



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 Gain	Cable/System Loss	System Gain	Retransmit Ant Gain dBi	Range in Feet	Repeated Signal Power @ Range In dBm
38	-9	20.5	3	100	-143.59

GPS Carrier Frequency MHz
1575

Total System Gain
52.5

Range in Miles
0.02

Total Signal Power @ Range in Watts
4.4E-18

Avg Receive Power L1 dBm North America
-130

Range in Meters
31.17

Radiated Power dBm
-77.5

Free Space loss with Isotropic Antennas
-66.09

Range in Kilometers
0.03

Transmitted Power (W)
8.9E-12

Effective Radiated Power (W)
17.8E-12

Effective Radiated Power (dBW)
-107.5

