OTA Performance Measurement Report

Report Ref. No.
T141126D01

Applicant:
Zeroplus Technology Co.,Ltd

Date of Application: 2014/11/26
Test Period: 2014/12/1
Date of Issue:2014/12/5

Test Lab Info:
Compliance Certification Services Inc.
No.11, Wugong 6th Rd., Wugu Industrial Park.
Taipei Hsien 248, Taiwan, R.O.C.

Test Item

Name of Product:
Anteena Gain

Brand Name:
ZEROPLUS

Model/ Ref. No:
RDA5875Y

Name and Address of Manufacturer:
2F., No. 123, Jian 8th Rd., Zhonghe Dist., New Taipei City 23585, Taiwan

Remarks:
2402MHz~2480MHz
3D Gain Measurement Results

Confirmation	Approved by	Tested by

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Revision History

Rev.		Issue Date		Revisions	Effect Page	Revised By
00		2014/12/5		Initial Issue	ALL	Eason.k.liu

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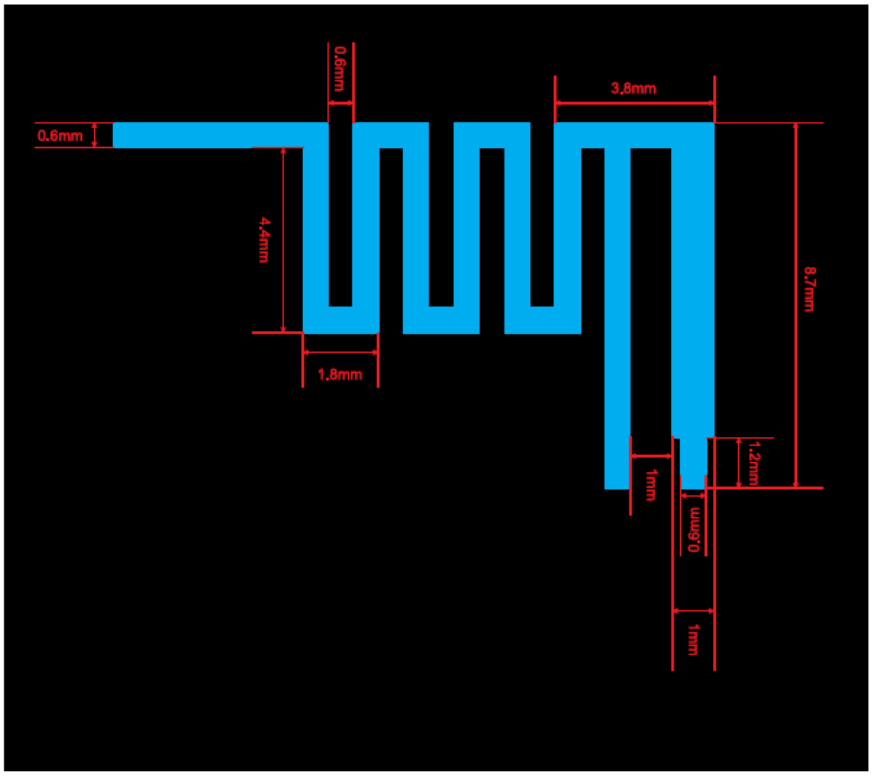
1 General Information

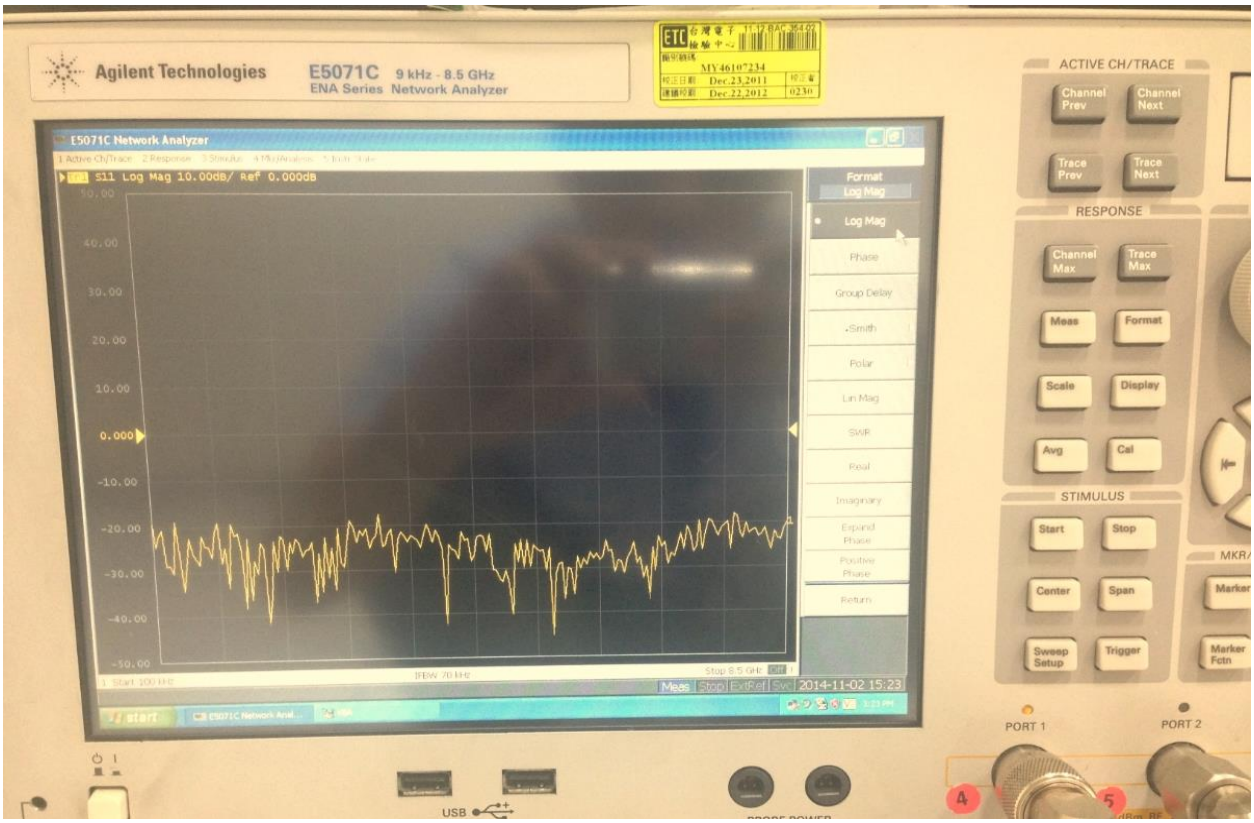
1.1 Description of Device Under Test (DUT)

Product Feature & Specification	
Brand Name	ZEROPLUS
Model Name	RDA5875Y
Frequency	2402MHz~2480MHz

