WLAN ANTENNA INFORMATION

ODM	**Antenna Manufacturer**	**Gentex Corporation**
	Address	600 N. Centennial, Zeeland, MI 49464 USA
	FCC Model	NZLIECHL6A
	Antenna Type	Monopole, Inverted F

ODM	**Test Personnel**	**Denise Shaw**
	Test Date	10/22/2025
	Test Location	600 N. Centennial, Zeeland, MI 49464 USA
	Performance Specifications	

Antenna Peak Gain w/ Cable Loss (dBi)						
Frequency	902.250 MHz	914.750 MHz	926.750 MHz	2402 MHz	2440 MHz	2480 MHz
Monopole Antenna	-10.60	-11.88	-12.69			
Inverted F Antenna				-4.91	-4.27	-3.63

For the 15.231 bands, only radiated measurements are used to show compliance with the FCC limits for fundamental and spurious emissions.

Revision	Notes / Changes	Test Personnel/ Author	Reviewer	Approver	Date
AAA	Initial approved release	Denise Shaw	Christian Ro	Doug Papay	11/4/2025

CONTENTS

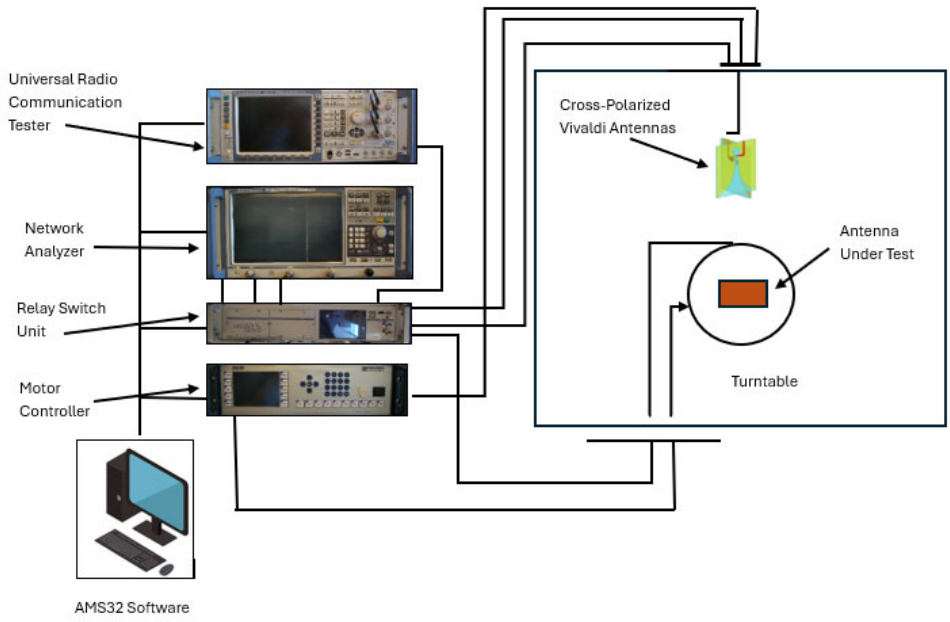
WLAN Antenna Information 1
Contents 2
1 Test Setup 3
1.1 Test Methodology 3
1.2 Test Setup diagram 3
1.3 Equipment Description 4
2 Antenna Information 5

1 TEST SETUP

1.1 TEST METHODOLOGY

The radiation pattern of the Antenna Under Test is measured in both horizontal and vertical polarization. These measurements are performed in an anechoic chamber using cross polarized Vivaldi Antennas mounted to a boom. The AMS32 software controls the equipment and records the measurements. The data is translated to a 3D image for each frequency tested.

