



Authorized
Test Lab
Lab Code: 20020328- 00



CETECOM Inc.

Antenna Gain

Spherical Pattern Measurement

PHILIPS ORAL HEALTHCARE LLC

HX742A

Antenna REPORT

Date of Report : 2026-04-07

Date of issue: 2026-04-07

The test results of this test report relate exclusively to the test item specified in Identification of the Equipment under Investigation.

The CETECOM Inc. USA does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM Inc USA.

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1 Revision History

Rev #	Date	Changes Made
-	2026-04-07	Initial Release

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Technical responsibility for area of testing:

04/07/2026	OTA	Kevin Asuncion (OTA Lab Manager)	
Date	Section	Name	Signature

This report is reviewed by:

04/07/2026	OTA	Ed Ortiz (Director of OTA)	
Date	Section	Name	Signature

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2 Summation Test Report – Gain measurements

Frequency (MHz):	2450
Gain (dBi):	-2.62
Efficiency (dB):	-7.26
Efficiency (%):	18.81

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3 Measurement Uncertainty OTA 4 Chamber

a. TRP uncertainty standard

Free Space	LTE/WLAN 2300-2800 MHz
Standard Uncertainty, u	0.55
Expanded Uncertainty, U, with 95% Confidence Interval	1.11

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4 Test Equipment List

TYPE OF EQUIPMENT	MODEL NUMBER	MANUFACTURER	SN	CALIBRATION DUE DATE
Rectangular Anechoic Chamber	4800	The Howland Company	N/A	N/A
Quad-Ridge Horn Antenna 700MHz-6GHz	QR-1	The Howland Company	1036	N/A
Circularly Polarized Communication Antenna	FPA3-0.8-6.0R/1329	Rohde & Schwarz	408994-0002	N/A
Antenna Position Controller	Motion Control Unit	The Howland Company	0157	N/A
Dual Axis Positioner	None	The Howland Company	N/A	N/A
Low loss RF Cables	N/A	Huber & Suhner	N/A	N/R
Desktop Computer	Workstation	Dell Computer	N/A	N/A
Pattern Measurement Software	AMS32	Rohde & Schwarz	901-0A101161	N/A
Vector Network Analyzer	ZNB8	Rohde & Schwarz	101659	09/30/2027

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5 Setup Photos

a. Test Chamber



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b. EUT



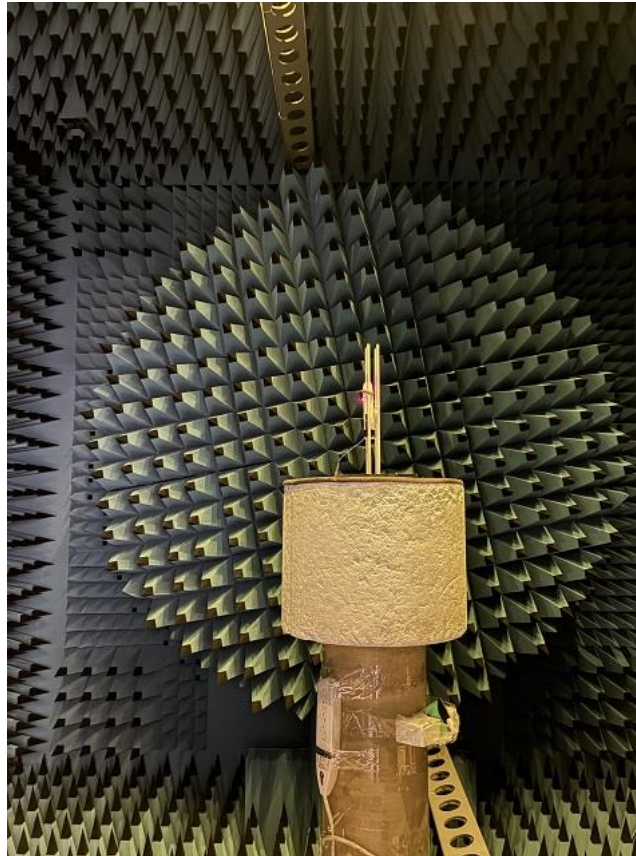
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c. EUT in the test chamber



