

# Intermec

## Technologies Corporation

### Intermec Radio Group Antenna Measurement System

**Manufacturer:** Laird Technologies

**Model No:** 805-668-001

**Serial No:** WAN RF Test Fixture

**Operator:** Paul Hulett

**Comment:** NA Main WWAN

**Test Method:** Two-Axis Dual-Polarization Pattern Measurement

**Type:** PIFA

**Date:** 11/10/2110

#### Summary Page

Total	Frequency (MHz)	780	800	824	850	869	894
	Peak Gain (dBi)	-3.53162	-2.20285	-0.484213	0.295376	0.195954	-0.464057
	Average Gain (dBi)	-6.44448	-5.32961	-3.81917	-3.20924	-3.29624	-3.9979

Total	Frequency (MHz)	915	960	980	1574	1575	1576
	Peak Gain (dBi)	-1.72232	-4.95514	-6.21709	-2.18289	-2.14646	-2.09221
	Average Gain (dBi)	-5.4554	-9.05365	-10.4916	-6.36393	-6.38103	-6.33692

Total	Frequency (MHz)	1695	1710	1750	1800	1850	1880
	Peak Gain (dBi)	3.38486	2.38805	1.95986	1.93766	2.28455	2.06766
	Average Gain (dBi)	-1.5775	-1.84597	-2.85863	-2.4196	-1.73968	-1.01097

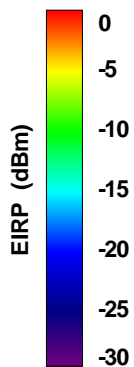
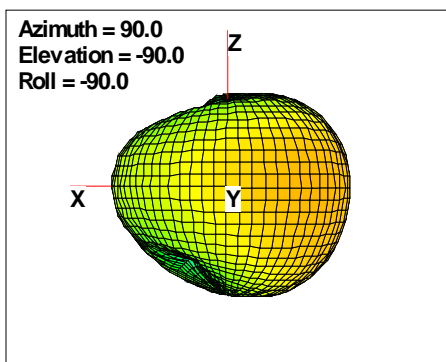
Total	Frequency (MHz)	1900	1920	1930	1960	1990	2110
	Peak Gain (dBi)	2.71454	2.30739	2.81846	3.01201	3.34611	1.67473
	Average Gain (dBi)	-0.625208	-0.247921	0.191235	0.256497	-0.270234	-2.90073

Total	Frequency (MHz)	2160	2170	2190	2200		
	Peak Gain (dBi)	1.24144	2.36	2.22694	3.09822		
	Average Gain (dBi)	-2.38225	-2.39256	-2.60534	-2.66813		

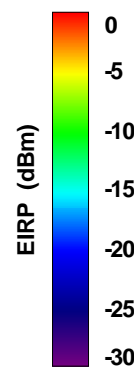
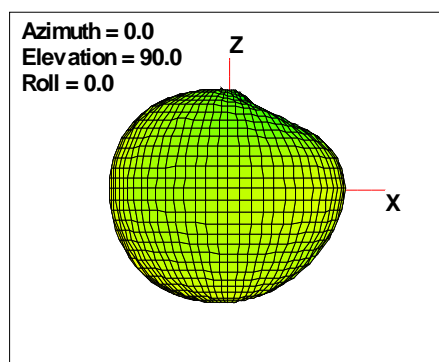


### WAN Free-Space Total EIRP, 780 MHz

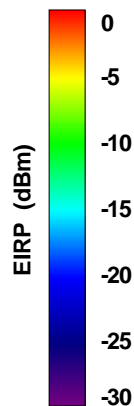
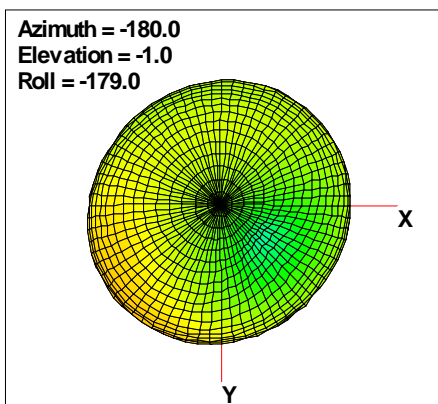
Total EIRP, Right Side View



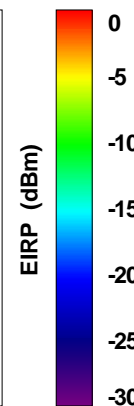
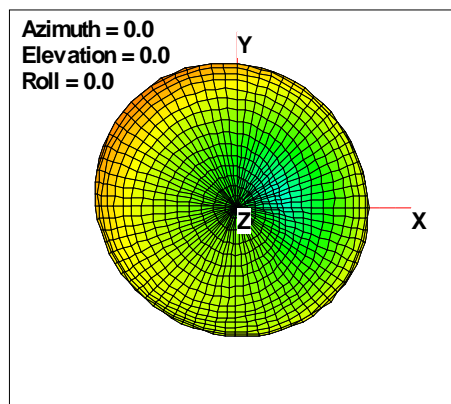
Total EIRP, Left Side View



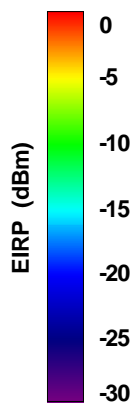
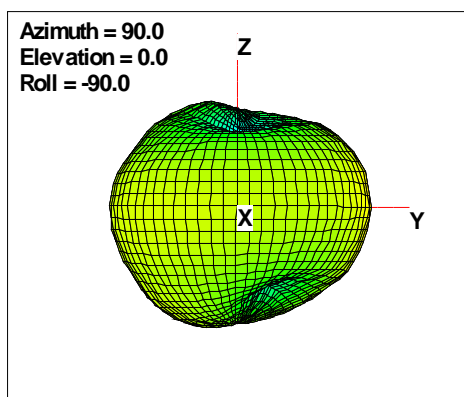
Total EIRP, Bottom View



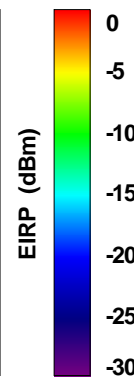
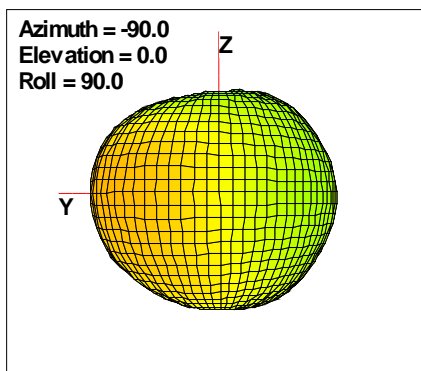
Total EIRP, Top View



Total EIRP, Front Face View

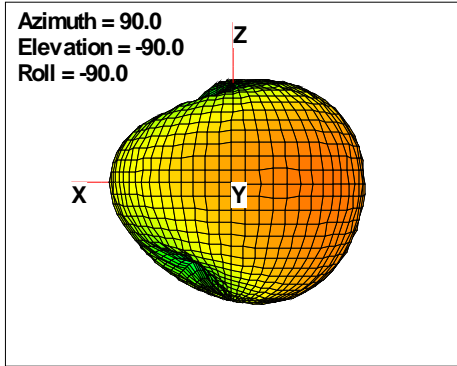


Total EIRP, Back Face View

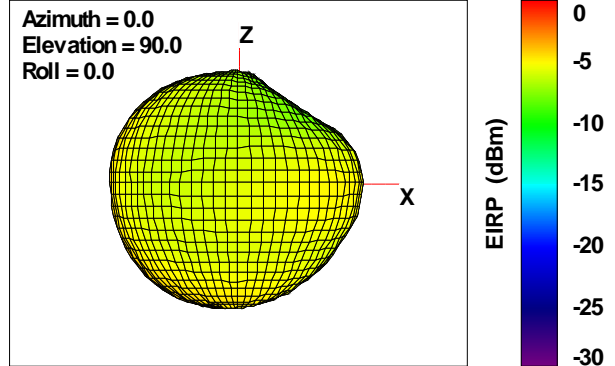


# WAN Free-Space Total EIRP, 800 MHz

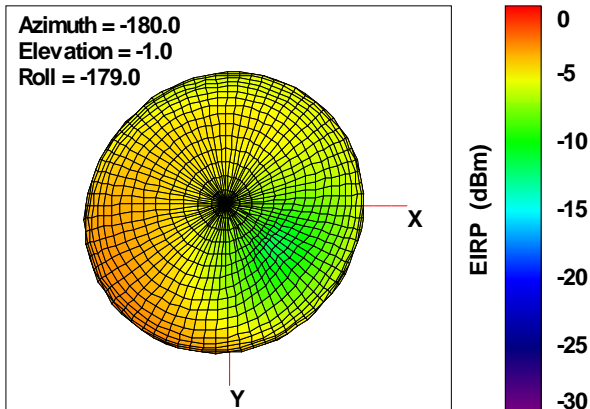
### Total EIRP, Right Side View



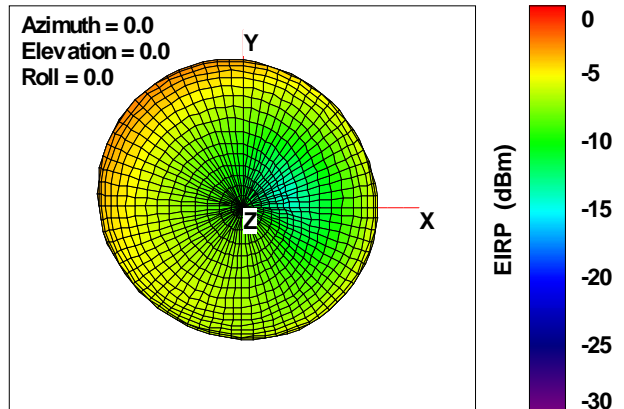
### Total EIRP, Left Side View



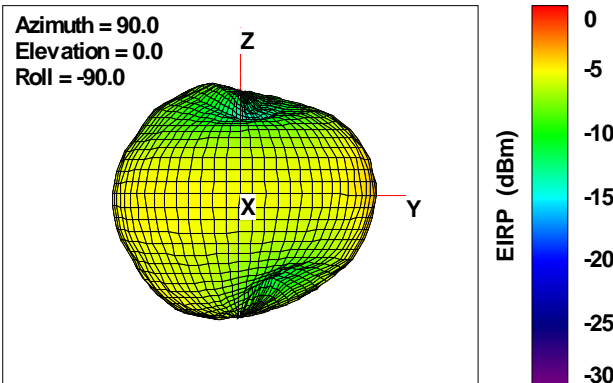
### Total EIRP, Bottom View



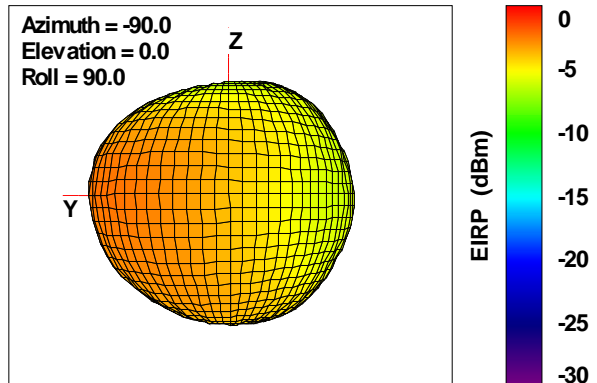
### Total EIRP, Top View



### Total EIRP, Front Face View

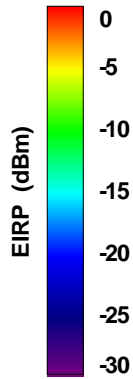
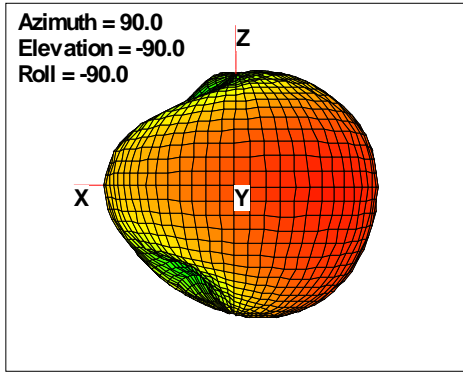


### Total EIRP, Back Face View

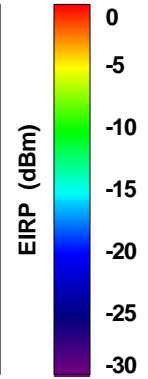
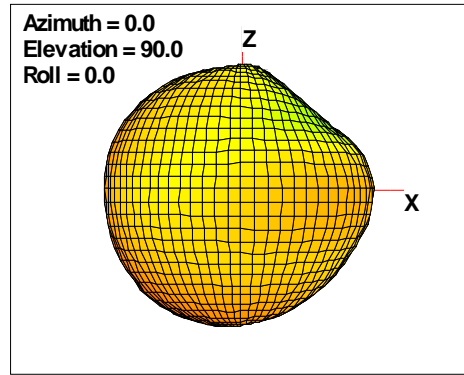


# WAN Free-Space Total EIRP, 824 MHz

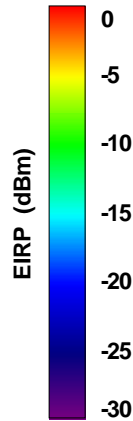
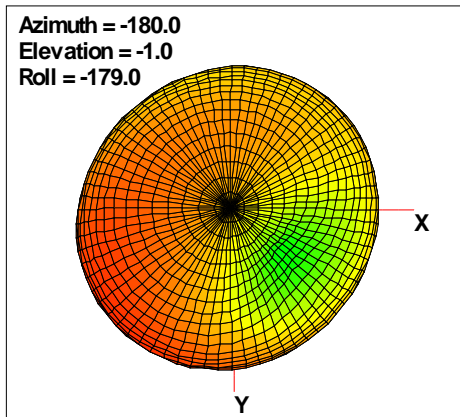
### Total EIRP, Right Side View



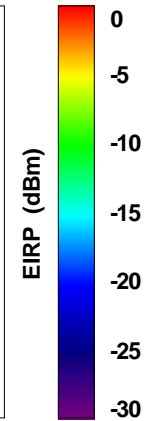
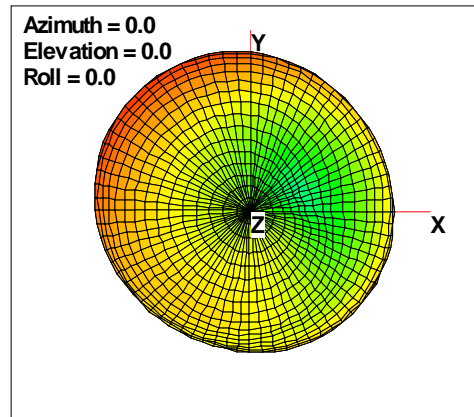
### Total EIRP, Left Side View



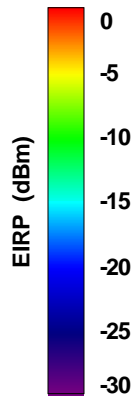
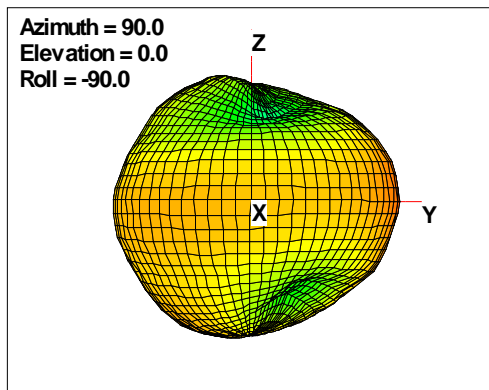
### Total EIRP, Bottom View



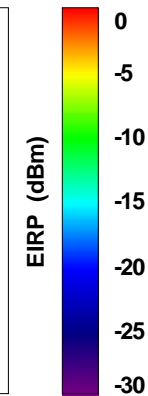
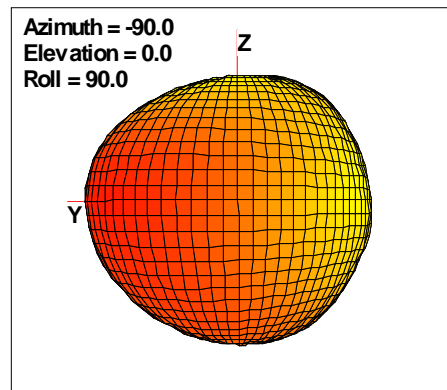
### Total EIRP, Top View



### Total EIRP, Front Face View

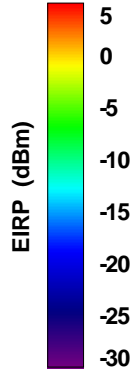
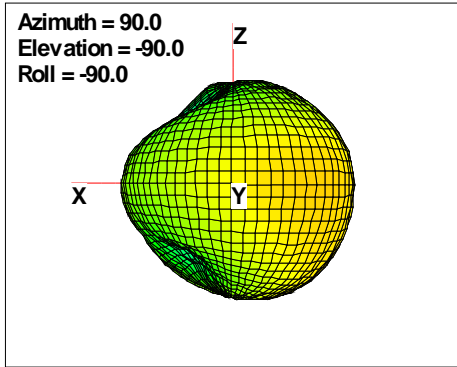


### Total EIRP, Back Face View

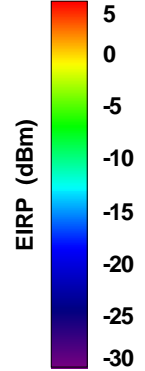
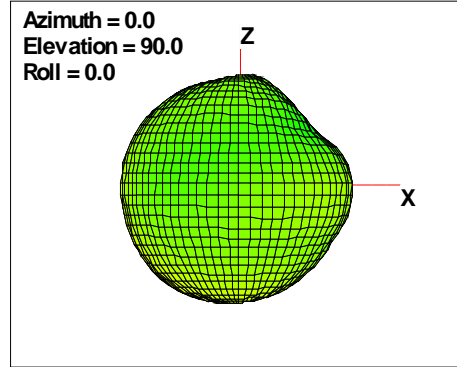


