

| <b>General</b>                        | <b>Unit</b> |                 |
|---------------------------------------|-------------|-----------------|
| User terminal type                    |             | RBGAN           |
| Emission Designator<br>Modulation     |             | 30K0G1X<br>QPSK |
| <b>Uplink</b>                         |             |                 |
| Frequency                             | GHz         | 6.5             |
| SAS elevation angle                   | (deg)       | 5.0             |
| SAS EIRP towards satellite            | (dBW)       | 53.8            |
| Path Loss                             | (dB)        | 200.9           |
| Mean atmospheric loss                 | (dB)        | 0.4             |
| Satellite G/T                         | (dB/K)      | -10.4           |
| Up-path C/No                          | (dBW/Hz)    | 70.7            |
| <b>Downlink</b>                       |             |                 |
| Frequency                             | GHz         | 1.5             |
| User terminal elevation angle         | (deg)       | 20.0            |
| Satellite EIRP                        | (dBW)       | 38.4            |
| Path Loss                             | (dB)        | 188.3           |
| Mean atmospheric loss                 | (dB)        | 0.1             |
| User terminal G/T                     | (dB/K)      | -16.7           |
| Down-path C/No                        | (dBW/Hz)    | 61.9            |
| <b>Total</b>                          |             |                 |
| Mean satellite C/IMo                  | (dB/Hz)     | 62.7            |
| Co-channel interference               | (dB/Hz)     | 62.1            |
| Adjacent sat. interference allocation | (dB)        | 1.0             |
| Mean overall C/No                     | (dB/Hz)     | 56.2            |
| Mean overall C/N                      | (dB)        | 11.6            |
| <b>Margin</b>                         |             |                 |
| C/N objective                         | (dB)        | 6.8             |
| C/N margin                            | (dB)        | 4.7             |