1.2 Product Photo



1.3 Equipment Photo



2 Summary of Test Result

2.1 Ambient Condition

Temperature(℃)	22.4℃	Humidity(℃)	54%

Test / Position	Gain / Free Space		
Frequency	2400	2450	2500
Ant. Port Input Pwr. (dBm)	0	0	0
Tot. Rad. Pwr. (dBm)	-11.8149	-11.5297	-11.8761
Peak EIRP (dBm)	-7.36321	-6.72032	-6.81552
Directivity (dBi)	4.45166	4.80941	5.06058
Efficiency (dB)	-11.8149	-11.5297	-11.8761
Efficiency (%)	6.58435	7.03117	6.49218
Gain (dBi)	-8.84	-6.67	-6.17
NHPRP ±Pi/4 (dBm)	-13.4689	-13.3	-13.7452
NHPRP ±Pi/6 (dBm)	-14.8995	-14.8444	-15.4325
Average Gain (dB)	-11.8149	-11.5297	-11.8761

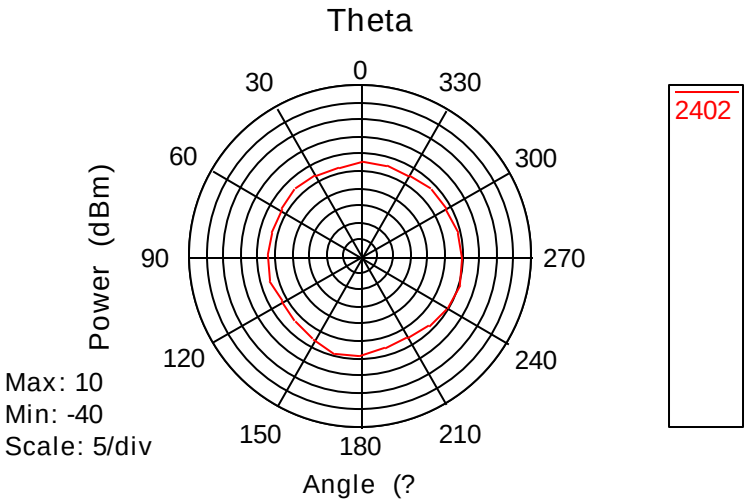
