

| <b>General</b>                        | <b>Unit</b> |                     |
|---------------------------------------|-------------|---------------------|
| User terminal type                    |             | INM-M<br>(Low Gain) |
| Emission Designator<br>Modulation     |             | 10K0G1W<br>O-QPSK   |
| <b>Uplink</b>                         |             |                     |
| Frequency                             | GHz         | 6.5                 |
| LES elevation angle                   | (deg)       | 5.0                 |
| LES EIRP towards satellite            | (dBW)       | 56.4                |
| Path Loss                             | (dB)        | 200.9               |
| Mean atmospheric loss                 | (dB)        | 0.4                 |
| Satellite G/T                         | (dB/K)      | -10.4               |
| Up-path C/No                          | (dBW/Hz)    | 73.3                |
| <b>Downlink</b>                       |             |                     |
| Frequency                             | GHz         | 1.5                 |
| User terminal elevation angle         | (deg)       | 20.0                |
| Satellite EIRP                        | (dBW)       | 21.1                |
| Path Loss                             | (dB)        | 188.3               |
| Mean atmospheric loss                 | (dB)        | 0.1                 |
| User terminal G/T                     | (dB/K)      | -12.0               |
| Down-path C/No                        | (dBW/Hz)    | 49.3                |
| <b>Total</b>                          |             |                     |
| Mean satellite C/IMo                  | (dB/Hz)     | 54.4                |
| Co-channel interference               | (dB/Hz)     | 53.5                |
| Adjacent sat. interference allocation | (dB)        | 1.0                 |
| Mean overall C/No                     | (dB/Hz)     | 46.0                |
| Mean overall C/N                      | (dB)        | 9.0                 |
| <b>Margin</b>                         |             |                     |
| C/N objective                         | (dB)        | 5.0                 |
| C/N margin                            | (dB)        | 4.0                 |