



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:

Antenna 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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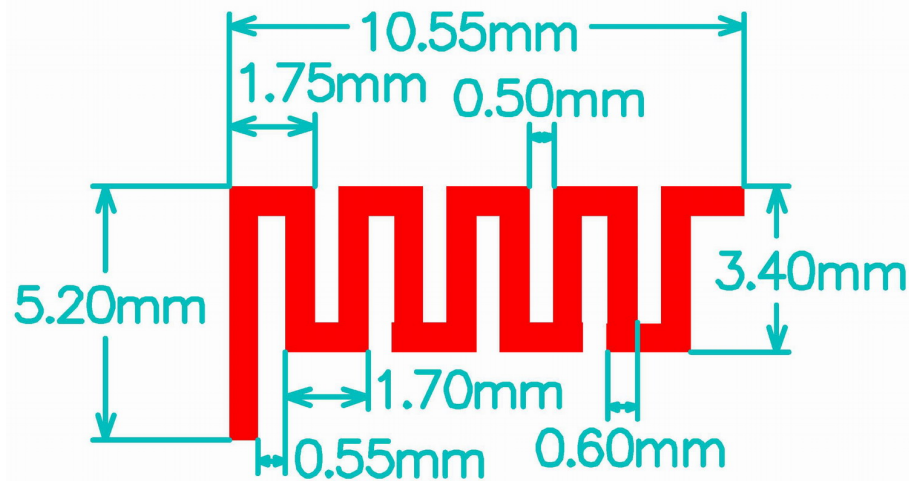


1 General Information

1.1 Description of Device Under Test (DUT)

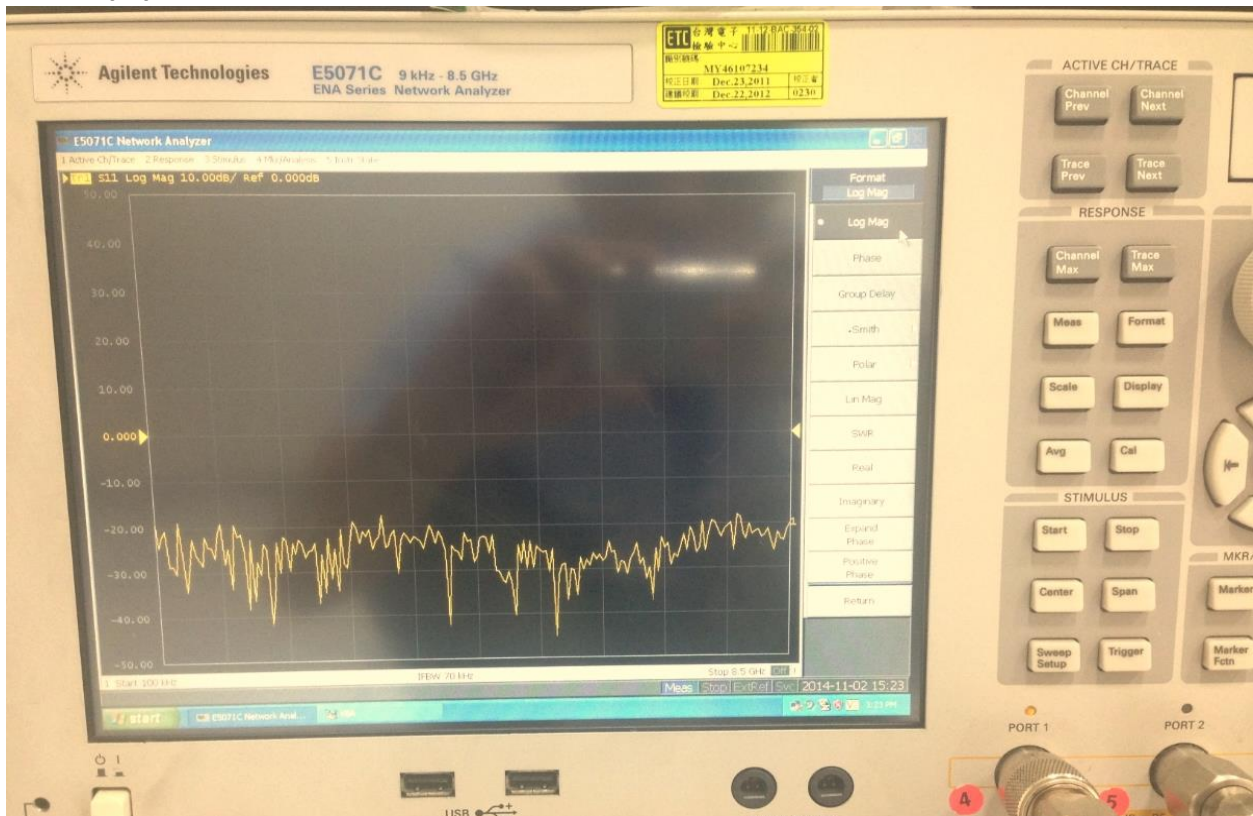
Product Feature & Specification	
Brand Name	ZEROPLUS
Model Name	RDA5875Y
Frequency	2402MHz~2480MHz

1.2 Product Photo





1.3 Equipment Photo





2 Summary of Test Result

2.1 Ambient Condition

Temperature(°C)	22.4°C	Humidity(°C)	54%
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Test / Position	Gain / Free Space		
Frequency	2402	2441	2480
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)	-7.36321	-6.72032	-6.81552
NHPRP $\pm\pi/4$ (dBm)	-13.4689	-13.3	-13.7452
NHPRP $\pm\pi/6$ (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

