

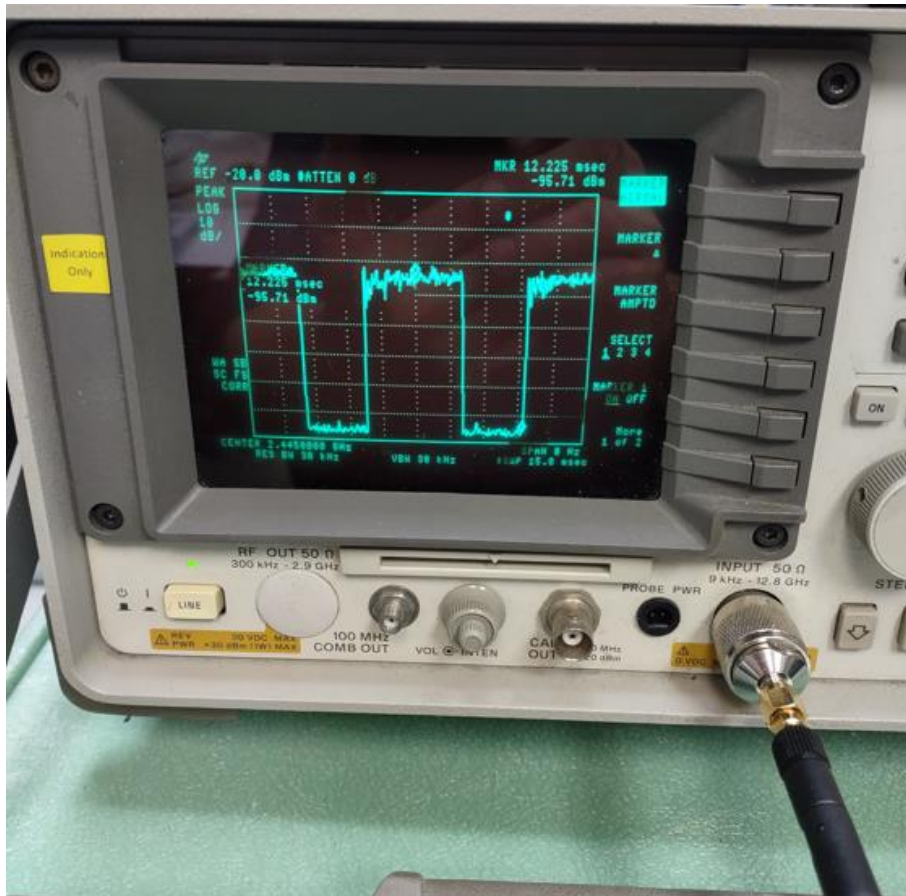


Controller	f (MHz)	TRP (dBm)	Maximum EIRP (dBi)	Set Power (dBm)	Efficiency (dB)	Gain (dBi)	Corrected Efficiency (dB)	Corrected Gain (dBi)
Foot	2405	-8.75	-3.28	-1.67	-7.08	-1.61	-5.00	0.47
	2445	-9.61	-4.04	-1.67	-7.94	-2.37	-5.86	-0.29
	2475	-12.39	-6.58	-1.67	-10.72	-4.91	-8.64	-2.83
Hand	2405	-8.75	-3.31	1.46	-10.21	-4.77	-8.13	-2.69
	2445	-9.78	-4.54	1.46	-11.24	-6.00	-9.16	-3.92
	2475	-10.44	-5.25	1.46	-11.90	-6.71	-9.82	-4.63

