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ANTENNA PASSIVE TEST REPORT

Application No. SUOA2502000025AT **Applicant** Backbone Labs, Inc.

Manufacturer The Antenna Company International N.V.

Type Name N/A

Model No. AC10267-01A

Standards ANSI/IEEE Std 149-2021

Date Initial Sample(s) Received 2025-02-25 **Testing Start Date** 2025-02-26 **Testing Finish Date** 2025-02-26 **Report Issue Date** 2025-03-07

*In the configuration tested, the EUT complied with the standards specified above.

Leno shi

Prepared by: Leno Shi/ Project

Manager

Caleb. Gao

Approved by: Caleb Gao/ **Technical Manager (Title)**

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Revision History

Revision	Issue Date	Description
01	2025-03-07	The Final Version of Report

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1 General Information

1.1 Testing Laboratory

Identification of the Responsible Test Laboratory

-	
Test Lab	SGS-CSTC Standards Technical Service (Suzhou) Co., Ltd.
Address	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Contact	Caleb Gao
Tel.	+86 13621559335
Fax	N/A
E-mail	Caleb.Gao@sgs.com

1.2 Details of Applicant

Applicant's Name	Backbone Labs, Inc.		
Applicant's Address	1815 NW 169th Place, Suite 4020, Beaverton, OR 97006, USA		
Contact	Sydney Newton		
Tel.	+86 15034003165		
Fax	N/A		
E-mail	sydney@playbackbone.com		

1.3 Details of Manufacturer

Manufacturer's Name	The Antenna Company International N.V.
	High Tech Campus Building HTC-29 5656 AE, Eindhoven The Netherlands
Contact	N/A
Tel.	N/A
Fax	N/A
E-mail	N/A

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1.4 Description of EUT(s)

Device Description:	Antenna	
Device type:	N/A	
Device Manufacturer:	The Antenna Company International N.V.	
Device Model:	AC10267-01A	
Hardware Version:	0.4.0	
Software Version:	0.9.3	
IMEI:	N/A	
Air Interface Supported	N/A	
Air Interface Tested Device Power Class:	N/A	
Antenna Dimension:	32mm (L) x 6mm (W) x 0.2mm (H)	
Antenna type:	FPC Antenna	
Configuration of Primary Mechanical Mode:	N/A	

1.5 Test Procedure

Testing is performed according to ANSI/IEEE Std 149-2021.

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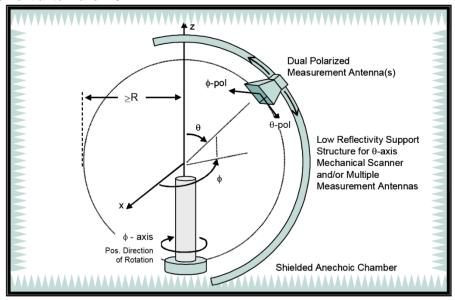
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Measurement System Information

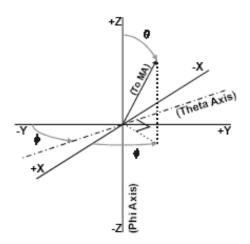
2.1 **Test Configuration**

Conical-Cut method is used to measure the antenna 3D GAIN of EUT in OTA qualified anechoic chamber. Equipment Under Test (EUT) geometry centre vertical projection at the centre of platform, the distance from EUT to measurement antenna is 1.5m



2.2 Test Measurement

Spherical coordinate system



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Equipment List

Inventory No.	Equipment	Manufacturer	Model No.	Calibration Date	Calibration Due Date
SUWI-01-06-01	Network Analyzer	R&S	ZNB8 S/N 103535	2025-01-16	2026-01-15
SUWI-02-06-01	Switch Control System	R&S	OSP 130 S/N 100358	N/A	N/A
SUWI-02-07-01	Test Software	ETS-Lindgren L.P	EMQuest™ REV 1.14 Build 31654	N/A	N/A
SUWI-04-04-01	Full Anechoic Wireless Test chamber	ETS-Lindgren L.P	ETS-Lindgren AMS- 8923 CT000596-1149	2024-05-08	2027-05-07

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4 Measurement Uncertainty

Item	617- 698MHz (dB)	699- 798MHz (dB)	814- 894MHz (dB)	1695- 1780MHz (dB)	1850- 2020MHz (dB)	2300- 2800MHz (dB)	3300- 3800MHz (dB)	5150- 5925MHz (dB)
Gain	0.75	0.9	0.74	0.84	0.83	0.9	0.84	0.86
Efficiency	0.75	0.9	0.74	0.84	0.83	0.9	0.84	0.86

Measurement Uncertainty (95% CONFIDENCE INTERVAL) K=2

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5 Test Result(s)

Frequency(MHz)	Gain(dBi)	Efficiency(%)
2400	1.10	24.63
2410	0.87	22.15
2420	0.73	21.12
2430	-0.13	17.80
2440	-1.31	15.51
2450	-2.01	14.89
2460	-2.99	13.38
2470	-3.09	12.54
2480	-2.83	12.82
2490	-2.45	13.96
2500	-2.41	13.73

