturer : Prevent Biometrics
Address : 4600 W 77th St., Suite 275, Edina, MN, 55435
Product Name : Prevent Impact Monitor Mouthguard v2.3 Antenna
Model No...... : 0023-HBPXFERG Antenna
Standards : ANSI/ IEEE 149-2021
Date of Receipt sample : 2026-04-03
Date of Test..... : 2026-04-03 to 2026-04-08
Date of Issue : 2026-04-08
Test Report Form No. : WTX_IEEE 149
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

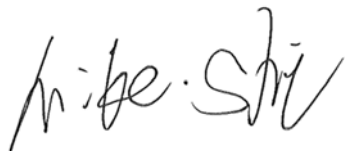
Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,
Block 70 Bao'an District, Shenzhen, Guangdong, China

Tel.: +86-755-33663308 Fax.: +86-755-33663309 Email: sem@waltek.com.cn

Tested by:



Mike Shi

Approved by:



Jason Su

TABLE OF CONTENTS

1. GENERAL INFORMATION.....4
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....4

2. SUMMARY OF TEST RESULTS5

3. ANTENNA TEST CONFIGURATIONS6
3.1 TEST LOCATION6
3.1 TEST ENVIRONMENTS.....6
3.2 TEST EQUIPMENT LIST6
3.3 MEASUREMENT UNCERTAINTY6
3.4 TEST SETUP6

4. ANTENNA TEST RESULT7
4.1 GAIN AND EFFICIENCY7
4.2 RADIATION PATTERN 2D VIEW8
4.3 RADIATION PATTERN 3D VIEW10

EXHIBIT 1 - TEST SETUP PHOTOGRAPHS11

Report version

Version No.	Date of issue	Description
Rev.00	2026-04-08	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Prevent Impact Monitor Mouthguard v2.3 Antenna
Trade Name:	/
Model No.:	0023-HBPXFERG Antenna
Adding Model(s):	/
Note: The test data is gathered from a production sample, provided by the manufacturer.	

Technical Characteristics of EUT	
Frequency Range:	2400-2500MHz
Gain of Antenna:	2.53dBi (Max.)
Type of Antenna:	PCB Antenna
Size:	5.9*9.6mm

Dimension:



2. SUMMARY OF TEST RESULTS

Standards	Description of Test Item	Result
ANSI/ IEEE 149-2021	IEEE Recommended Practice for Antenna Measurements	Compliant

N/A: not applicable

3. Antenna Test Configurations

3.1 Test 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

3.1 Test Environments

Environments Parameter	Temperature	Voltage	Humidit
NTNV	25° C	--	50%

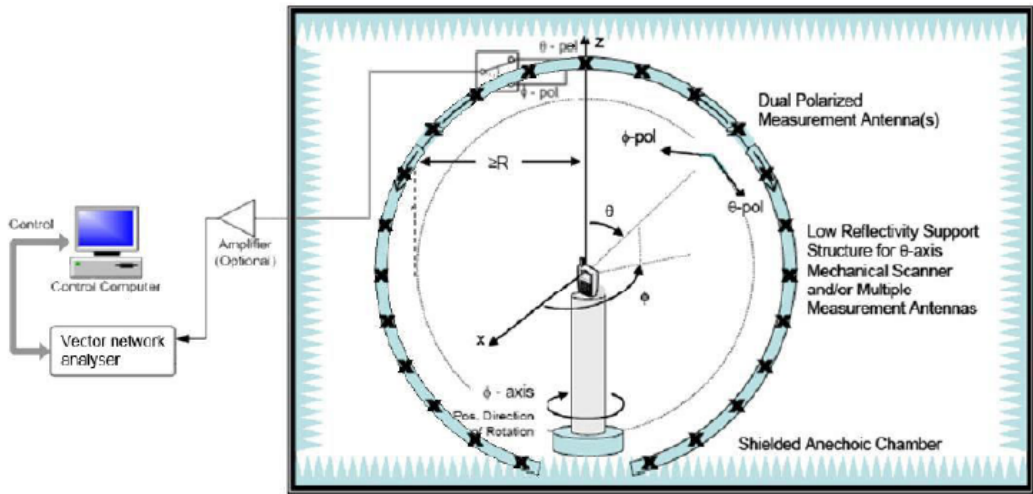
3.2 Test Equipment List

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Anechoic Chamber	ETS	AMS8923	Q2225	2023-06-09	2028-06-08
RF Switch	ETS	EMCenter	251211	/	/
Vector network analyzer	R&S	ZNB8	101413	2025-07-15	2026-07-14

3.3 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.