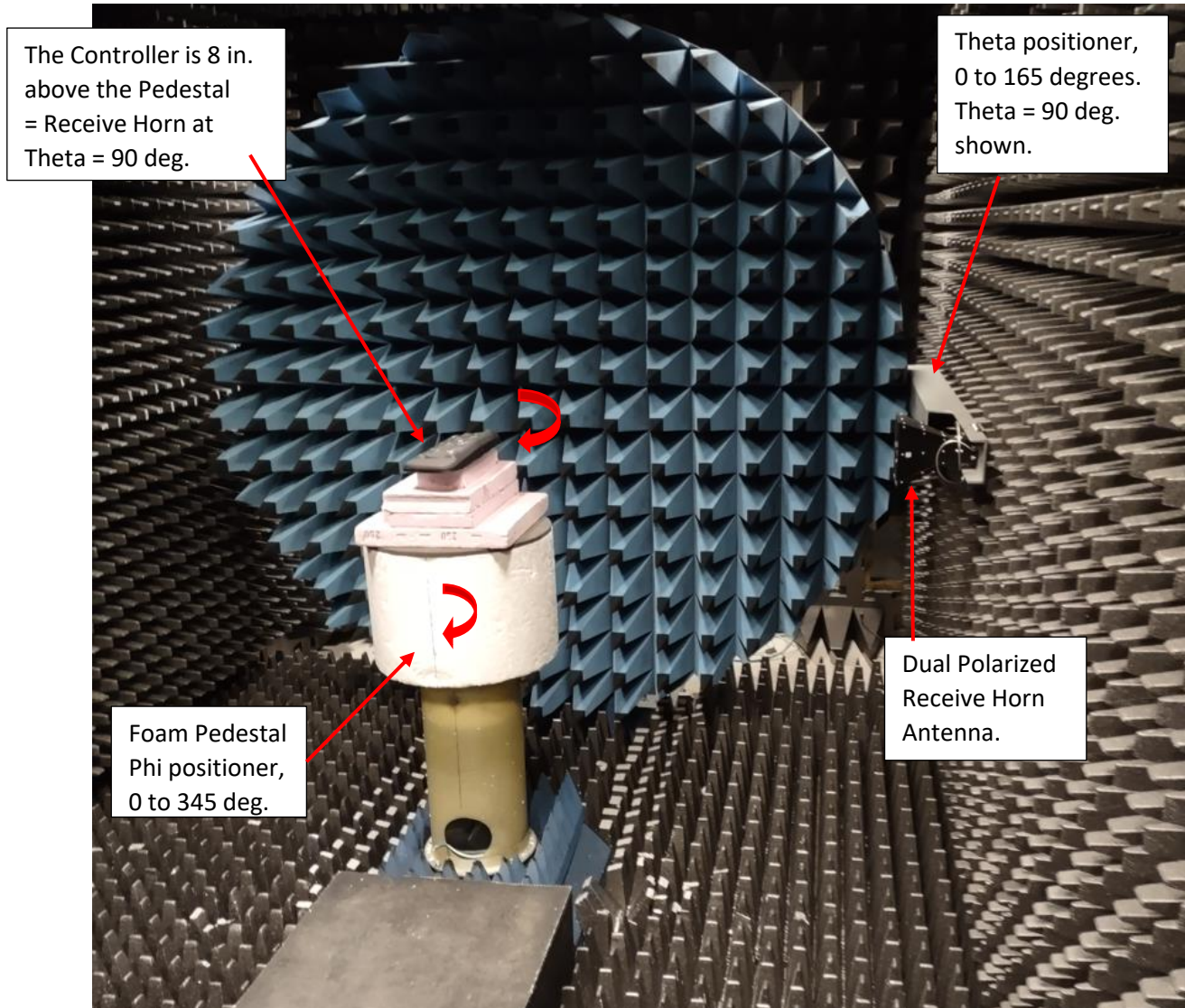
TERMS:

TRP (dBm)	Total Radiated Power.
dBm	dB above a mW.
EIRP (dBi)	Equivalent Isotropic Radiated Power.
dBi	dB above an Isotropic (Ideal) Radiator.
Set Power (mW)	Hand Controller = 1.4, Foot Controller = -1.67.
Set Power (dBm)	= $10 \log_{10}(\text{Set Power})$.
Duty Cycle	Approximately 62%, measured in Span = 0 Mode.
Correction (dB)	= $-10 \log_{10}(0.62) = 2.08$

