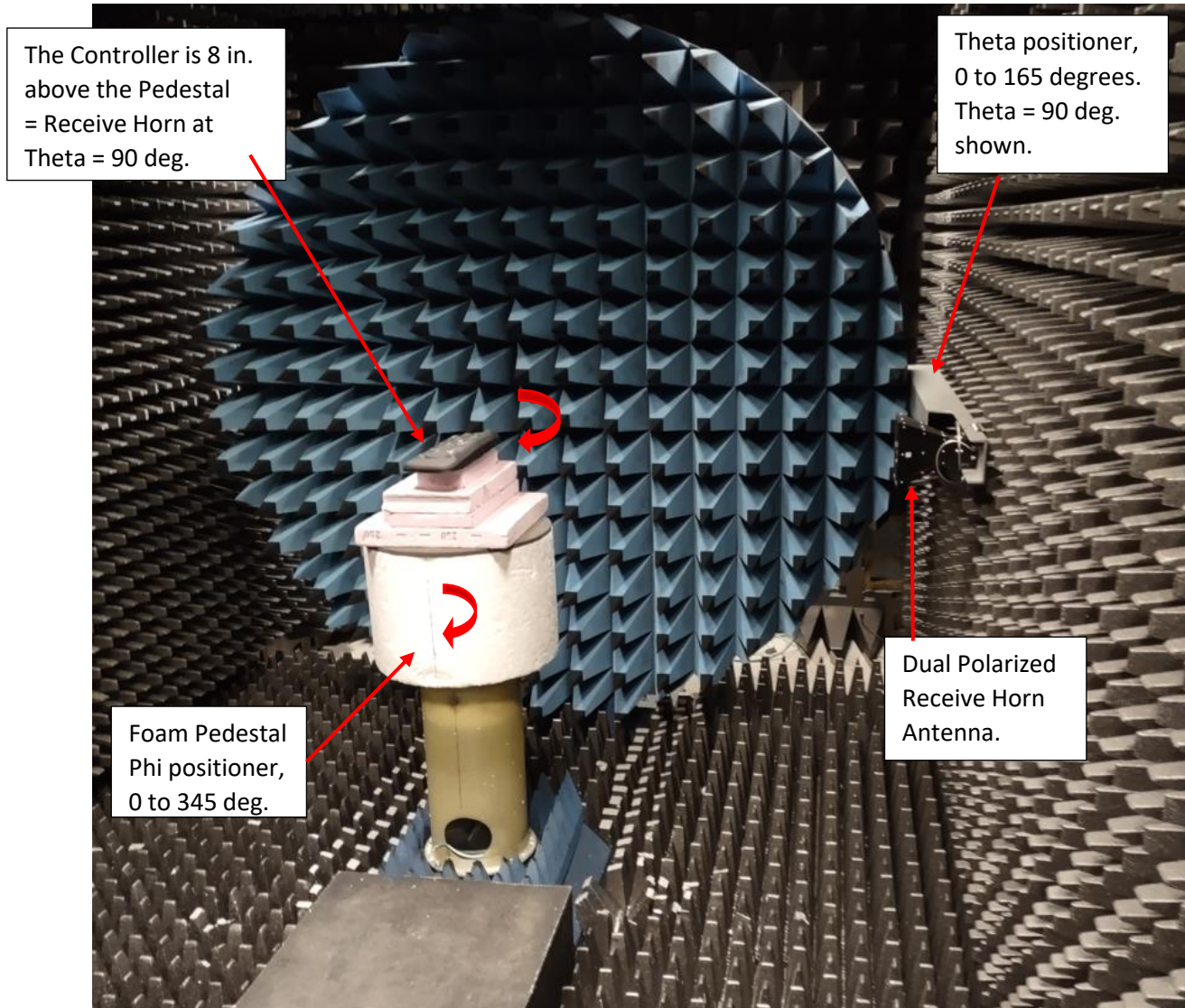| Controller	f (MHz)	TRP (dBm)	Maximum EIRP (dBi)	Set Power (dBm)	Efficiency (dB)	Gain (dBi)	Corrected Efficiency (dB)	Corrected Gain (dBi)
Foot	2405	-8.75	-3.28	-1.67	-7.08	-1.61	-5.00	0.47
	2445	-9.61	-4.04	-1.67	-7.94	-2.37	-5.86	-0.29
	2475	-12.39	-6.58	-1.67	-10.72	-4.91	-8.64	-2.83
Hand	2405	-8.75	-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:

