

Change the values in the yellow boxes to calculate required readings -140 or less at a range of 100 feet to meet NTIA regulations

Receive Ant Gai	n Ant Cable Insertion Loss	Repeater Amp Gain	Repeater Ant Gain Best Case	Range in Feet	Repeated Signal Power @ Range In dBm
38	-17	35	3	150	-140.61
	GPS Carrier Frequency MHz 1575		Total System Gain 59	Range in Miles 0.03	Total Signal Power @ Range in Watts 8.7E-18
Avg R	Receive Power L1 dBm North A -130	merica		Range in Meters 46.75	Radiated Power dBm -71
Free	e Space loss with Isotropic Ante -69.61		Range in Kilometers 0.05	Transmitted Power (W) 39.8E-12	
					Effective Radiated Power (W) 79.4E-12

Effective Radiated Power (dBW) -101



Note: calculations based from reradiating antenna out to 150 ft. including inside building.