# WAN Free-Space Total EIRP, 850MHz

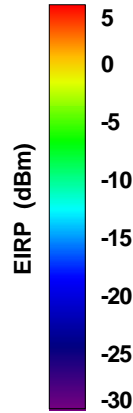
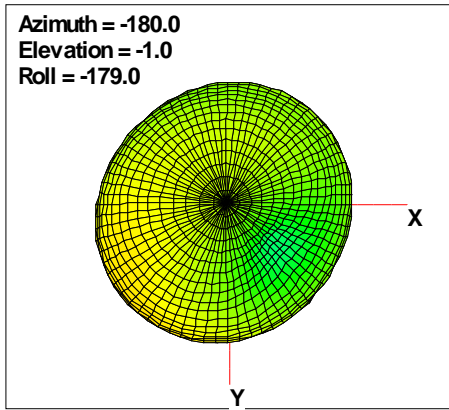
### Total EIRP, Right Side View



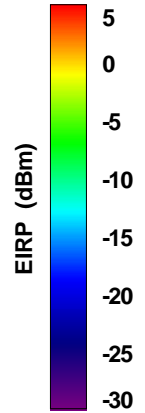
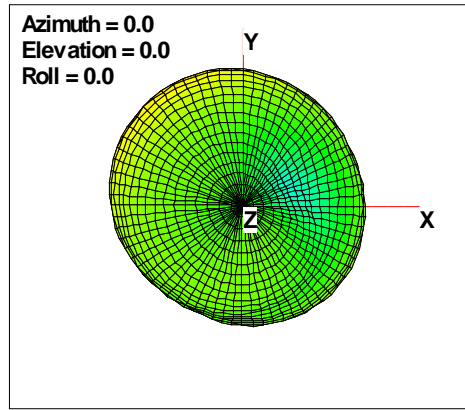
### Total EIRP, Left Side View



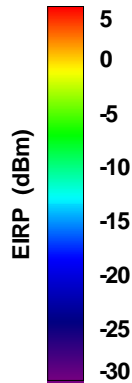
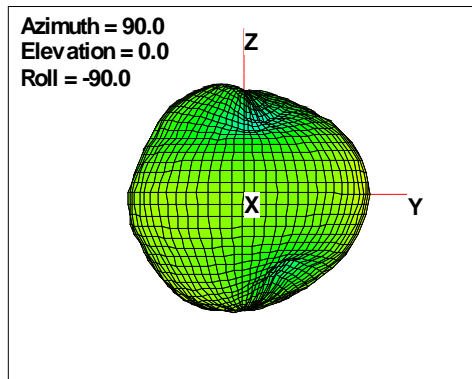
### Total EIRP, Bottom View



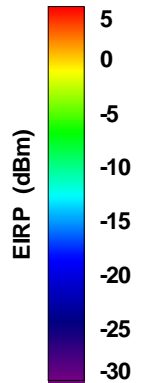
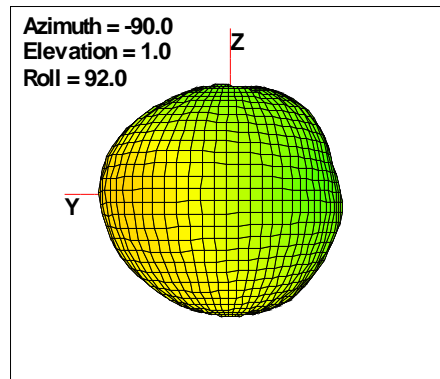
### Total EIRP, Top View



### Total EIRP, Front Face View

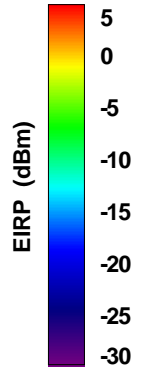
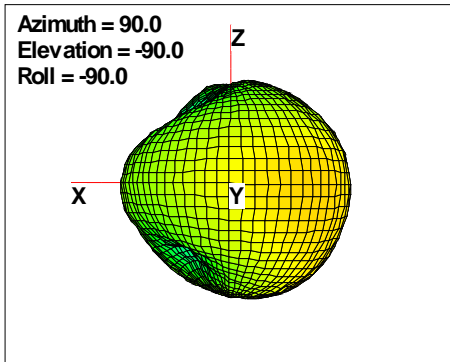


### Total EIRP, Back Face View

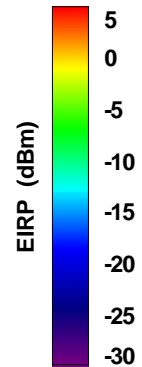
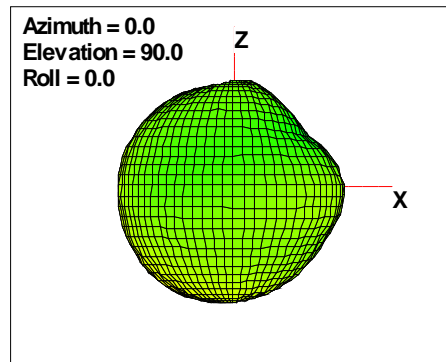


# WAN Free-Space Total EIRP, 869MHz

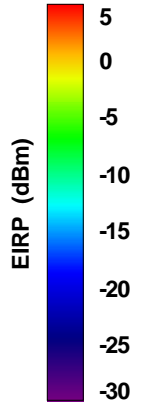
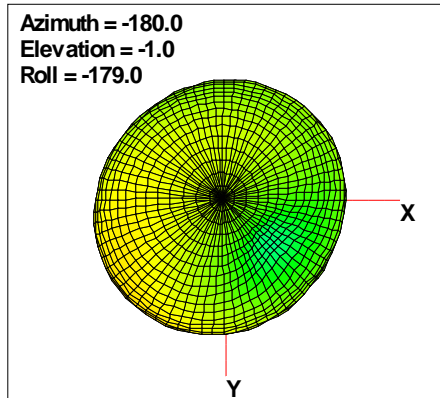
### Total EIRP, Right Side View



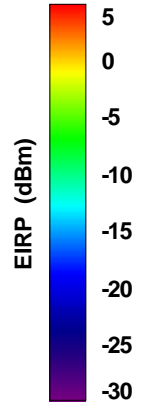
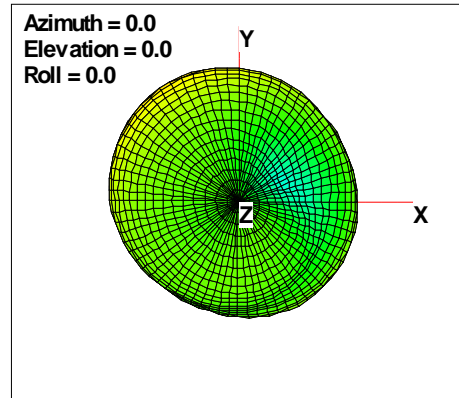
### Total EIRP, Left Side View



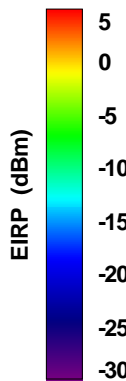
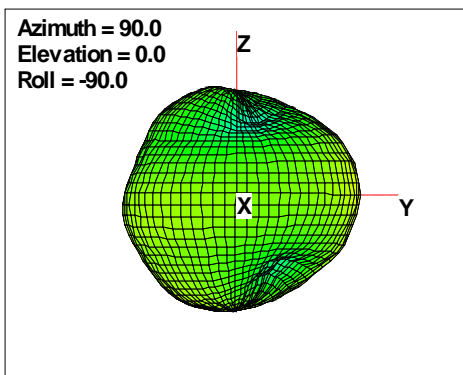
### Total EIRP, Bottom View



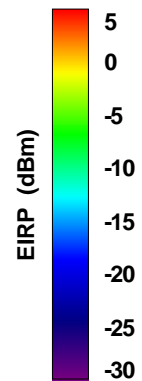
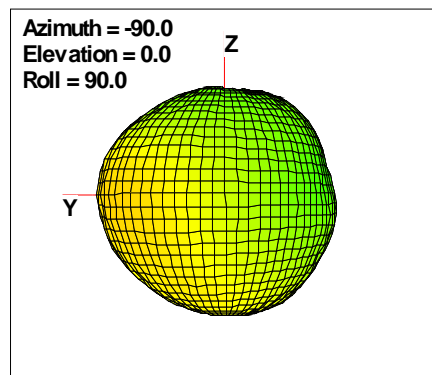
### Total EIRP, Top View



### Total EIRP, Front Face View

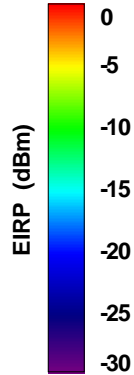
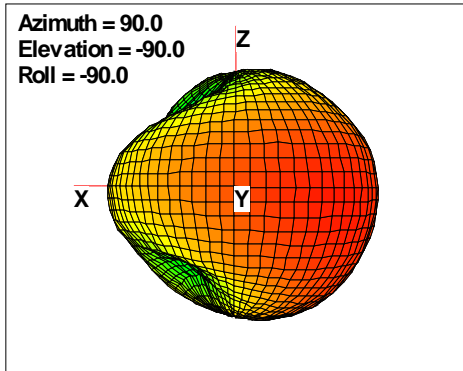


### Total EIRP, Back Face View

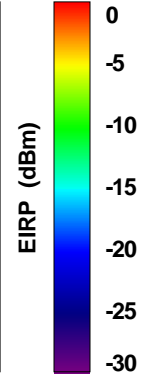
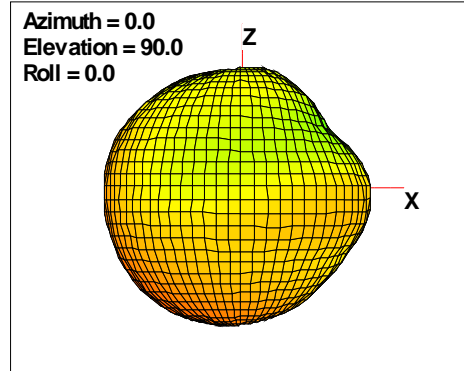


# WAN Free-Space Total EIRP, 894MHz

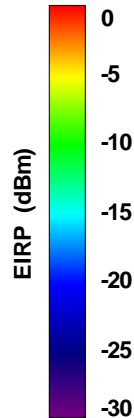
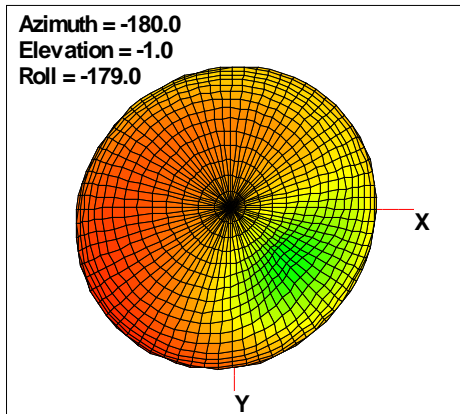
### Total EIRP, Right Side View



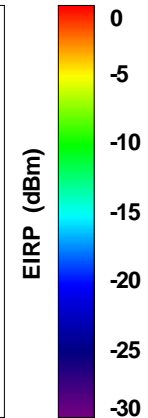
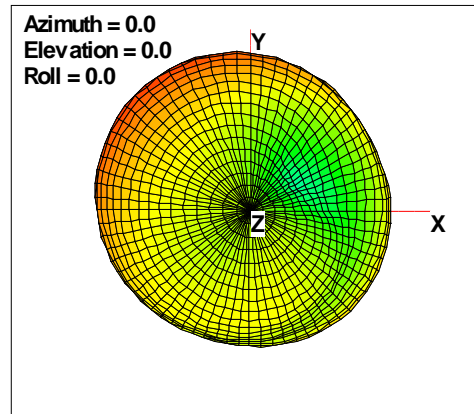
### Total EIRP, Left Side View



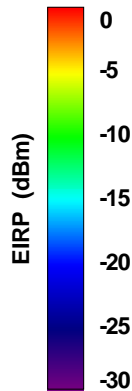
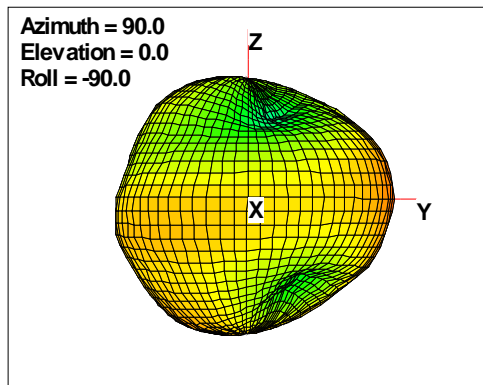
### Total EIRP, Bottom View



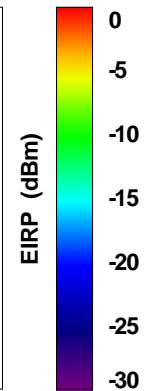
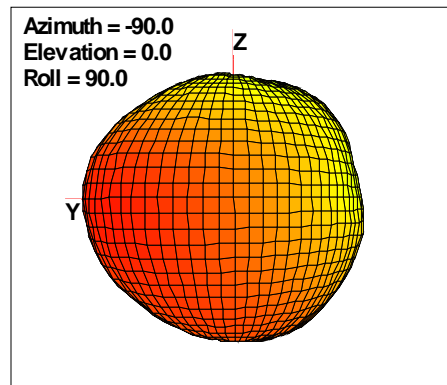
### Total EIRP, Top View



### Total EIRP, Front Face View

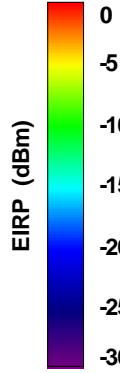
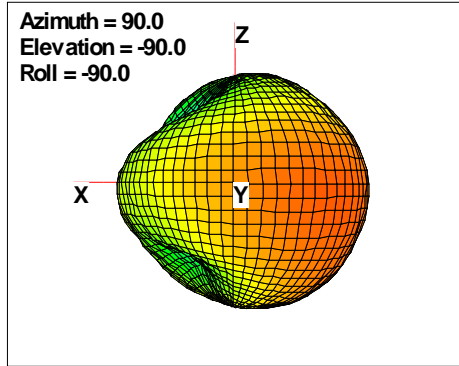


### Total EIRP, Back Face View

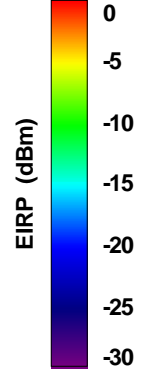
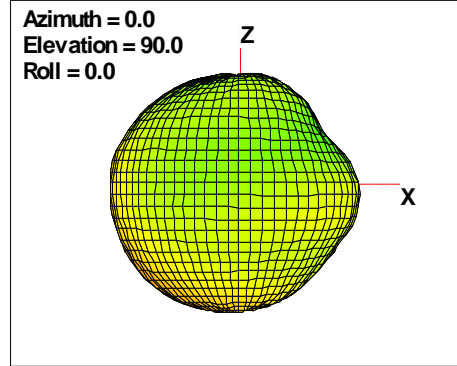


# WAN Free-Space Total EIRP, 915MHz

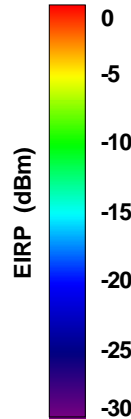
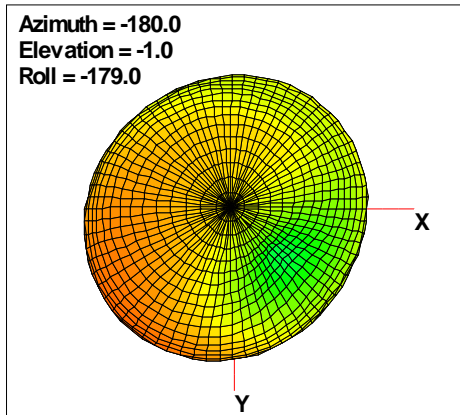
### Total EIRP, Right Side View



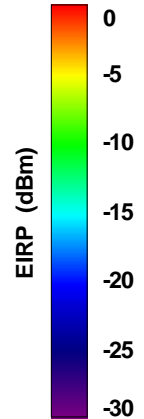
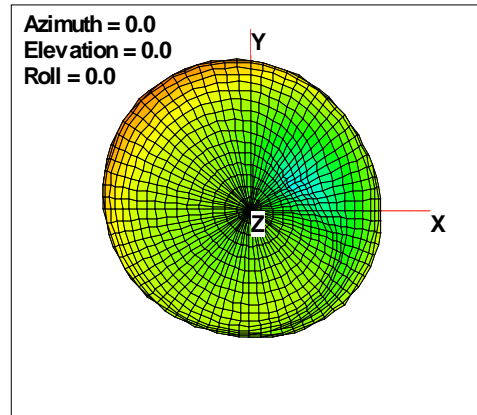
### Total EIRP, Left Side View



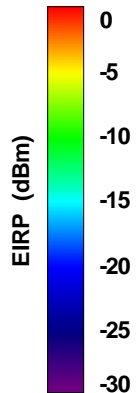
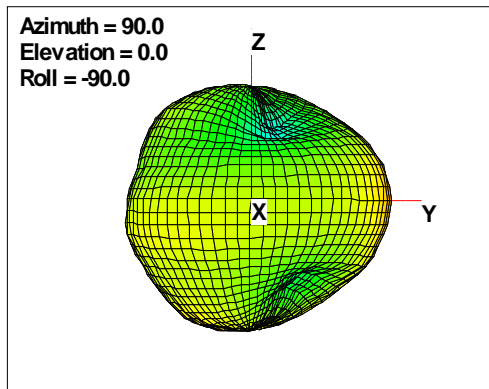
### Total EIRP, Bottom View