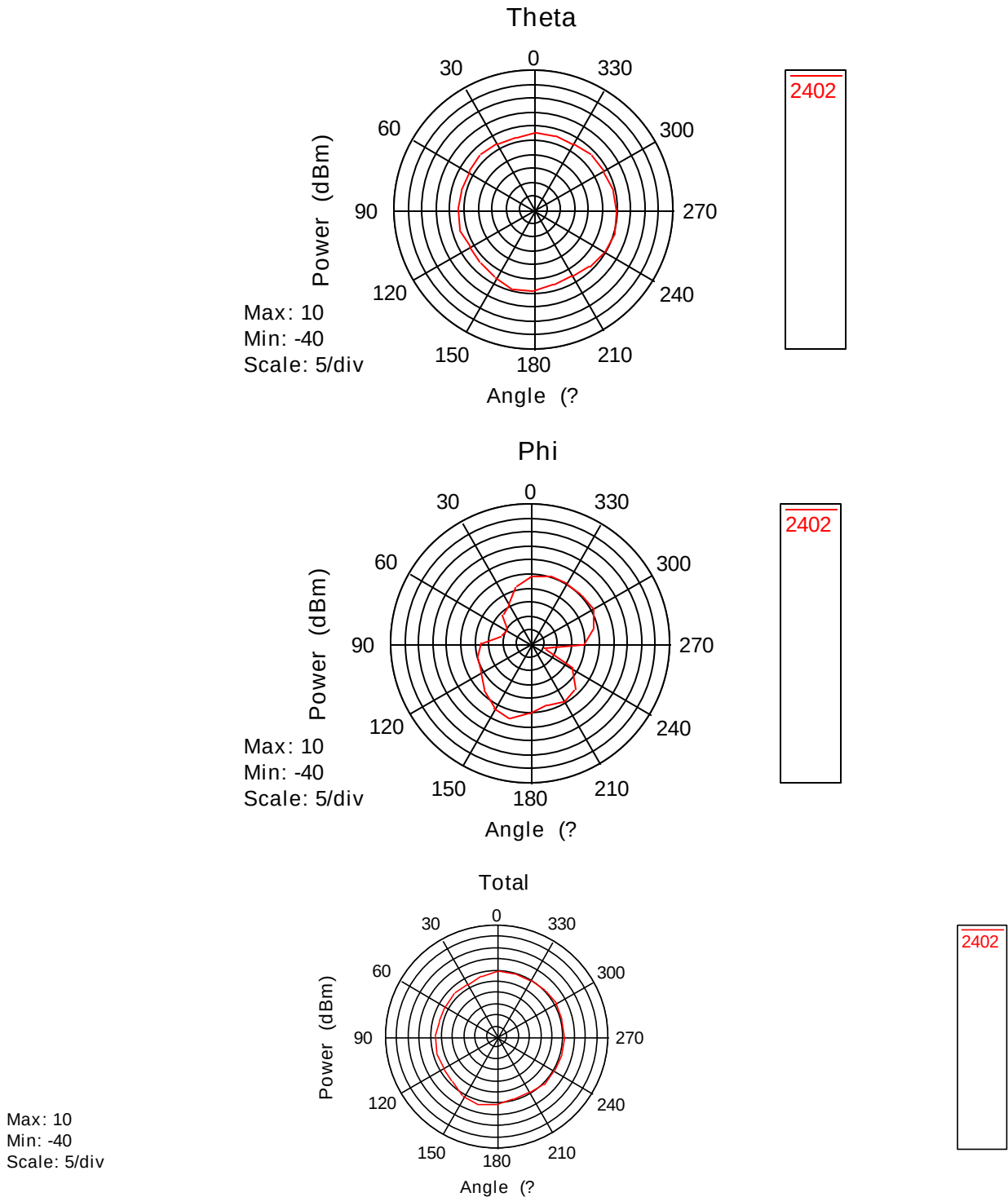


Test Position Free Space –Setup

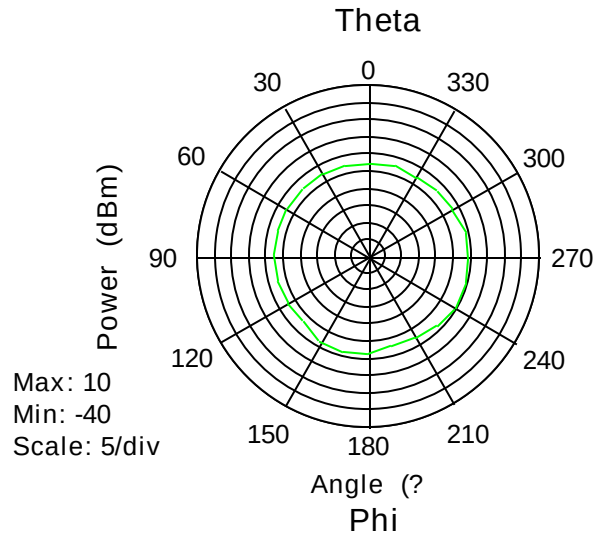


4 2D Test Plotting

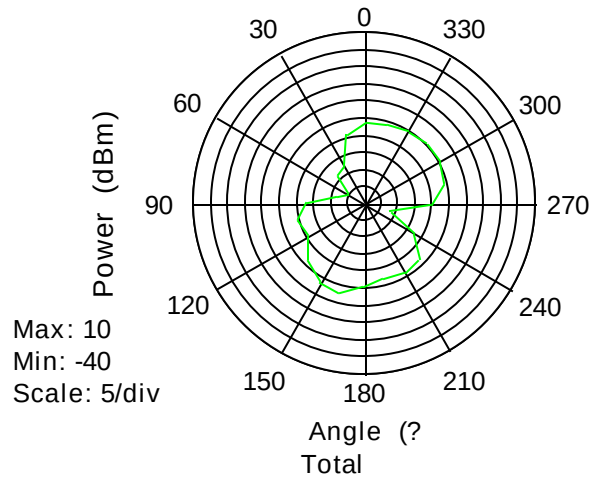
The test plotting was shown as below



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

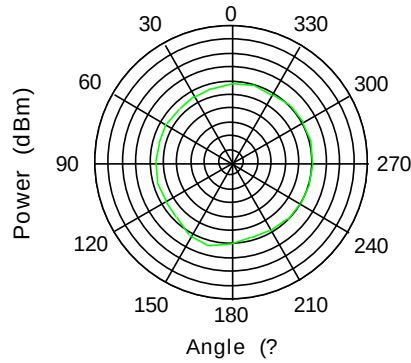


2441



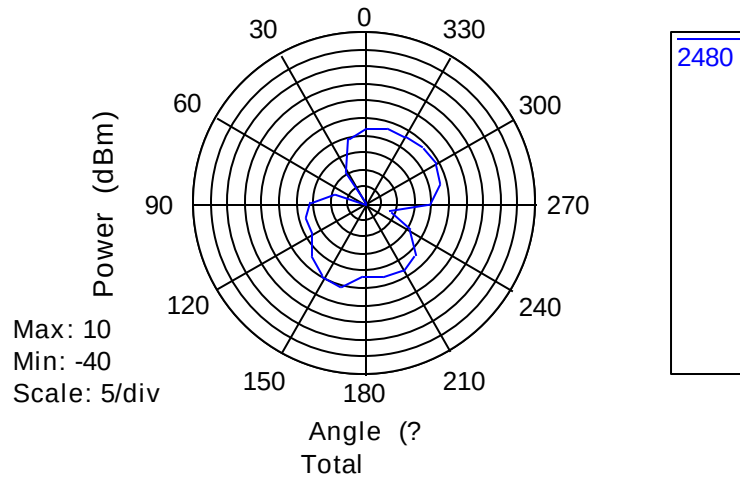