1.2 TEST SETUP DIAGRAM



1.3 EQUIPMENT DESCRIPTION

Device	Model	Serial #	Manufacturer	Last Cal Date	Cal Due Date
Radio communication tester	CMW 270	1201.0002K75-102483-zQ	Rohde & Schwarz	11/22/2023	11/22/2025
Network analyzer	ZNB 8	1311.6010K44-104394-nz	Rohde & Schwarz	2/17/2023	2/17/2026
Open Switch and Control Unit	OSP230	1528.3105K03-101719-GF	Rohde & Schwarz	VBU	VBU
Position Controller for the WPTC	NCD	557/3222.01	Maturo	VBU	VBU
Anechoic chamber	TC-OTAXS	N/A	Rohde & Schwarz	4/7/2025	4/7/2026
Cross Polarized Vivaldi Antenna	DST-B215	N/A	Rohde & Schwarz	VBU	VBU
Broadband Link Antenna	TS-F24-V2	N/A	Rohde & Schwarz	VBU	VBU
Cable Set	TS8991-CAB	N/A	Rohde & Schwartz	4/7/2025	4/7/2026
Over-the-Air performance Software	AMS32	N/A	Rohde & Schwartz	VBU	VBU

2 ANTENNA INFORMATION

Antenna Pattern 902.250 MHz

Peak Realized Gain: -10.60 dBi

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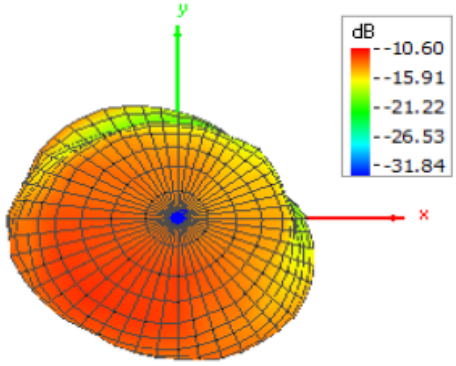

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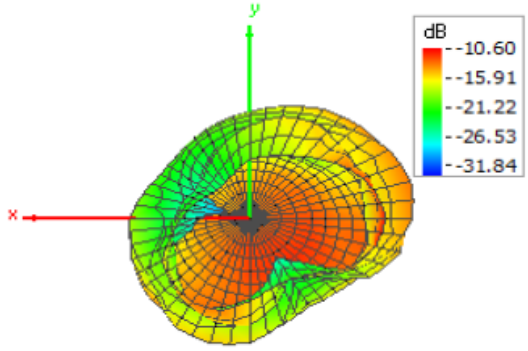

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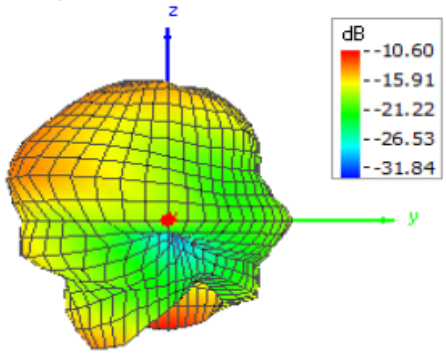

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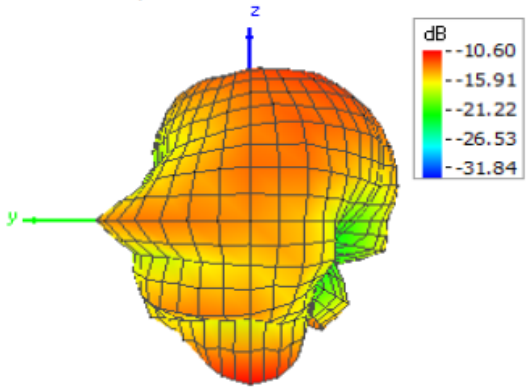

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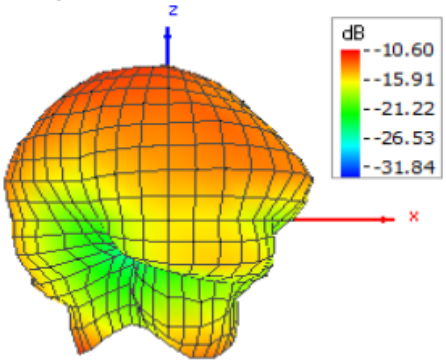

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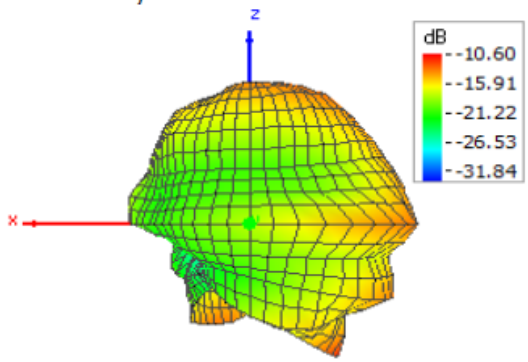