Test result RDA5875Y

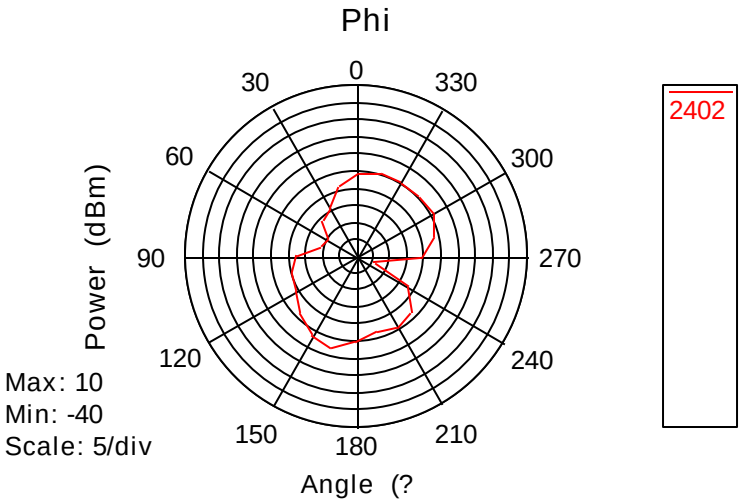
3 Description for DUT Testing Position

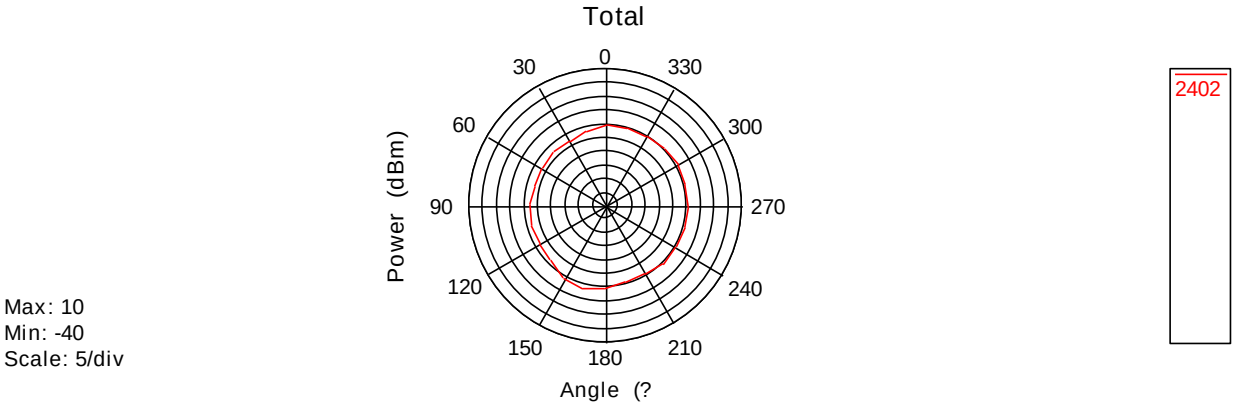
Test Position Free Space –Setup

4 2D Test Plotting

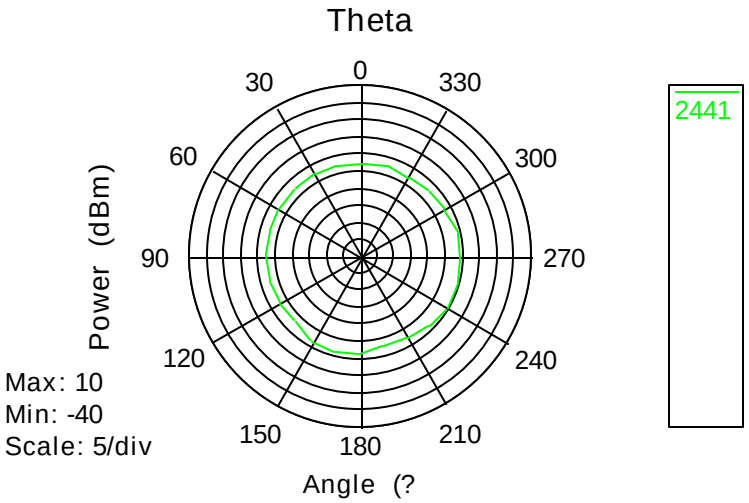
The test plotting was shown as below

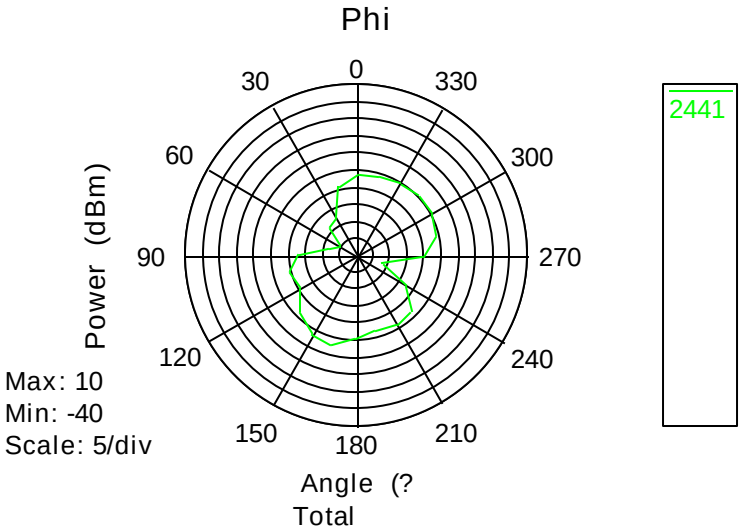


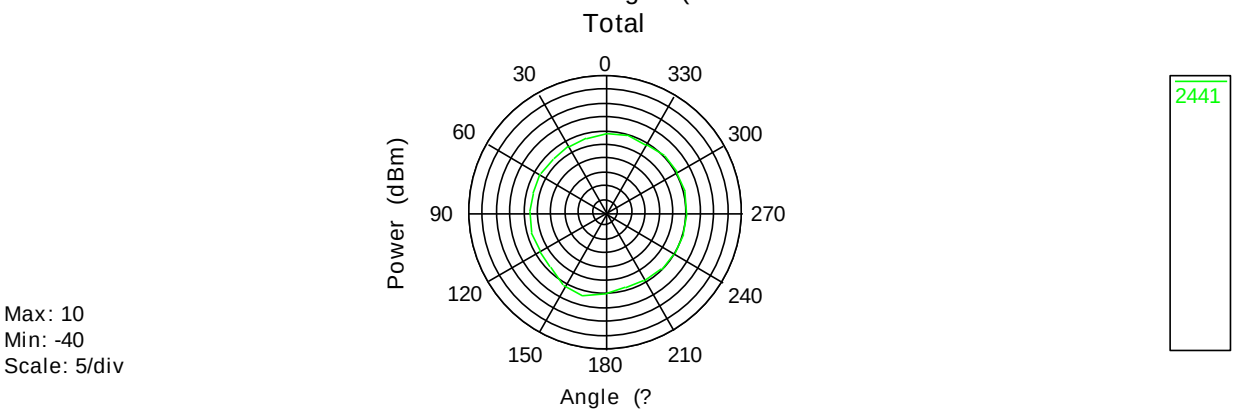




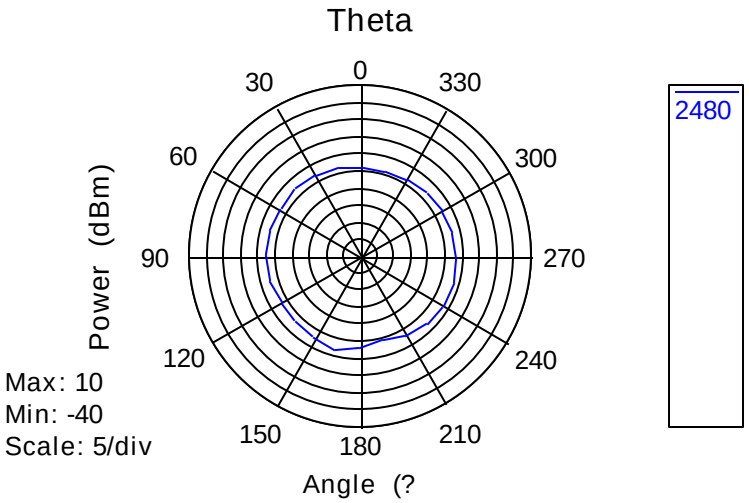
2D(X-Y Plane) RDA5875Y Antenna Gain Free Space-2402MHz

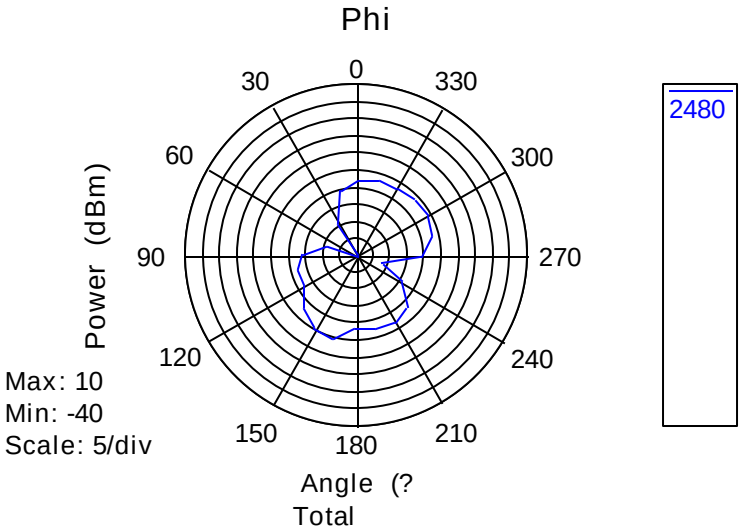


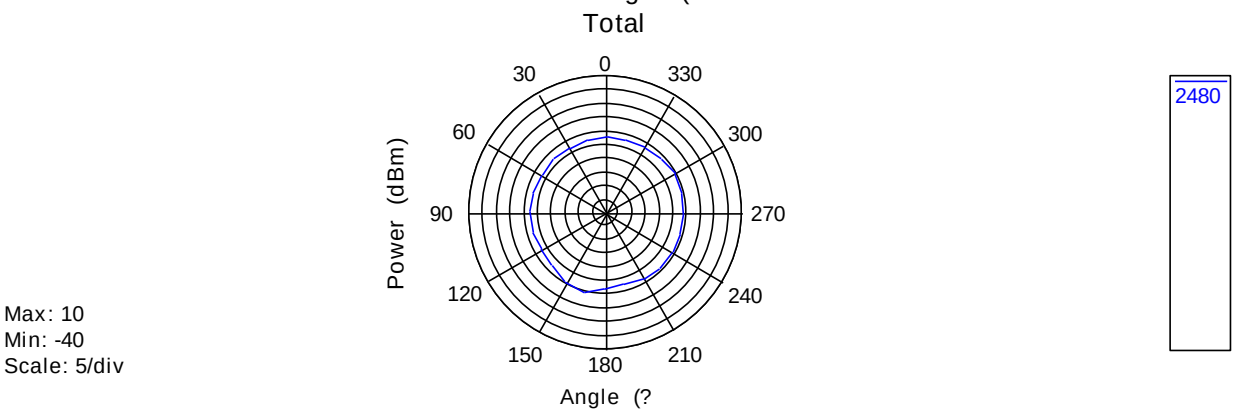




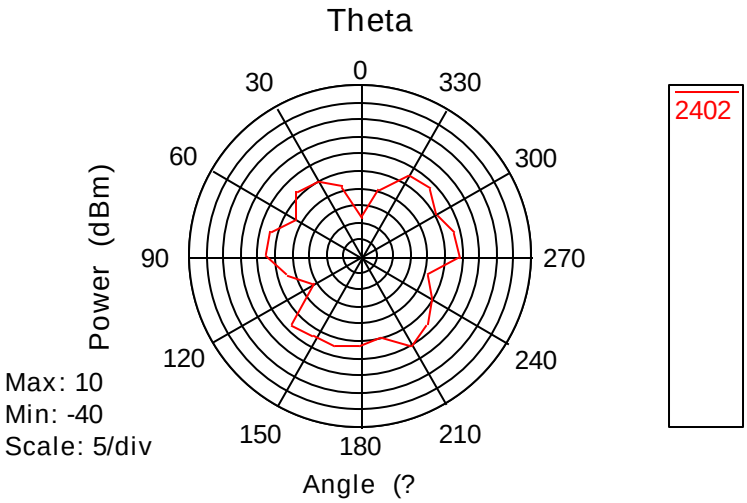
2D(X-Y Plane) RDA5875Y Antenna Gain Free Space-2441MHz

