

| Command Link Budget (On Station) |          |          |          |
|----------------------------------|----------|----------|----------|
| Link Parameters                  |          | High U/L | Low U/L  |
| Frequency                        | (MHz)    | 17,793.5 | 17,793.5 |
| Uplink EIRP                      | (dBW)    | 87.9     | 70.9     |
| Spreading Loss                   | (dB/m2)  | 162.9    | 162.9    |
| Incident Flux Density            | (dBW/m2) | -75.0    | -92.0    |
| Aperture Factor                  | (dB-m2)  | -46.5    | -46.5    |
| Polarization Loss                | (dB)     | 0.0      | 0.0      |
| Incident Isotropic Power         | (dBW)    | -121.5   | -138.5   |
| Antenna Gain (EOC)               | (dBi)    | 20.4     | 20.4     |
| Total Receive Losses             | (dB)     | 8.0      | 8.0      |
| Receiver Input Power             | (dBW)    | -109.1   | -126.1   |
| Receiver Threshold               | (dBW)    | -138.0   | -138.0   |
| Spacecraft Margin                | (dB)     | 28.9     | 11.9     |