Antenna Pattern 914.750 MHz

Peak Realized Gain: -11.88 dBi

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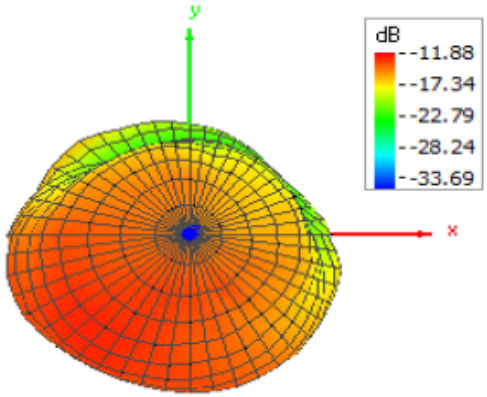

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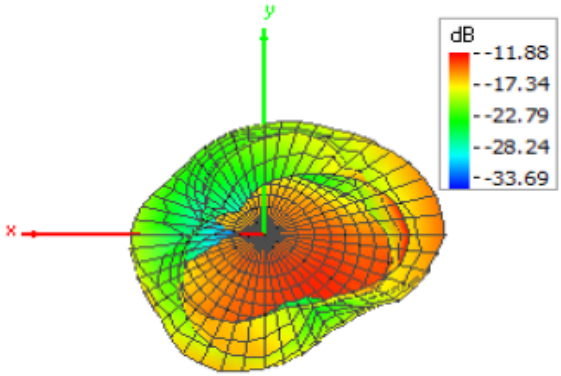

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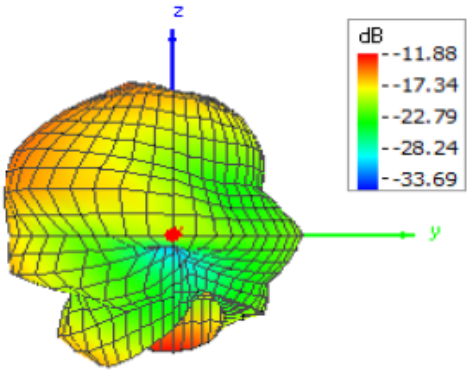

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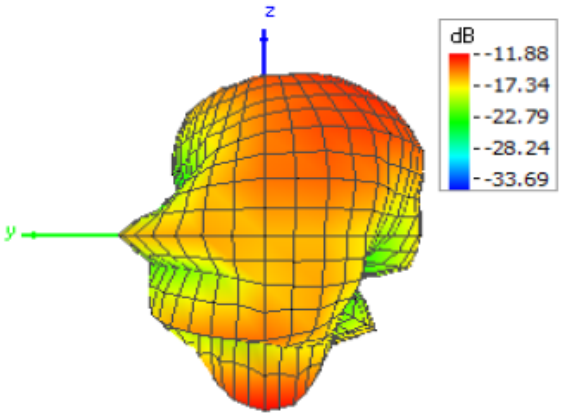
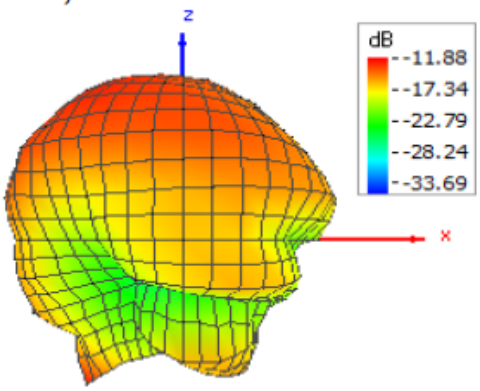