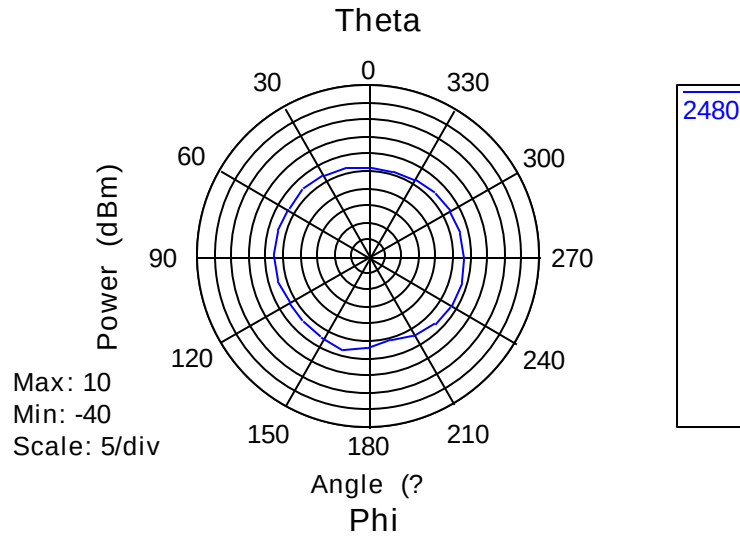
2441

Max: 10
Min: -40
Scale: 5/div

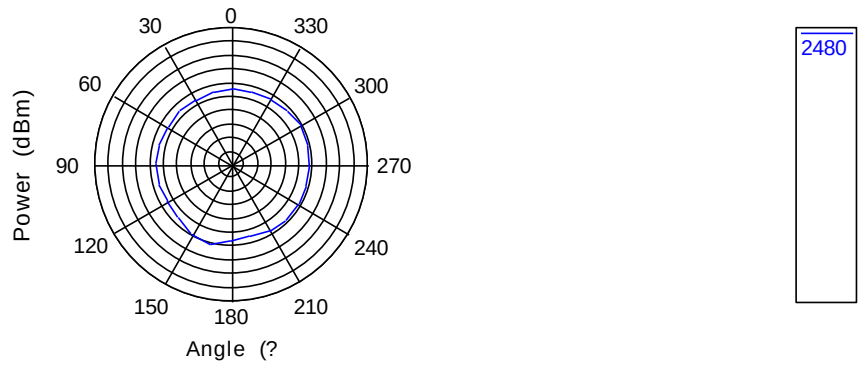


2441

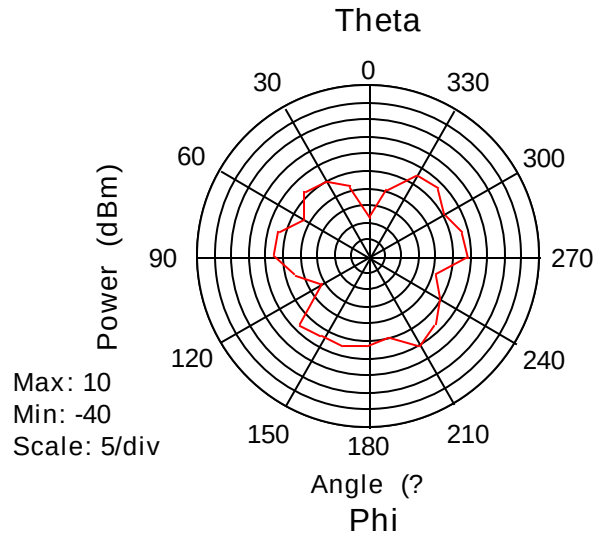
2D(X-Y Plane) RDA5875Y Antenna Gain Free Space-2441MHz



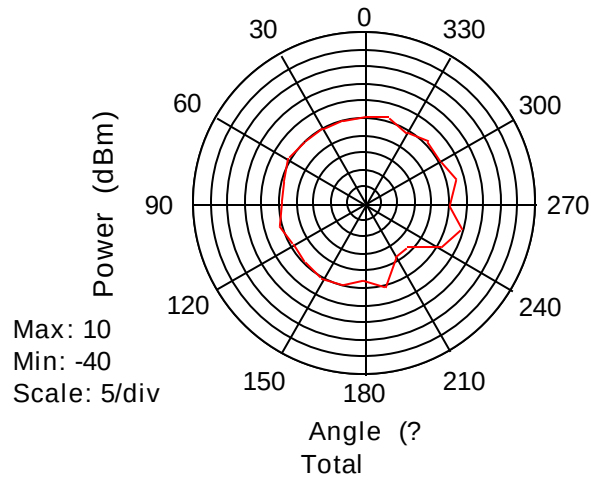
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Scale: 5/div