3.4 Test Setup

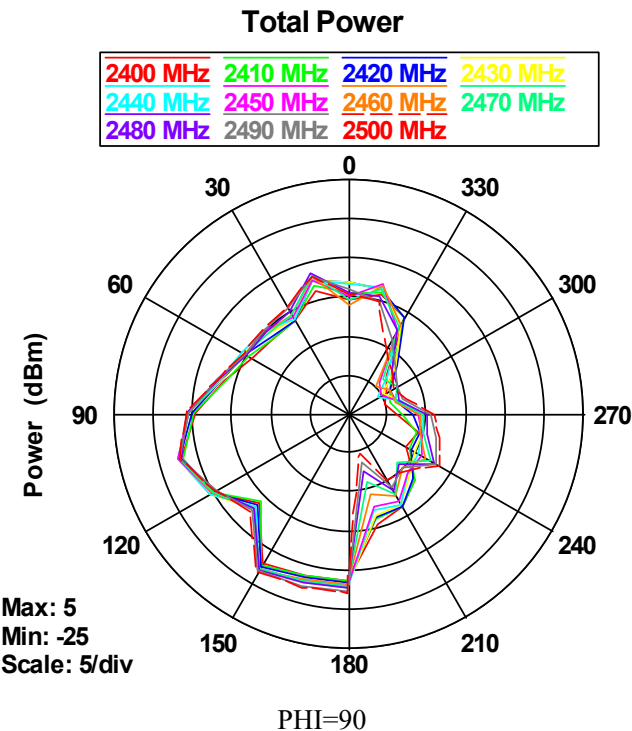
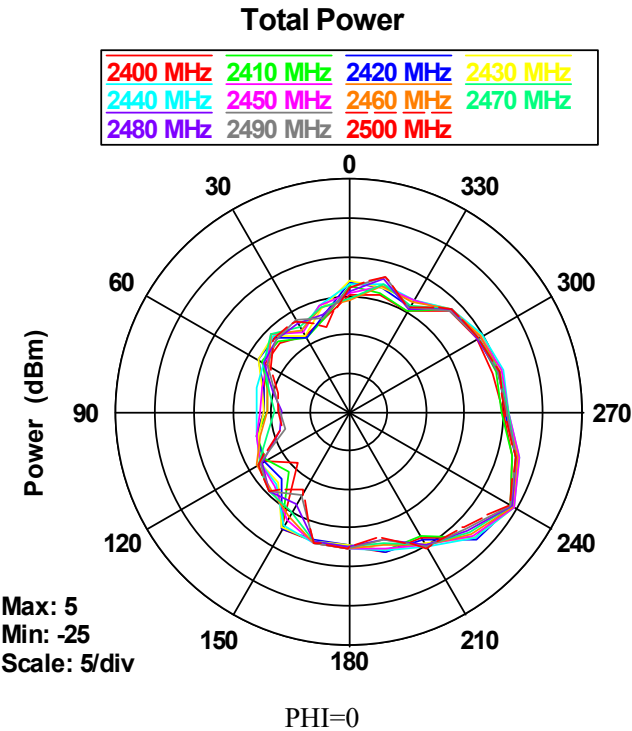


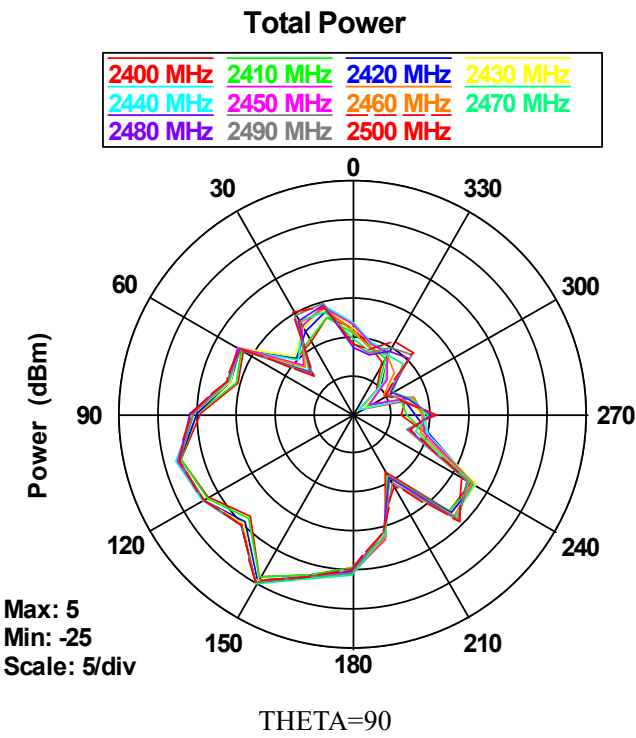
4. Antenna Test Result

4.1 Gain and Efficiency

Fre(MHz)	Eff(dB)	Eff(%)	Gain(dBi)
2400	-7.29	18.67	1.51
2410	-7.18	19.14	1.64
2420	-6.81	20.85	2.06
2430	-6.58	21.98	2.36
2440	-6.46	22.57	2.53
2450	-6.57	22.02	2.39
2460	-6.64	21.67	2.28
2470	-6.66	21.60	2.31
2480	-6.72	21.27	2.27
2490	-6.72	21.27	2.33
2500	-6.67	21.53	2.40

