

Antenna Specification for USB WLAN

2011.09.23

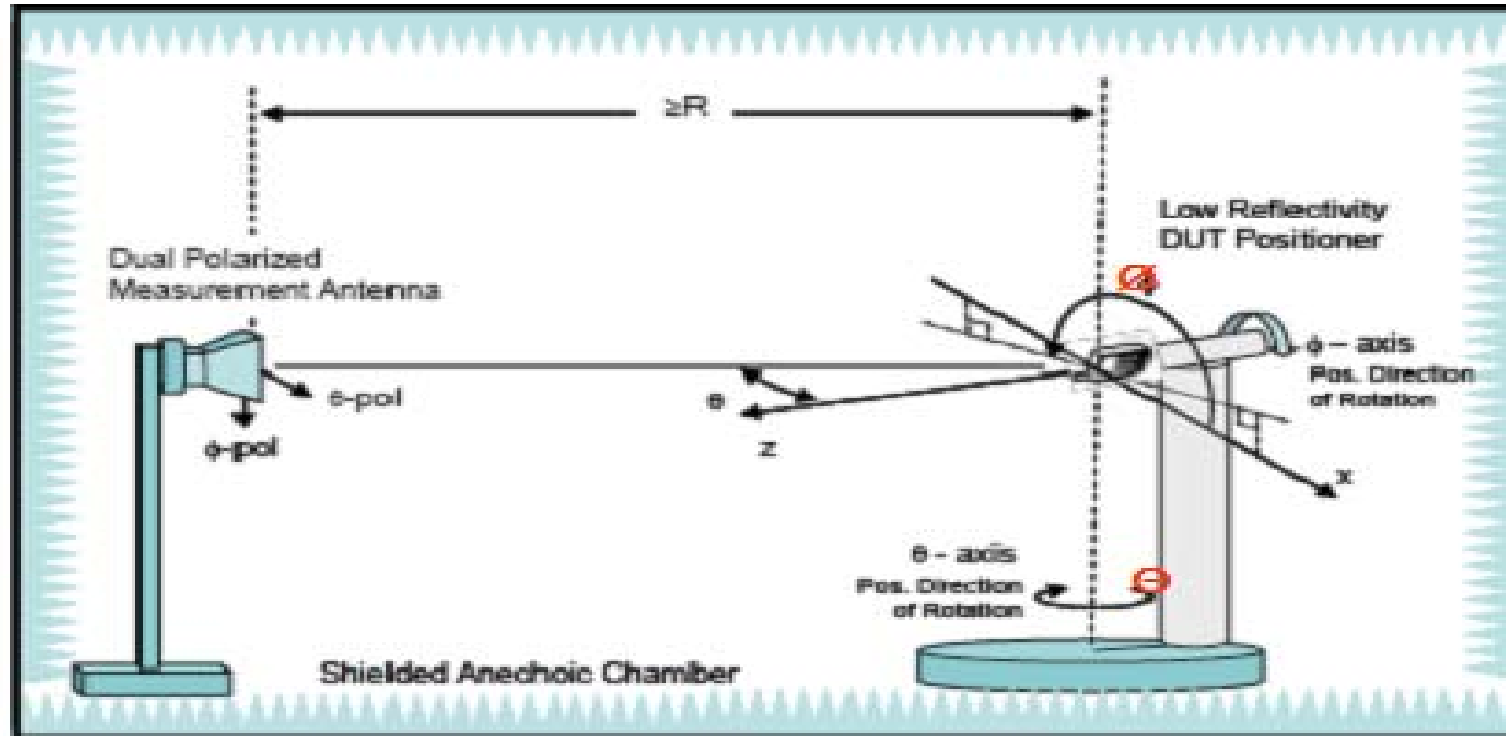


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Antenna Test Setup

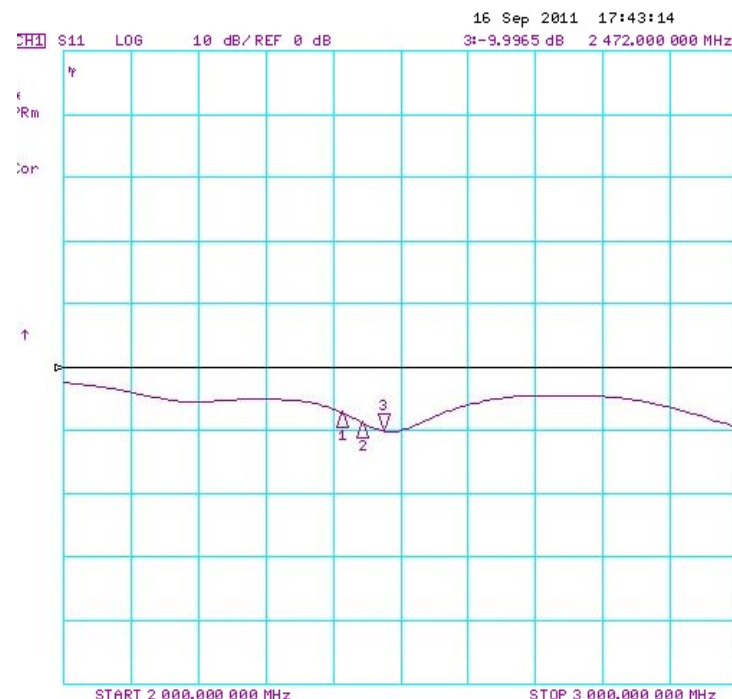
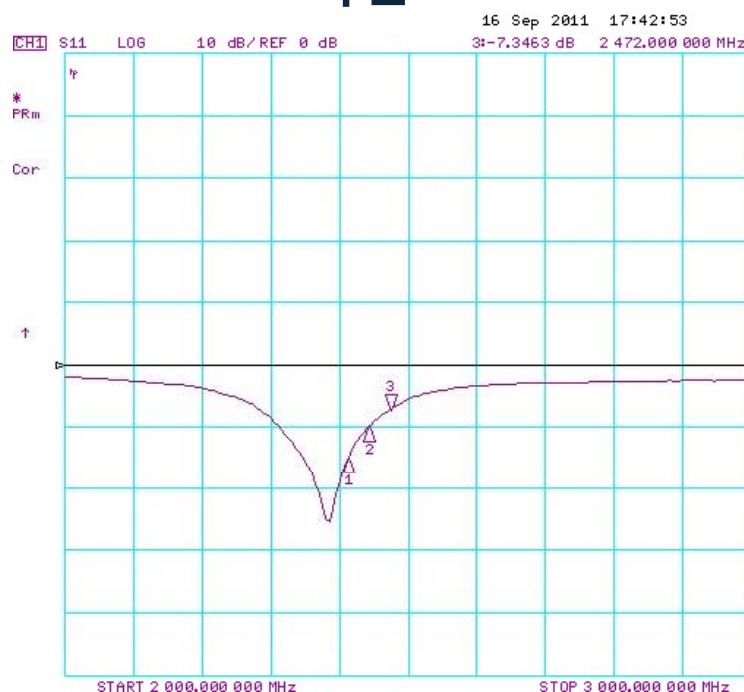
● Test Setup



The antenna measurements were used to the standards anechoic chamber. The chamber size is 7m x 4m x 4m and supports test frequencies from 700MHz to 6GHz.

Return Loss Measurement

Return Loss 사진



Main / Aux	Return Loss (S11)	Note
Main Antenna	-15.21dB @ 2412MHz -9.98dB @ 2442MHz -7.35dB @ 2472MHz	
Aux Antenna	-7.13dB @ 2412MHz -8.68dB @ 2442MHz -10.00dB @ 2472MHz	