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

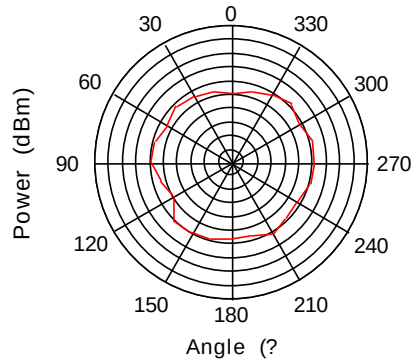


2402



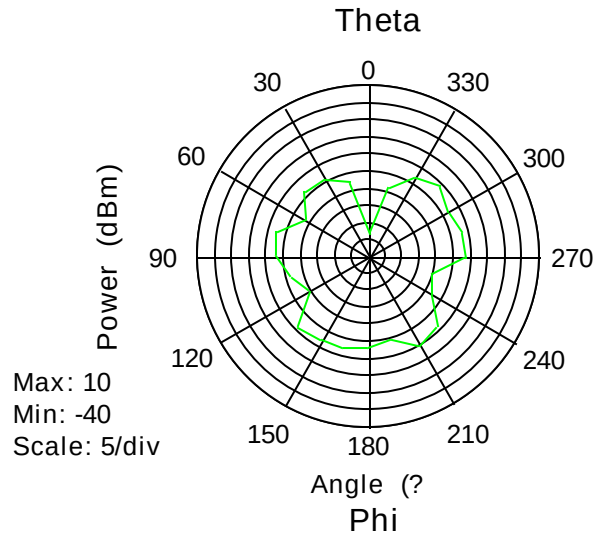
2402

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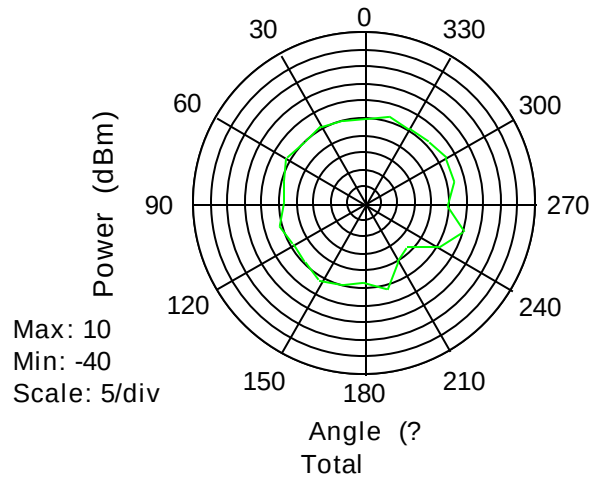


2402

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

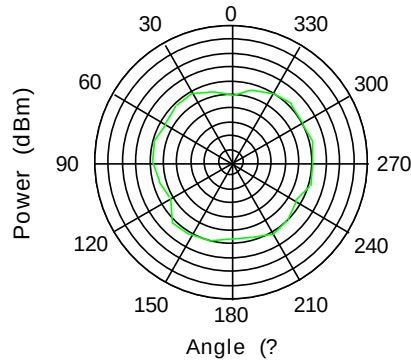


2441



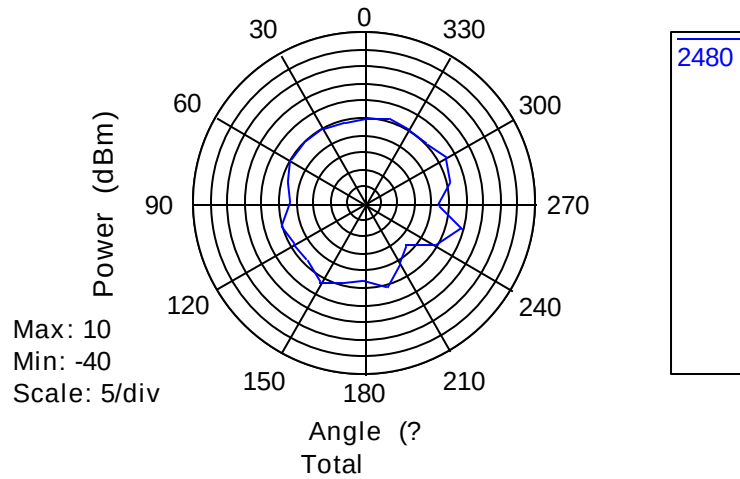
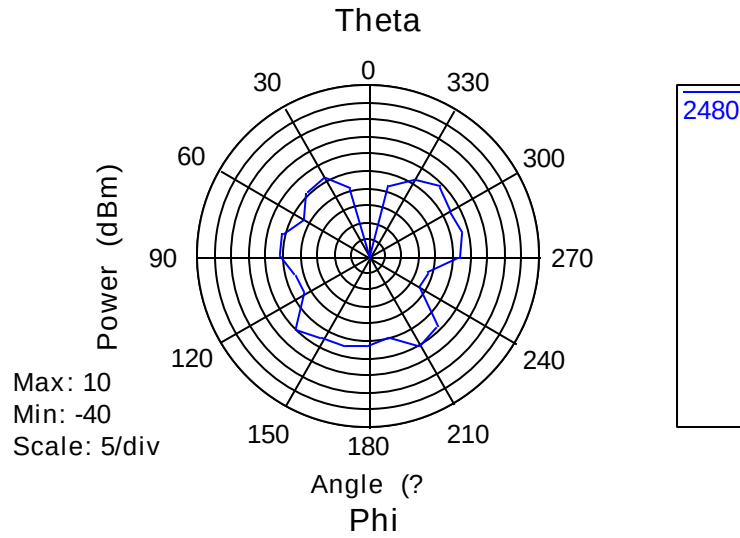
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Scale: 5/div