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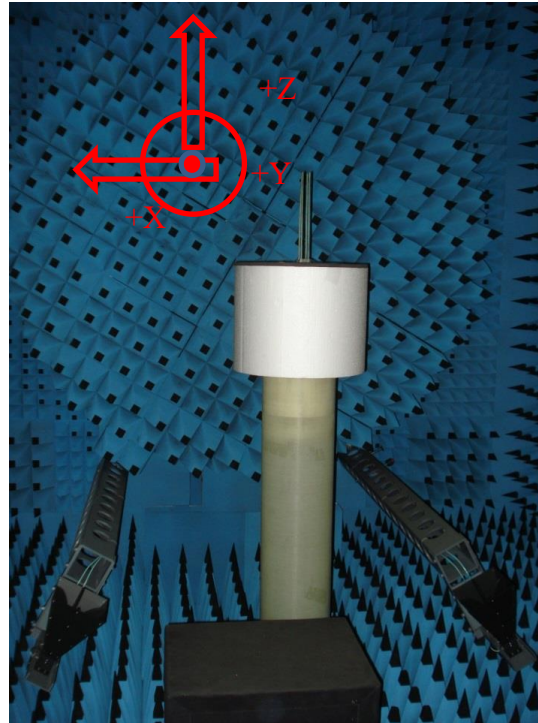
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6 Appendix A. (3D Plots)

a. EUT Reference Setup



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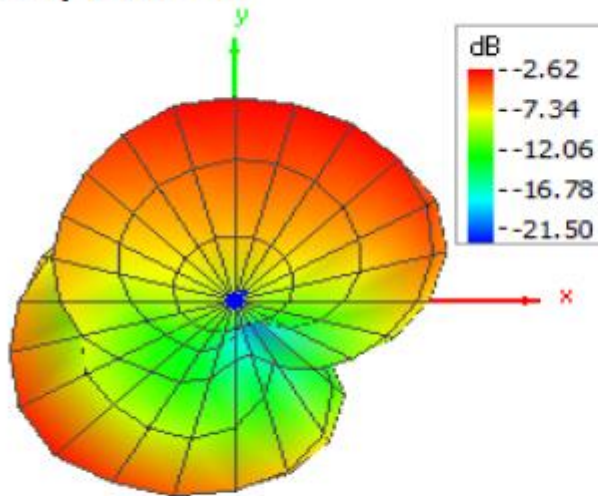
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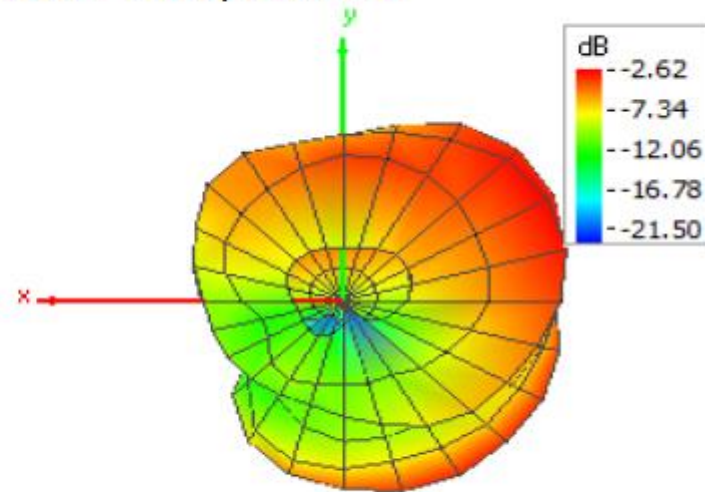
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b. Antenna pattern 2450 MHz

