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Change the values in the yellow boxes to calculate required readings

Receive Ant LNA	Ant Cable Insertion	Adjustable Repeater Amp Gain (Max is 30 dB)	Repeater Ant Gain Best Case	Rerad Range in Feet	Repeated Signal Power @ Range In dBm
Gain dB	Loss				
35	-11	30	3	100	-138.93
GPS Carrier Frequency MHz		Total System Gain		Range in Miles	Total Signal Power @ Range in Watts
1227.6		57		0.02	12.8E-18
Avg Receive Power L1 dBm North America				Range in Meters	Radiated Power dBm
-130				31.17	-75
Free Space loss with Isotropic Antennas				Range in Kilometers	Transmitted Power (W)
-63.93				0.03	15.8E-12
					Effective Radiated Power (W)
					31.6E-12
					Effective Radiated Power (dBW)
					-105