

| <b>General</b>                        | <b>Unit</b> |                   |
|---------------------------------------|-------------|-------------------|
| User terminal type                    |             | INM-D/D+          |
| Emission Designator<br>Modulation     |             | 2K50F1D<br>32-FSK |
| <b>Uplink</b>                         |             |                   |
| Frequency                             | GHz         | 6.5               |
| LES elevation angle                   | (deg)       | 5.0               |
| LES EIRP towards satellite            | (dBW)       | 54.4              |
| Path Loss                             | (dB)        | 200.9             |
| Mean atmospheric loss                 | (dB)        | 0.4               |
| Satellite G/T                         | (dB/K)      | -10.4             |
| Up-path C/No                          | (dBW/Hz)    | 71.3              |
| <b>Downlink</b>                       |             |                   |
| Frequency                             | GHz         | 1.5               |
| User terminal elevation angle         | (deg)       | 20.0              |
| Satellite EIRP                        | (dBW)       | 20.5              |
| Path Loss                             | (dB)        | 188.3             |
| Mean atmospheric loss                 | (dB)        | 0.1               |
| User terminal G/T                     | (dB/K)      | -22.1             |
| Down-path C/No                        | (dBW/Hz)    | 38.6              |
| <b>Total</b>                          |             |                   |
| Mean satellite C/IMo                  | (dB/Hz)     | 69.8              |
| Co-channel interference               | (dB/Hz)     | 33.0              |
| Adjacent sat. interference allocation | (dB)        | 1.0               |
| Mean overall C/No                     | (dB/Hz)     | 31.0              |
| Mean overall C/N                      | (dB)        | 3.0               |
| <b>Margin</b>                         |             |                   |
| C/N objective                         | (dB)        | -10.9             |
| C/N margin                            | (dB)        | 14.0              |