Theta = 90, Phi = 270



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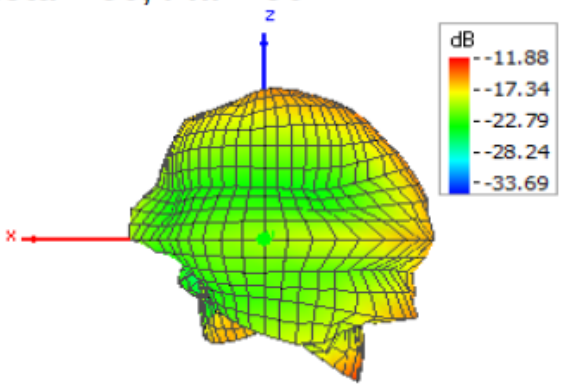

Antenna Pattern 926.750 MHz

Peak Realized Gain: -12.69 dBi

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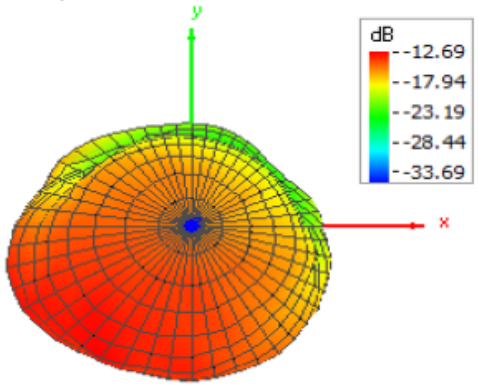

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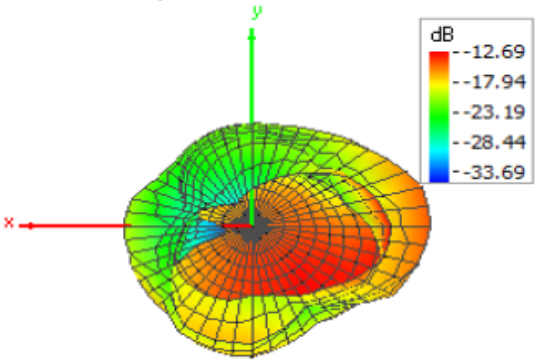

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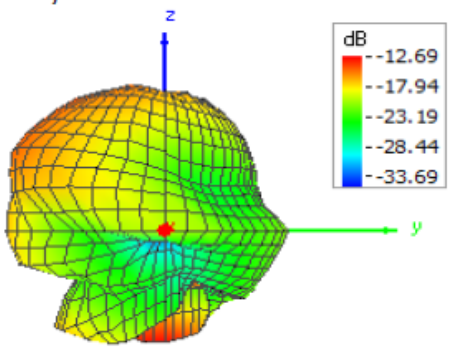

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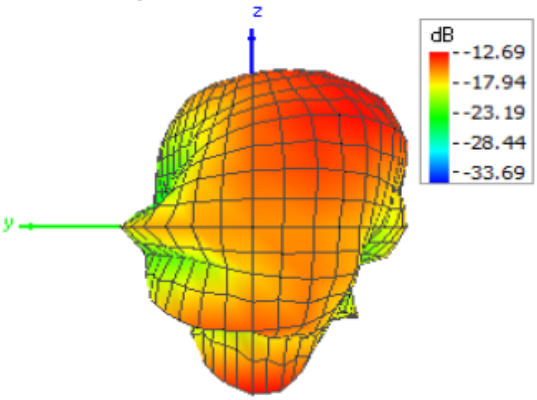
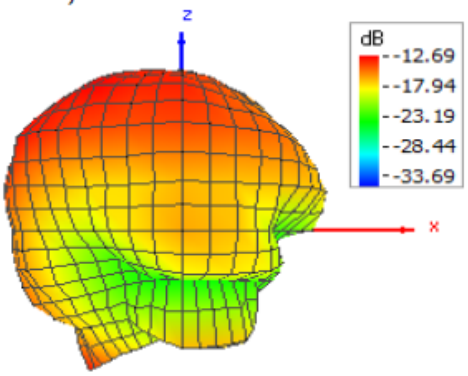