Pattern Test Result

Antenna Gain Summary

✓ Main Antenna

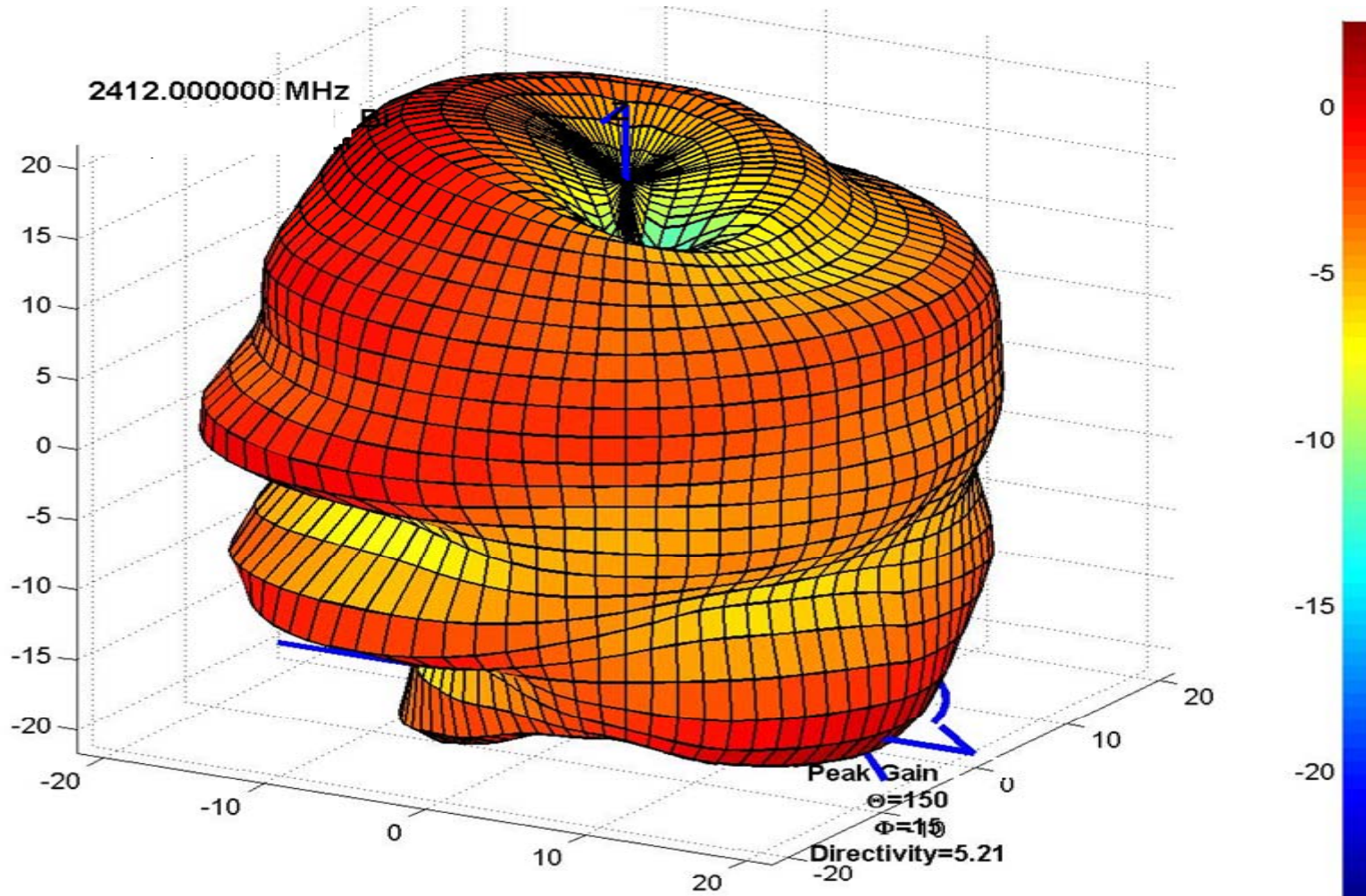
Freq.(MHz)	Vertical		Horizon	
	Peak Gain (dBi)	Average Gain (dBi)	Peak Gain (dBi)	Average Gain (dBi)
2412	1.77	-4.41	0.27	-7.42
2442	1.67	-4.22	-0.04	-7.89
2472	1.95	-3.60	-0.01	-7.64