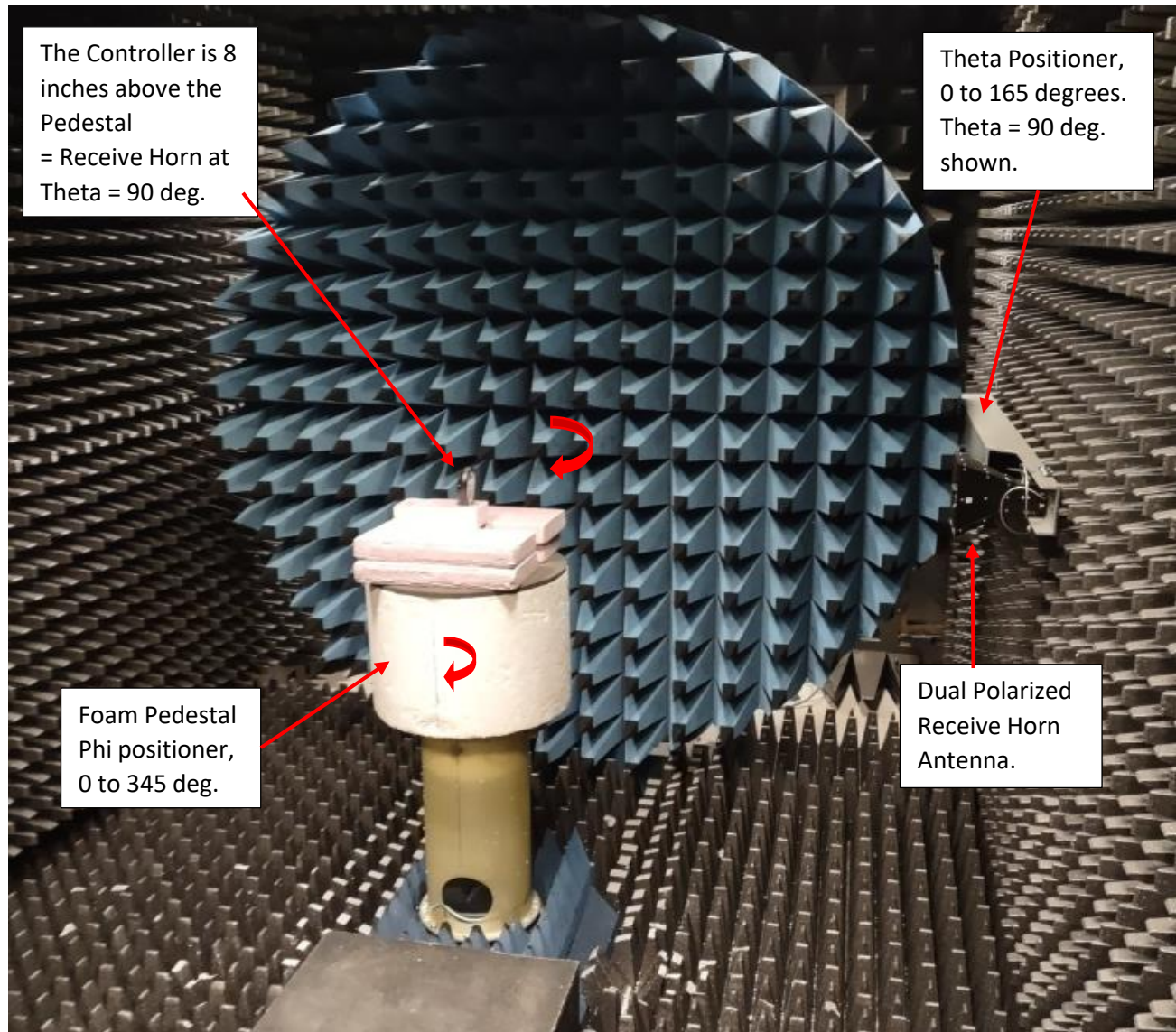
DUTY CYCLE $\approx 62\%$



An Anechoic Antenna chamber using the Howland 3100 Dual Positioner System was used. The Theta positioner rotates from 0 to 165 degrees in 15 degree increments. For each value of Theta, the Phi positioner rotates from 0 to 345 degrees.



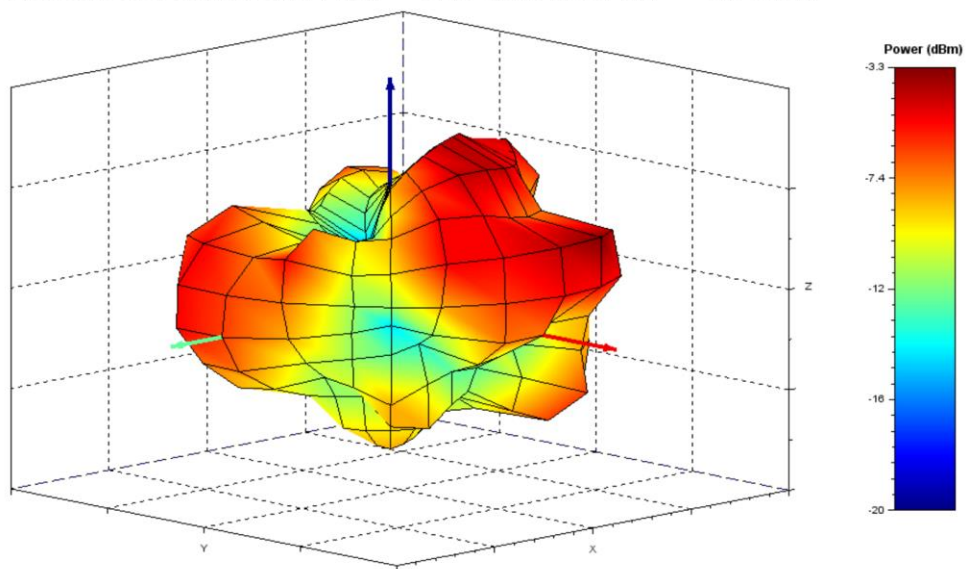
An Anechoic Antenna chamber using the Howland 3100 Dual Positioner System was used. The Theta positioner rotates from 0 to 165 degrees in 15 degree increments. For each value of Theta, the Phi positioner rotates from 0 to 345 degrees.