Theta = 90, Phi = 270



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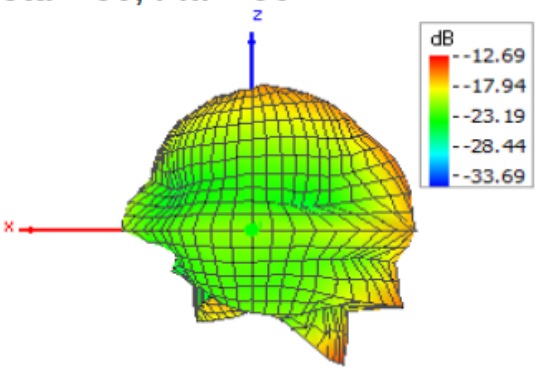
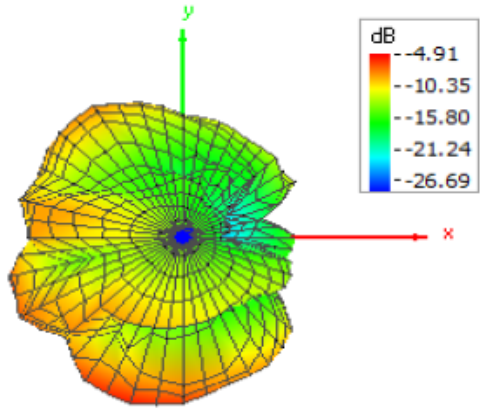


Antenna Pattern 2402 MHz

Peak Realized Gain: -4.91 dBi

Theta = 0, Phi = 0



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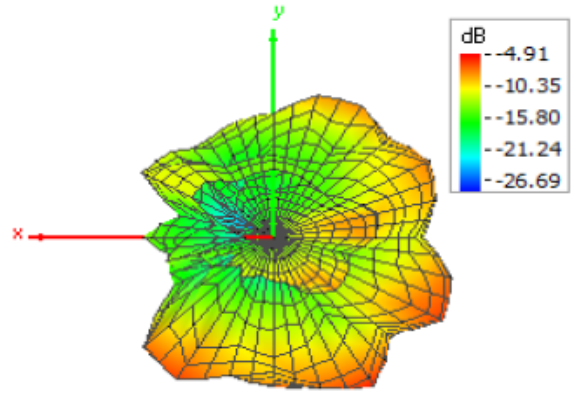

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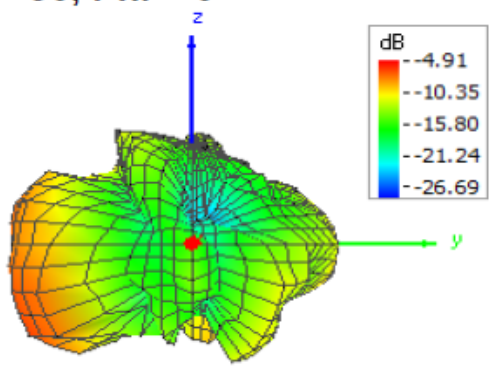
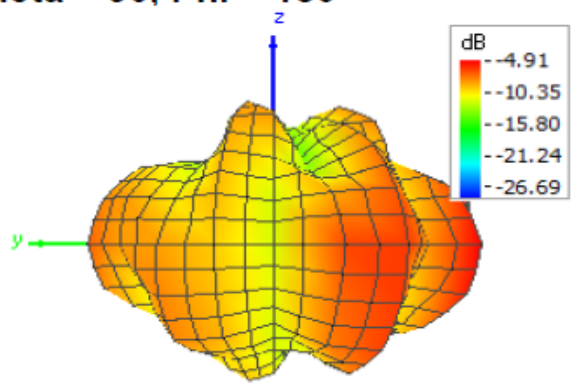


Theta = 90, Phi = 180



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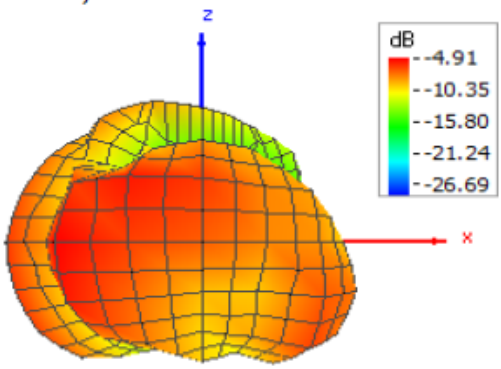