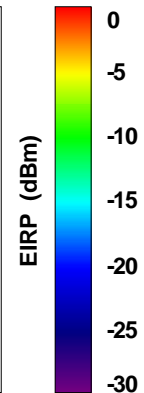
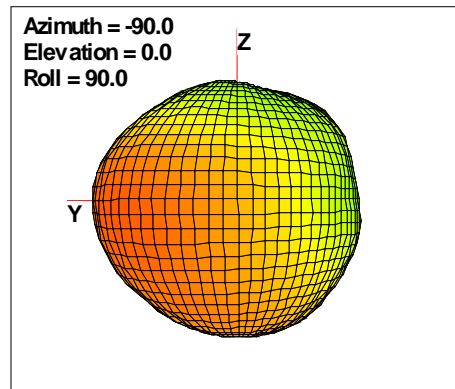
### Total EIRP, Top View



### Total EIRP, Front Face View



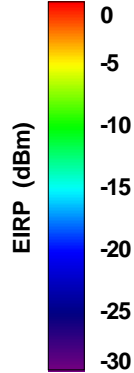
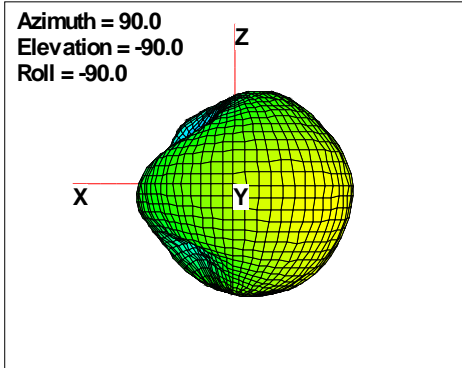
### Total EIRP, Back Face View



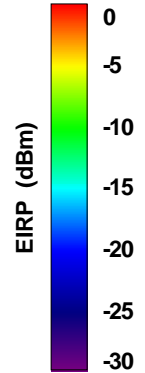
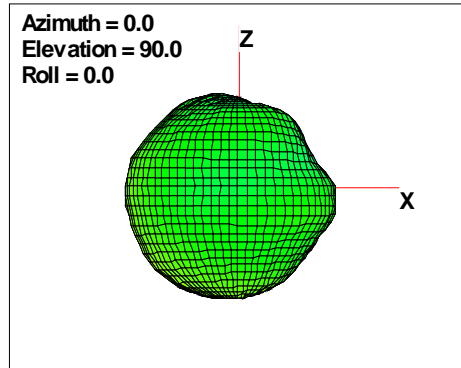


# WAN Free-Space Total EIRP, 960MHz

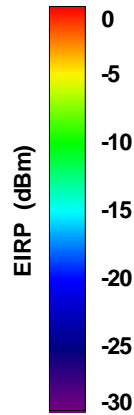
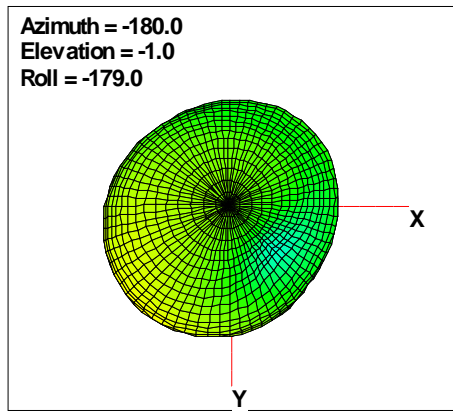
### Total EIRP, Right Side View



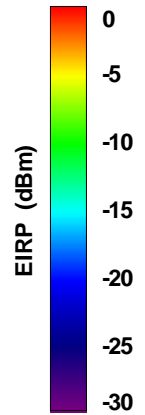
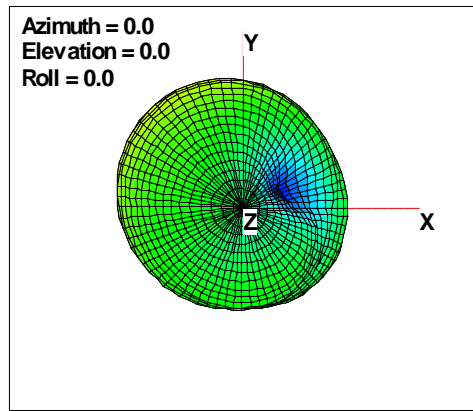
### Total EIRP, Left Side View



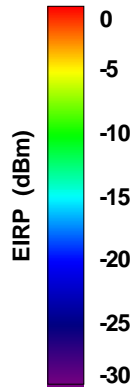
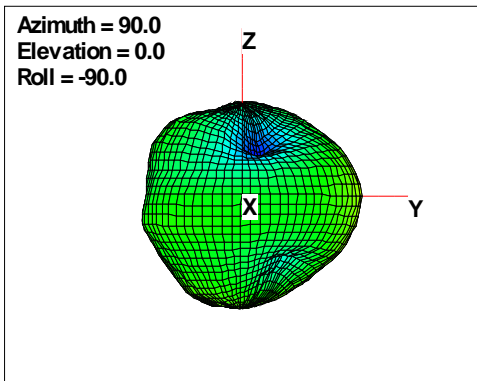
### Total EIRP, Bottom View



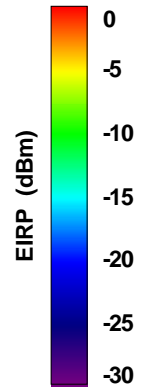
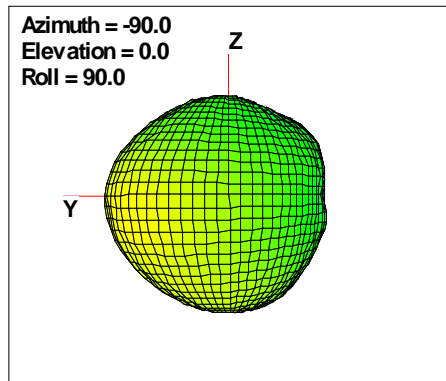
### Total EIRP, Top View



### Total EIRP, Front Face View

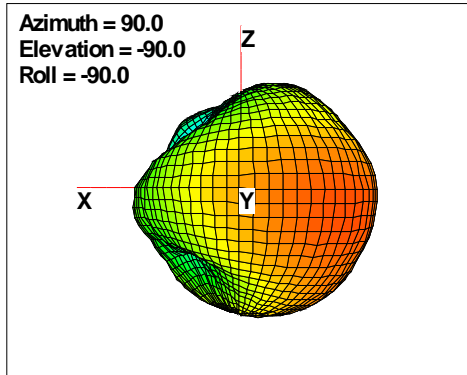


### Total EIRP, Back Face View

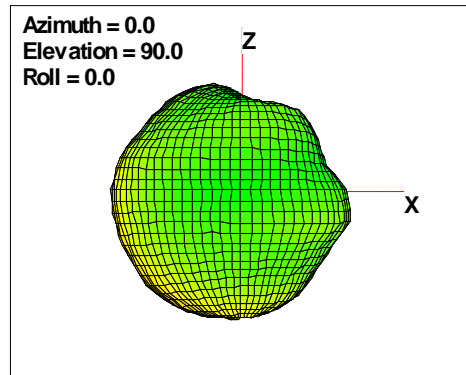


# WAN Free-Space Total EIRP, 980MHz

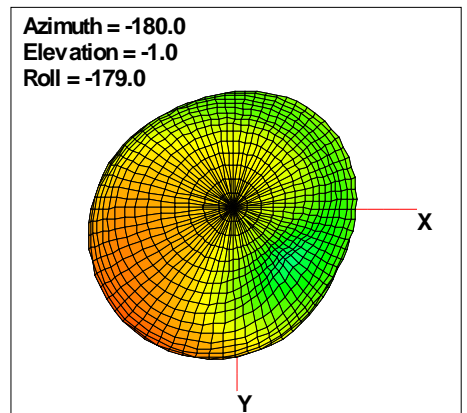
### Total EIRP, Right Side View



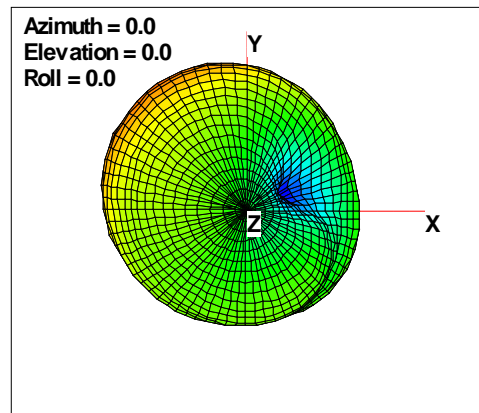
### Total EIRP, Left Side View



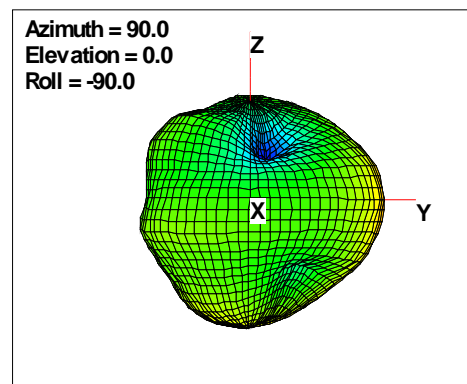
### Total EIRP, Bottom View



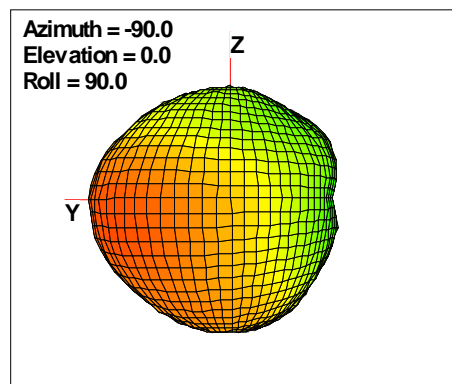
### Total EIRP, Top View



### Total EIRP, Front Face View

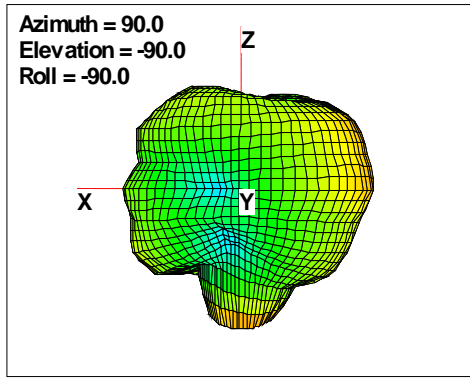


### Total EIRP, Back Face View

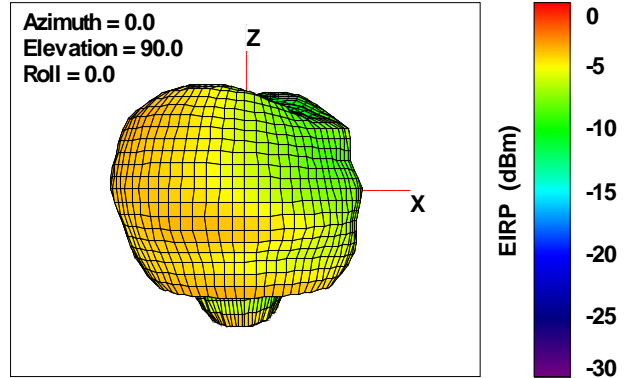


# WAN Free-Space Total EIRP, 1574MHz

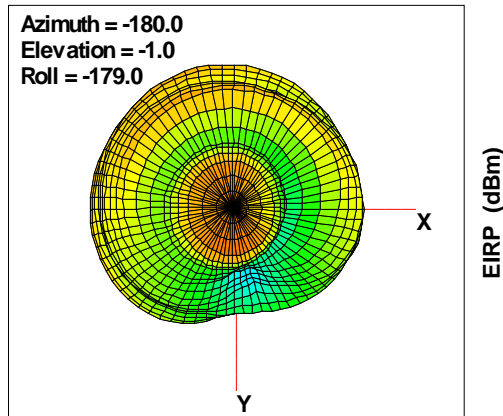
Total EIRP, Right Side View



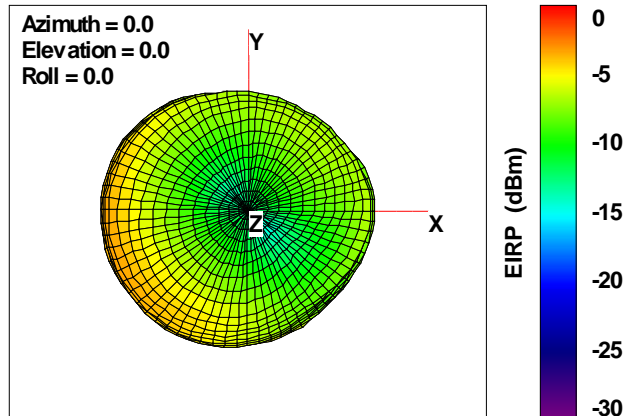
Total EIRP, Left Side View



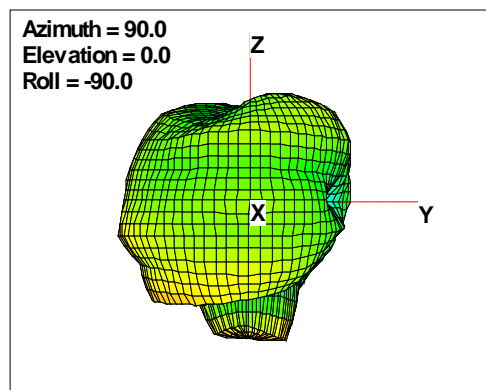
Total EIRP, Bottom View



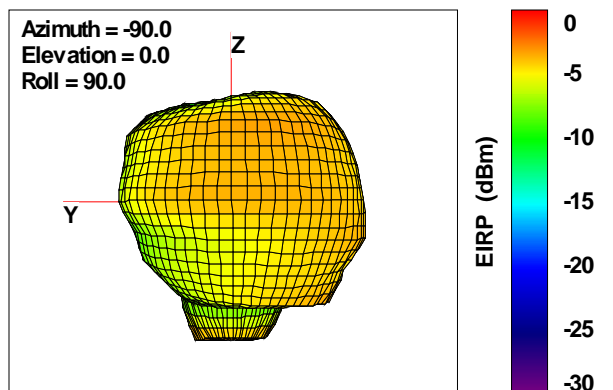
Total EIRP, Top View



Total EIRP, Front Face View

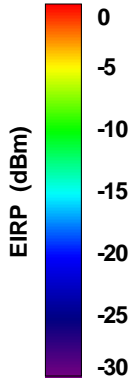
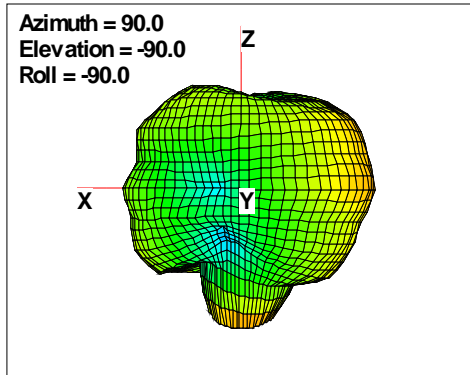


Total EIRP, Back Face View

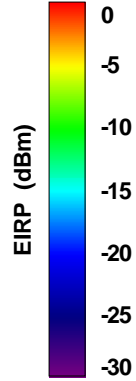
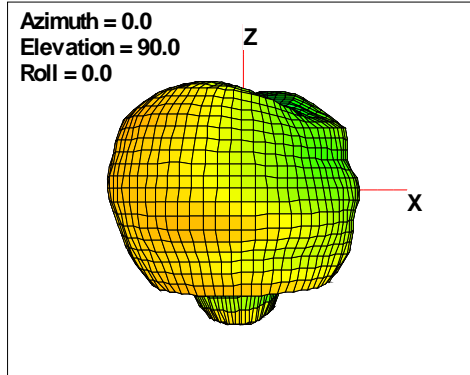


# WAN Free-Space Total EIRP, 1575MHz

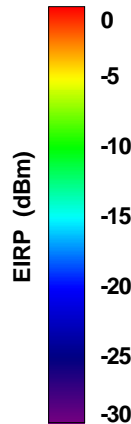
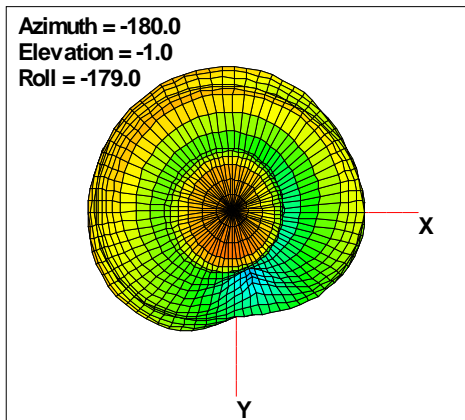
### Total EIRP, Right Side View



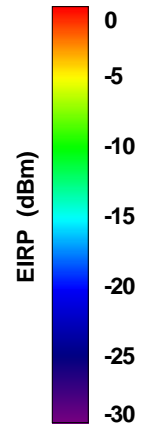
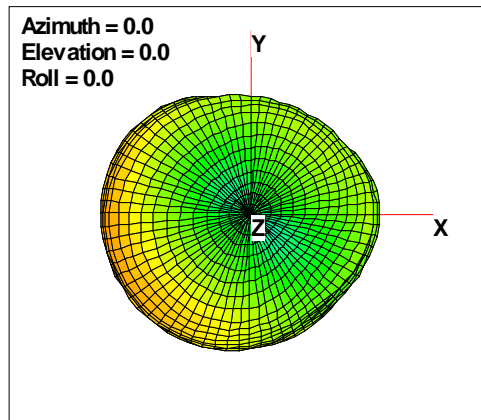
### Total EIRP, Left Side View



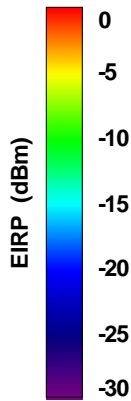
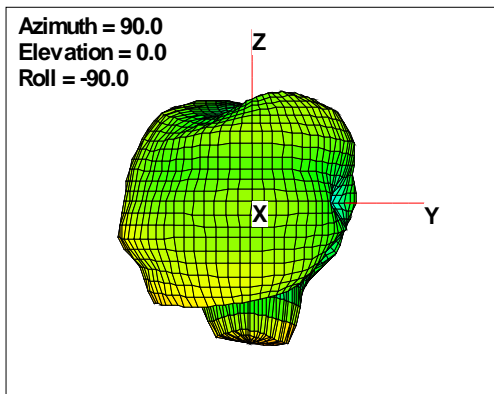
### Total EIRP, Bottom View