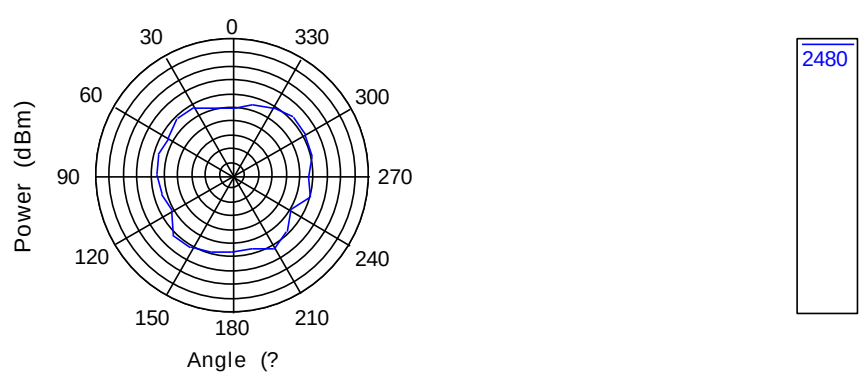


2441

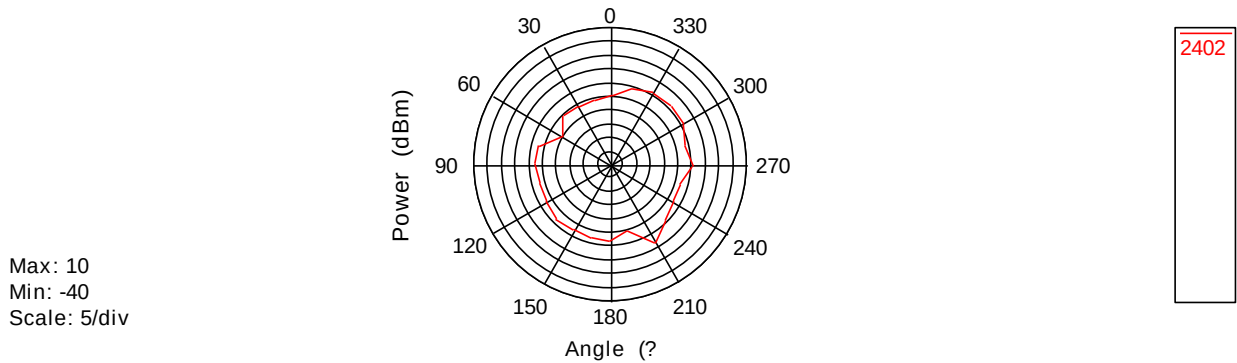
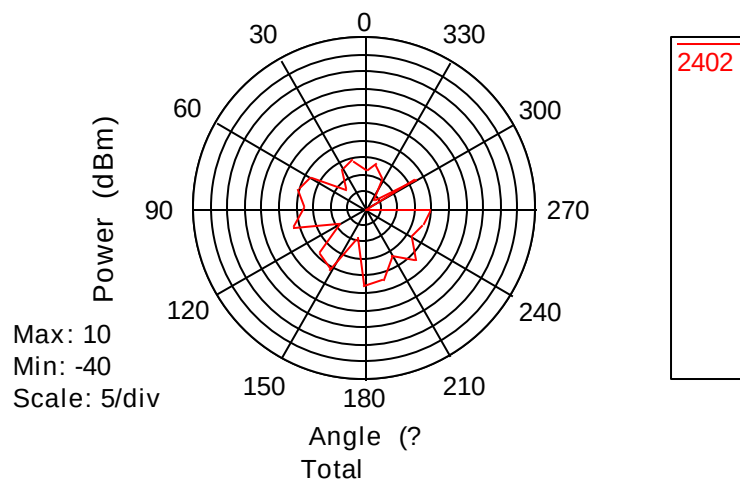
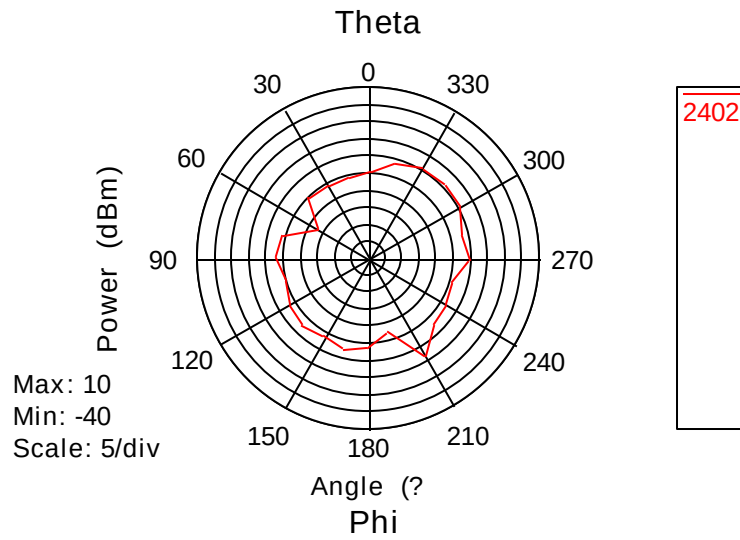
2D(X-Z Plane) RDA5875Y Antenna Gain Free Space-2441MHz