x-axis = Green
y-axis = Red
z-axis = Blue

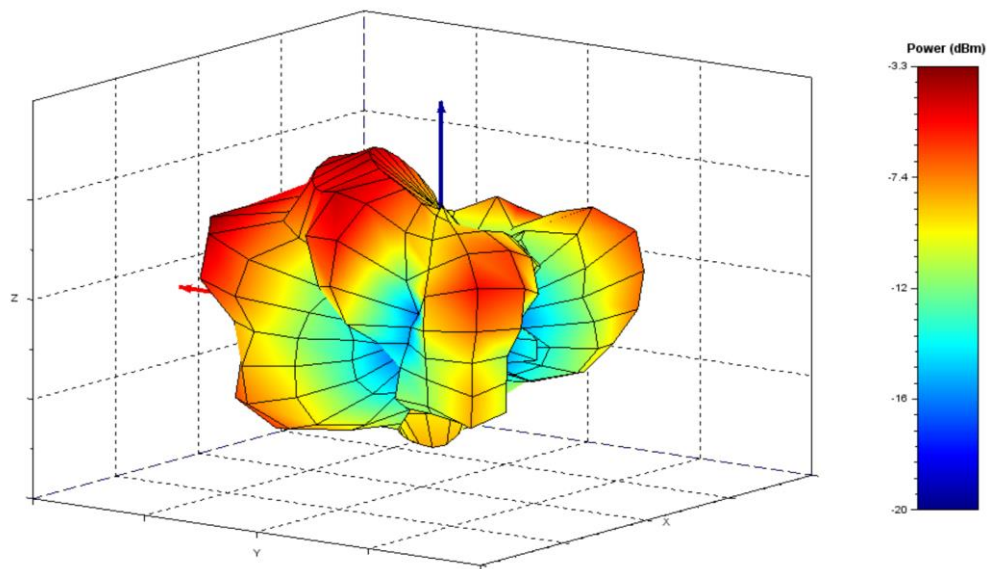


Radiated Power at 2405 MHz, TRP = -8.75 dBm, Max EIRP = -3.28 dBm



z-axis rotated:

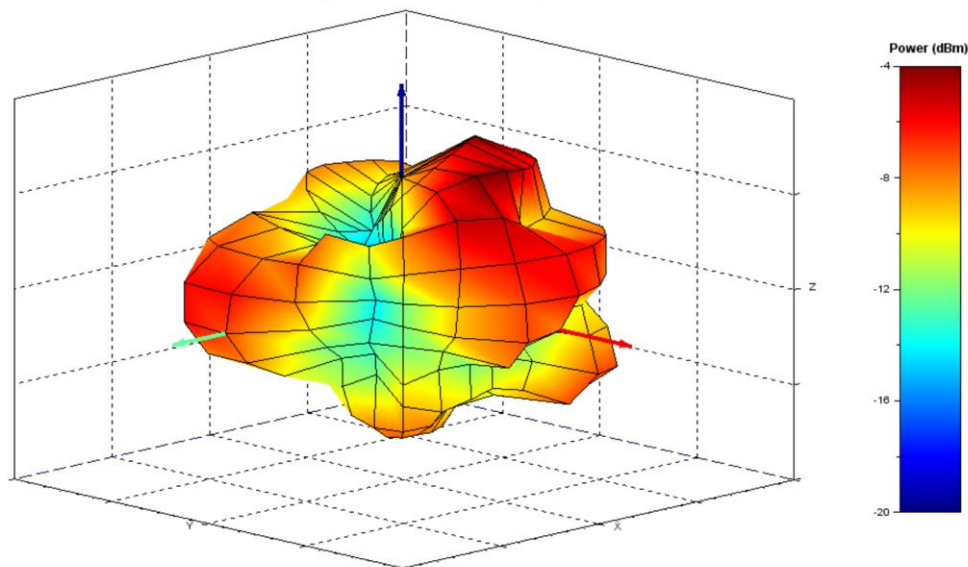
Radiated Power at 2405 MHz, TRP = -8.75 dBm, Max EIRP = -3.28 dBm