✓ Aux Antenna

Freq.(MHz)	Vertical		Horizon	
	Peak Gain (dBi)	Average Gain (dBi)	Peak Gain (dBi)	Average Gain (dBi)
2412	-4.52	-10.18	-3.46	-8.68
2442	-2.69	-8.17	-1.54	-6.98
2472	-0.78	-6.35	-0.51	-5.37

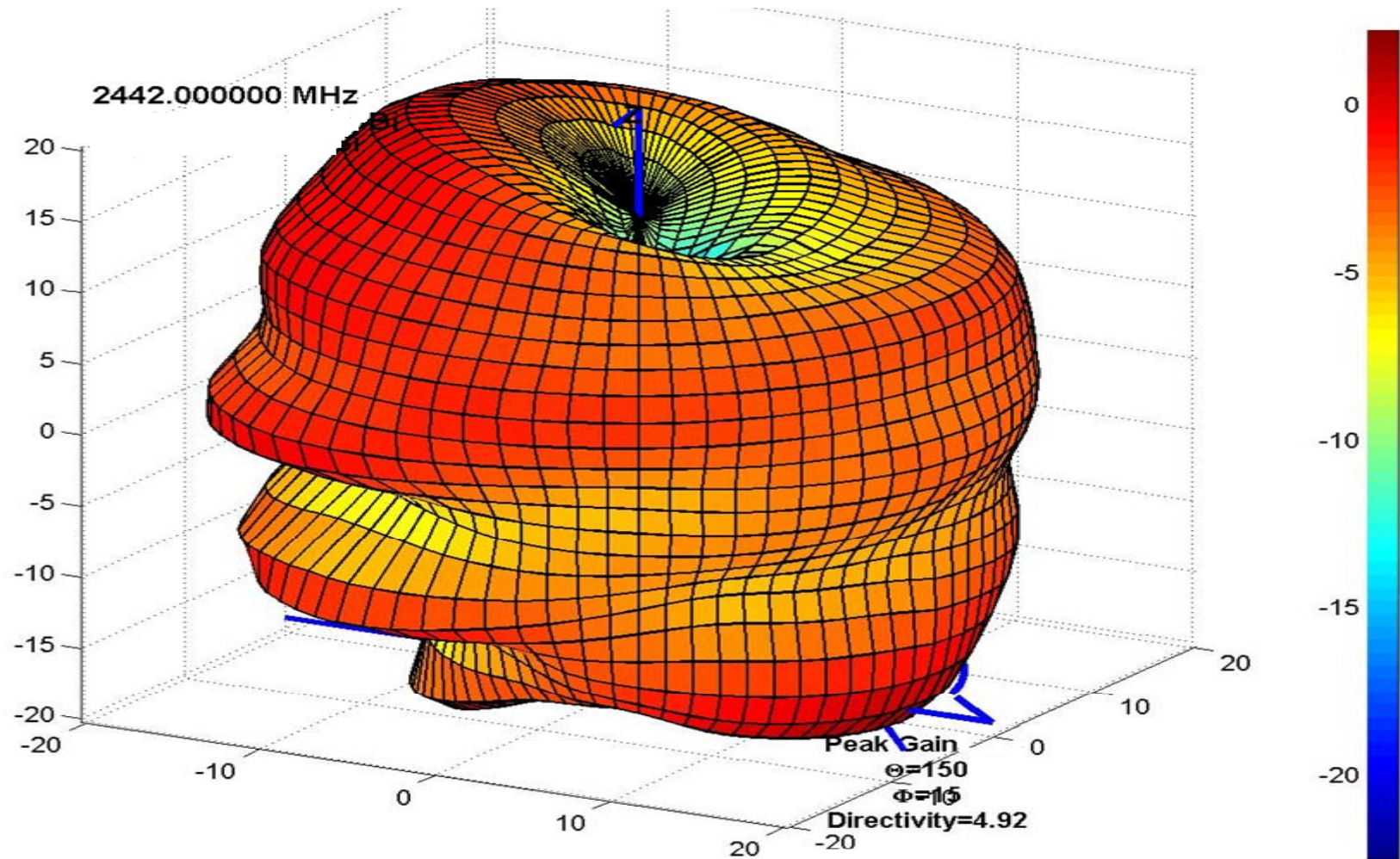
Main Antenna @ 2412MHz

3D Radiation Pattern



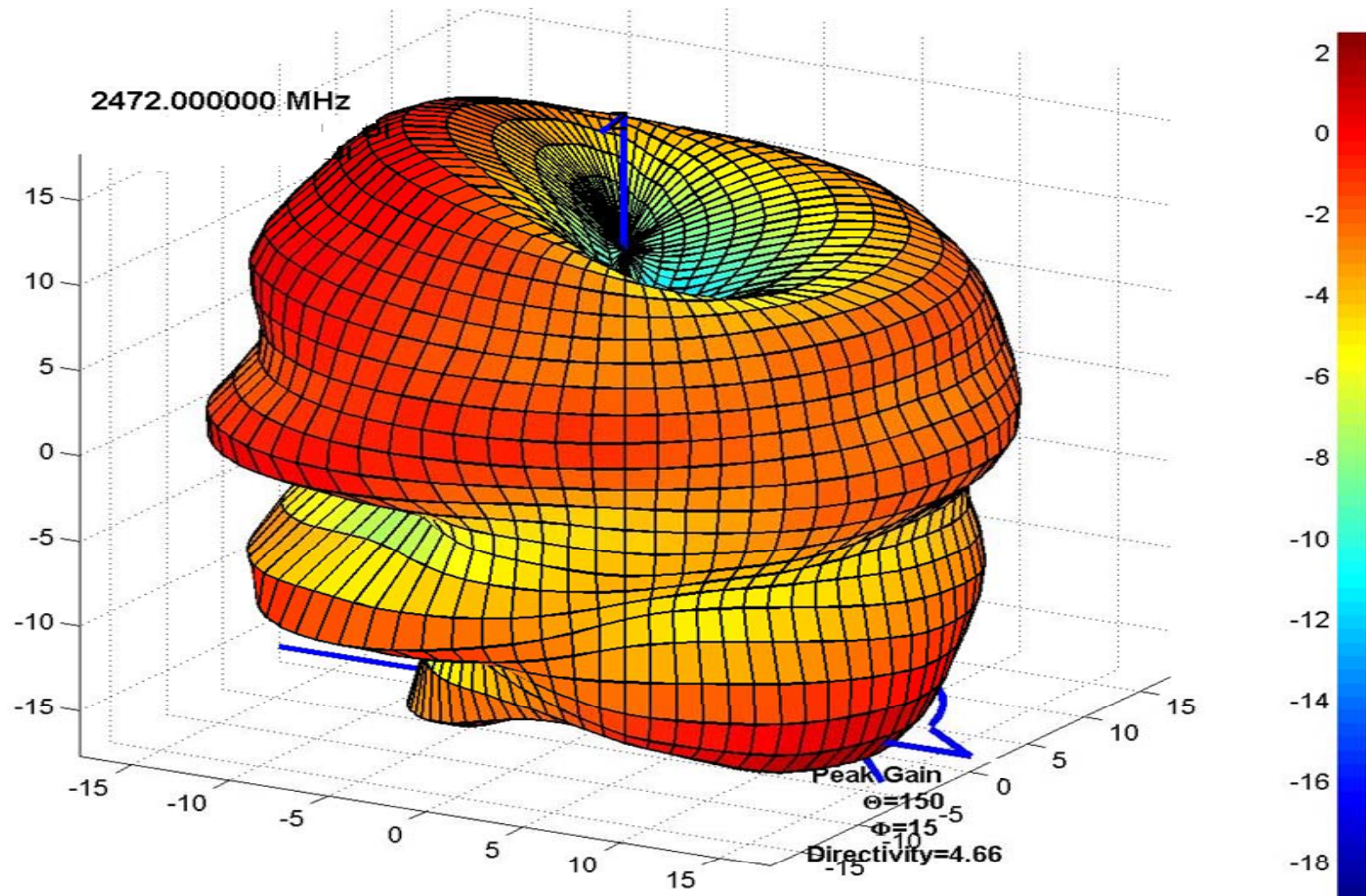