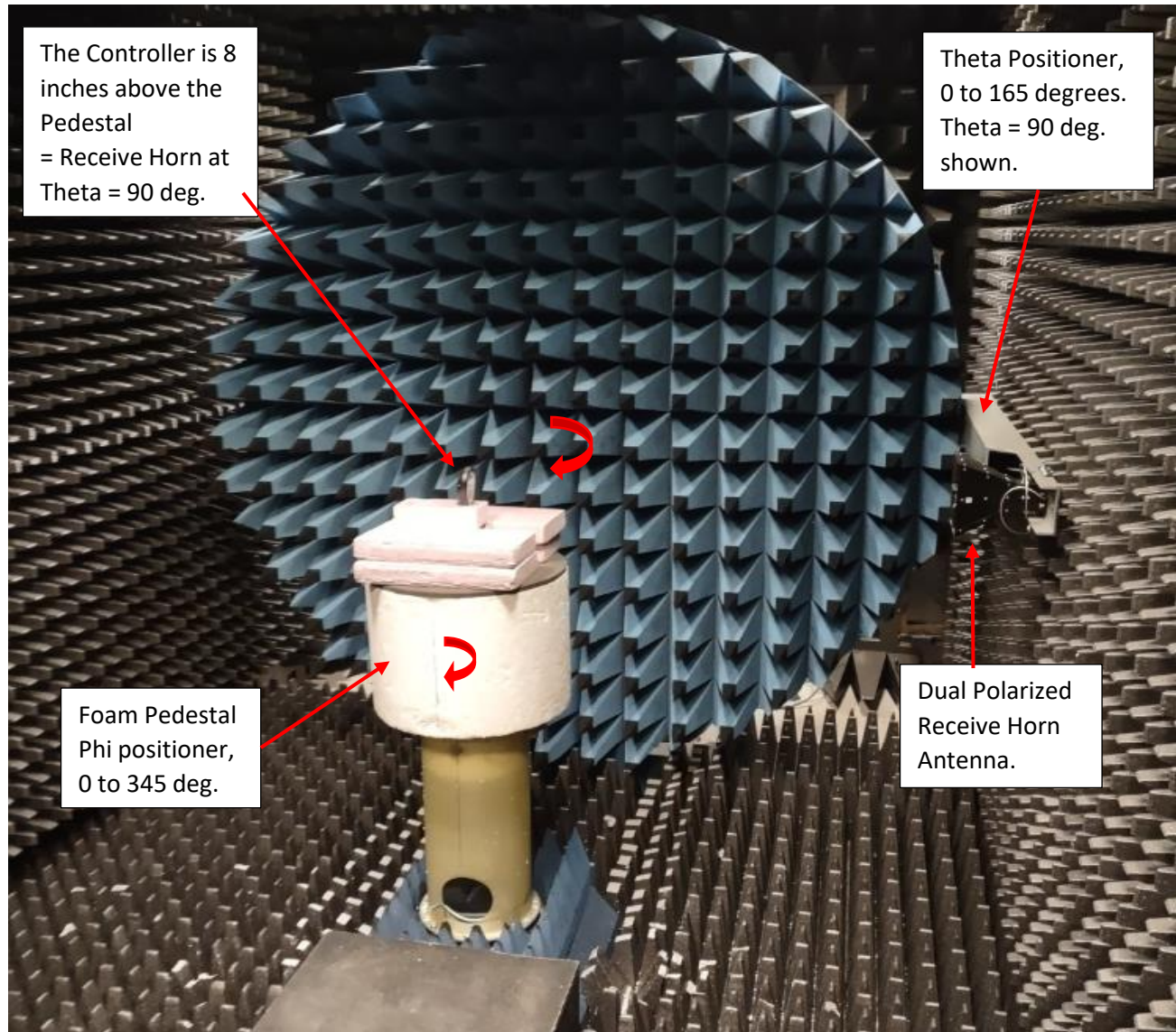|	
TRP (dBm)	Total Radiated Power.
dBm	dB above a mW.
EIRP (dBi)	Equivalent Isotropic Radiated Power.
dBi	dB above an Isotropic (Ideal) Radiator.
Set Power (mW)	Hand Controller = 1.4, Foot Controller = -1.67.
Set Power (dBm)	= 10 log10 (Set Power).
Duty Cycle	Approximately 62%, measured in Span = 0 Mode.
Correction (dB)	= -10 log10 (0.62) = 2.08