x-axis = Green
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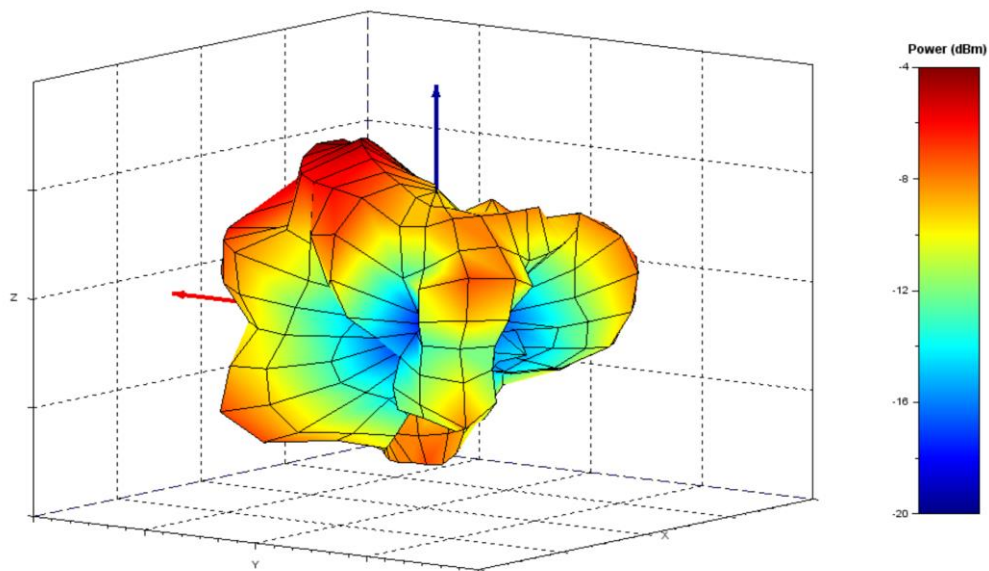


Radiated Power at 2445 MHz, TRP = -9.61 dBm, Max EIRP = -4.04 dBm



z-axis rotated:

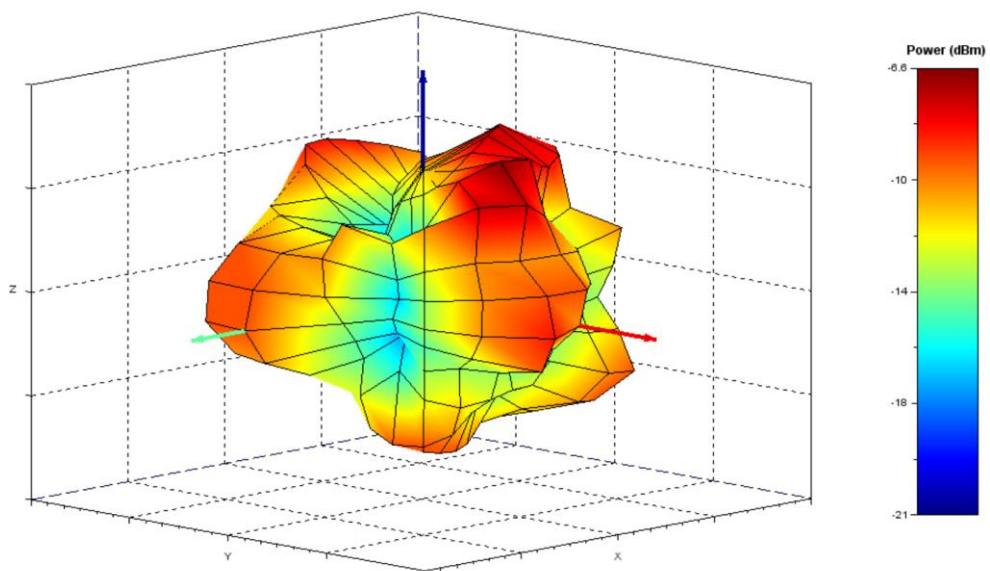
Radiated Power at 2445 MHz, TRP = -9.61 dBm, Max EIRP = -4.04 dBm



