${f Spacecraft}$	
Spacecraft Transmitted Power Output	3 dBW
Spacecraft Total Transmission Line Loss	2.2 dB
Spacecraft Antenna Gain	4.0 dBi
Spacecraft Effective Isotropic Radiated Power	4.8 dBW

Downlink Path	
Path Loss	174.7 dB
Atmospheric Loss	$0.3~\mathrm{dB}$
Ionospheric Loss	$0.8~\mathrm{dB}$
Rain Loss	$0.1 \mathrm{~dB}$
Isotropic Signal Level at Ground Station	-171.1 dBW

Ground Station	
Ground Station Antenna Gain	51.7 dBi
Ground Station Total Transmission Line Loss	2.0 dB
Ground Station Effective Noise Temperature	$200 \mathrm{K}$
Ground Station Figure of Merit (G/T)	$26.7~{\rm dB/K}$
Signal Power at Ground Station LNA Input	-121.3 dBW
Ground Station Receiver Bandwidth	$40 \mathrm{~MHz}$
Ground Station Receiver Noise Power	-129.6 dBW
Signal-to-Noise Power Ratio at Ground Station Receiver	$8.2 \mathrm{~dB}$
Digital System Required Signal-to-Noise Ratio	$6.0~\mathrm{dB}$
System Link Margin	2.2 dB