

L1 Frequency	1.57542	GHz	
Wavelength	0.19042541	m	
Satellite Distance	25236	km	
Test Distance	100	feet	30.48006 m

Satellite Transmitter

Transmitter Power	14	dBW
RF Losses in TX Path	1.25	dB
Antenna Gain (WRT isotropic)	13.5	dBi
Satellite EIRP	26.25	dBW

Propagation

Atmospheric and Polarization Losses	0.5	dB
Free Space Path Loss	184.43	dB

Received Power on Earth

	-158.68	dBW	-128.68	dBm
Gain of Receive Antenna	38	dBic	58532A GPS L1 Reference Antenna (MFG=Symmetricom)	
RF Losses in cabling and connectors	12.3	dB	RG-59 (Length =100 feet)	
Fixed Attenuator	3	dB		
Gain of Line Amplifier	25	dB	LA25RPDC (MFG=GPS Networking Inc)	
Gain of Passive Radiating Antenna	4	dBic	Model PA175-S (MFG=Allis Communications Company)	
Free Space Path Loss	66.07	dB	100 Foot Distance	

RF Power Level @ 100 ft distance

-143.05