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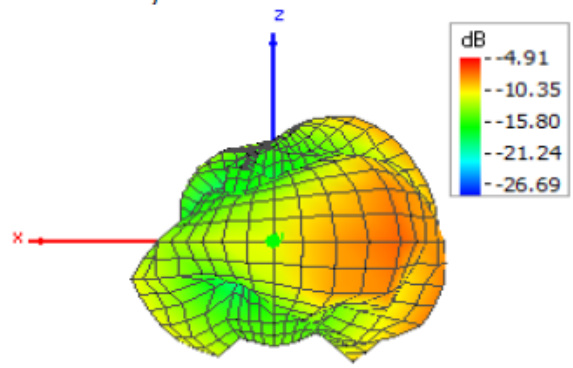

Antenna Pattern 2440 MHz

Peak Realized Gain: -4.27 dBi

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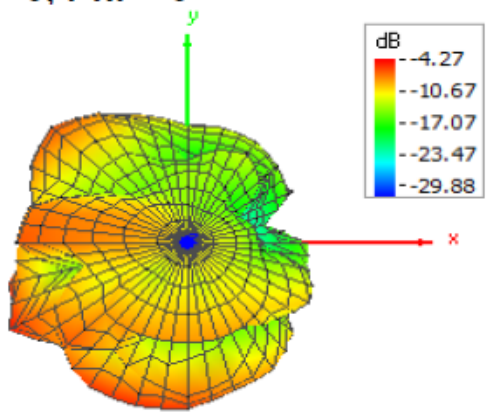
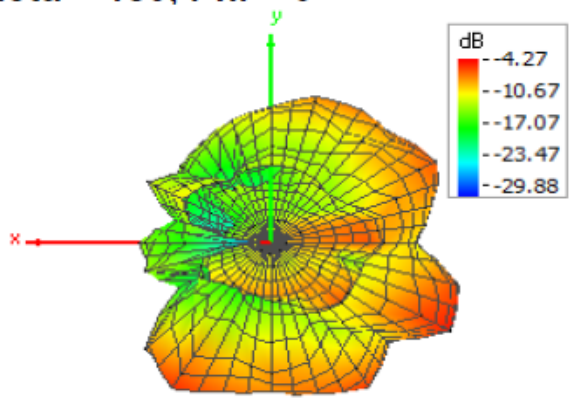


Theta = 180, Phi = 0



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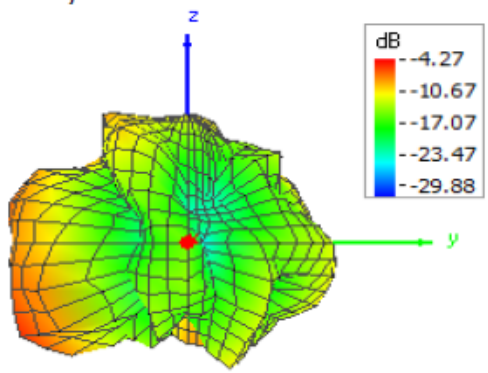

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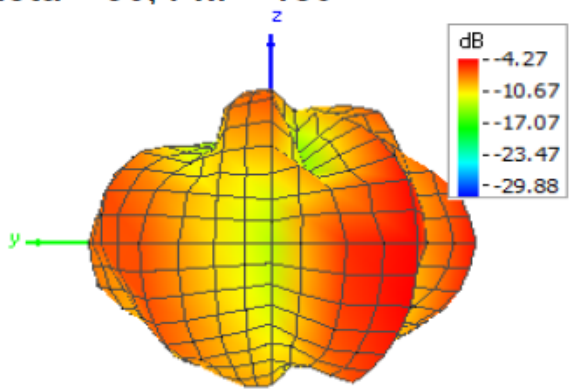

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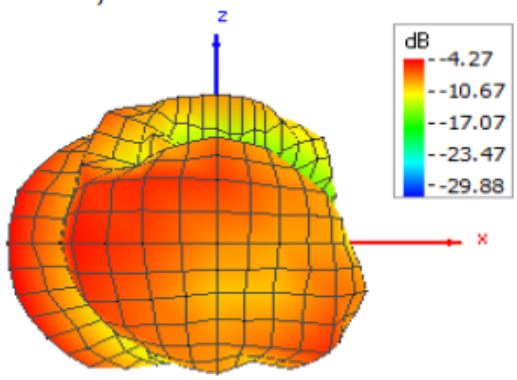