DUTY CYCLE ≈ 62%
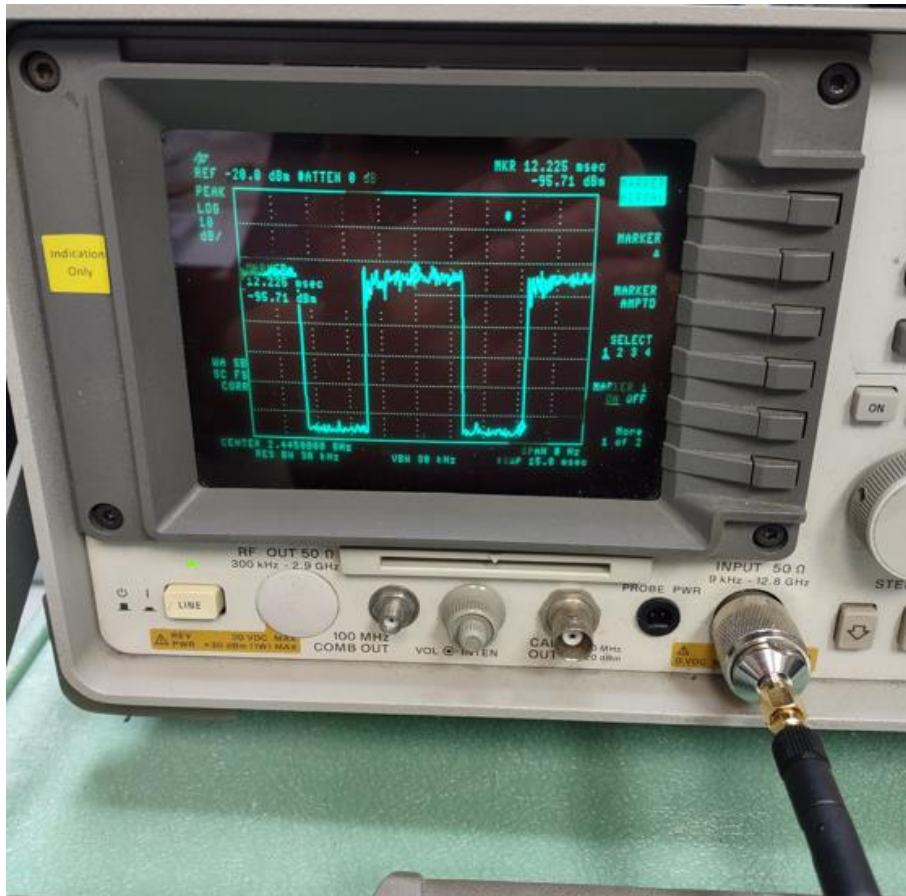
An Anechoic Antenna chamber using the Howland 3100 Dual Positioner System was used. The Theta positioner rotates from 0 to 165 degrees in 15 degree increments. For each value of Theta, the Phi positioner rotates from 0 to 345 degrees.

The Controller is 8 in. above the Pedestal = Receive Horn at Theta = 90 deg.

Theta positioner, 0 to 165 degrees. Theta = 90 deg. shown.

Dual Polarized Receive Horn Antenna.

Foam Pedestal Phi positioner, 0 to 345 deg.

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.

The Controller is 8 inches above the Pedestal = Receive Horn at Theta = 90 deg.

Theta Positioner, 0 to 165 degrees. Theta = 90 deg. shown.

Foam Pedestal Phi positioner, 0 to 345 deg.

Dual Polarized Receive Horn Antenna.