Theta = 0, Phi = 0



Theta = 180, Phi = 0



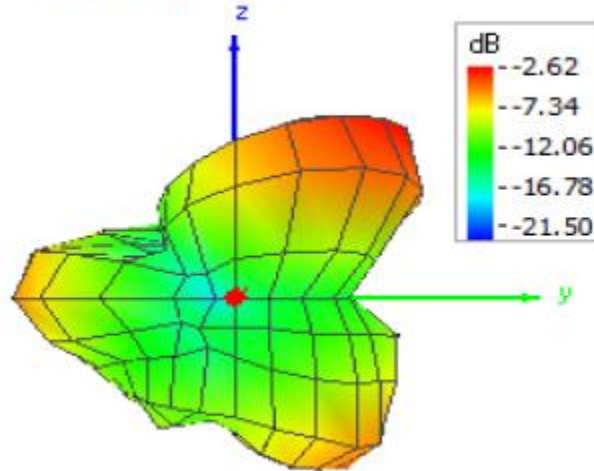
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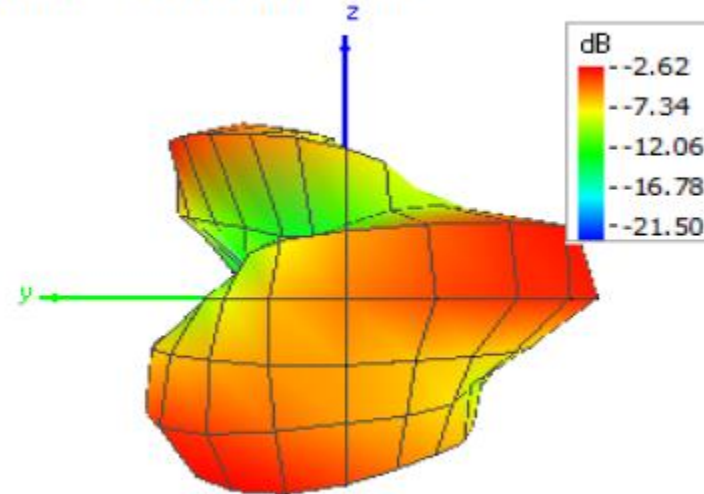
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Theta = 90, Phi = 0



Theta = 90, Phi = 180



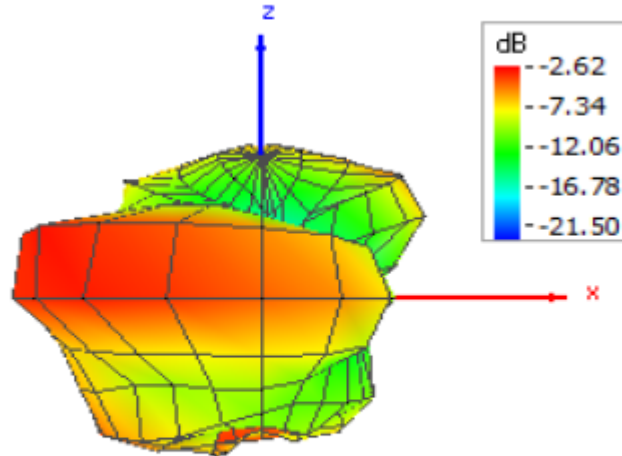
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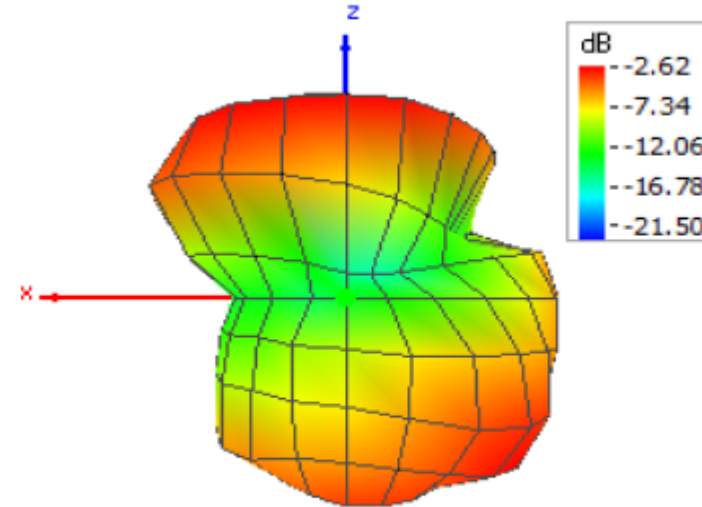
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Theta = 90, Phi = 270