4.2 Radiation Pattern 2D View

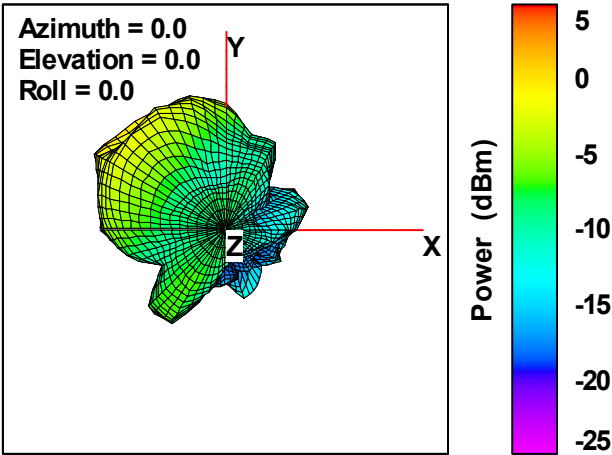




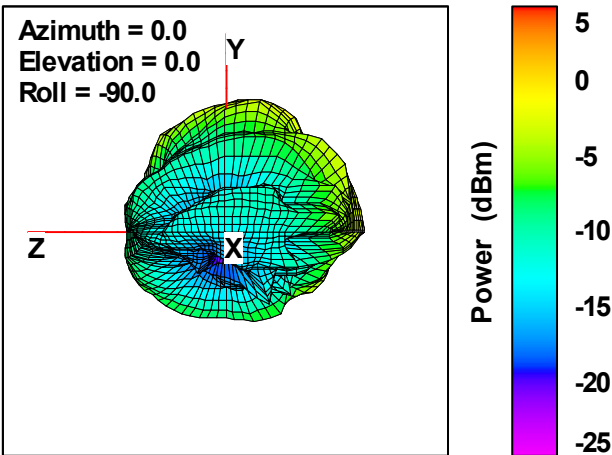
4.3 Radiation Pattern 3D View

2440MHz

Total Power



Total Power



Total Power

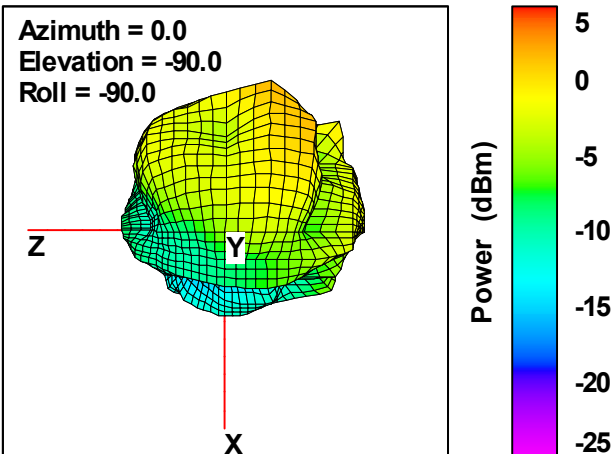
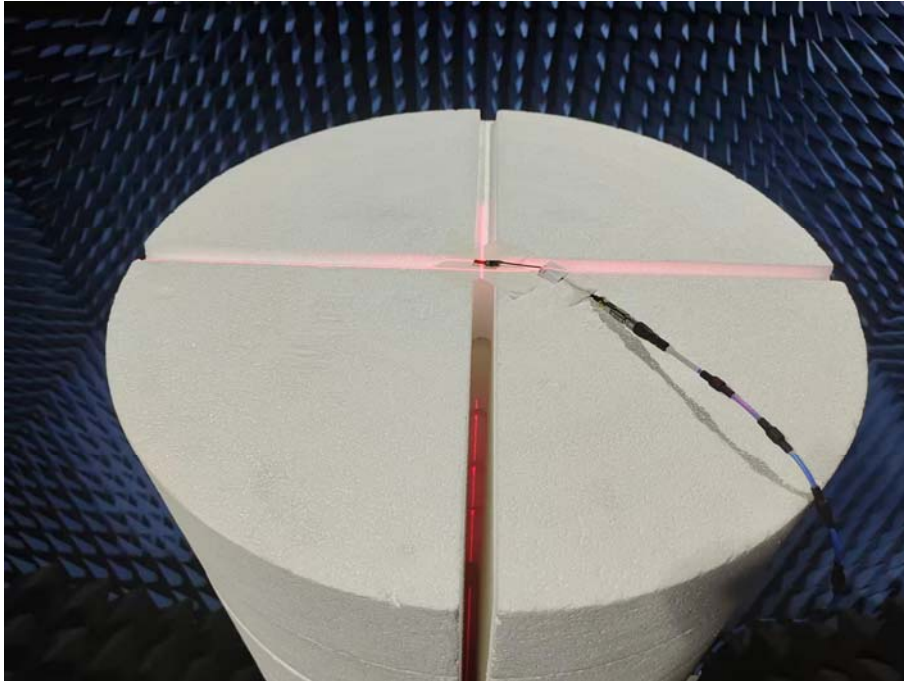


EXHIBIT 1 - TEST SETUP PHOTOGRAPHS

OTA Test View 1:



***** END OF REPORT *****