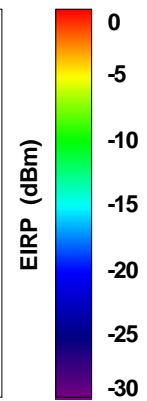
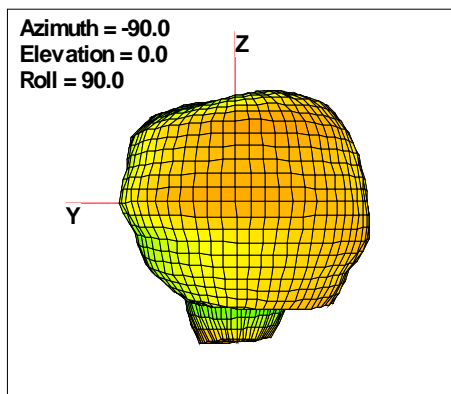
### Total EIRP, Top View



### Total EIRP, Front Face View

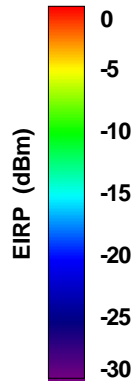
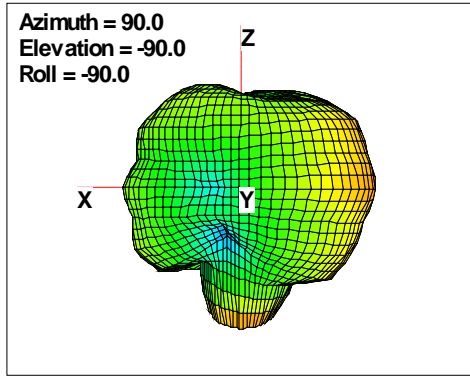


### Total EIRP, Back Face View

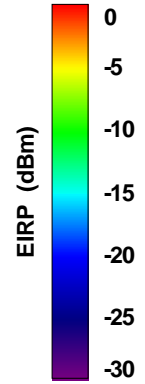
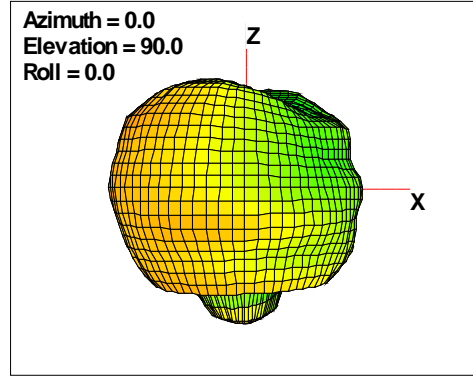


# WAN Free-Space Total EIRP, 1576MHz

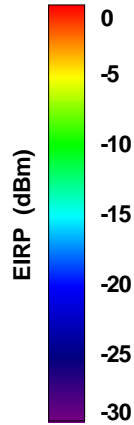
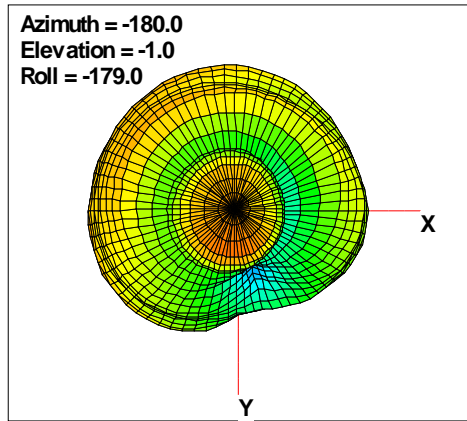
### Total EIRP, Right Side View



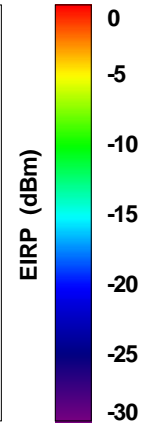
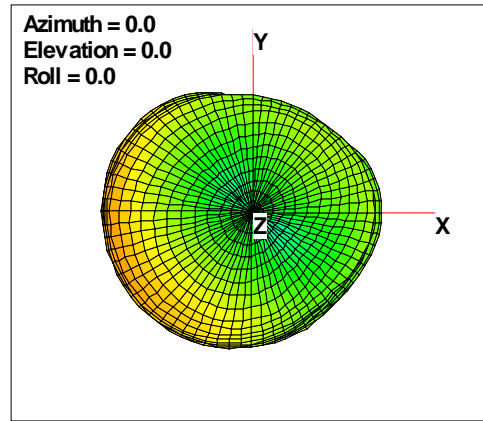
### Total EIRP, Left Side View



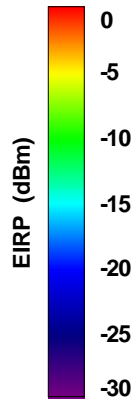
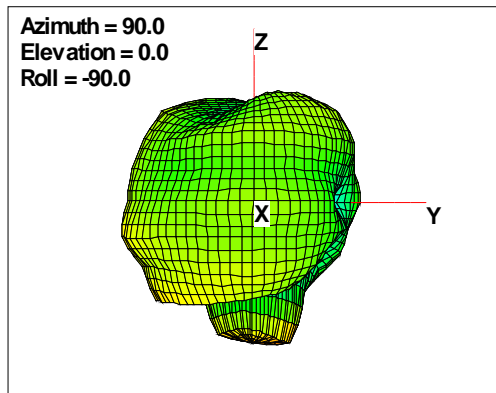
### Total EIRP, Bottom View



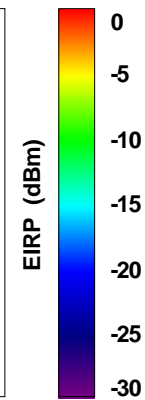
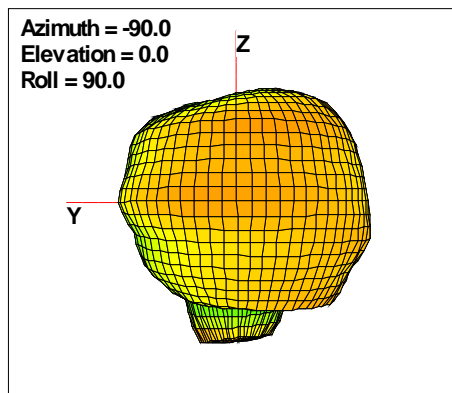
### Total EIRP, Top View



### Total EIRP, Front Face View

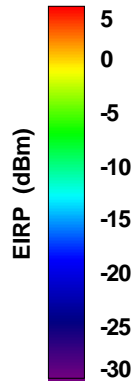
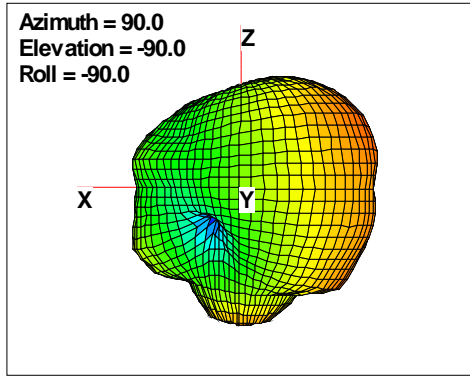


### Total EIRP, Back Face View

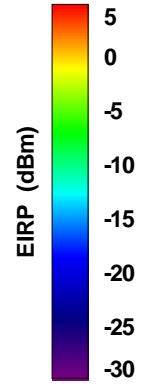
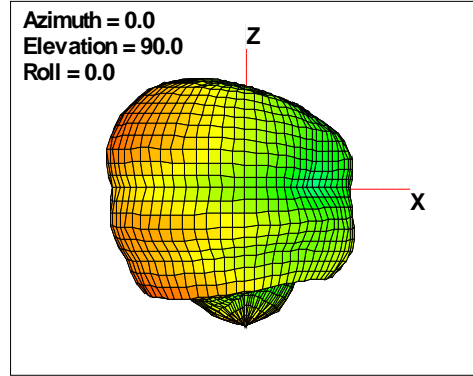


# WAN Free-Space Total EIRP, 1695MHz

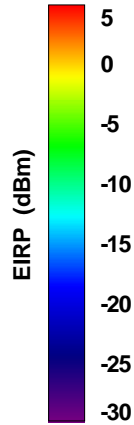
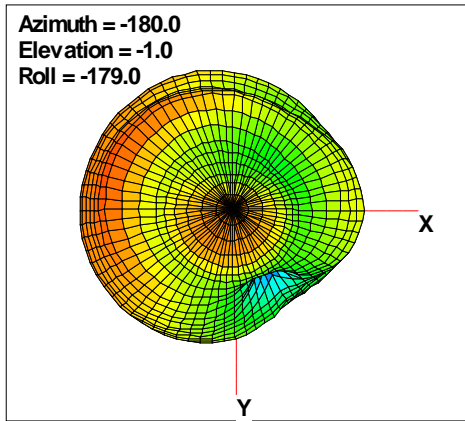
### Total EIRP, Right Side View



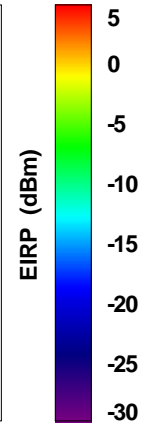
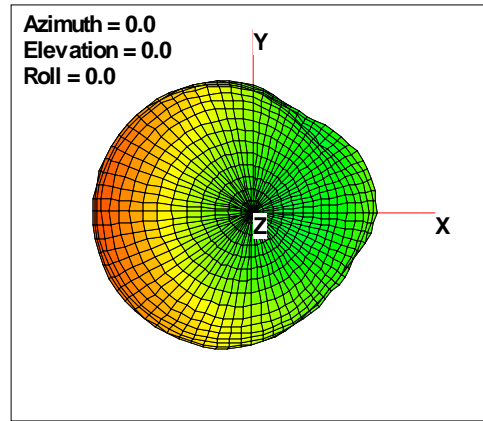
### Total EIRP, Left Side View



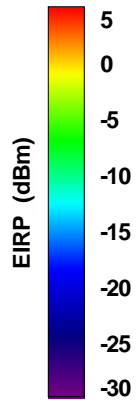
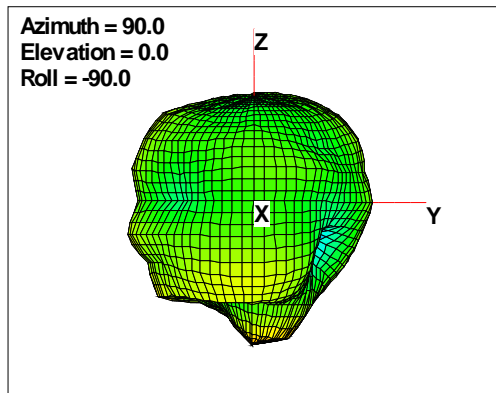
### Total EIRP, Bottom View



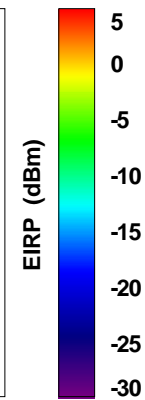
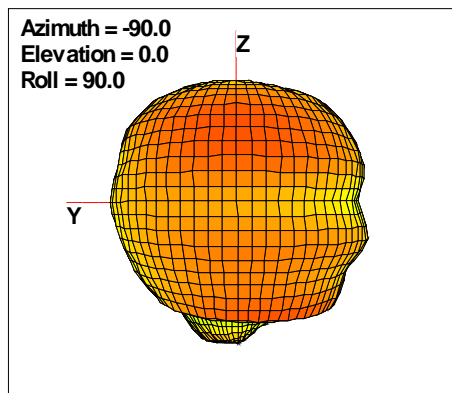
### Total EIRP, Top View



### Total EIRP, Front Face View

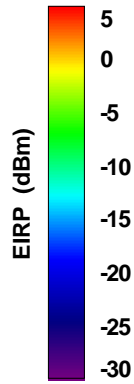
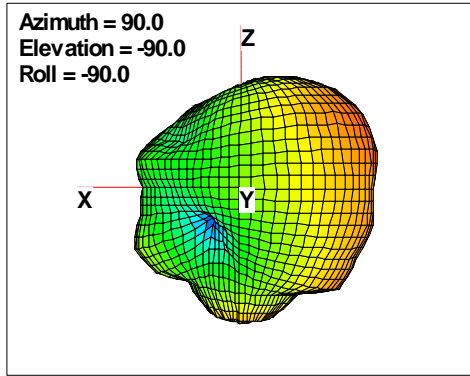


### Total EIRP, Back Face View

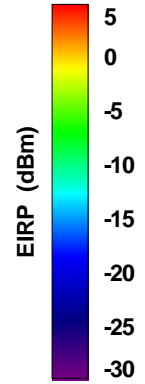
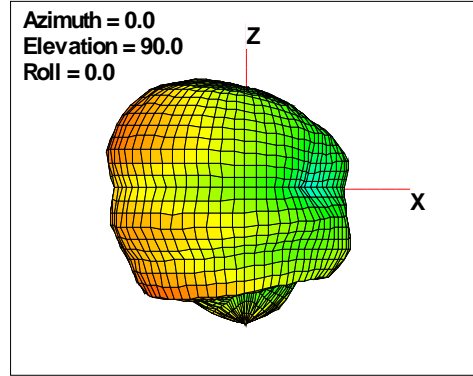


# WAN Free-Space Total EIRP, 1710MHz

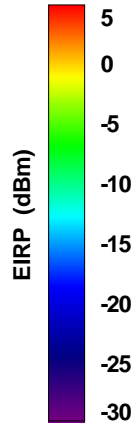
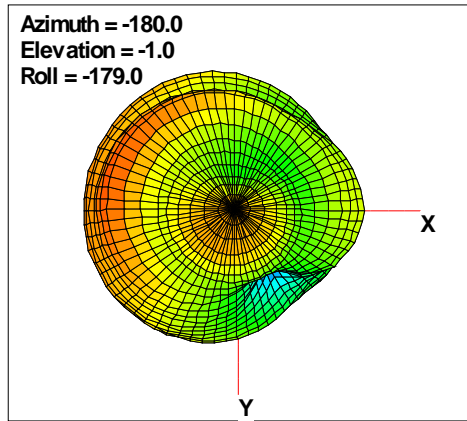
### Total EIRP, Right Side View



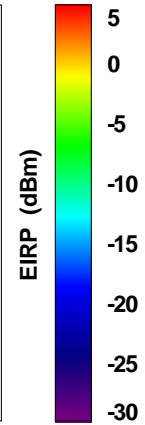
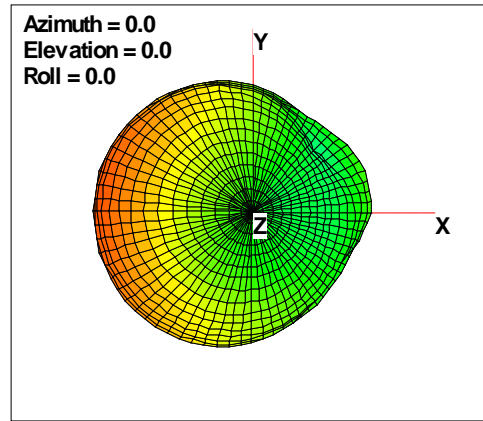
### Total EIRP, Left Side View



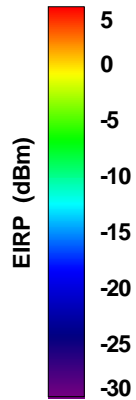
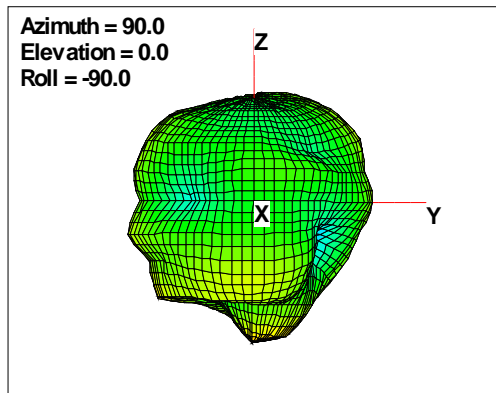
### Total EIRP, Bottom View



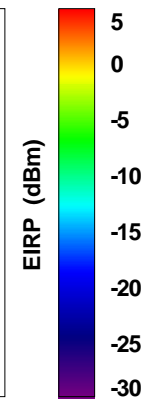
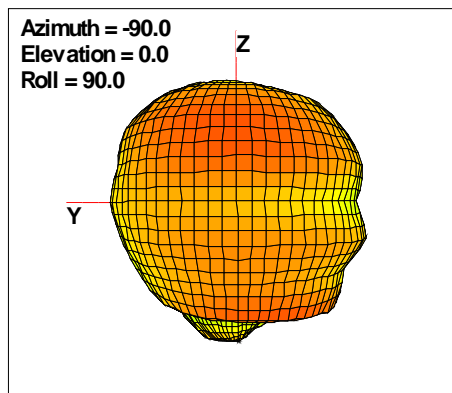
### Total EIRP, Top View



### Total EIRP, Front Face View

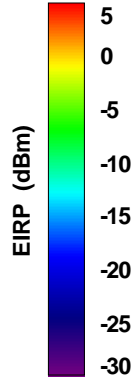
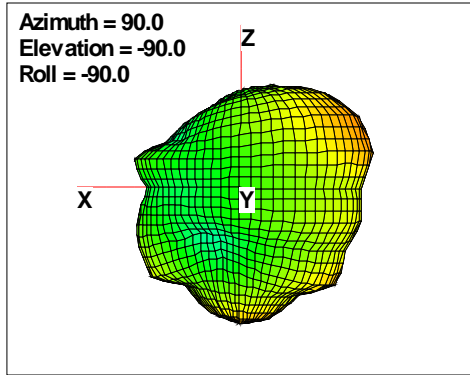