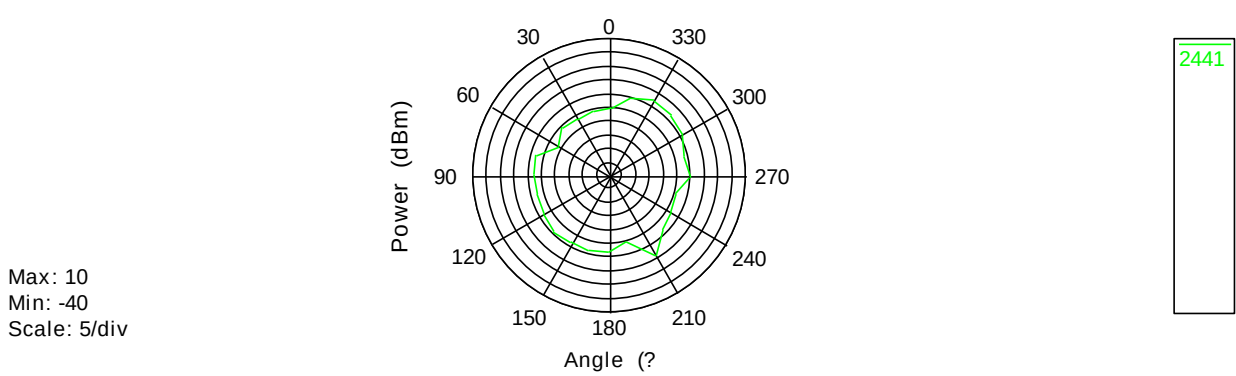
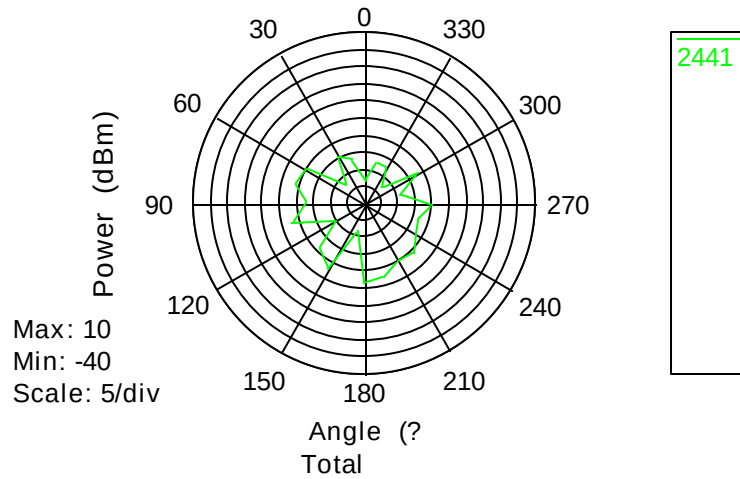
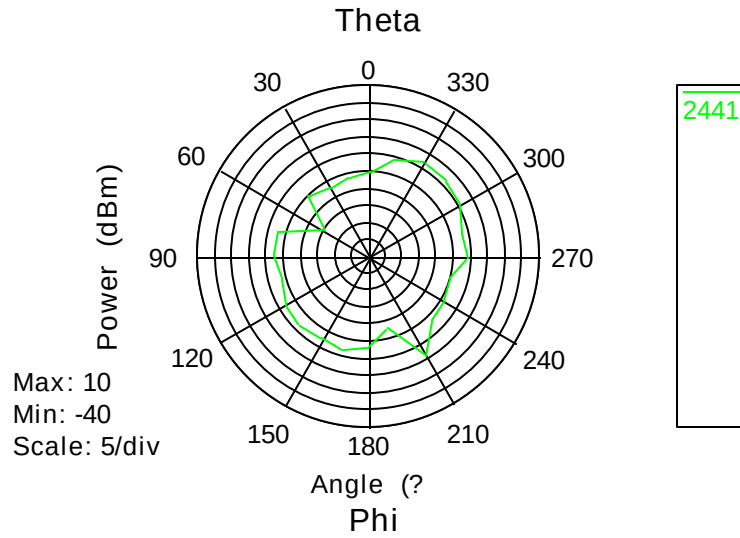
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Scale: 5/div



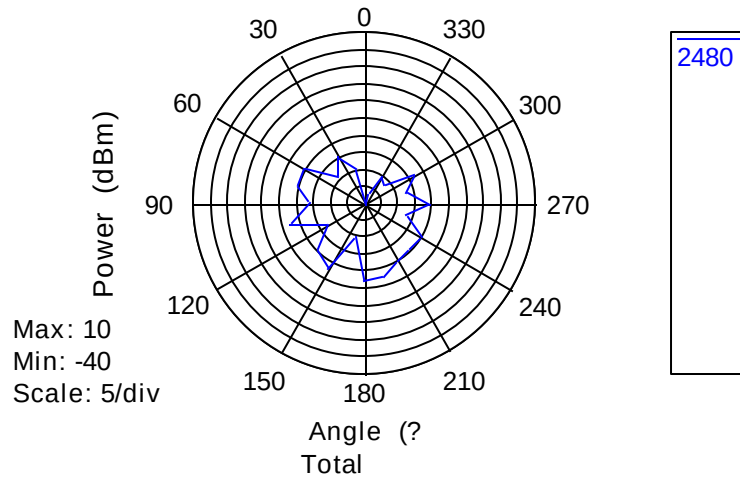
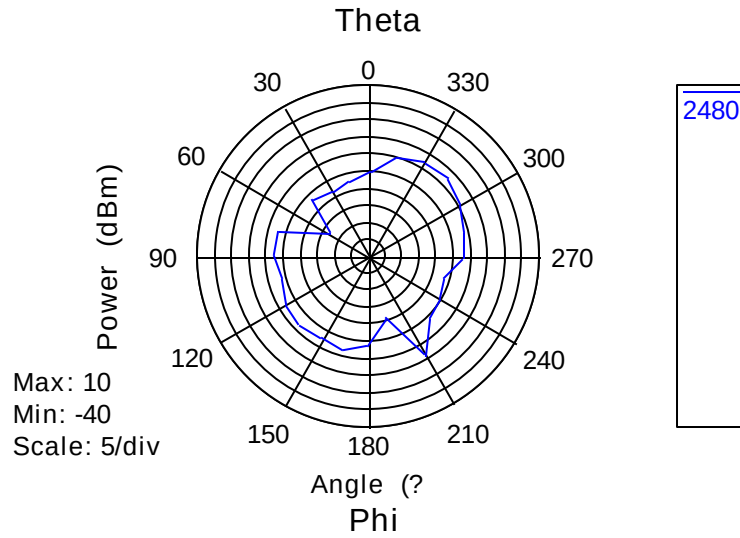
2D(X-Z Plane) RDA5875Y Antenna Gain Free Space-2480MHz