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

Radiated Power at 2405 MHz, TRP = -8.75 dBm, Max EIRP = -3.28 dBm
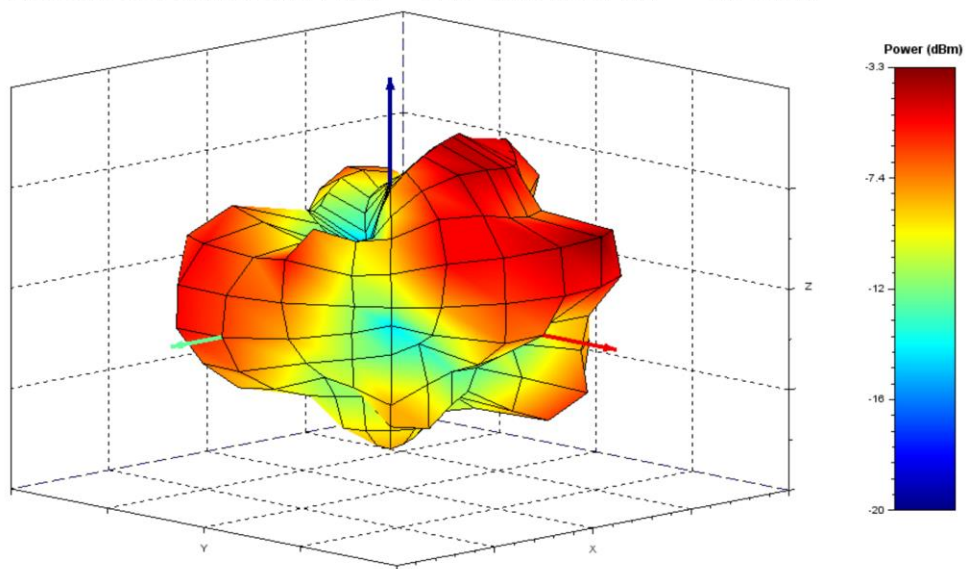
z-axis rotated:

Radiated Power at 2405 MHz, TRP = -8.75 dBm, Max EIRP = -3.28 dBm
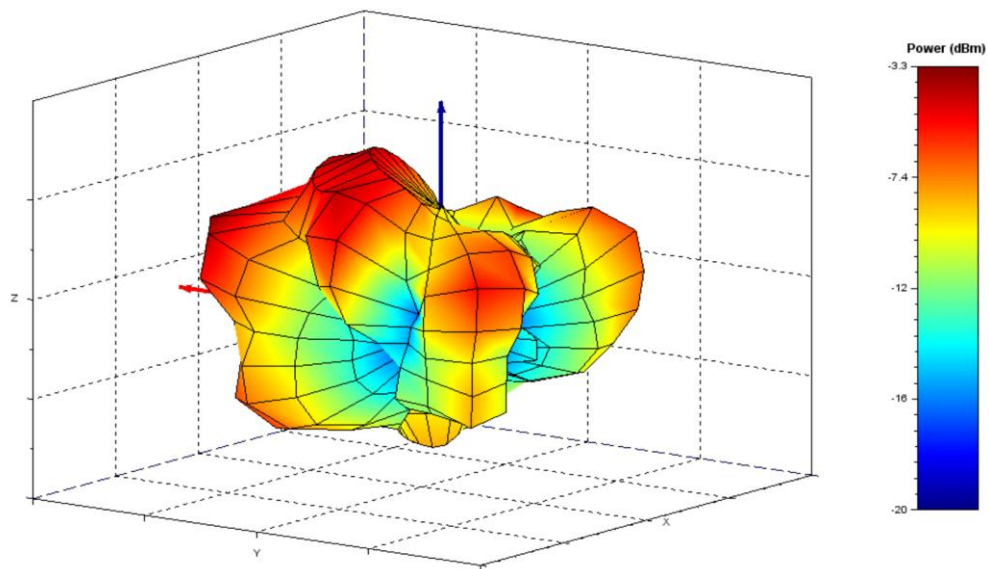
x-axis = Green
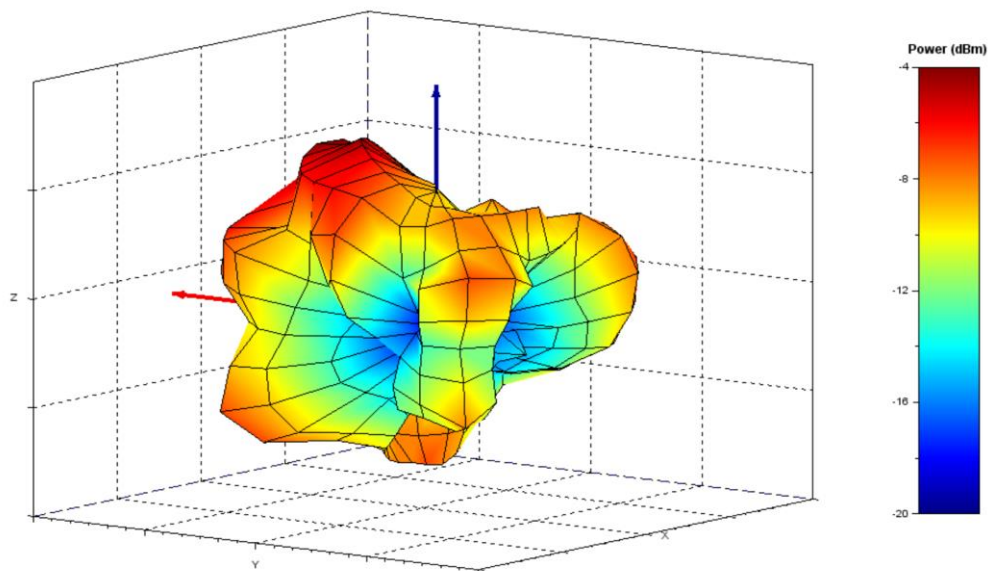y-axis = Red
z-axis = Blue