### Total EIRP, Back Face View

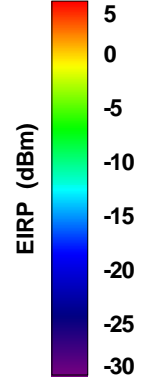
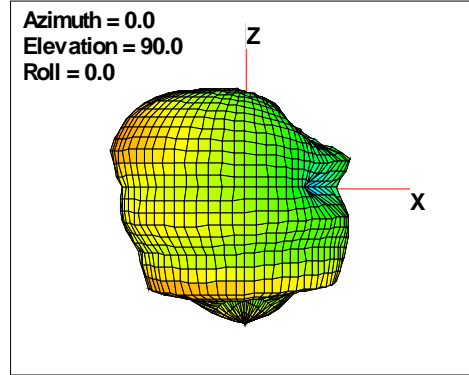


# WAN Free-Space Total EIRP, 1750 MHz

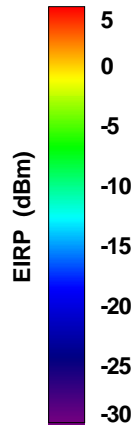
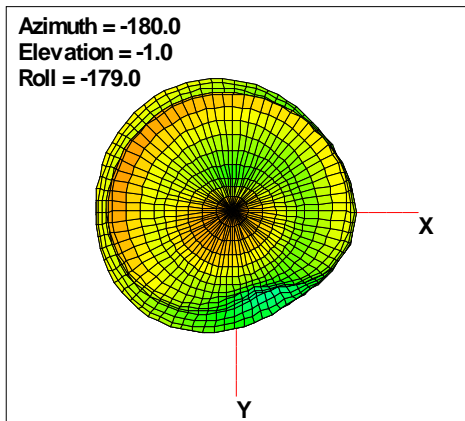
### Total EIRP, Right Side View



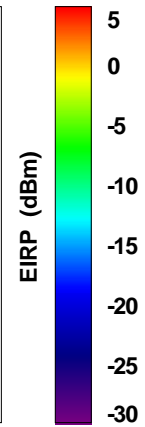
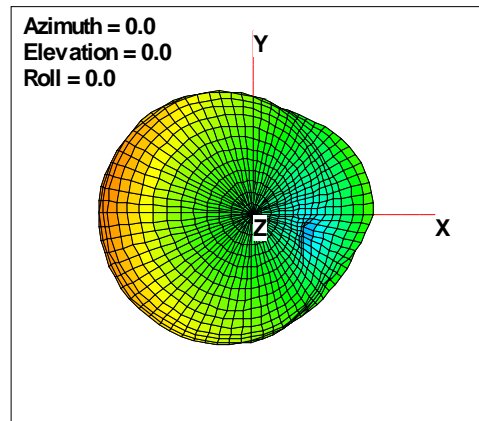
### Total EIRP, Left Side View



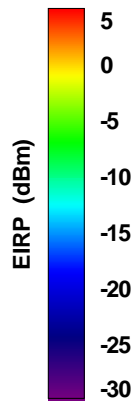
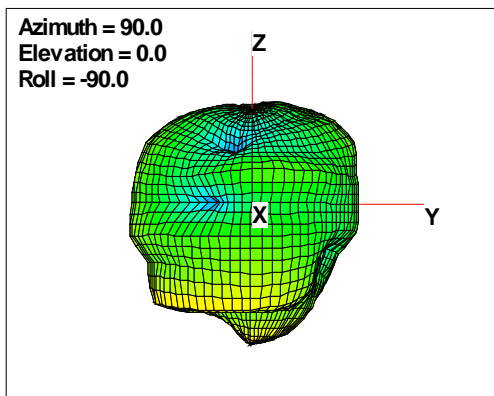
### Total EIRP, Bottom View



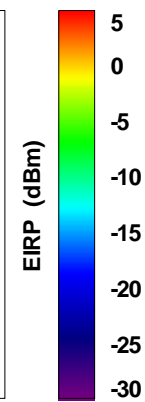
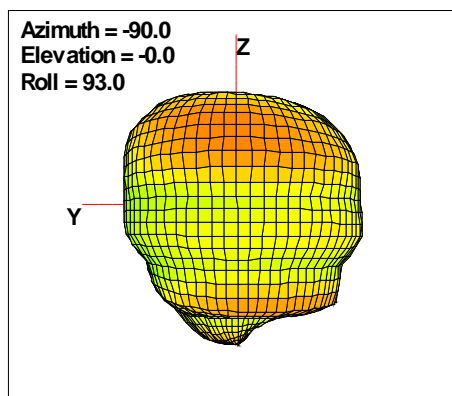
### Total EIRP, Top View



### Total EIRP, Front Face View



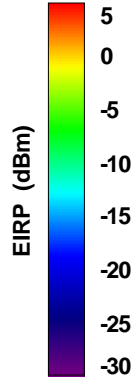
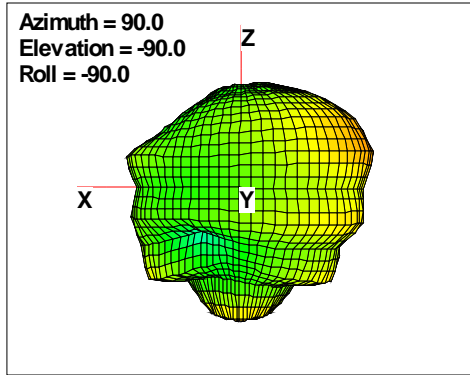
### Total EIRP, Back Face View



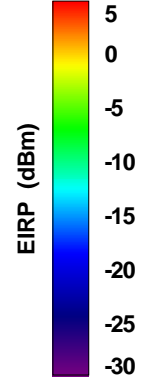
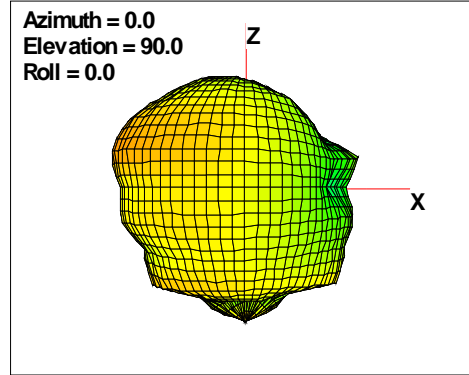


# WAN Free-Space Total EIRP, 1800MHz

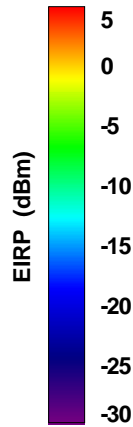
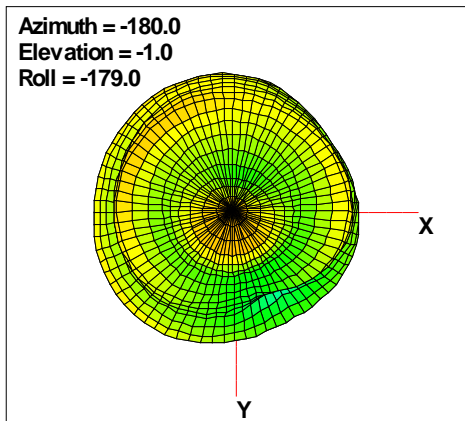
### Total EIRP, Right Side View



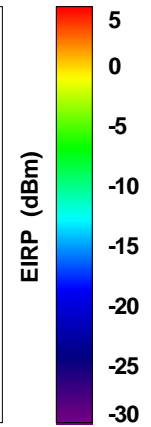
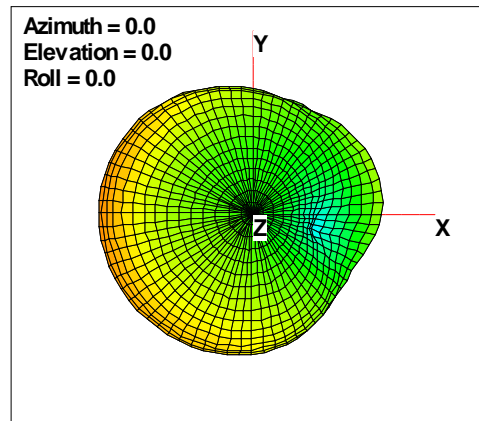
### Total EIRP, Left Side View



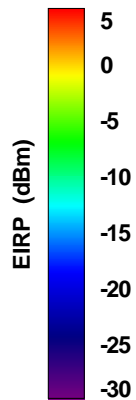
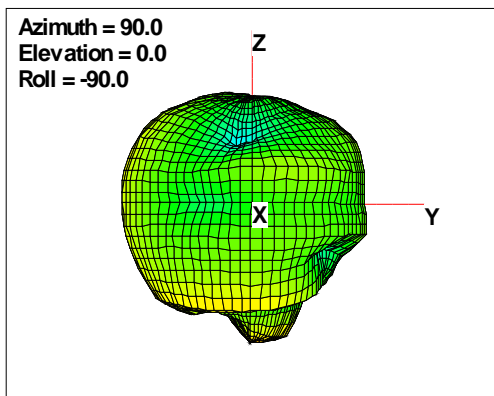
### Total EIRP, Bottom View



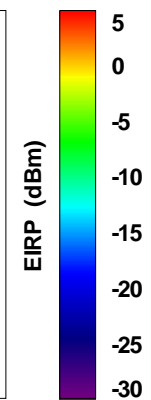
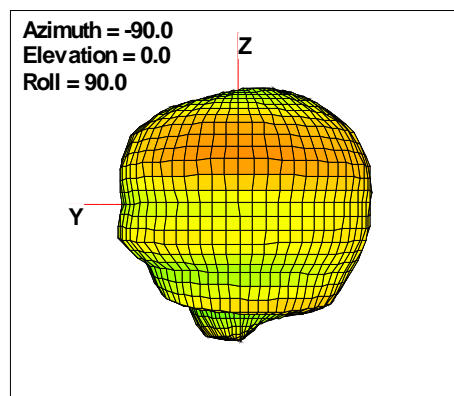
### Total EIRP, Top View