x-axis = Green
y-axis = Red
z-axis = Blue

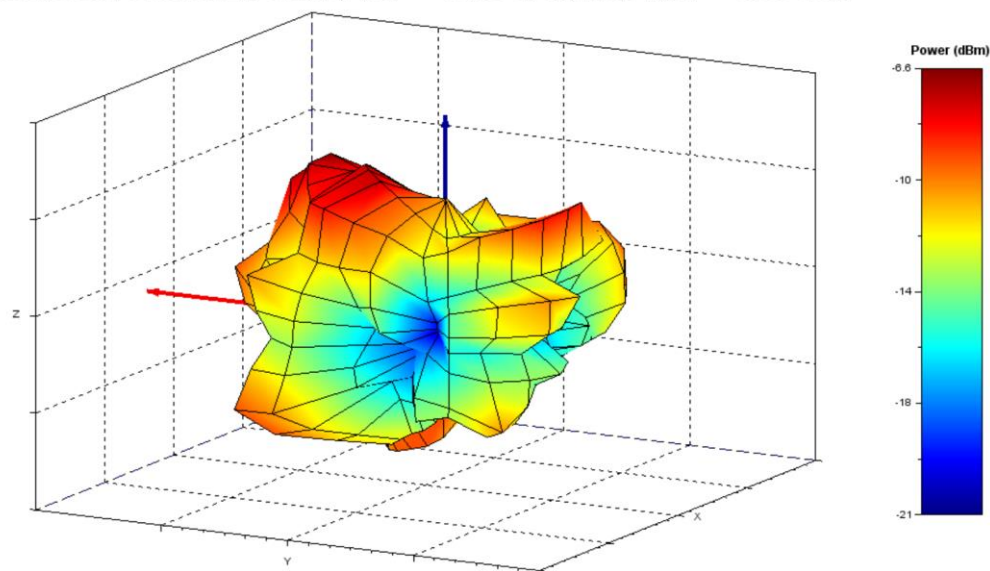


Radiated Power at 2475 MHz, TRP = -12.39 dBm, Max EIRP = -6.58 dBm



z-axis rotated:

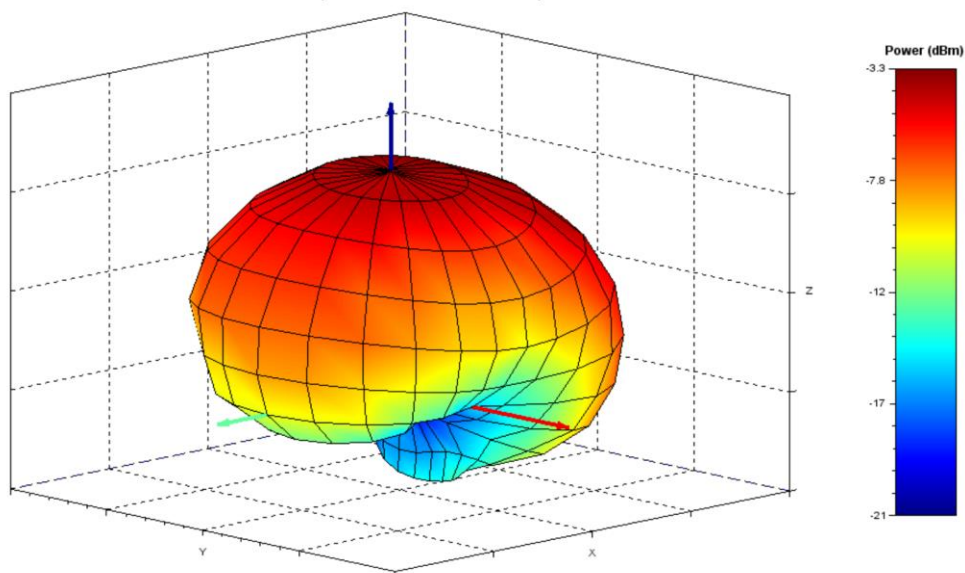
Radiated Power at 2475 MHz, TRP = -12.39 dBm, Max EIRP = -6.58 dBm