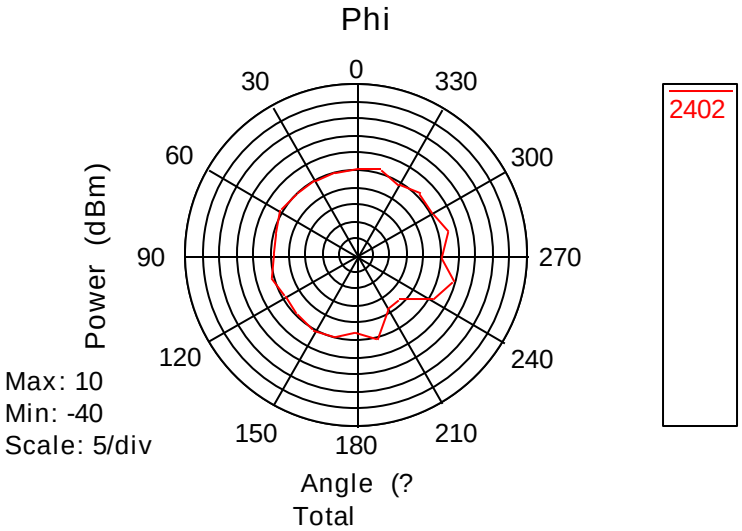


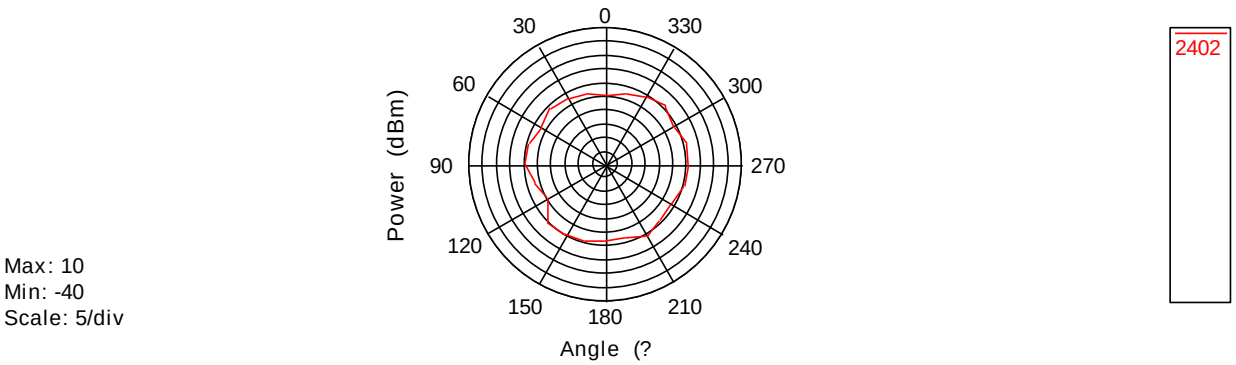




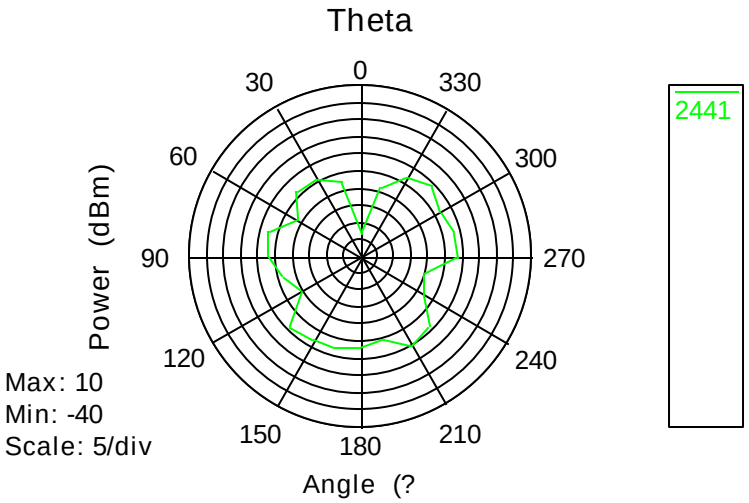
2D(X-Y Plane) RDA5875Y Antenna Gain Free Space-2480MHz