### Total EIRP, Front Face View

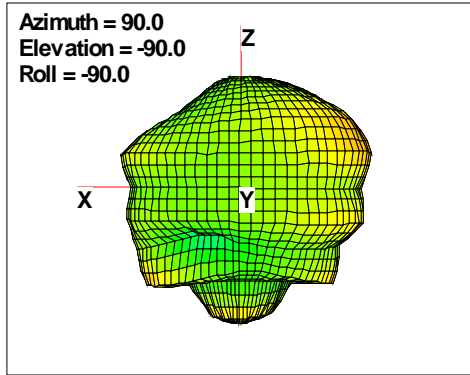


### Total EIRP, Back Face View

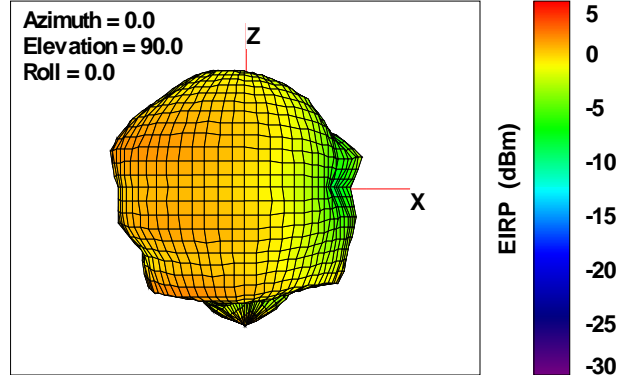


# WAN Free-Space Total EIRP, 1850MHz

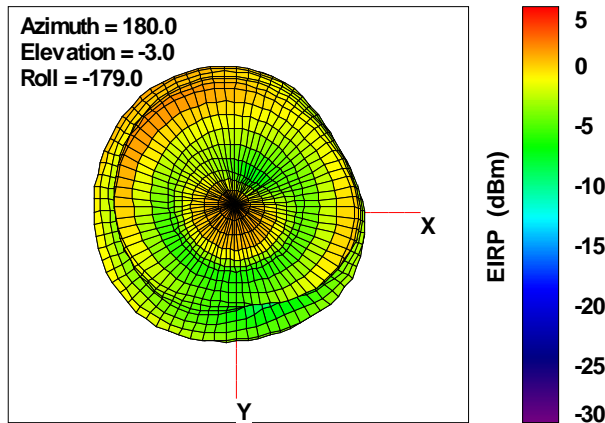
### Total EIRP, Right Side View



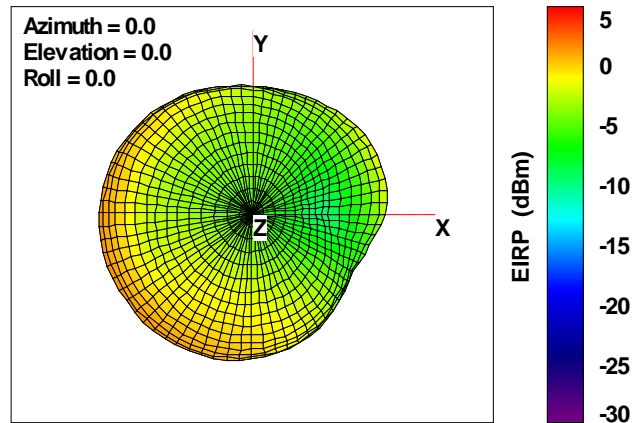
### Total EIRP, Left Side View



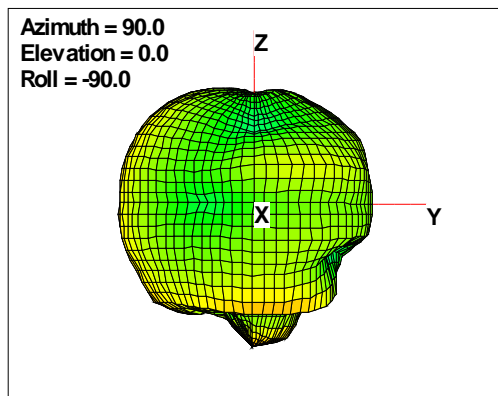
### Total EIRP, Bottom View



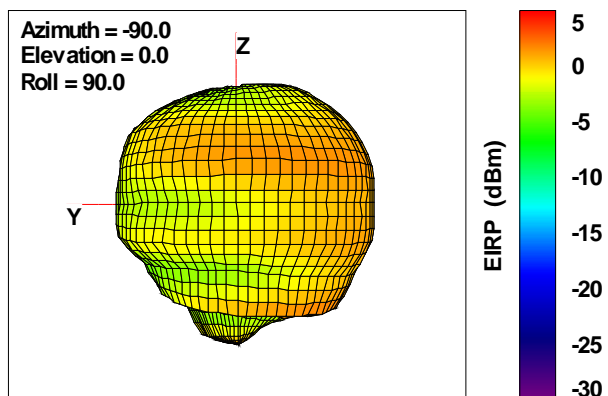
### Total EIRP, Top View



### Total EIRP, Front Face View

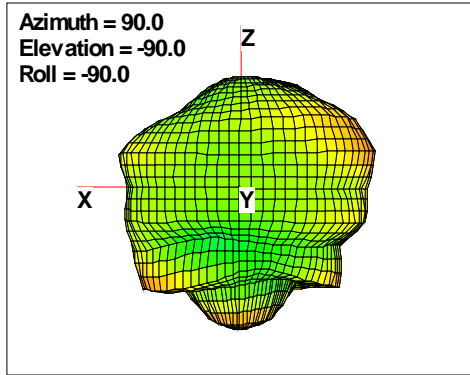


### Total EIRP, Back Face View

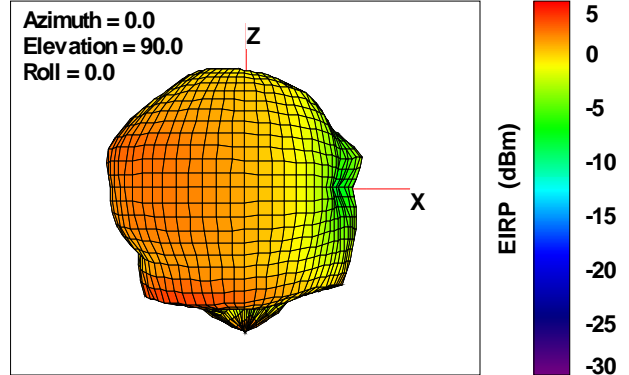


# WAN Free-Space Total EIRP, 1880MHz

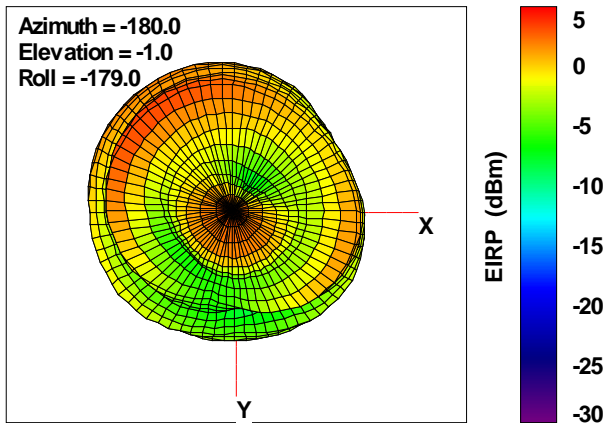
### Total EIRP, Right Side View



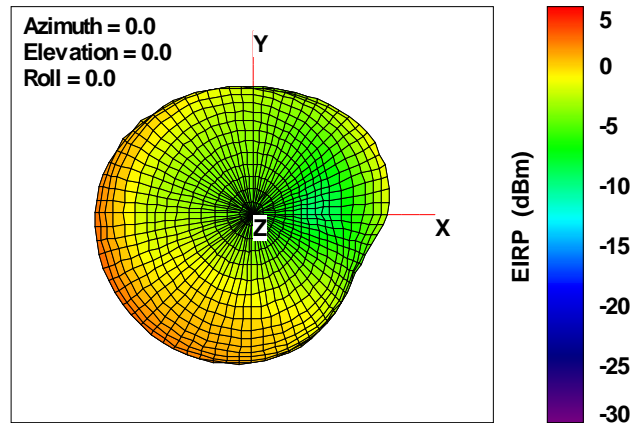
### Total EIRP, Left Side View



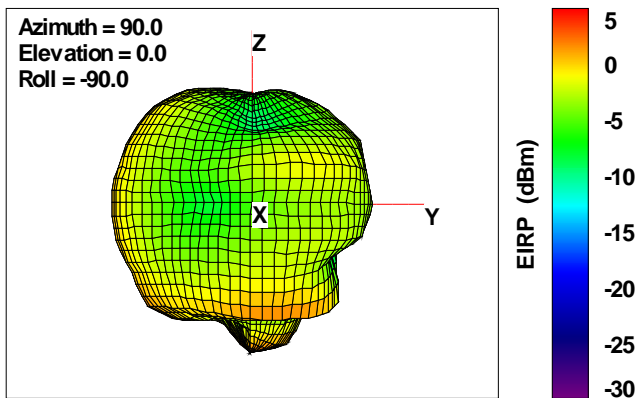
### Total EIRP, Bottom View



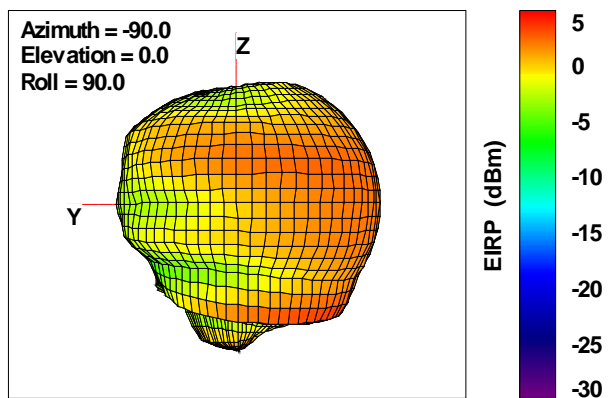
### Total EIRP, Top View



### Total EIRP, Front Face View

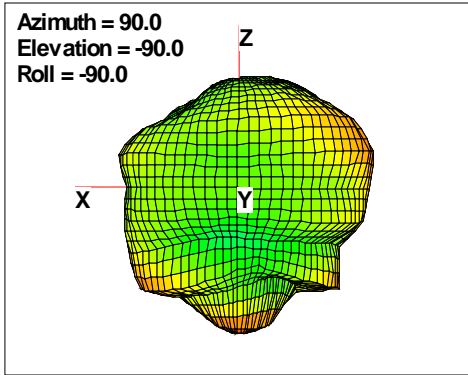


### Total EIRP, Back Face View

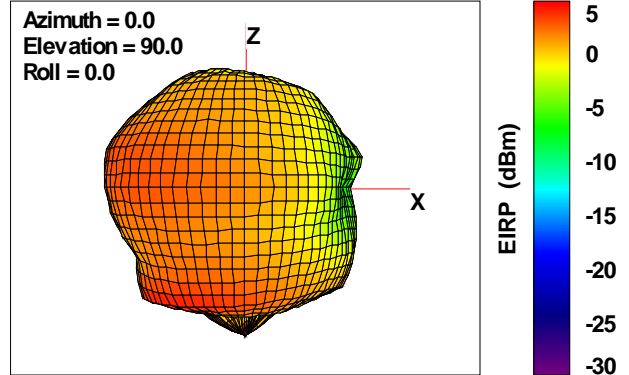


# WAN Free-Space Total EIRP, 1900MHz

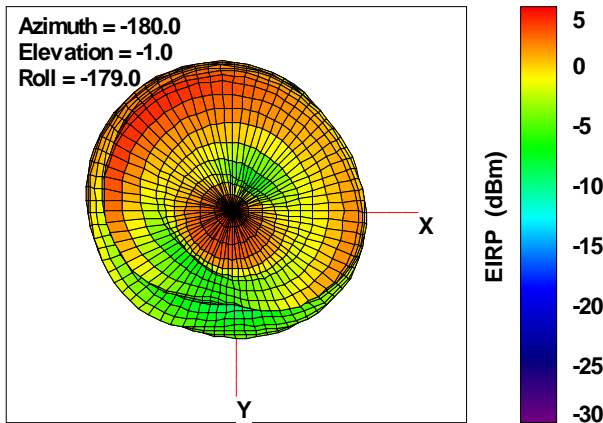
### Total EIRP, Right Side View



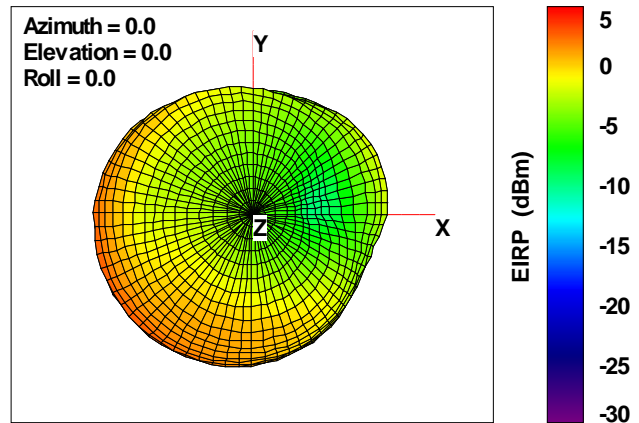
### Total EIRP, Left Side View



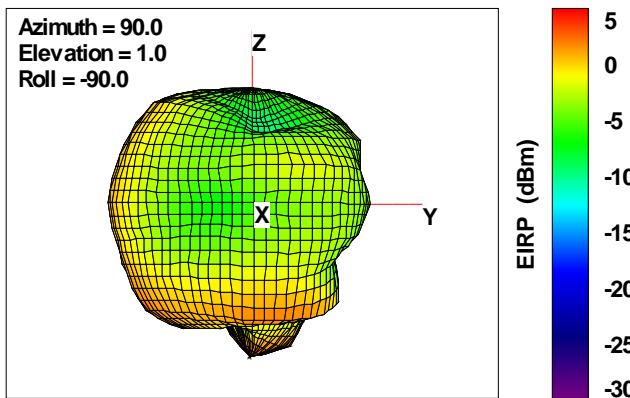
### Total EIRP, Bottom View



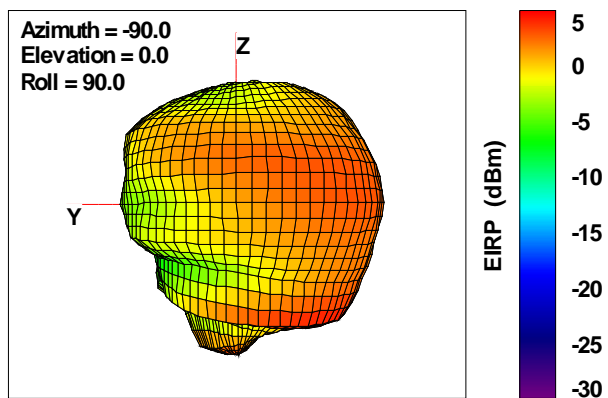
### Total EIRP, Top View



### Total EIRP, Front Face View

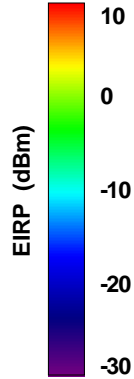
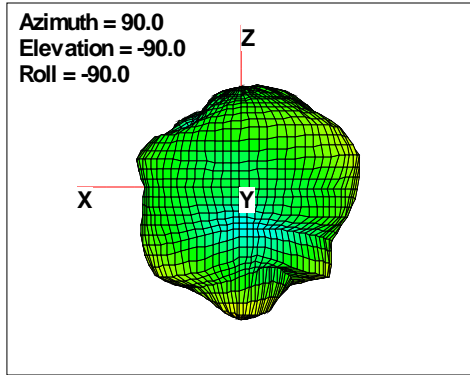


### Total EIRP, Back Face View

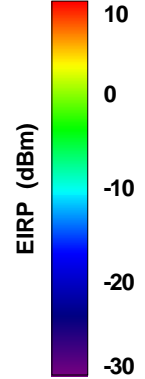
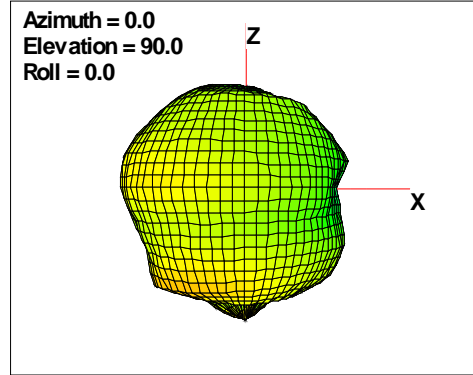


# WAN Free-Space Total EIRP, 1920MHz

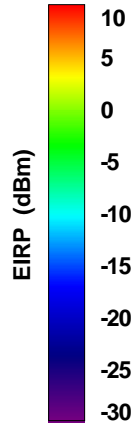
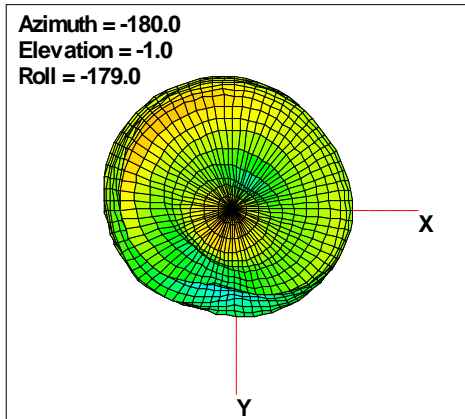
### Total EIRP, Right Side View



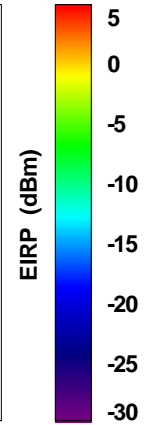
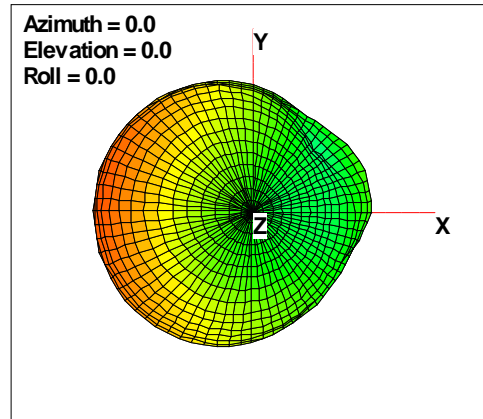
### Total EIRP, Left Side View



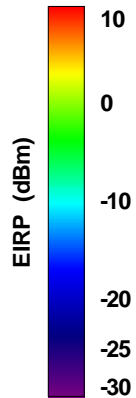
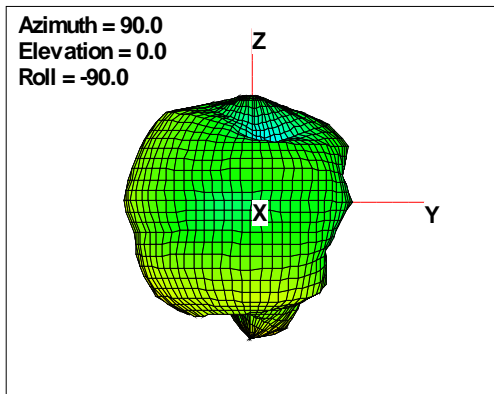
### Total EIRP, Bottom View



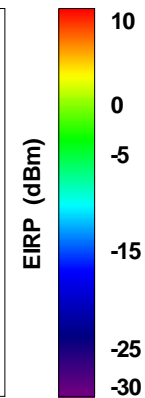
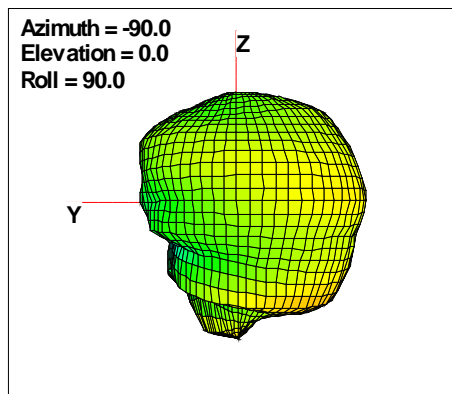
### Total EIRP, Top View



### Total EIRP, Front Face View

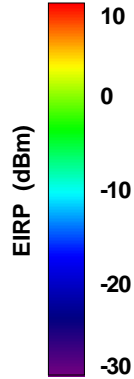
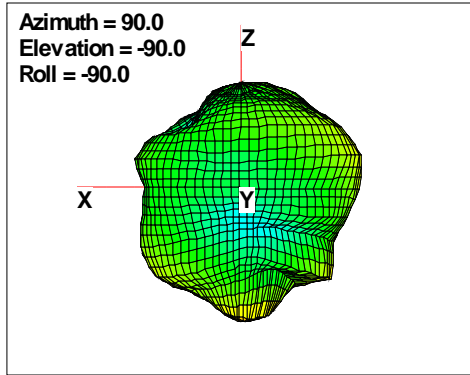


### Total EIRP, Back Face View

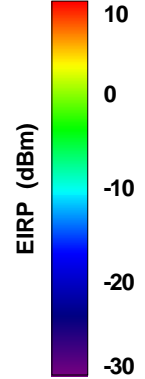
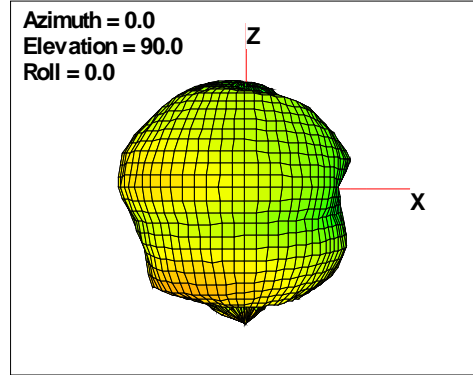


# WAN Free-Space Total EIRP, 1930MHz

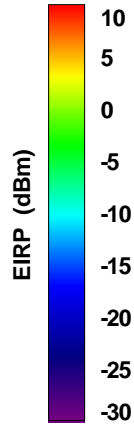
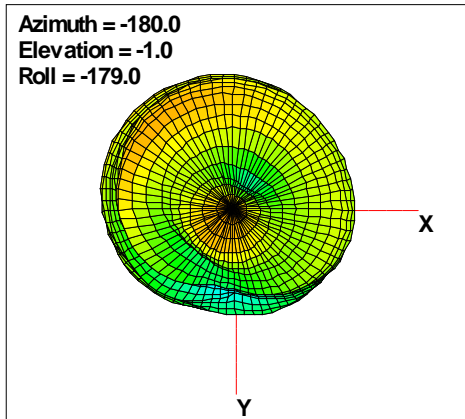
### Total EIRP, Right Side View



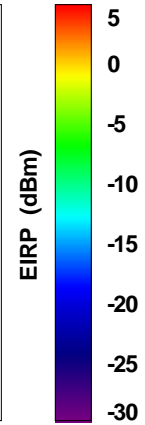
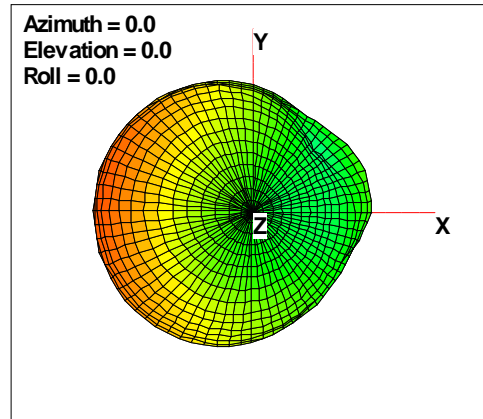
### Total EIRP, Left Side View



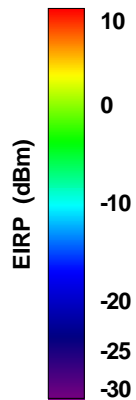
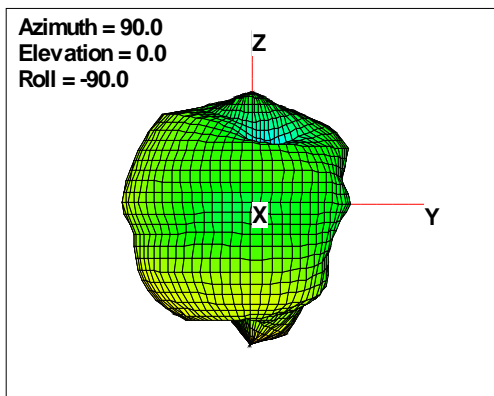
### Total EIRP, Bottom View



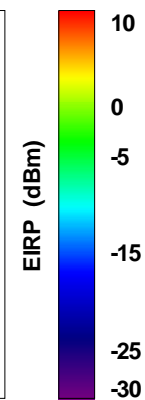
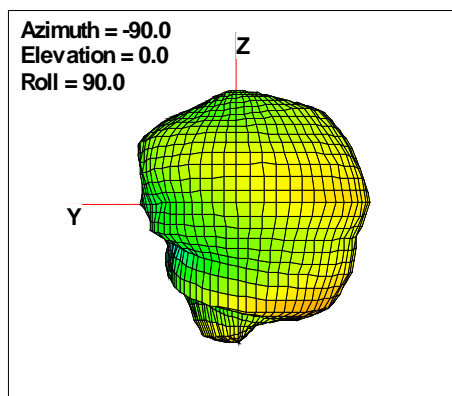
### Total EIRP, Top View



### Total EIRP, Front Face View

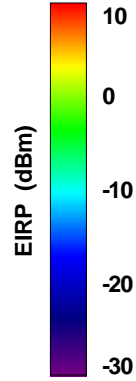
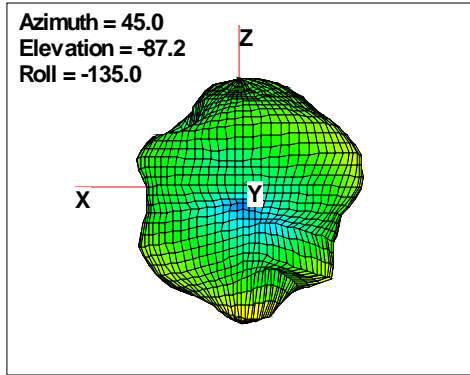