Theta = 90, Phi = 90



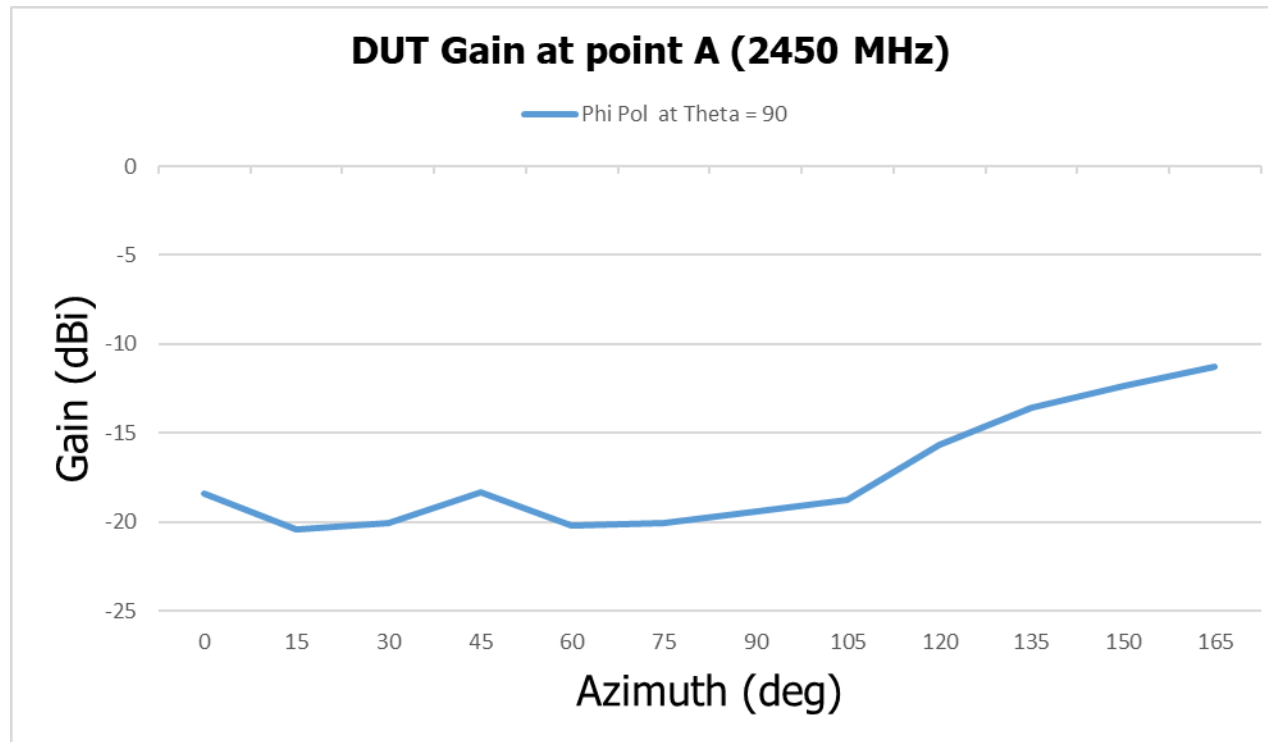
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c. Gain charts 2450 MHz