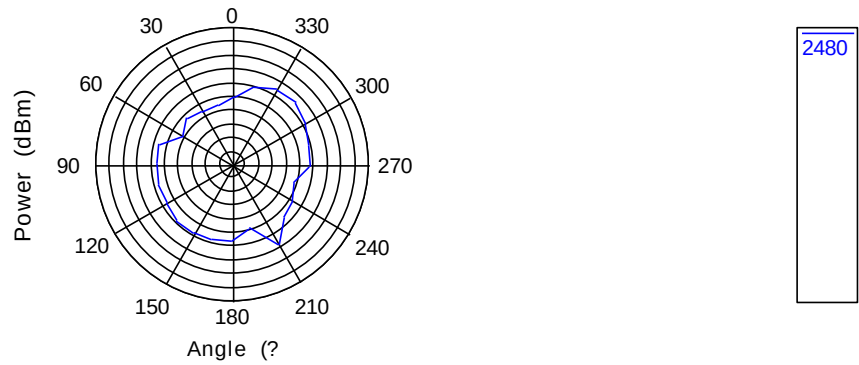
2D(Y-Z Plane) RDA5875Y Antenna Gain Free Space-2402MHz



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



Max: 10
Min: -40
Scale: 5/div

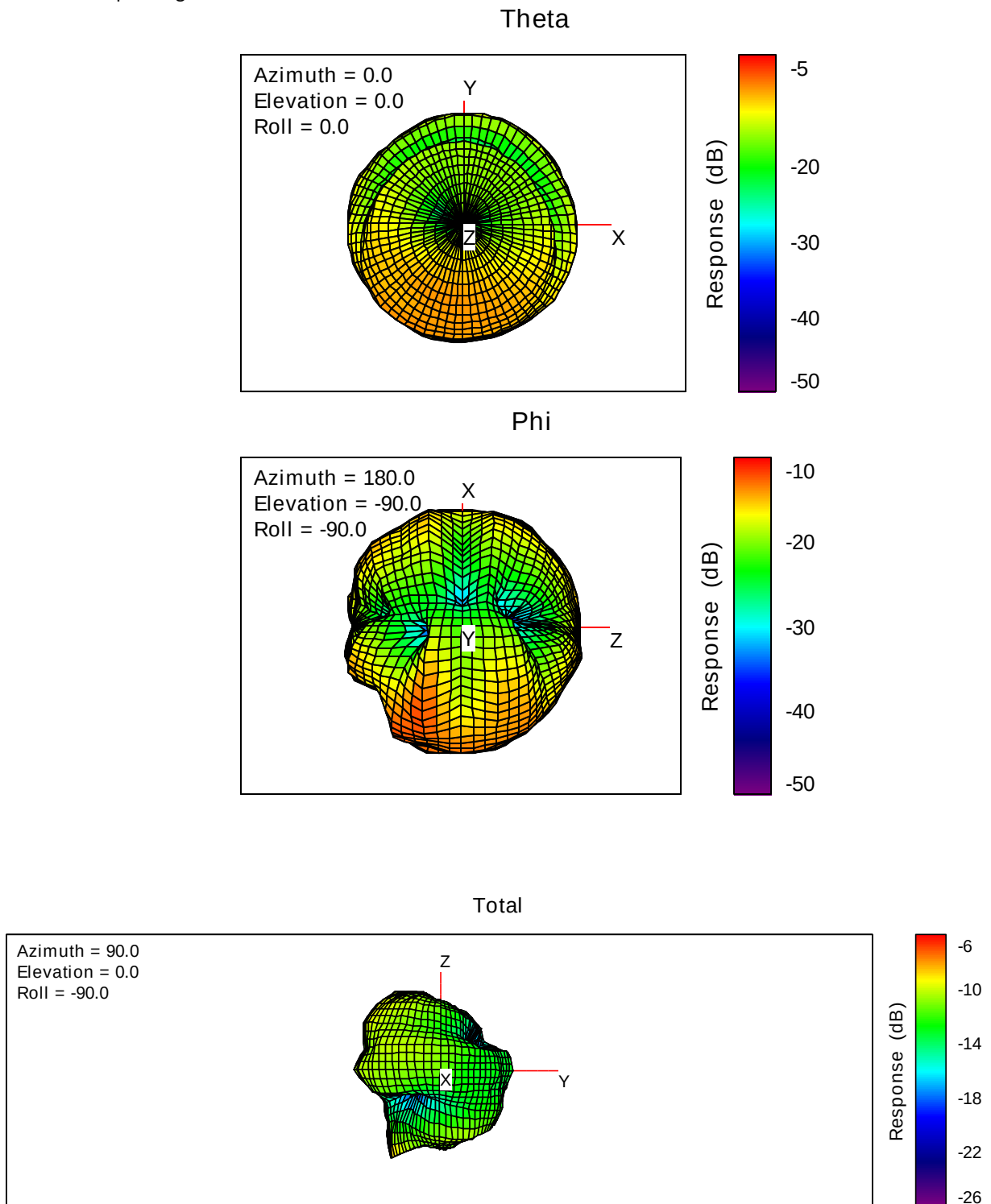


2D(Y-Z Plane) RDA5875Y Antenna Gain Free Space-2480MHz



5 3D TEST PLOTTING

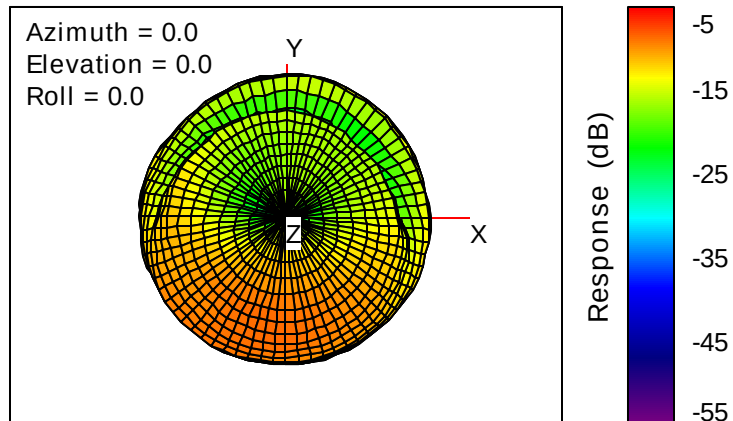
The test plotting was shown as below



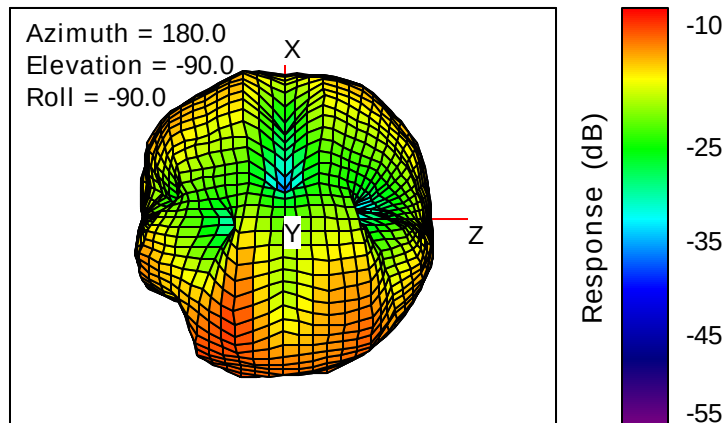
3D RDA5875Y Antenna Gain Free Space-2402MHz