Main Antenna @ 2442MHz

3D Radiation Pattern



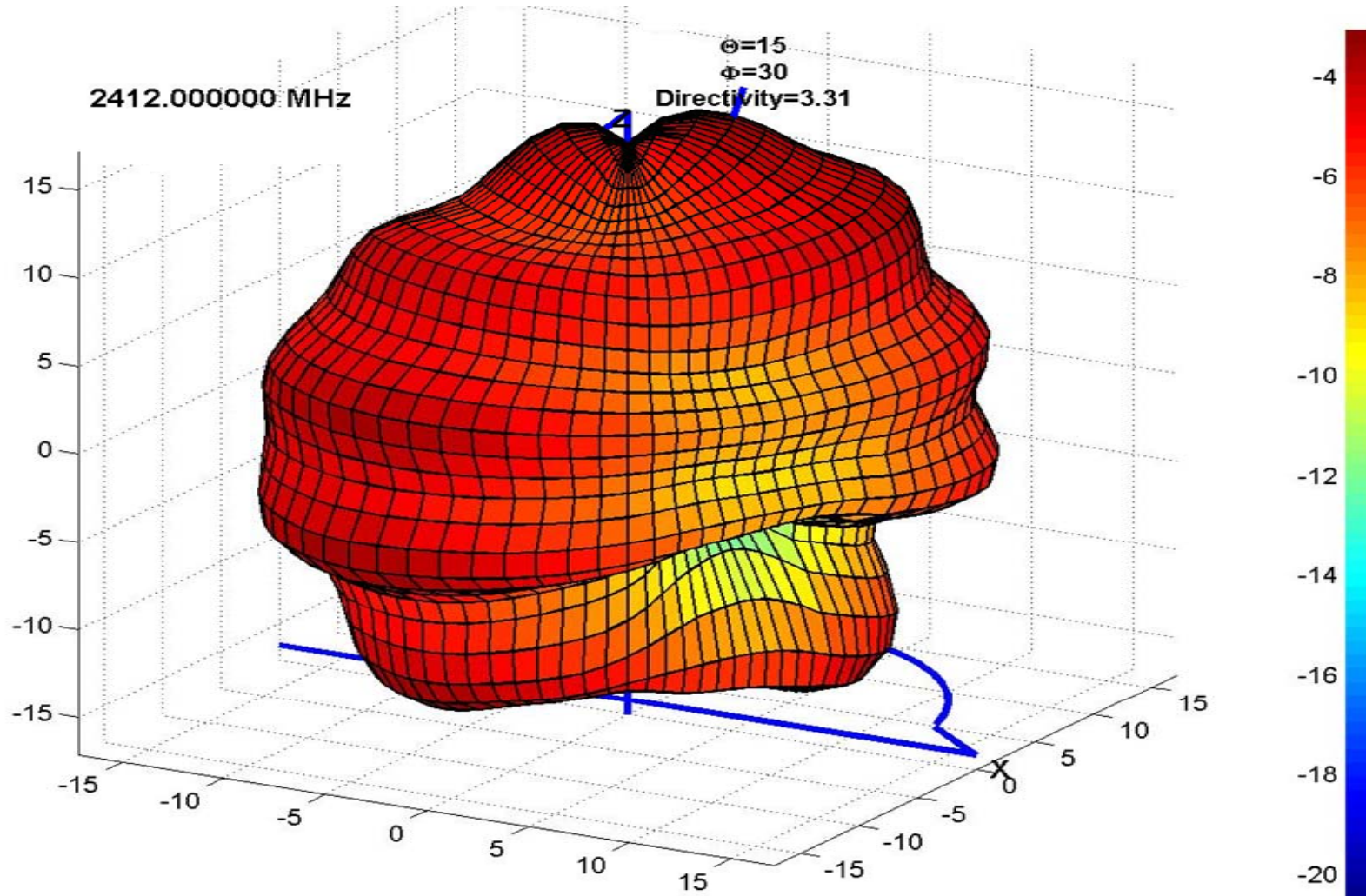
Main Antenna @ 2472MHz

3D Radiation Pattern