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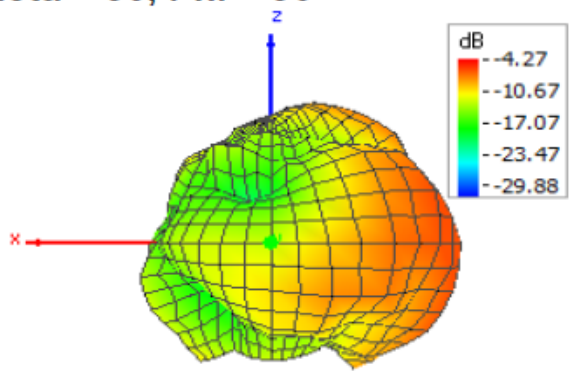

Antenna Pattern 2480 MHz

Peak Realized Gain: -3.63 dBi

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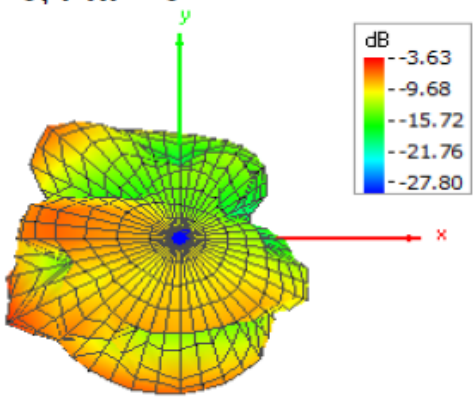

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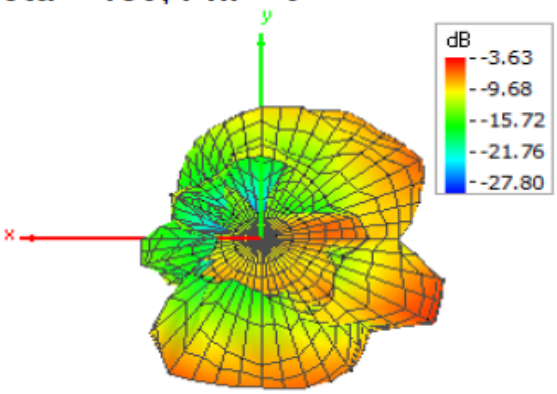

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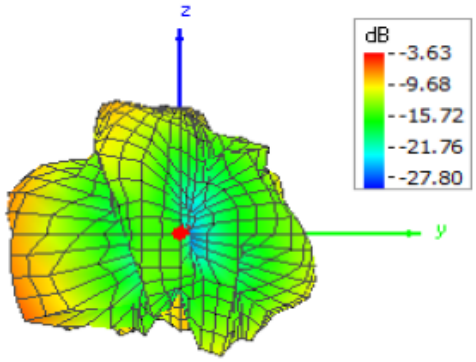

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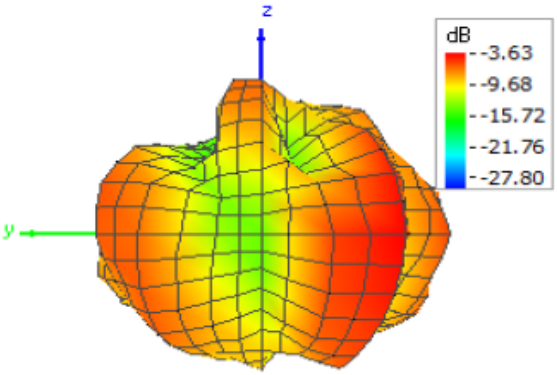

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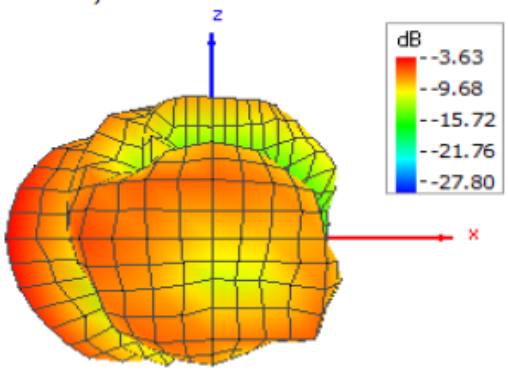