x-axis = Green
y-axis = Red
z-axis = Blue

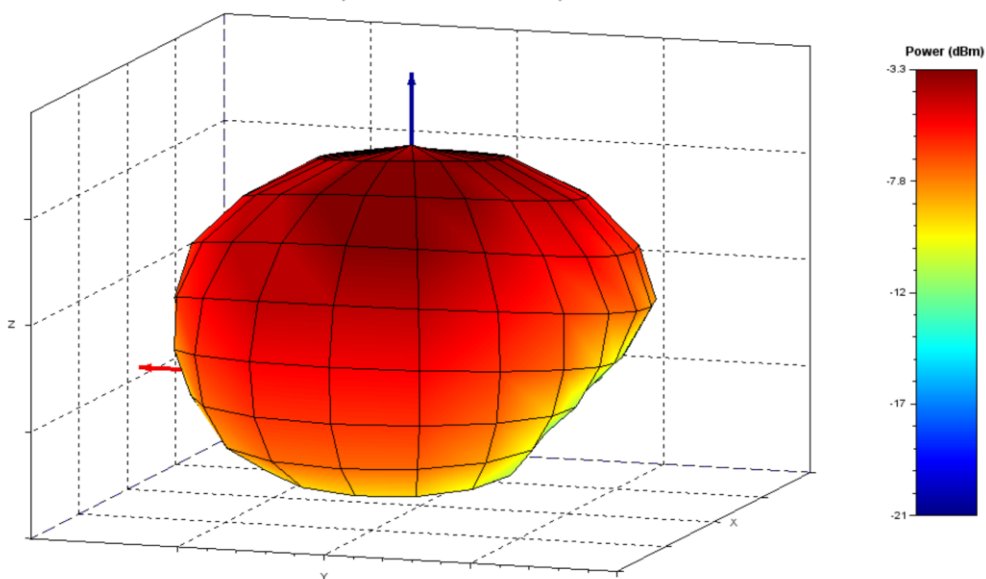


Radiated Power at 2405 MHz, TRP = -8.75 dBm, Max EIRP = -3.31 dBm

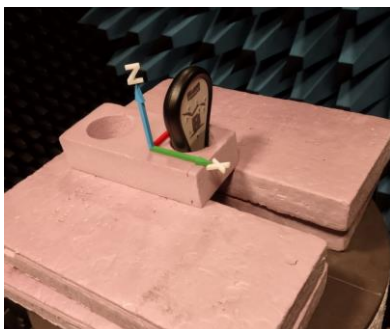


z-axis rotated:

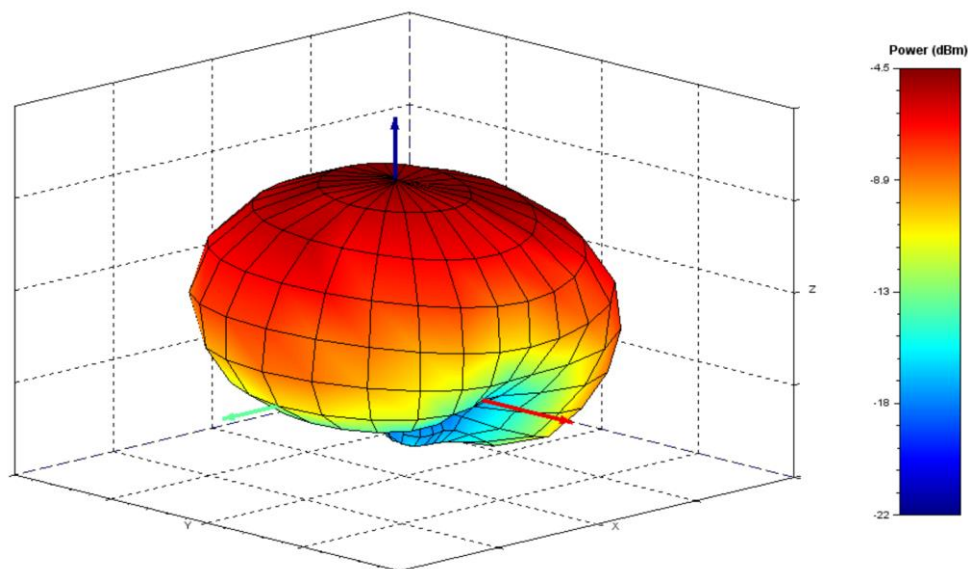
Radiated Power at 2405 MHz, TRP = -8.75 dBm, Max EIRP = -3.31 dBm