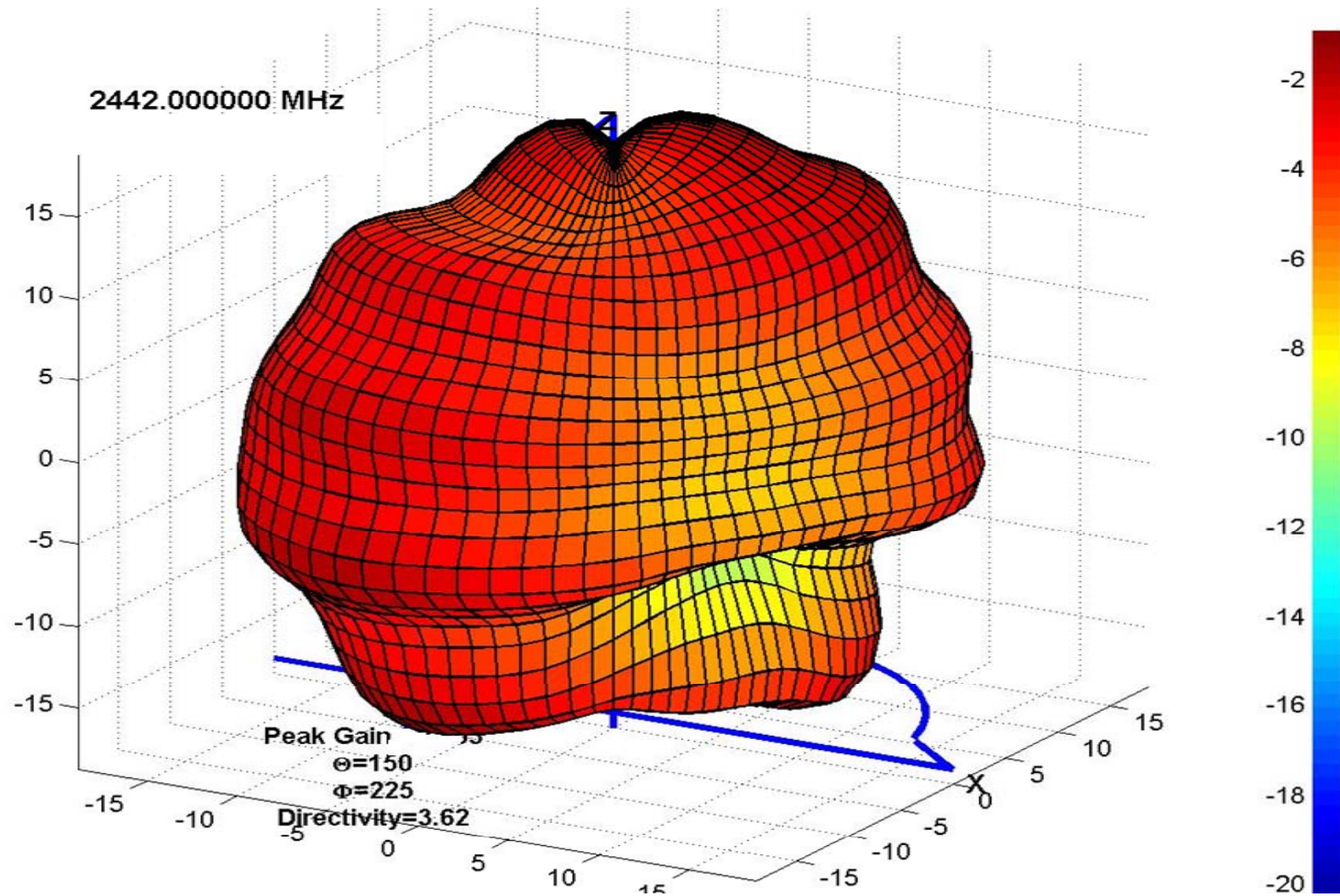
Aux Antenna @ 2412MHz

3D Radiation Pattern



Aux Antenna @ 2442MHz

3D Radiation Pattern



Aux Antenna @ 2472MHz

3D Radiation Pattern