### Total EIRP, Back Face View

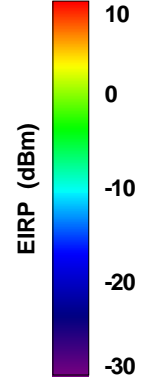
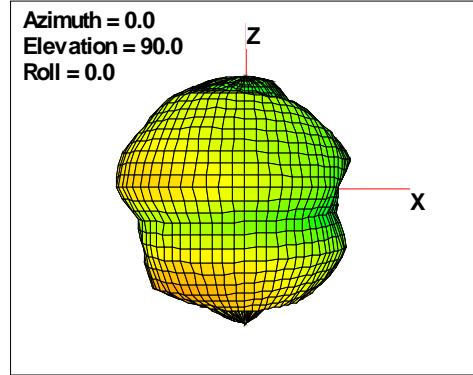


# WAN Free-Space Total EIRP, 1960MHz

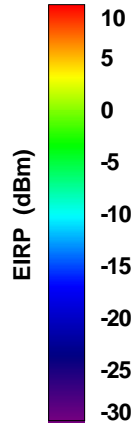
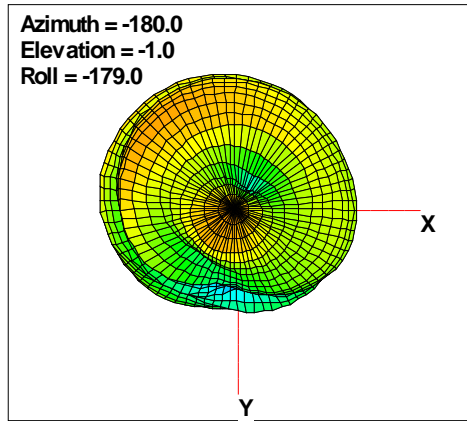
### Total EIRP, Right Side View



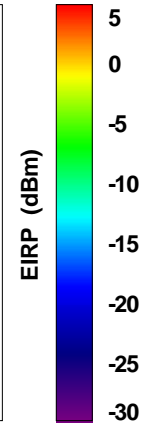
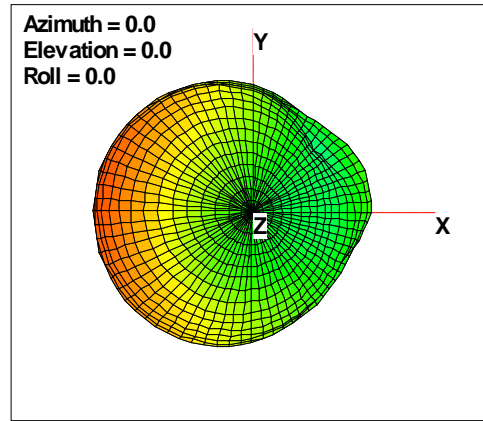
### Total EIRP, Left Side View



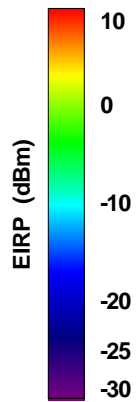
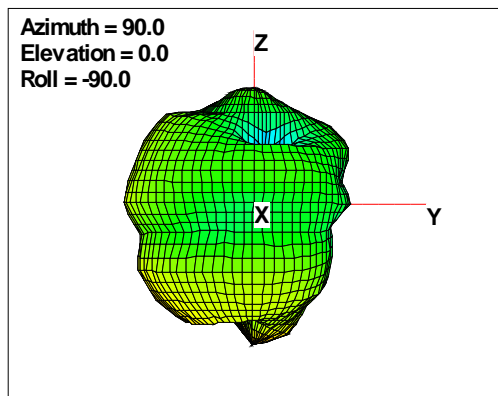
### Total EIRP, Bottom View



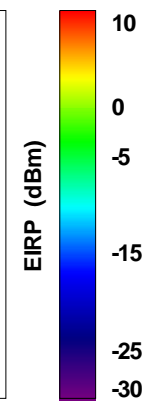
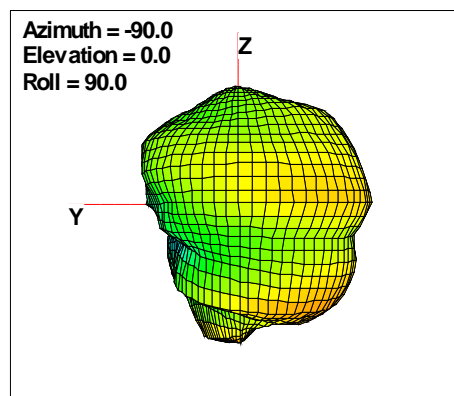
### Total EIRP, Top View



### Total EIRP, Front Face View

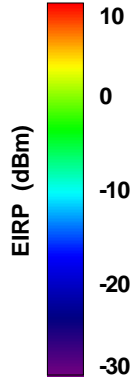
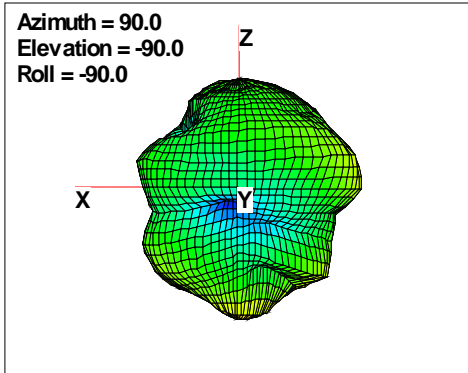


### Total EIRP, Back Face View

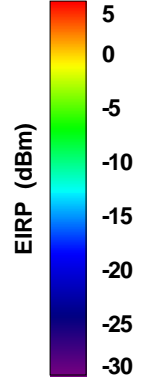
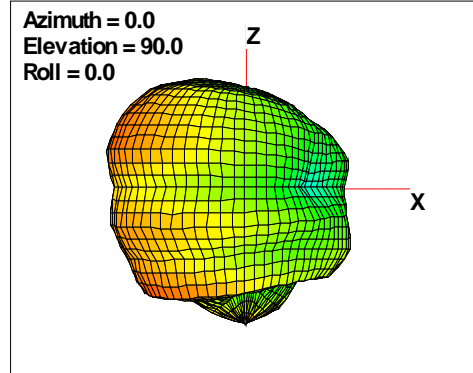


# WAN Free-Space Total EIRP, 1990MHz

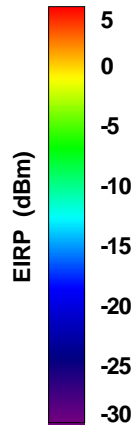
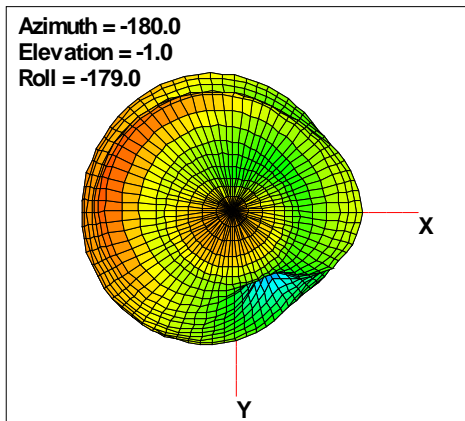
### Total EIRP, Right Side View



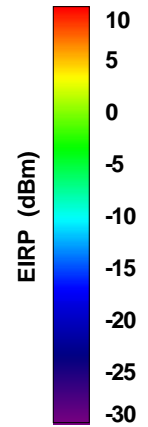
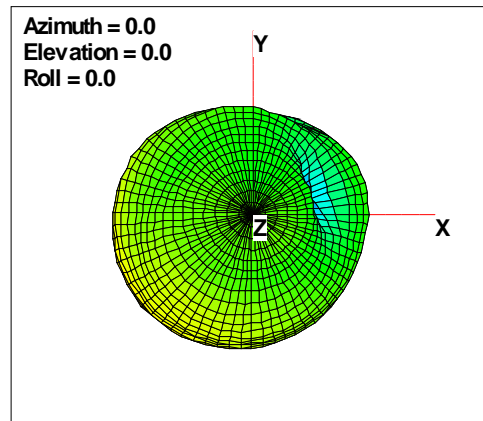
### Total EIRP, Left Side View



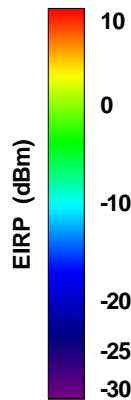
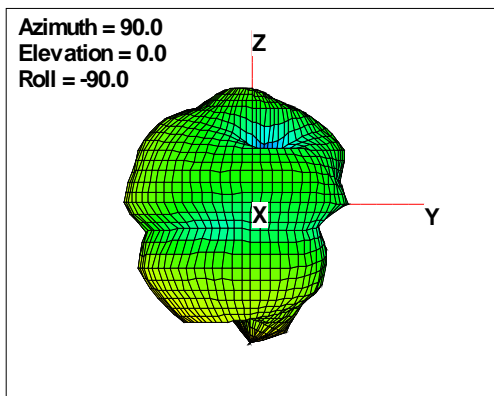
### Total EIRP, Bottom View



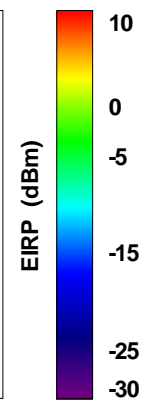
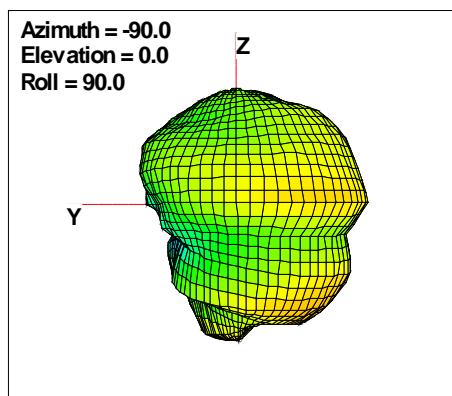
### Total EIRP, Top View



### Total EIRP, Front Face View



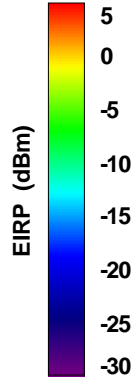
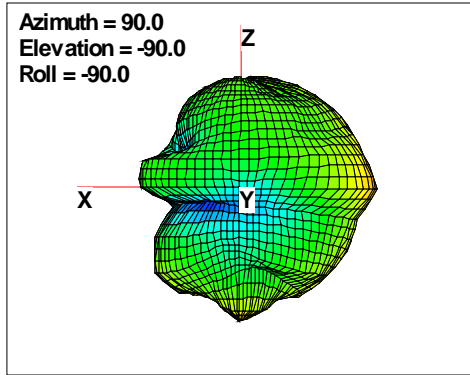
### Total EIRP, Back Face View



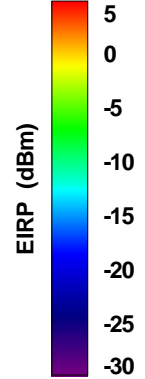
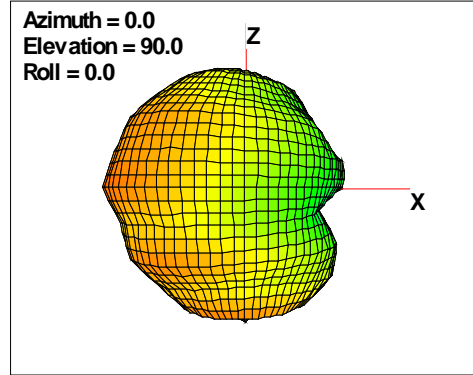


# WAN Free-Space Total EIRP, 2110MHz

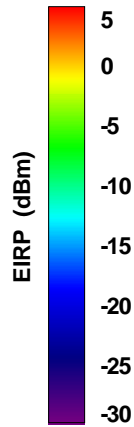
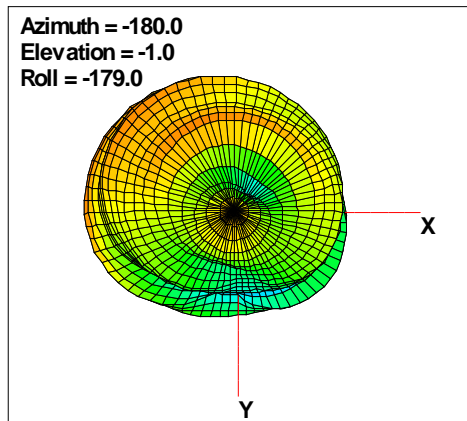
### Total EIRP, Right Side View



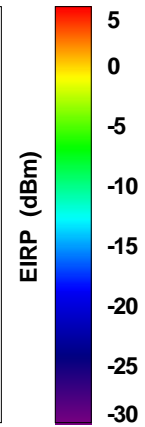
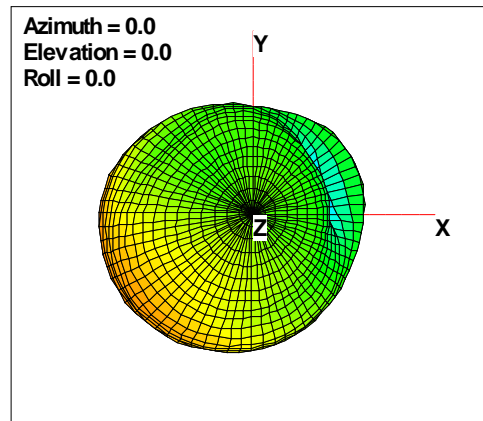
### Total EIRP, Left Side View



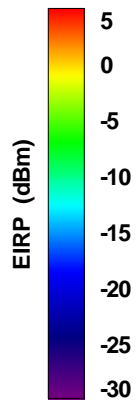
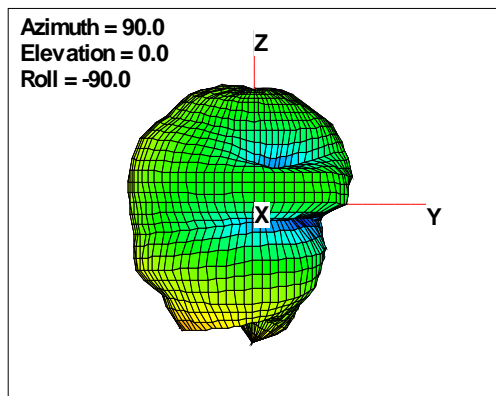
### Total EIRP, Bottom View



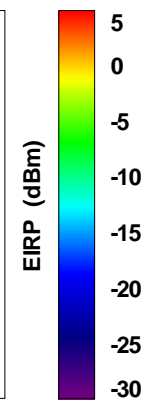
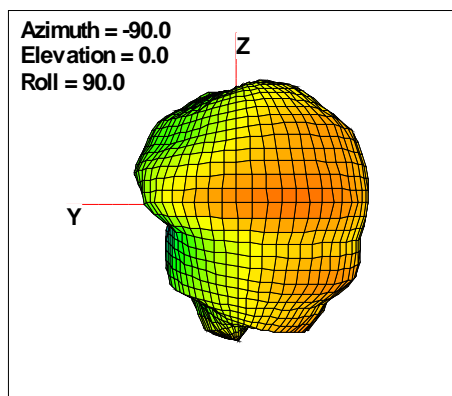
### Total EIRP, Top View



### Total EIRP, Front Face View

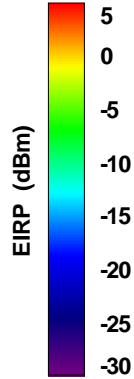
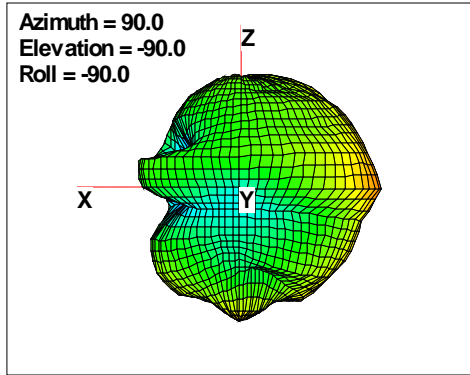


### Total EIRP, Back Face View

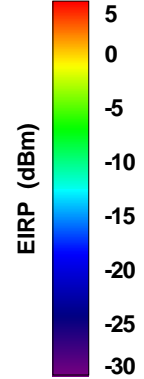
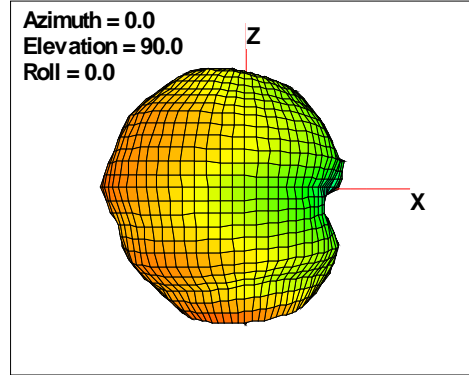


# WAN Free-Space Total EIRP, 2160MHz

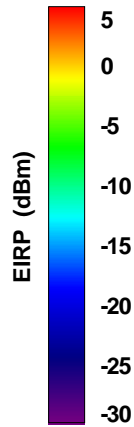
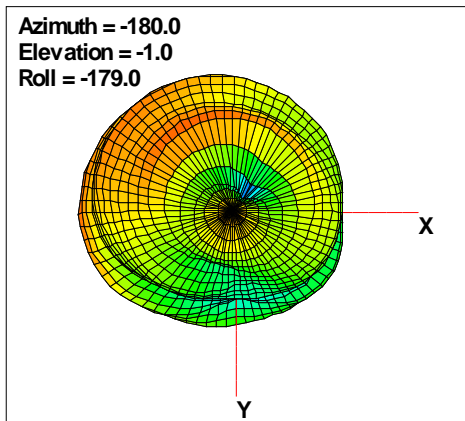
### Total EIRP, Right Side View