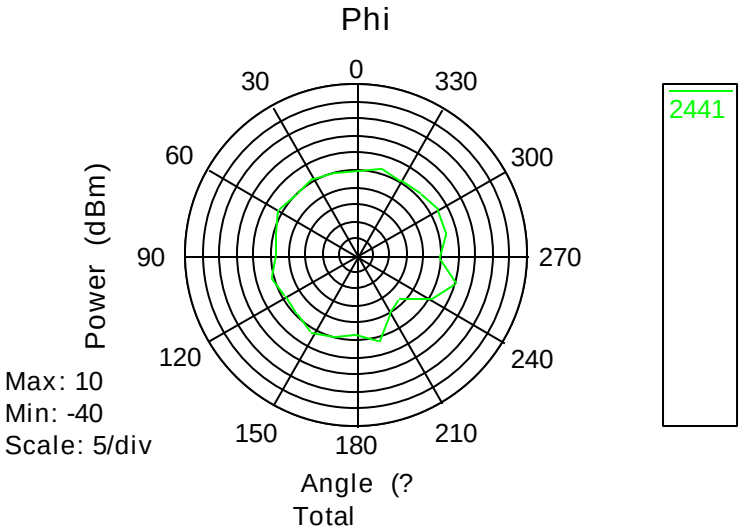


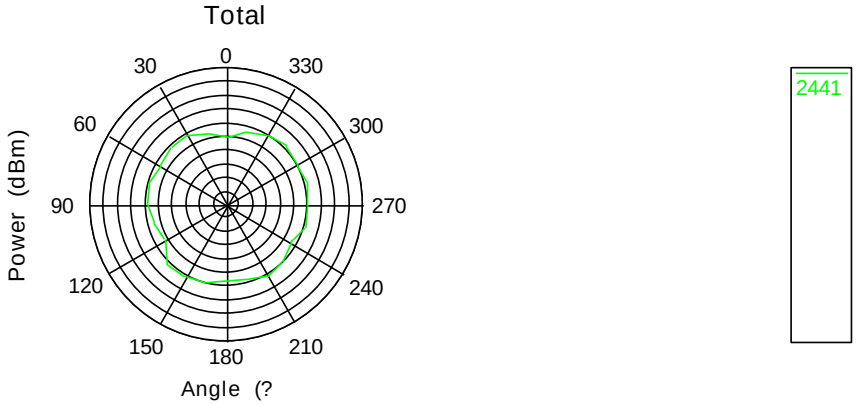




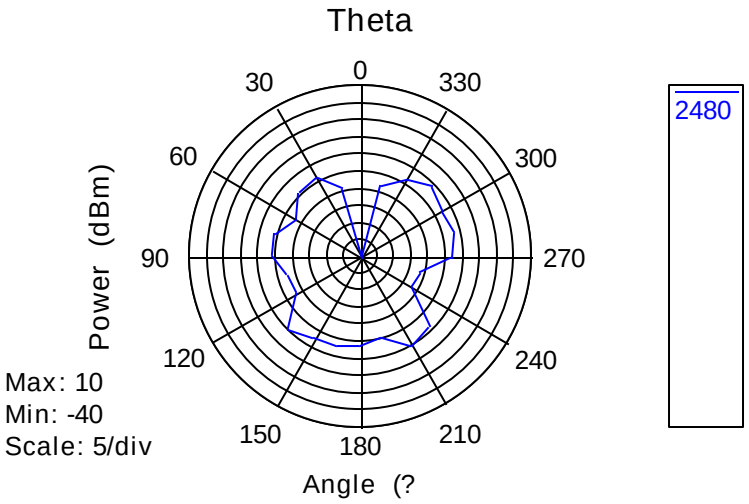
2D(X-Z Plane) RDA5875Y Antenna Gain Free Space-2402MHz

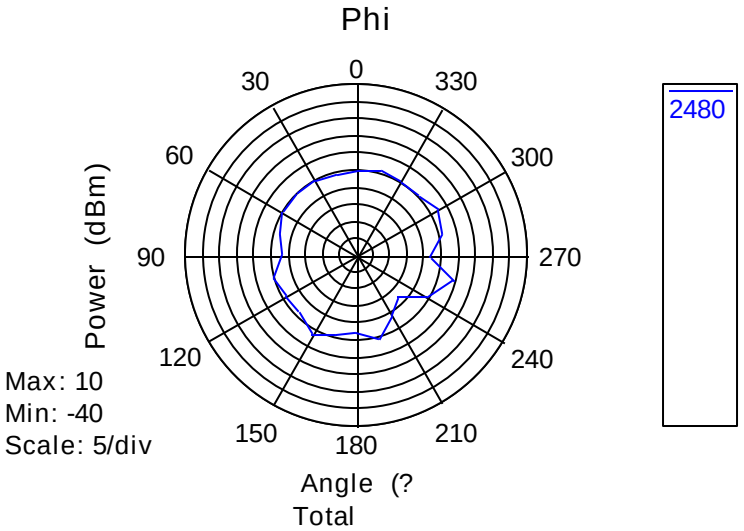


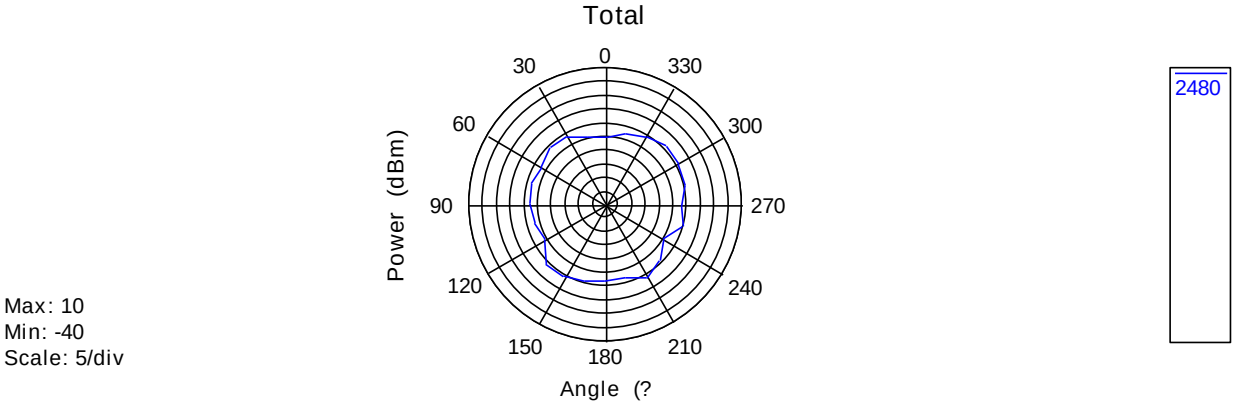




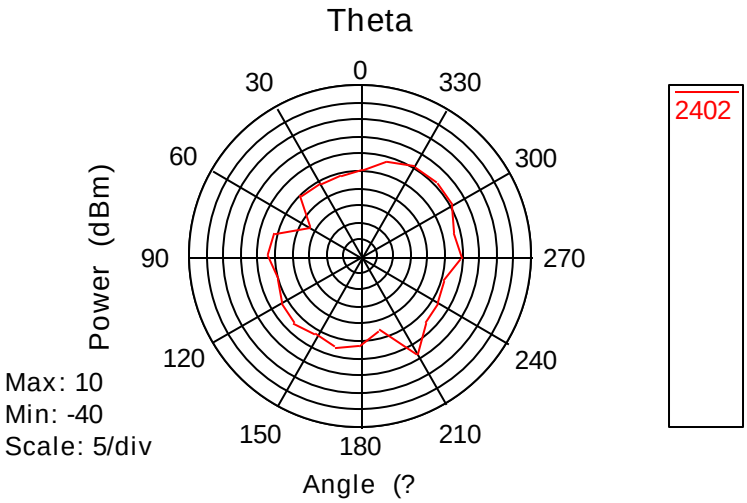
2D(X-Z Plane) RDA5875Y Antenna Gain Free Space-2441MHz