Radiated Power at 2445 MHz, TRP = -9.61 dBm, Max EIRP = -4.04 dBm
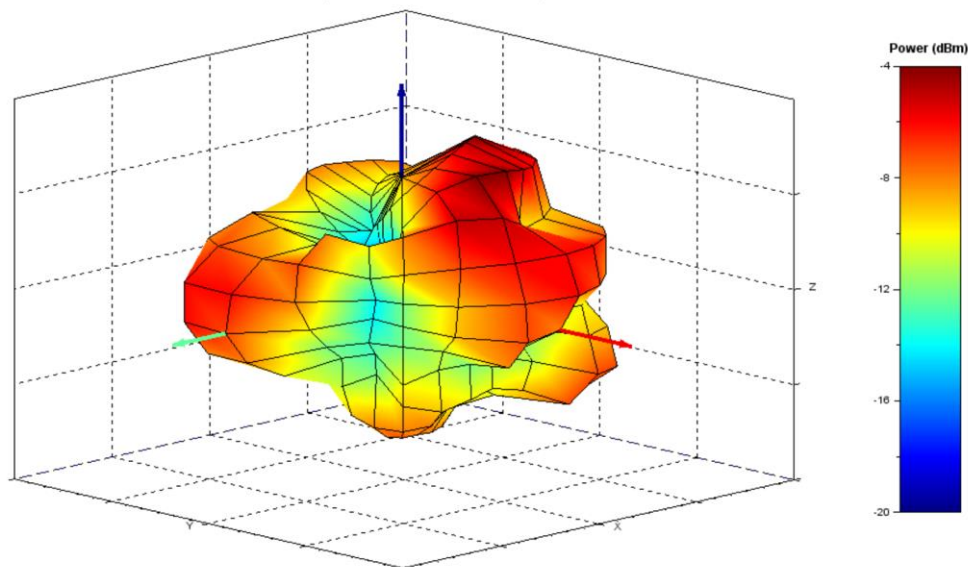
z-axis rotated:

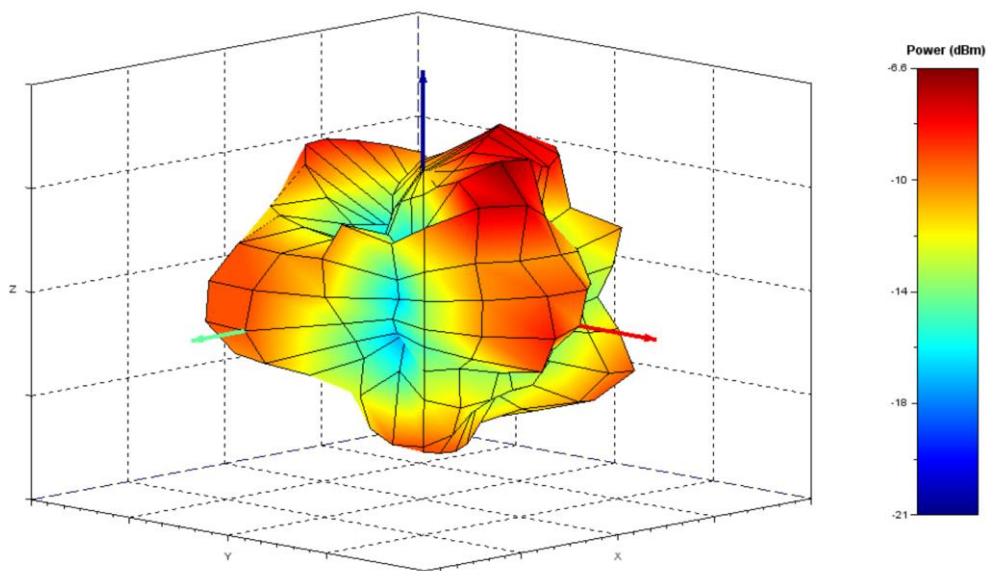### Radiated Power at 2445 MHz, TRP = -9.61 dBm, Max EIRP = -4.04 dBm
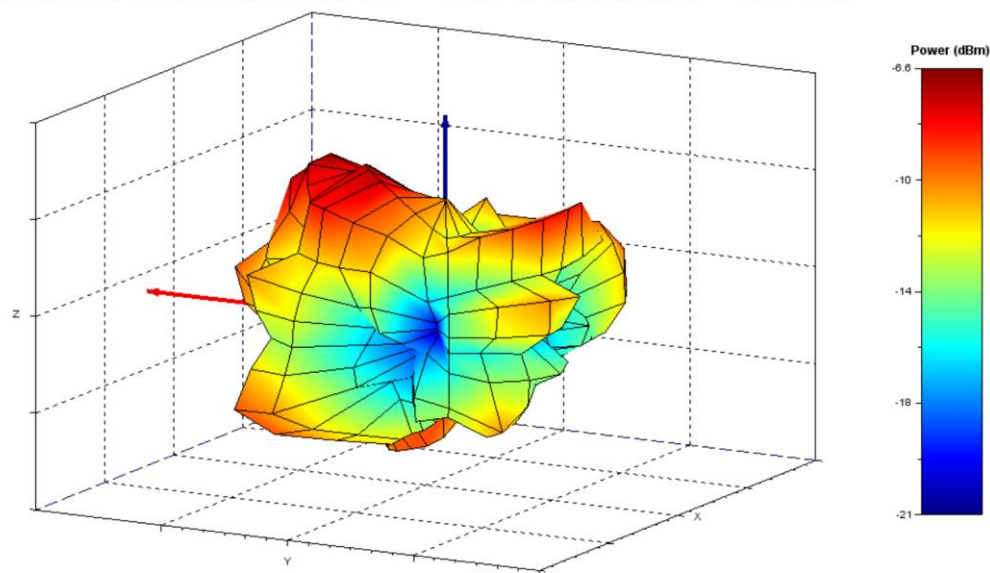
x-axis = Green
y-axis = Red
z-axis = Blue

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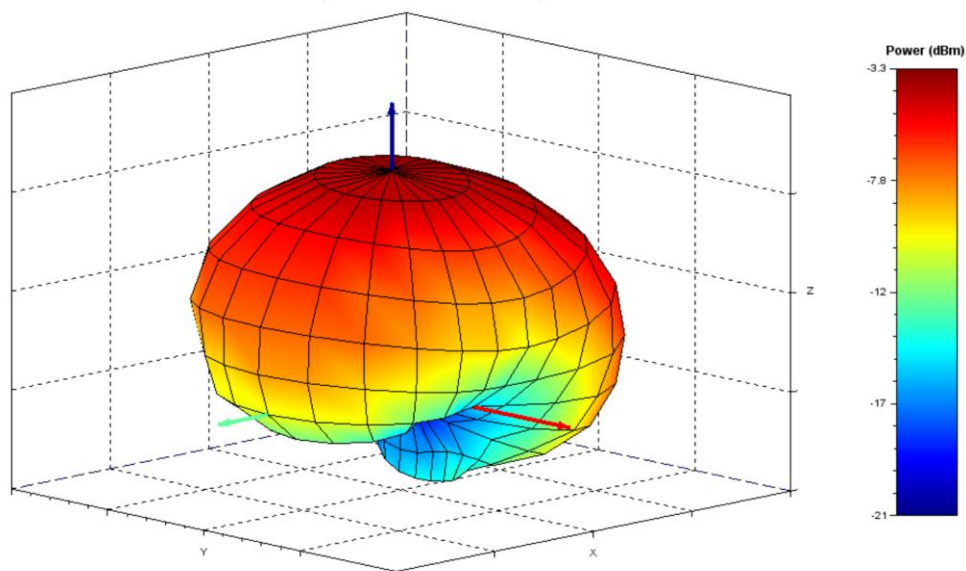

z-axis rotated:

Radiated Power at 2475 MHz, TRP = -12.39 dBm, Max EIRP = -6.58 dBm
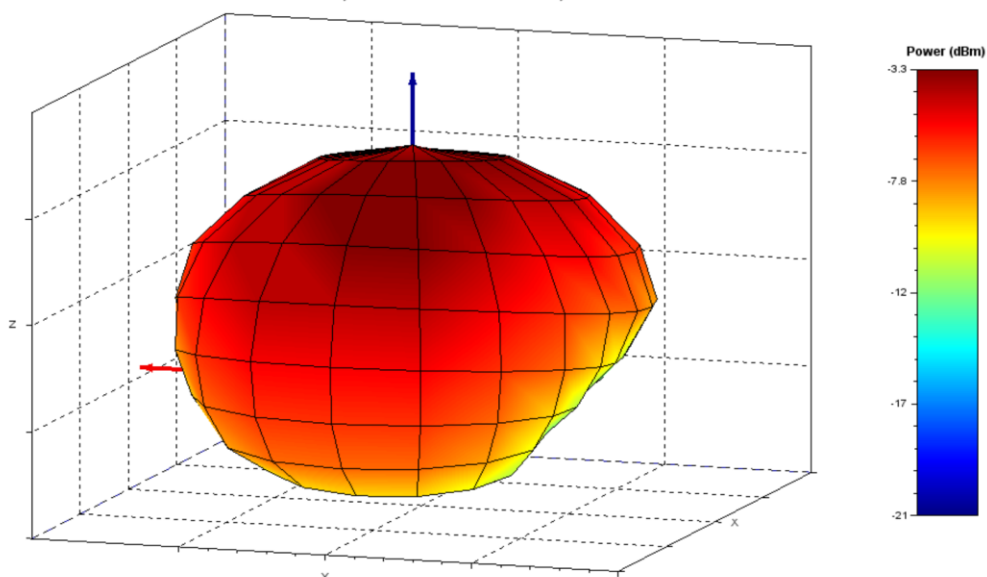
x-axis = Green
y-axis = Red
z-axis = Blue

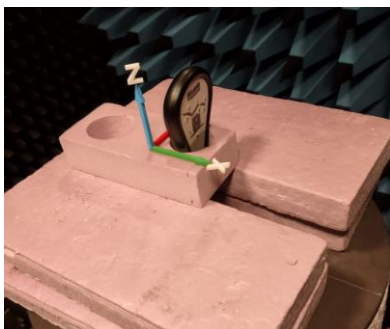**Radiated Power at 2405 MHz, TRP = -8.75 dBm, Max EIRP = -3.31 dBm**

z-axis rotated:

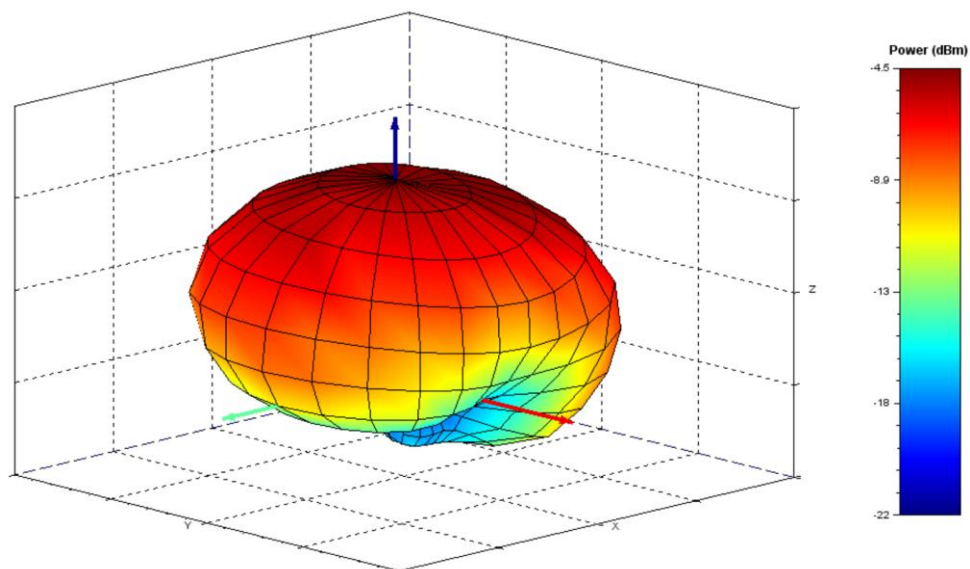**Radiated Power at 2405 MHz, TRP = -8.75 dBm, Max EIRP = -3.31 dBm**
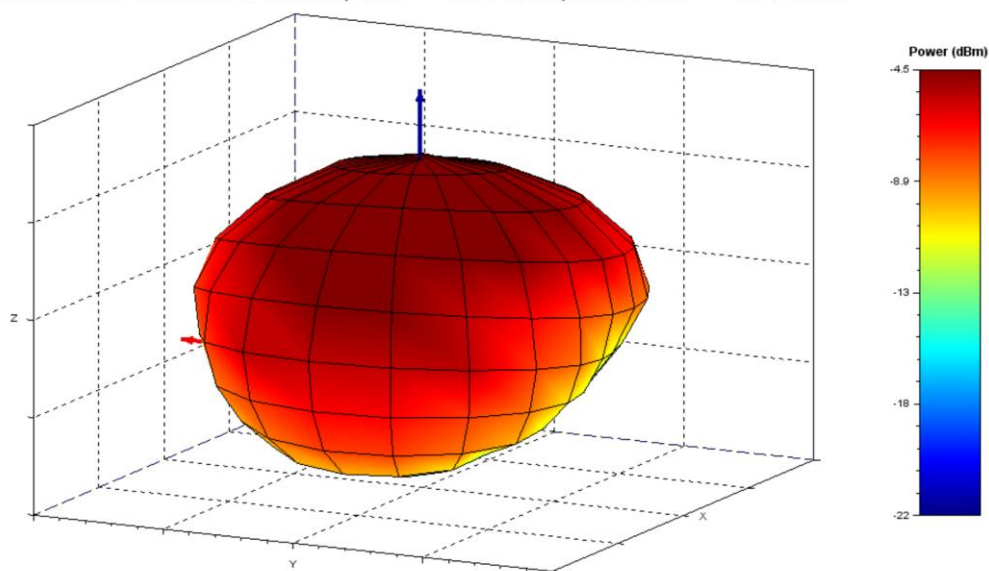
x-axis = Green
y-axis = Red
z-axis = Blue

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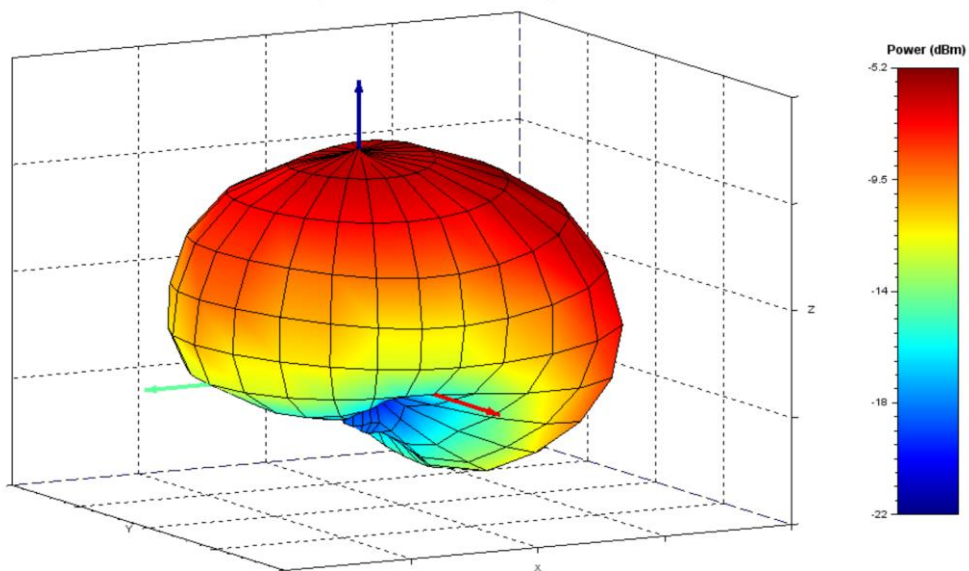

z-axis rotated:

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