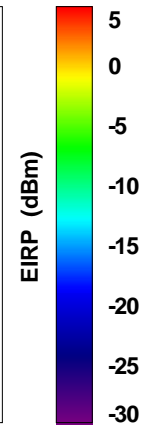
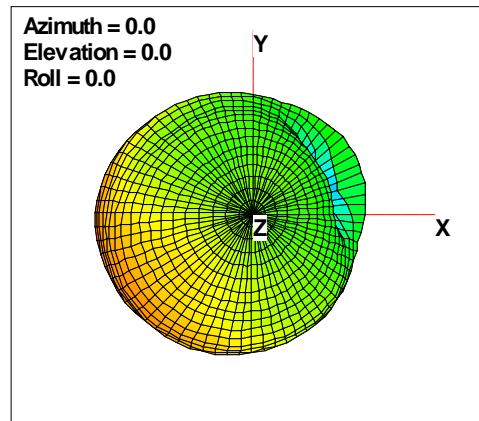
### Total EIRP, Left Side View



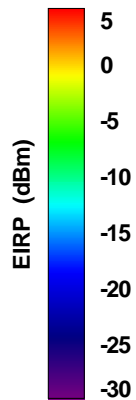
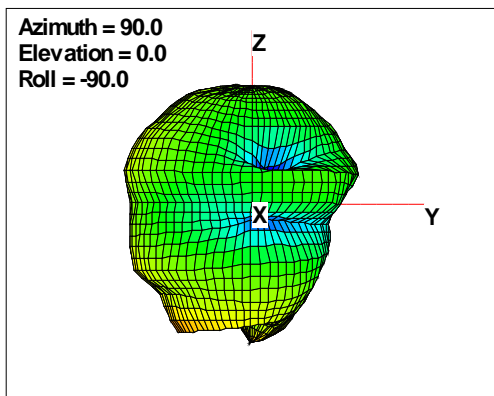
### Total EIRP, Bottom View



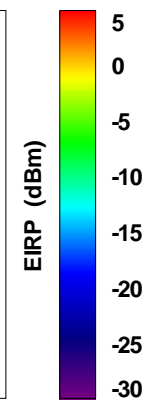
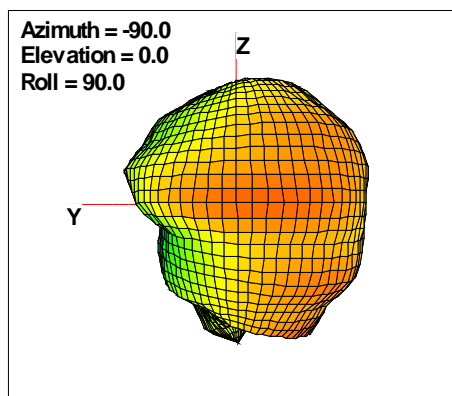
### Total EIRP, Top View



### Total EIRP, Front Face View

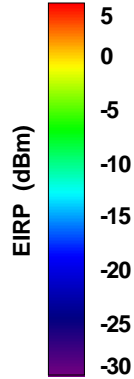
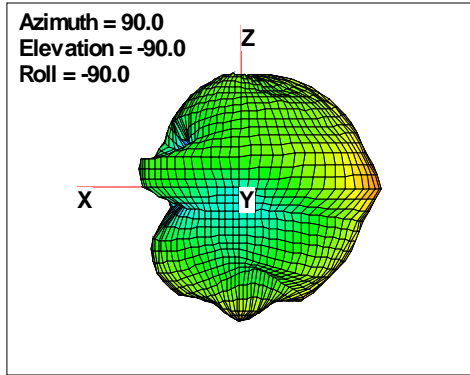


### Total EIRP, Back Face View

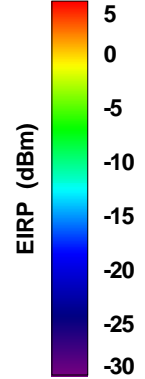
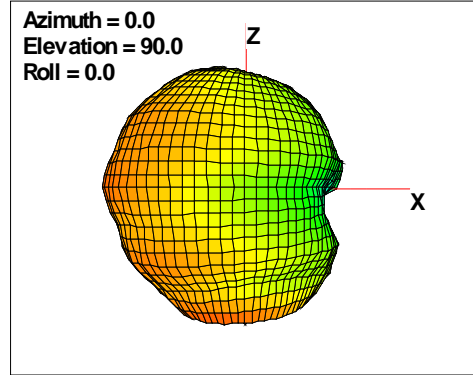


# WAN Free-Space Total EIRP, 2170MHz

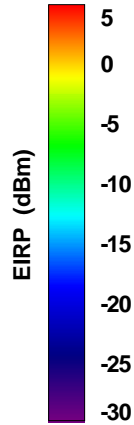
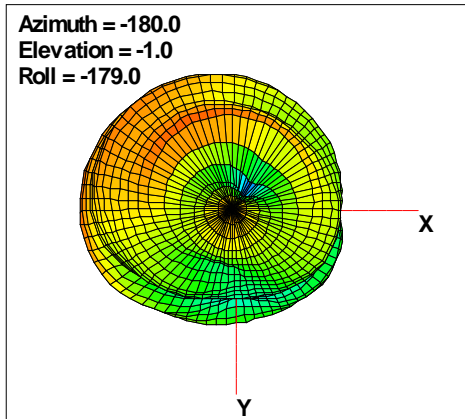
### Total EIRP, Right Side View



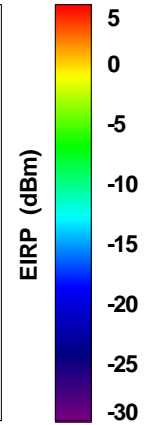
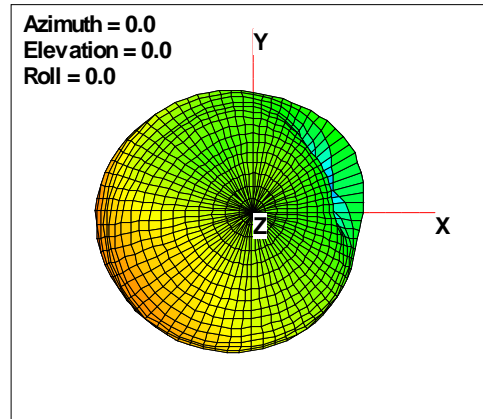
### Total EIRP, Left Side View



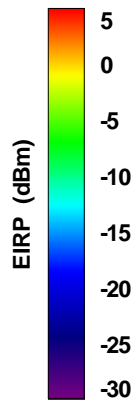
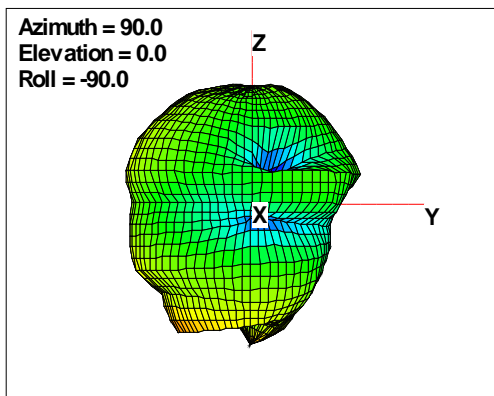
### Total EIRP, Bottom View



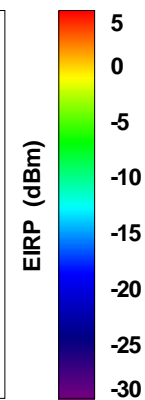
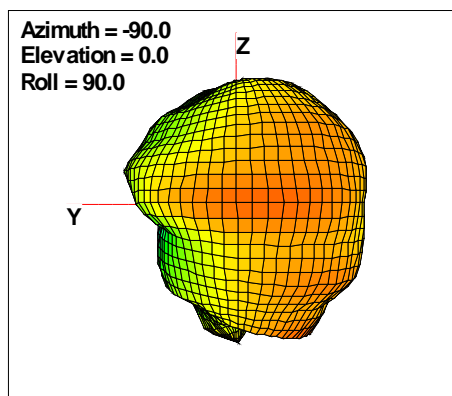
### Total EIRP, Top View



### Total EIRP, Front Face View

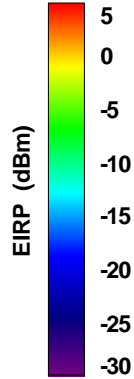
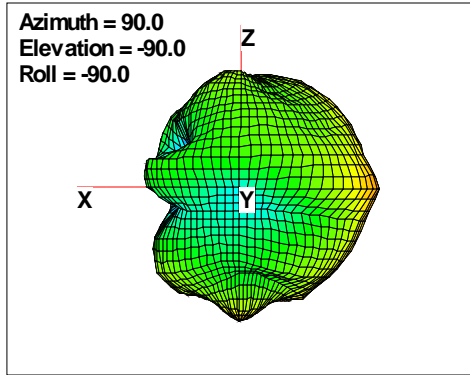


### Total EIRP, Back Face View

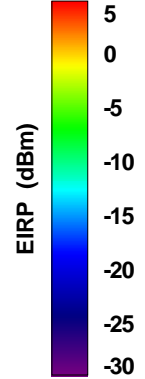
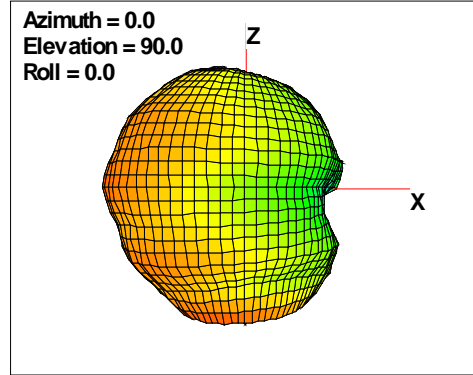


# WAN Free-Space Total EIRP, 2190MHz

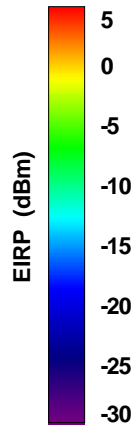
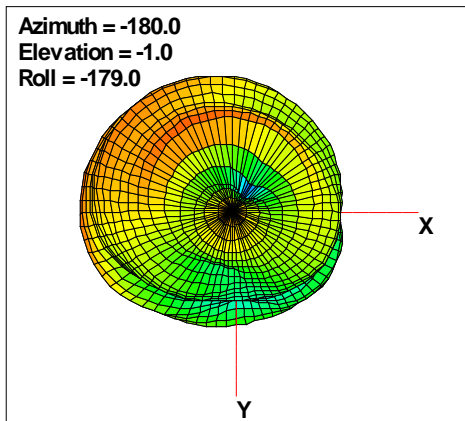
### Total EIRP, Right Side View



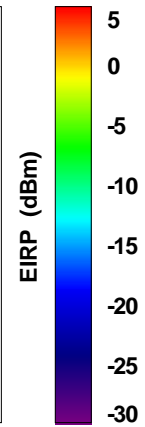
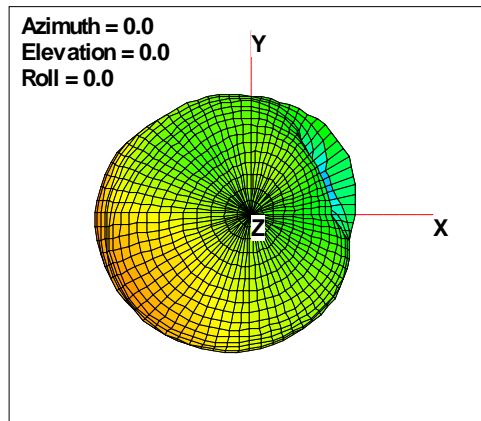
### Total EIRP, Left Side View



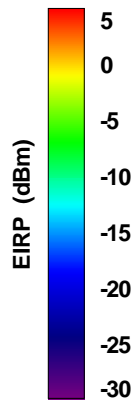
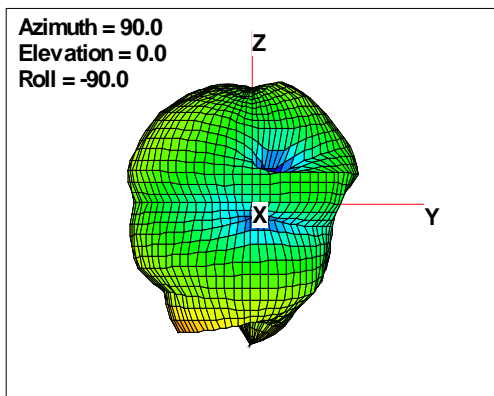
### Total EIRP, Bottom View



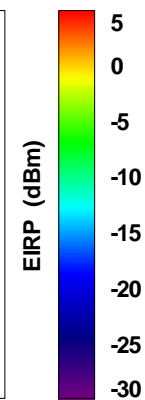
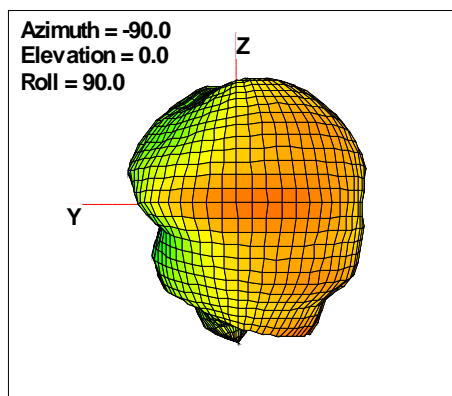
### Total EIRP, Top View



### Total EIRP, Front Face View

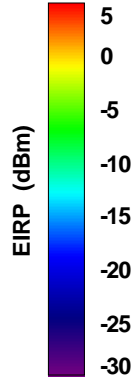
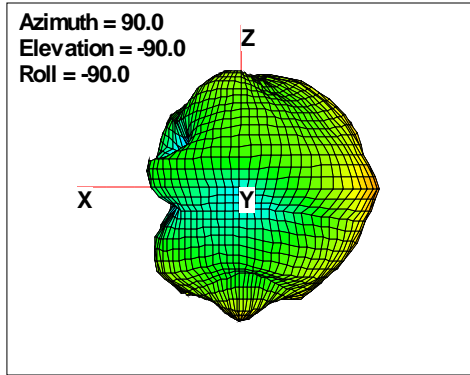


### Total EIRP, Back Face View

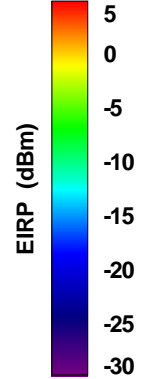
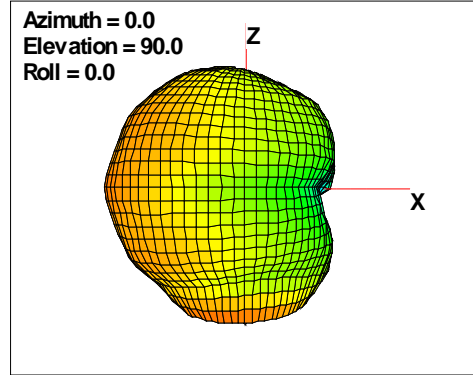


# WAN Free-Space Total EIRP, 2200MHz

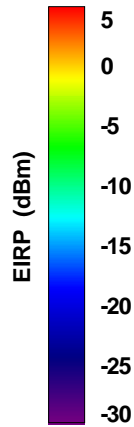
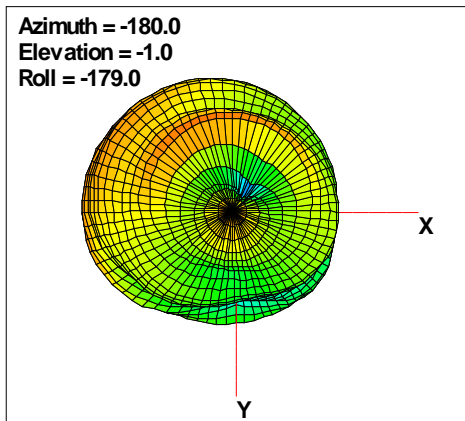
### Total EIRP, Right Side View



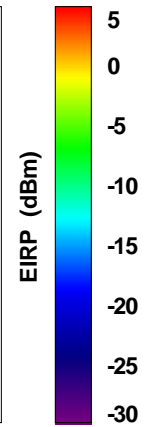
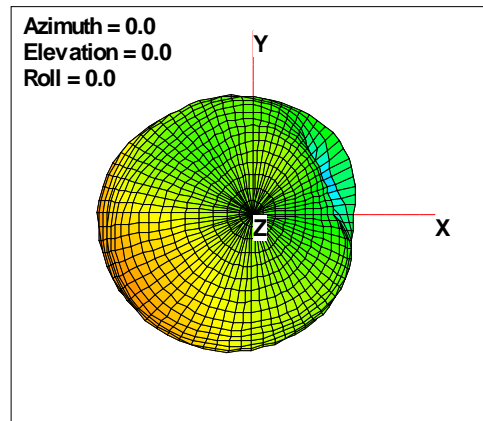
### Total EIRP, Left Side View



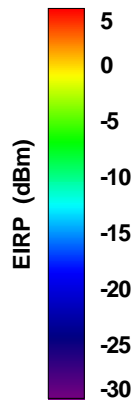
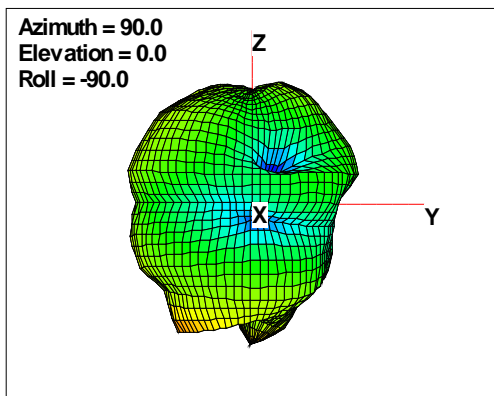
### Total EIRP, Bottom View



### Total EIRP, Top View



### Total EIRP, Front Face View



### Total EIRP, Back Face View