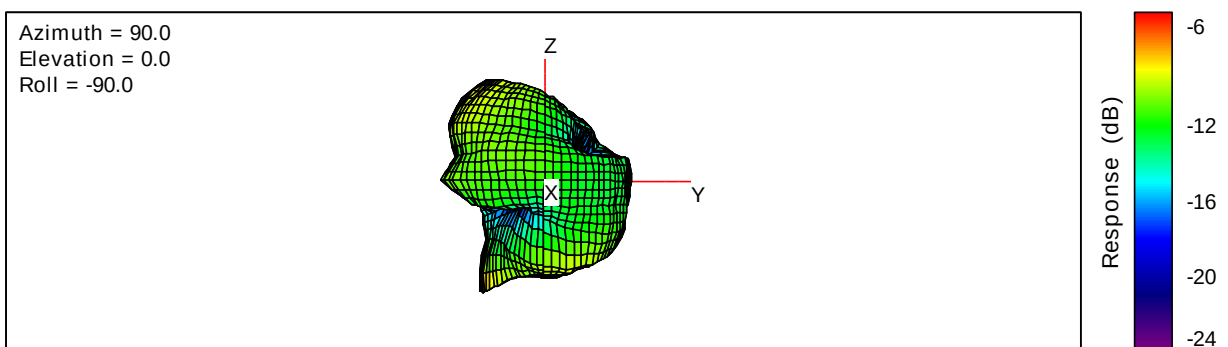
Theta



Phi



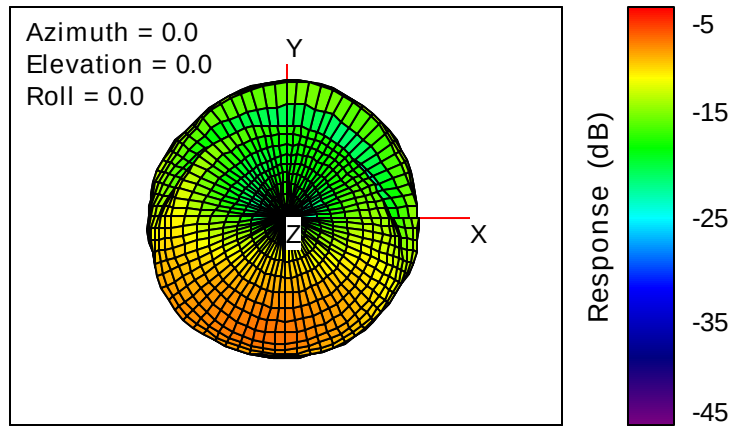
Total



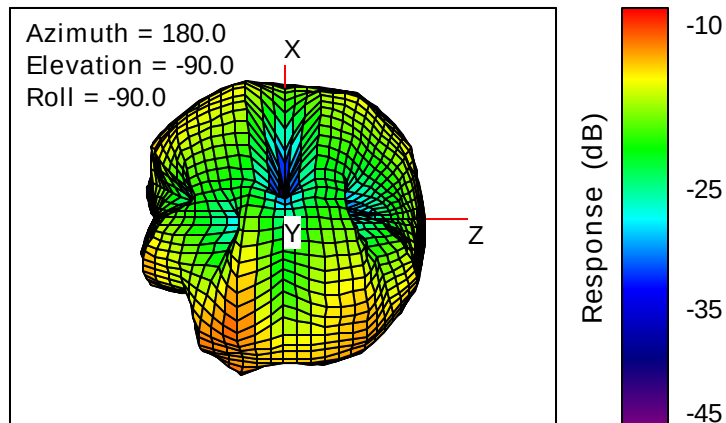
3D RDA5875Y Antenna Gain Free Space-2441MHz



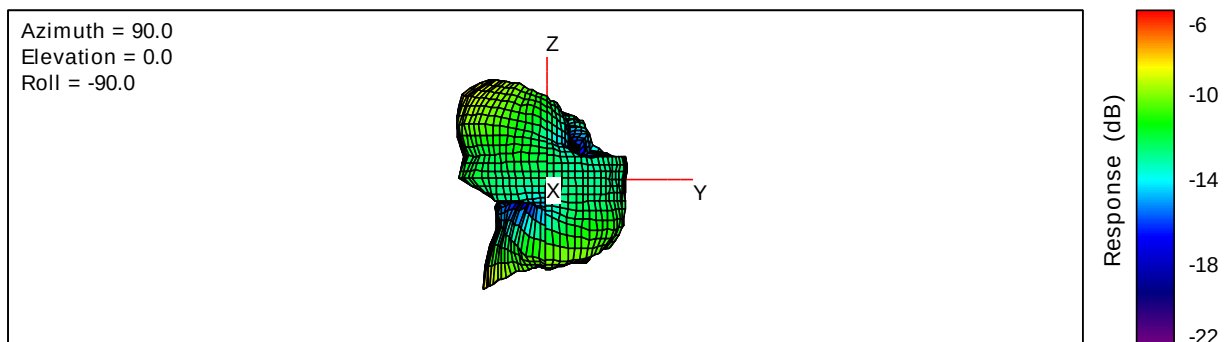
Theta



Phi



Total



3D RDA5875Y Antenna Gain Free Space-2480MHz