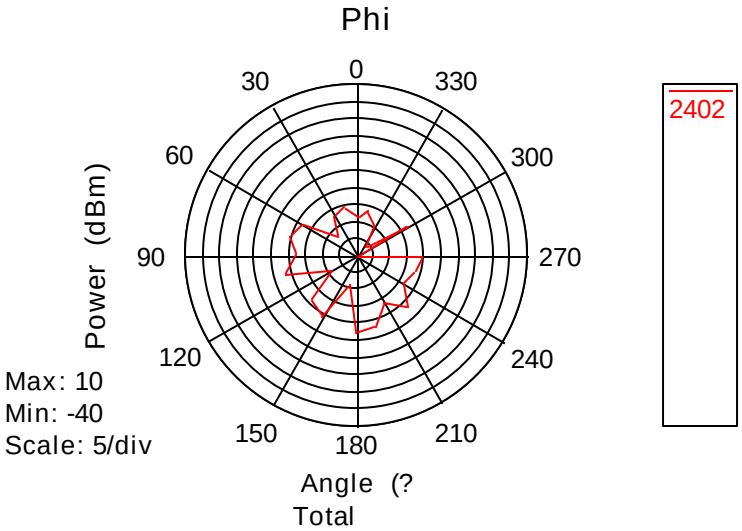


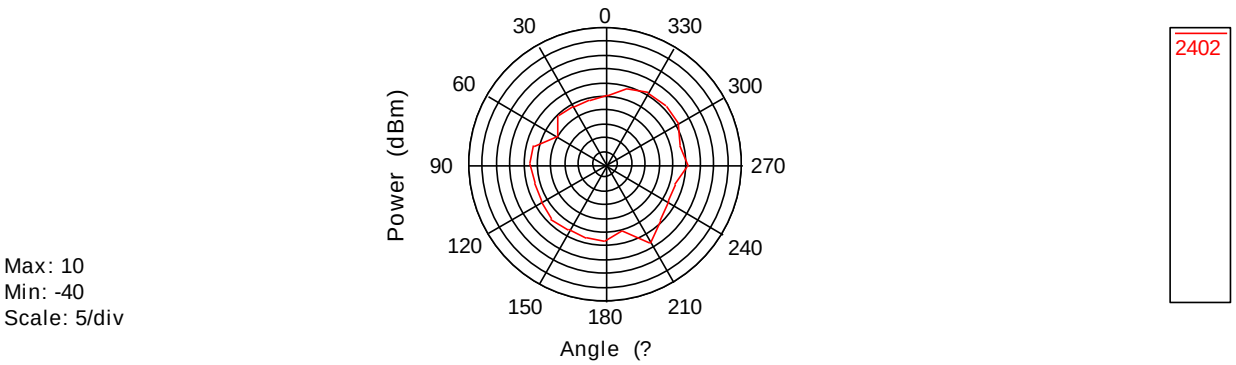




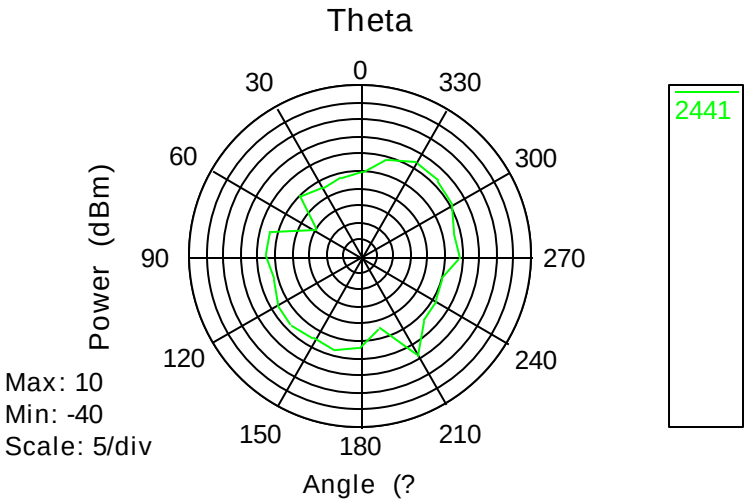
2D(X-Z Plane) RDA5875Y Antenna Gain Free Space-2480MHz