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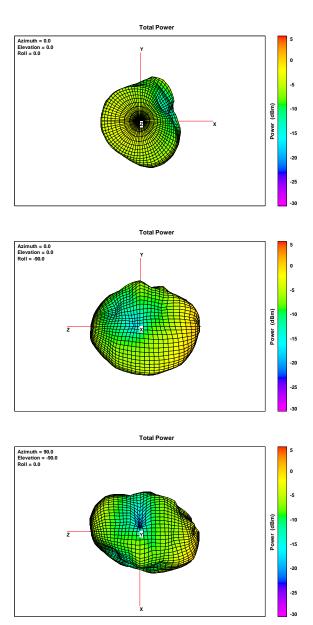
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Antenna Pattern

2400MHz / 3D Pattern



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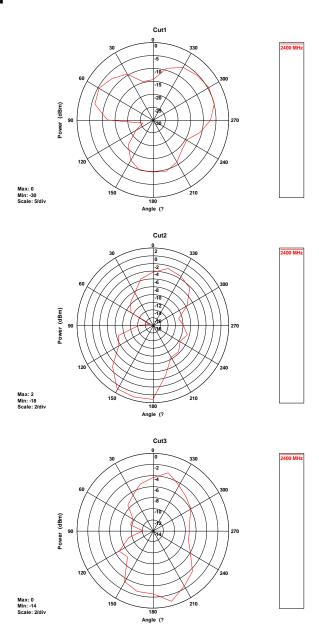


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2400MHz / 2D Pattern



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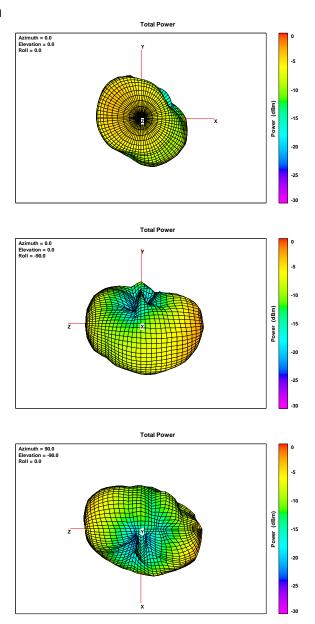


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2450MHz / 3D Pattern



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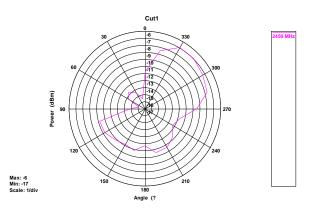


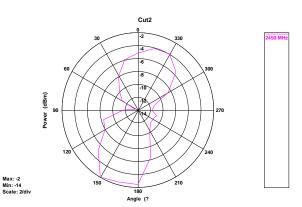
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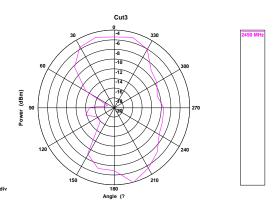
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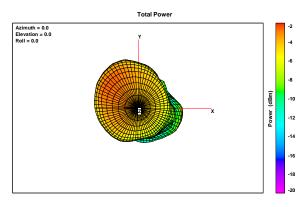


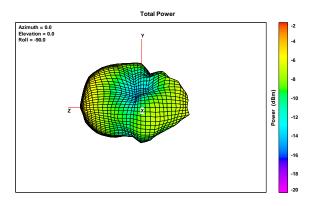
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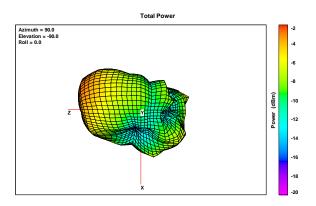
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2500MHz / 3D Pattern







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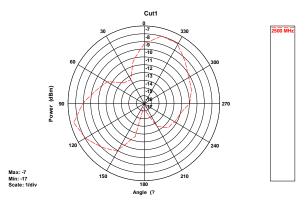


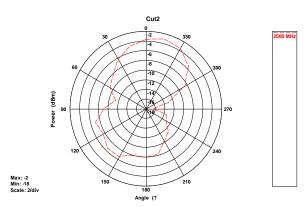
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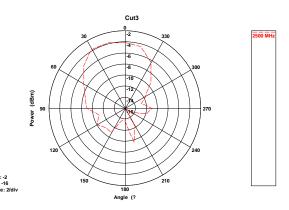
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2500MHz / 2D Pattern







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EUT and Test Configuration



EUT antenna location



EUT

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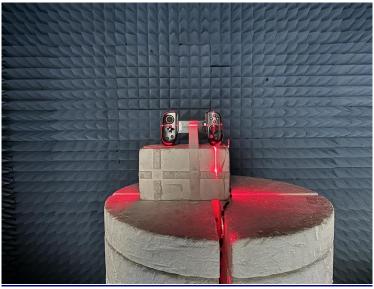
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View of Free Space Configuration

---End of Report---

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