x-axis = Green
y-axis = Red
z-axis = Blue

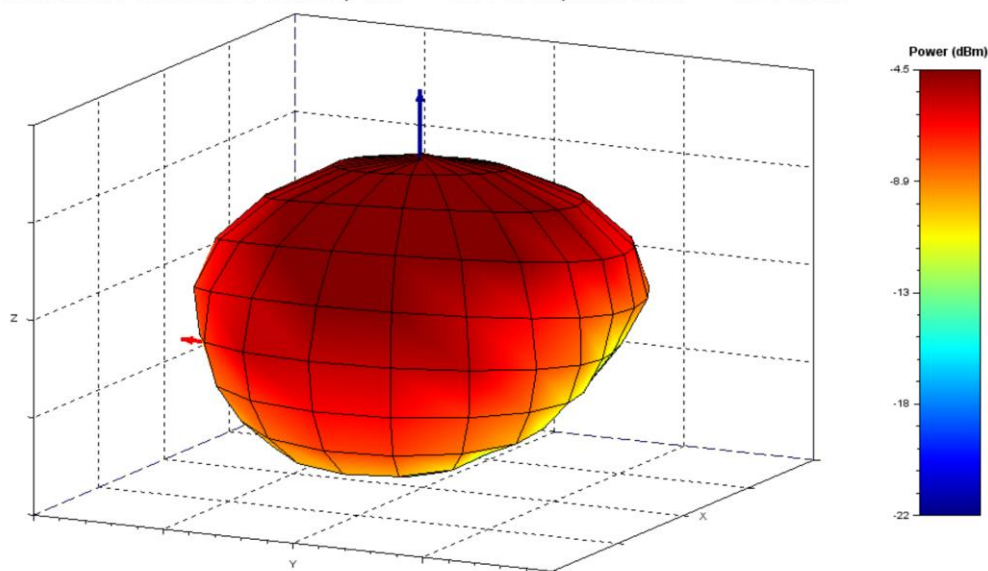


Radiated Power at 2445 MHz, TRP = -9.78 dBm, Max EIRP = -4.54 dBm



z-axis rotated:

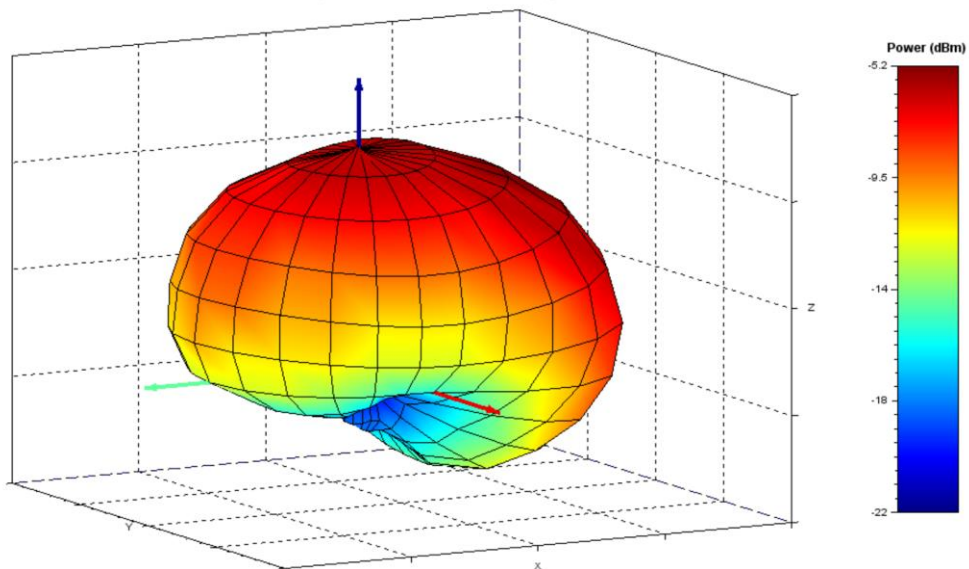
Radiated Power at 2445 MHz, TRP = -9.78 dBm, Max EIRP = -4.54 dBm



x-axis = Green
y-axis = Red
z-axis = Blue



Radiated Power at 2475 MHz, TRP = -10.44 dBm, Max EIRP = -5.25 dBm



z-axis rotated:

Radiated Power at 2475 MHz, TRP = -10.44 dBm, Max EIRP = -5.25 dBm