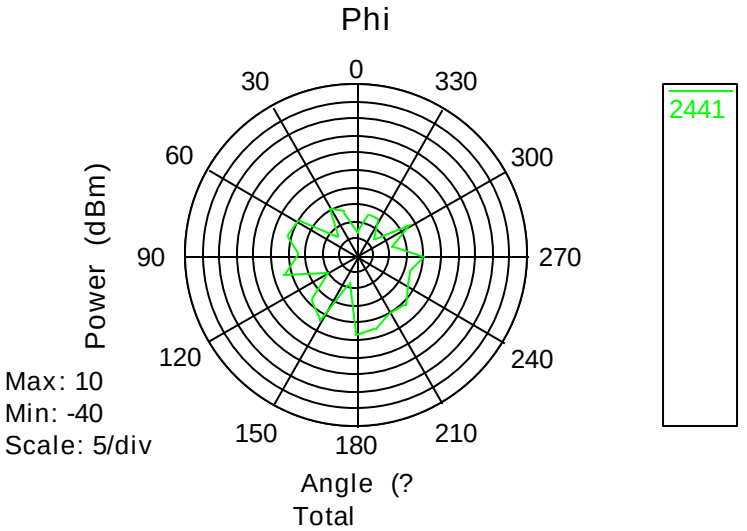


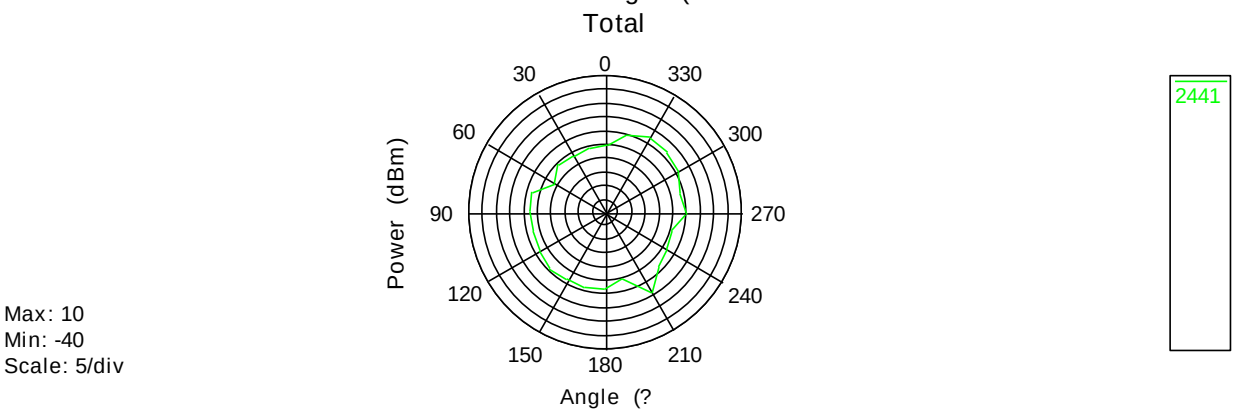




2D(Y-Z Plane) RDA5875Y Antenna Gain Free Space-2402MHz

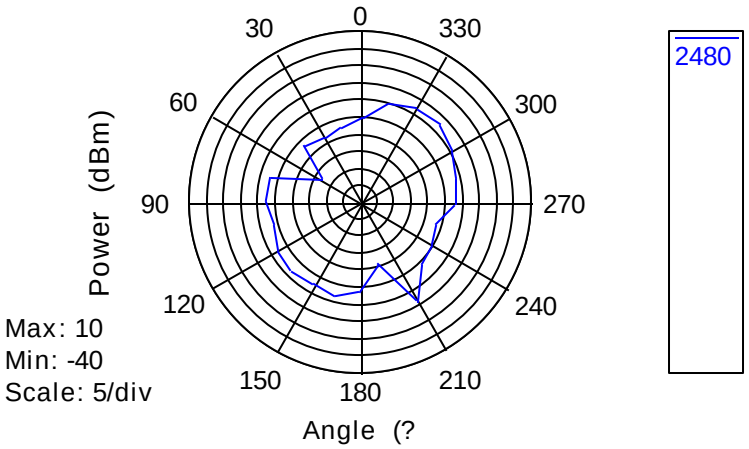






2D(Y-Z Plane) RDA5875Y Antenna Gain Free Space-2441MHz

Theta



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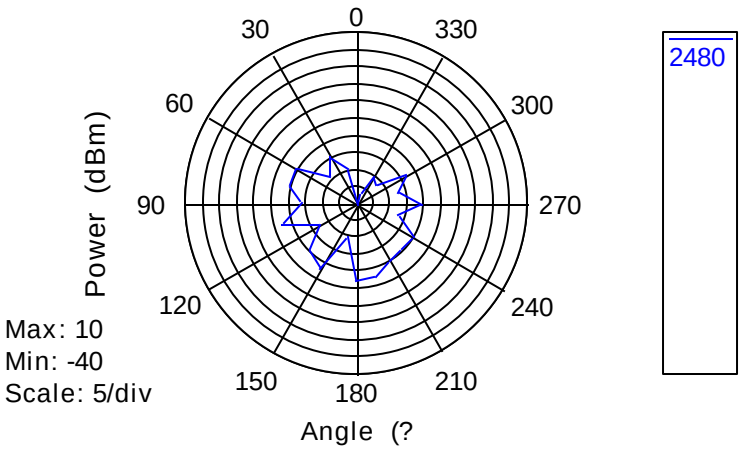

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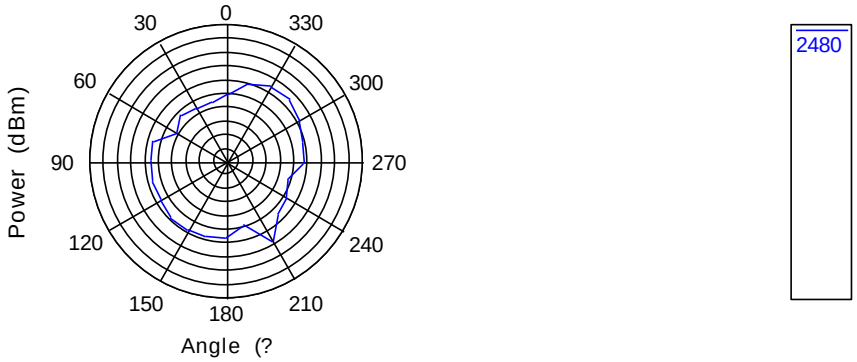
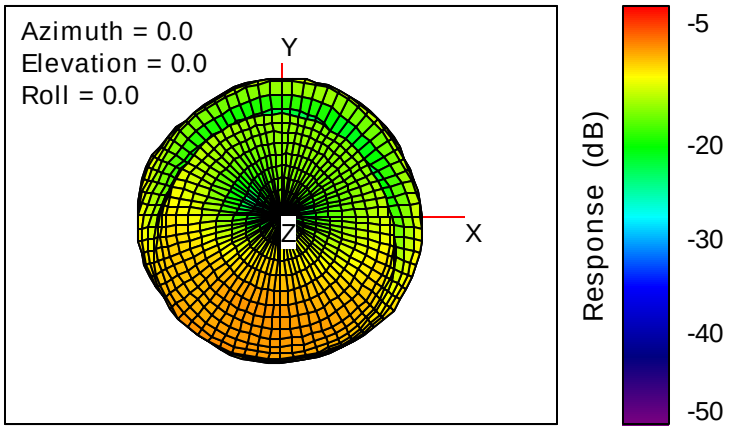


2D(Y-Z Plane) RDA5875Y Antenna Gain Free Space-2480MHz

5 3D TEST PLOTTING

The test poltting was shown as below

Theta



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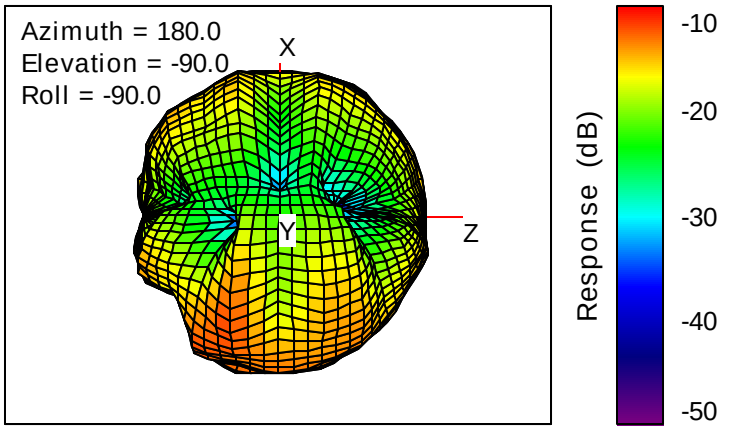

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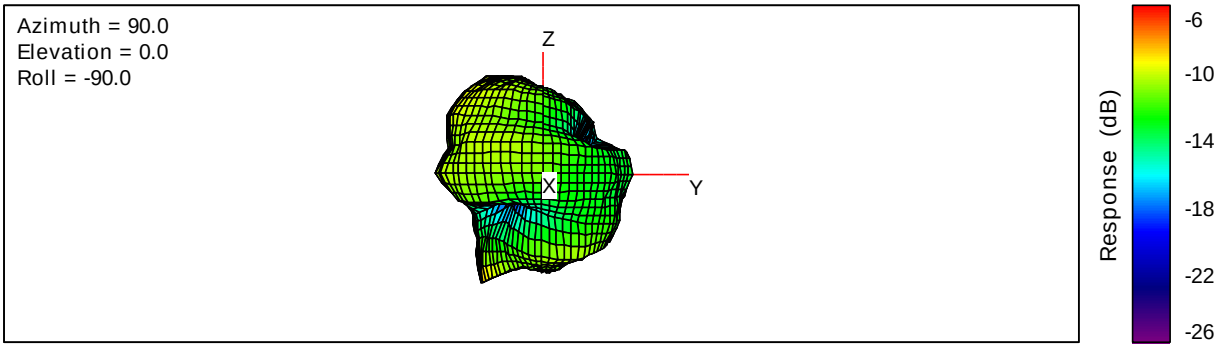

