



Change the values in the yellow boxes to calculate required readings
-130 or less at a range of 100 feet to meet NTIA regulations

Receive Ant Gain (dBm)	Cable Insertion Loss (dBm)	Repeater Amp Gain (dBm)	Repeater Ant Gain Best Case (dBi)	Range in Feet	Effective Isotropic Radiated Power @ Range In dBm
38	-3	28	3	100	-130.09
GPS Carrier Frequency MHz					
1575				Total System Gain	Total Signal Power @ Range in Watts
66				Range in Miles	97.9E-18
Avg Receive Power L 1 dBm North America					
-130				Range in Meters	Radiated Power dBm
				31.17	-64
Free Space loss with Isotropic Antennas					
-66.09				Range in Kilometers	Transmitted Power (W)
				0.03	199.5E-12
					Effective Radiated Power (W)
					398.1E-12
					Effective Radiated Power (dBW)
					-94