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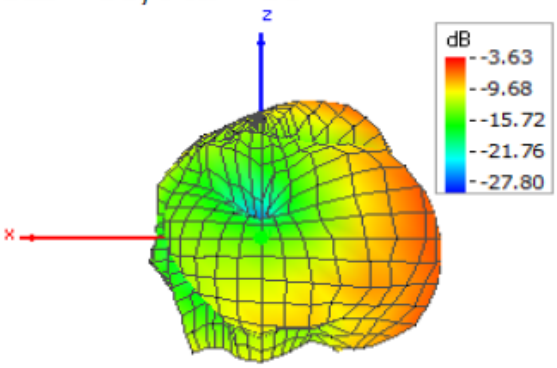
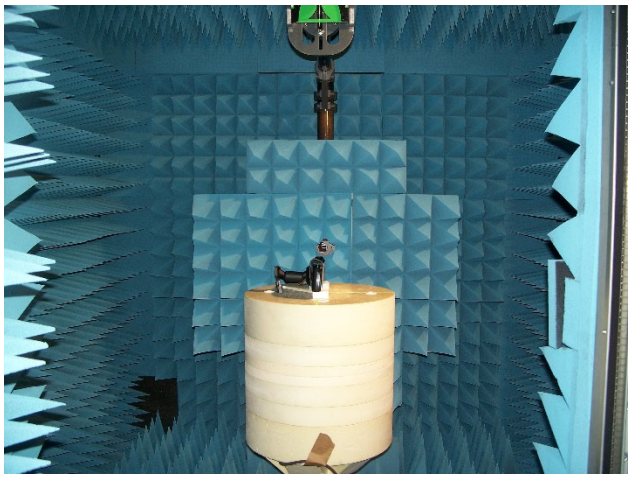
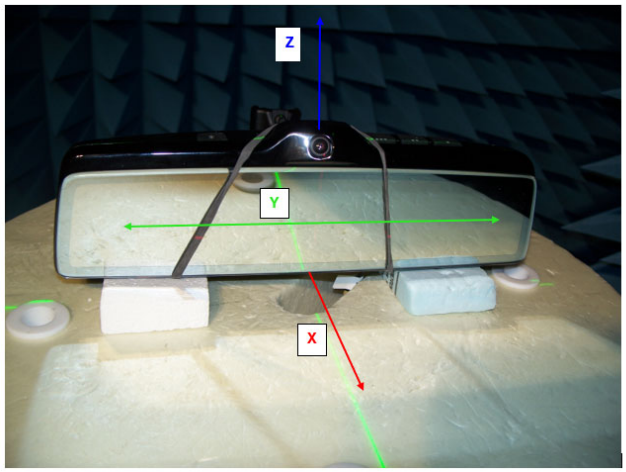
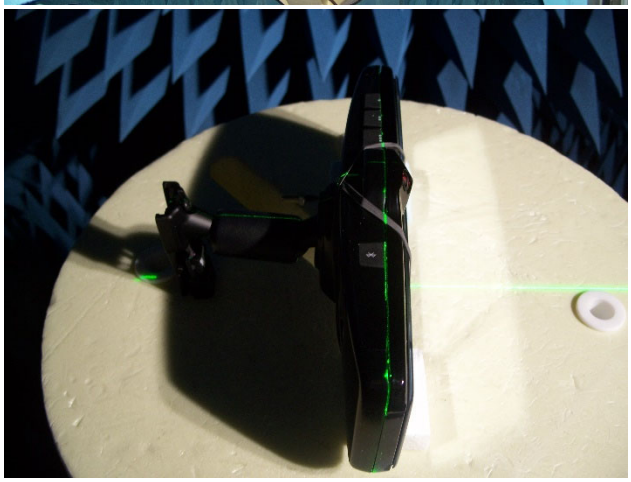


APPENDIX

SETUP PHOTOS