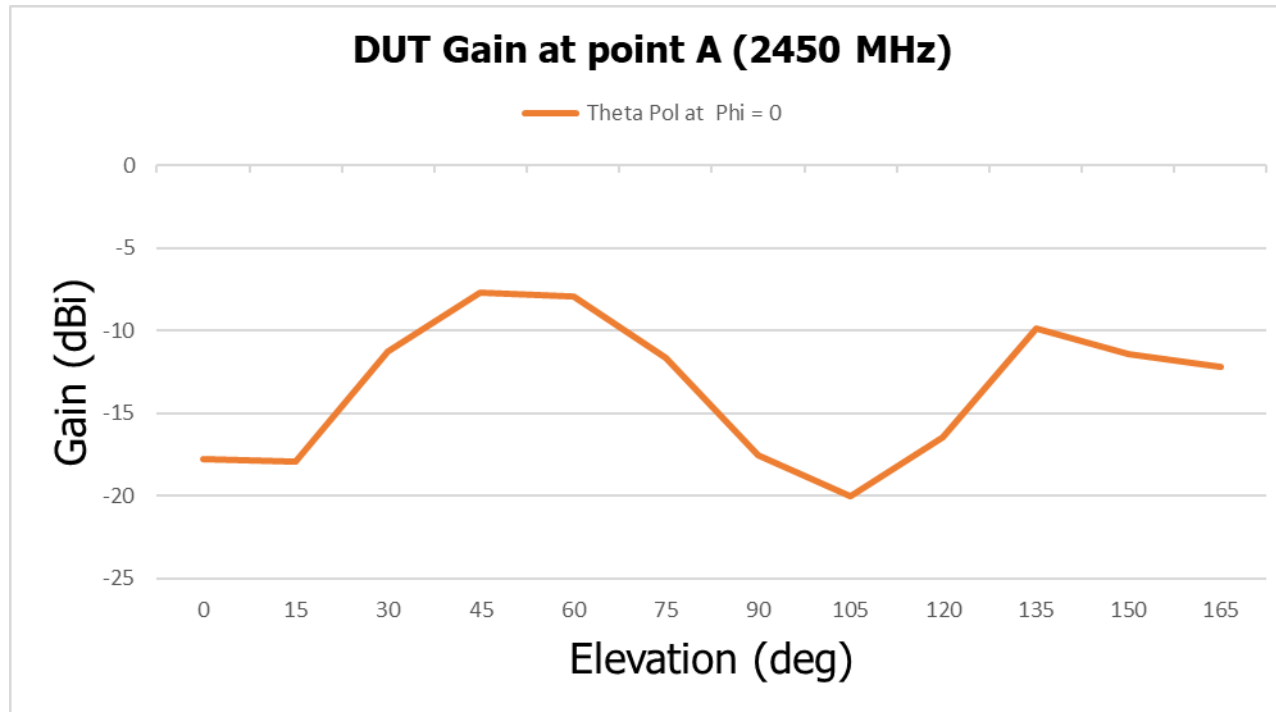


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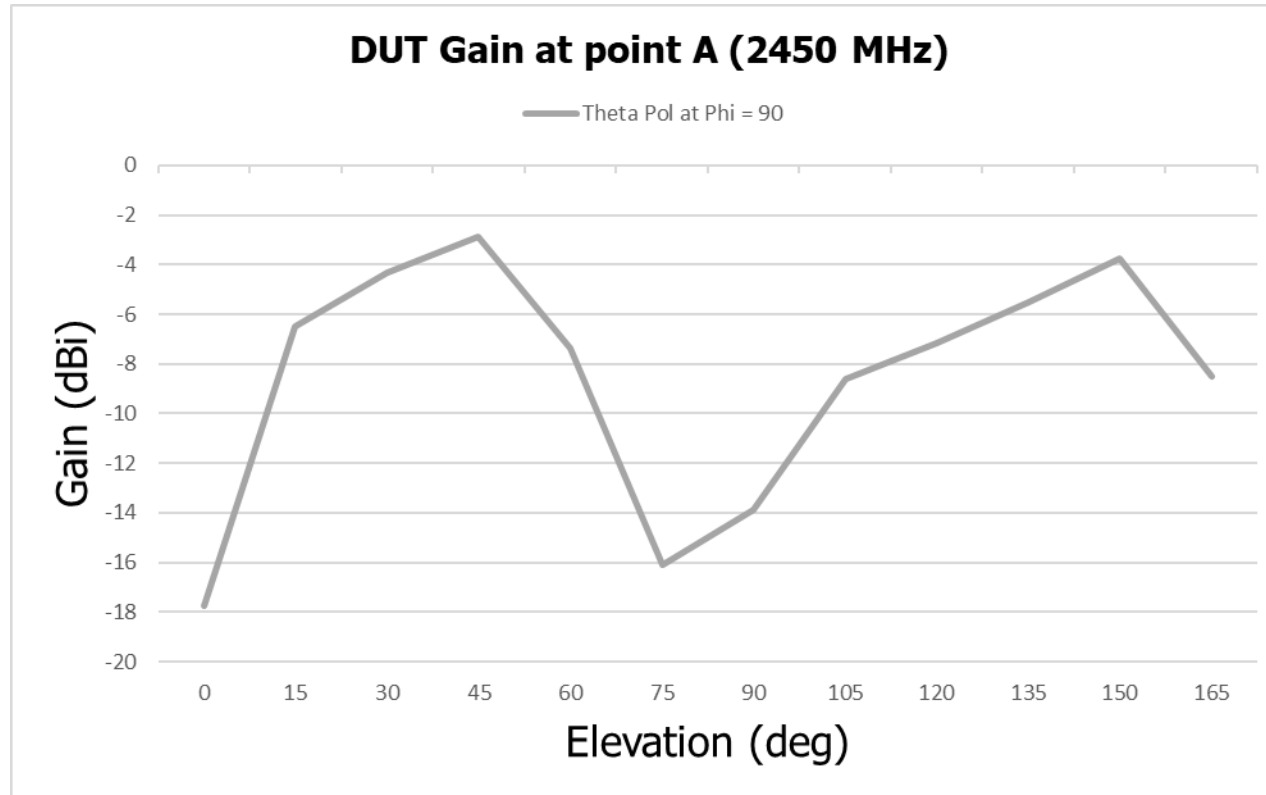


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