3D RDA5875Y Antenna Gain Free Space-2402MHz

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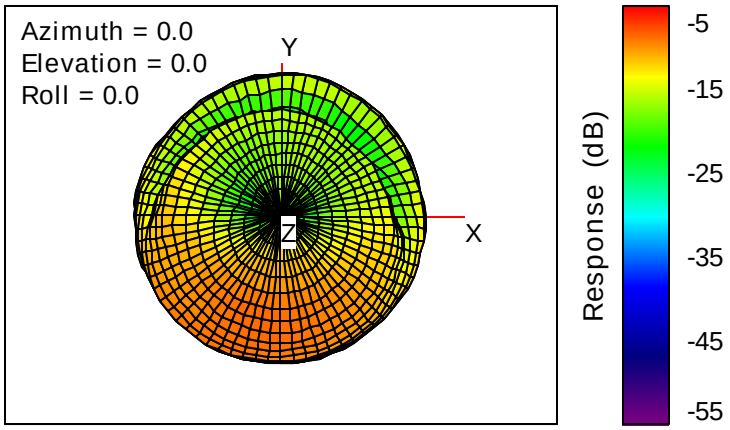

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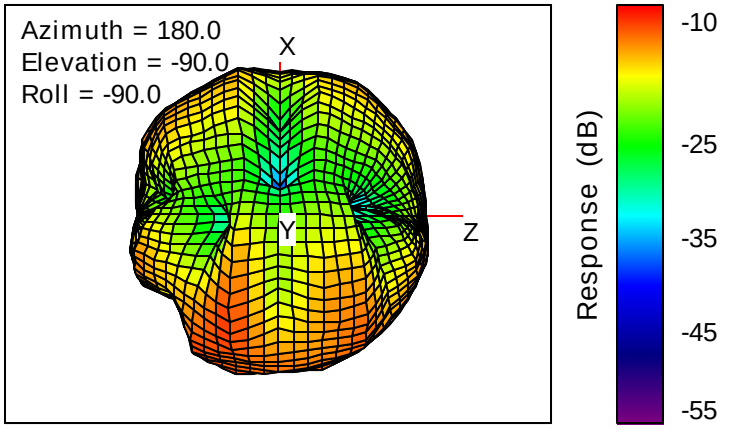

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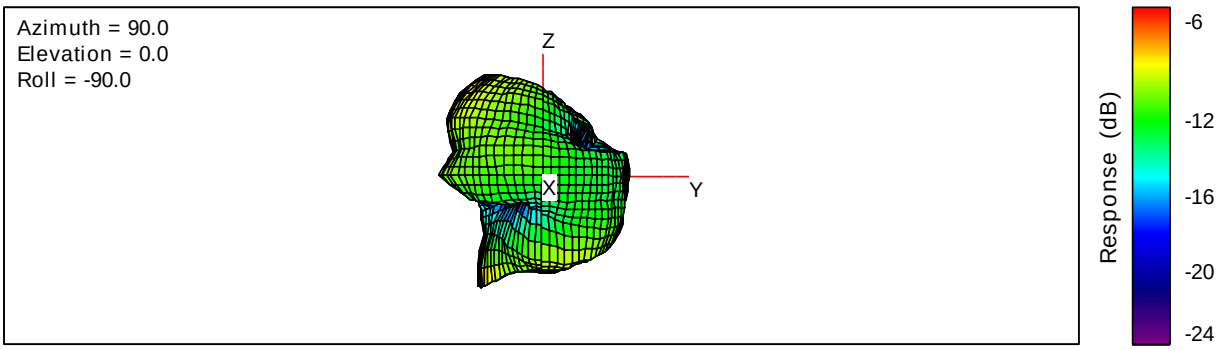
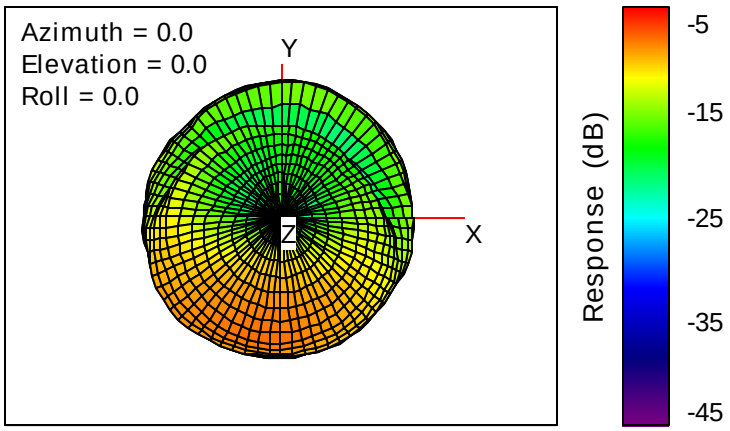


3D RDA5875Y Antenna Gain Free Space-2441MHz

Theta



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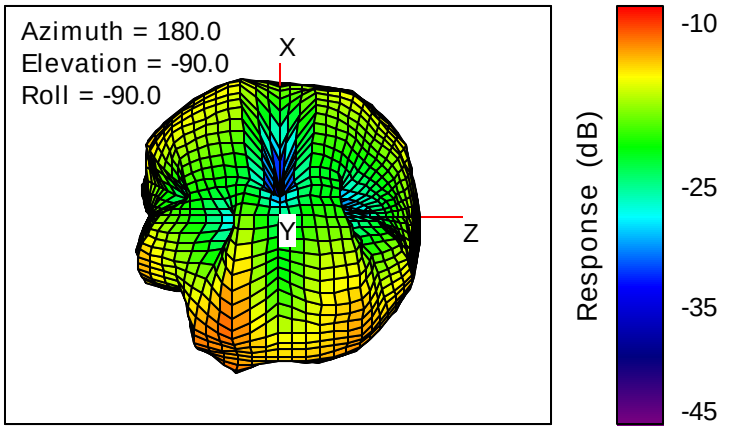

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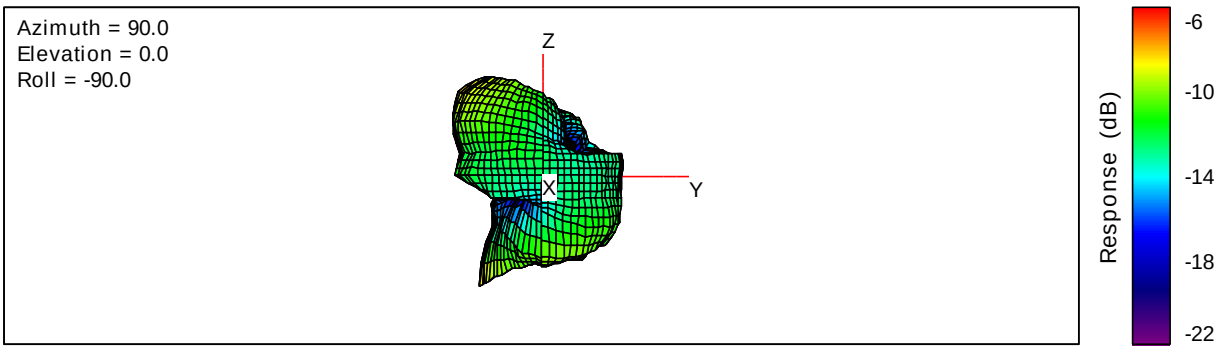

3D RDA5875Y Antenna Gain Free Space-2480MHz