

TYPICAL C-BAND LINK BUDGETS

| | | 24K0G7D | 26K7G7D | 80K0G7D | 106KG7D | 160KG7D | 640KG7D | 4M33G7D | 6M10G7W | 6M10G7W | 6M10G7W | 30M0G7W | 8M00G7D | 8M00G7D | 36M0F9F | 36M0F9F | 33M3G7D | |
|--------------------------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| G rx sat | (dBi) | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | |
| T sat | (K) | 602.6 | 602.6 | 602.6 | 602.6 | 602.6 | 602.6 | 602.6 | 602.6 | 602.6 | 602.6 | 602.6 | 602.6 | 602.6 | 602.6 | 602.6 | 602.6 | |
| G tx sat | (dBi) | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | |
| Transp BW | (MHz) | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 | |
| Signal BW | (MHz) | 0.024 | 0.027 | 0.080 | 0.106 | 0.160 | 0.640 | 4.330 | 6.100 | 6.100 | 6.100 | 30.000 | 8.000 | 8.000 | 36.000 | 36.000 | 33.300 | |
| C/Nthr Clr Sky | (dB) | 5.3 | 8.3 | 7.0 | 2.8 | 2.8 | 2.8 | 6.1 | 6.4 | 6.4 | 6.4 | 9.8 | 6.1 | 6.1 | 13.0 | 13.0 | 9.8 | |
| Service Area | | | | | | | | | | | | | | | | | | |
| Uplink EOC U/L | (dB) | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | |
| G 1m ² | (dBi) | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | |
| G/T max | (dB/K) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | |
| FSL | (dB) | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | 200.2 | |
| L atmos | (dB) | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 | 0.0 | 0.2 | |
| Downlink EOC D/L | (dB) | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -4.0 | -2.0 | -2.0 | -4.0 | |
| FSL | (dB) | 196.3 | 196.3 | 196.3 | 196.3 | 196.3 | 196.3 | 196.3 | 196.3 | 196.3 | 196.3 | 196.3 | 196.3 | 196.3 | 196.3 | 196.3 | 196.3 | |
| L atmos | (dB) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | |
| Space Station SFD/EIRP | | | | | | | | | | | | | | | | | | |
| Min | | -99.5 | -99.5 | -99.5 | -99.5 | -99.5 | -99.5 | -99.5 | -99.5 | -99.5 | -99.5 | -99.5 | -99.5 | -99.5 | -99.5 | -99.5 | -99.5 | |
| Max | | -79.5 | -79.5 | -79.5 | -79.5 | -79.5 | -79.5 | -79.5 | -79.5 | -79.5 | -79.5 | -79.5 | -79.5 | -79.5 | -79.5 | -79.5 | -79.5 | |
| PAD wrt mid-range | (dB) | -3.0 | -3.0 | -3.0 | -3.0 | -3.0 | -3.0 | -3.0 | -3.0 | -3.0 | -3.0 | -6.0 | -3.0 | -3.0 | 6.0 | 6.0 | -6.0 | |
| SFD (@ Beam Ctr) | (dBW/m ²) | -92.5 | -92.5 | -92.5 | -92.5 | -92.5 | -92.5 | -92.5 | -92.5 | -92.5 | -92.5 | -95.5 | -92.5 | -92.5 | -83.5 | -83.5 | -95.5 | |
| Sat EIRP max | (dBW) | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | |
| Uplink (TX Earth Station) | | | | | | | | | | | | | | | | | | |
| Diam | (m) | 7.0 | 7.0 | 7.0 | 8.0 | 4.5 | 7.0 | 4.5 | 7.0 | 7.0 | 7.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 10.0 | |
| Gtx | (dBi) | 51.3 | 51.3 | 51.3 | 52.4 | 47.4 | 51.3 | 47.4 | 51.3 | 51.3 | 51.3 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 54.4 | |
| EIRP ES (EOC) | (dBW) | 40.7 | 43.2 | 47.2 | 48.3 | 50.0 | 56.2 | 61.5 | 64.2 | 64.2 | 64.2 | 72.3 | 64.8 | 64.8 | 78.9 | 78.9 | 72.5 | |
| Ptx (EOC) | (dBW) | -10.6 | -8.1 | -4.1 | -4.1 | 2.6 | 4.9 | 14.1 | 12.9 | 12.9 | 12.9 | 19.9 | 12.4 | 12.4 | 26.5 | 26.5 | 18.2 | |
| Ptx (COB) | (dBW) | -14.6 | -12.1 | -8.1 | -8.1 | -1.4 | 0.9 | 10.1 | 8.9 | 8.9 | 8.9 | 15.9 | 8.4 | 8.4 | 22.5 | 22.5 | 14.2 | |
| Downlink (Space Station) | | | | | | | | | | | | | | | | | | |
| Ptx (max COB) | (dBW) | -18.7 | -16.2 | -12.2 | -11.2 | -9.2 | -3.2 | 2.3 | 4.8 | 4.8 | 4.8 | 14.3 | 5.3 | 5.3 | 10.0 | 10.0 | 14.3 | |
| Ptx (min EOC) | (dBW) | -21.7 | -19.2 | -15.2 | -14.2 | -12.2 | -6.2 | -0.7 | 1.8 | 1.8 | 1.8 | 14.2 | 2.3 | 2.3 | 9.9 | 9.9 | 14.2 | |
| EIRP sat | (dBW) | 10.0 | 12.5 | 16.5 | 17.5 | 19.5 | 25.5 | 31.0 | 33.5 | 33.5 | 33.5 | 43.0 | 34.0 | 34.0 | 38.7 | 38.7 | 43.0 | |
| RX Earth Station | | | | | | | | | | | | | | | | | | |
| Diameter | (m) | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 7.0 | 8.0 | 4.5 | 7.0 | 10.0 | 4.5 | 7.0 | 10.0 | |
| G rx ES | (dBi) | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 47.4 | 48.5 | 43.5 | 47.4 | 50.5 | 43.5 | 47.4 | 50.5 | |
| T ES | (K) | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | |
| U/L Interference Allocations | | | | | | | | | | | | | | | | | | |
| (C/I)U/L X-pol, ACI, IMOD, ASI | (dB) | 15.0 | 17.0 | 16.3 | 16.1 | 16.3 | 16.2 | 13.4 | 14.5 | 14.5 | 14.5 | 19.9 | 13.8 | 13.8 | 27.1 | 27.1 | 19.4 | |
| C/N Thermal Up | (dB) | 25.5 | 27.6 | 26.8 | 26.6 | 26.8 | 26.8 | 24.0 | 25.0 | 25.0 | 25.0 | 26.1 | 24.3 | 24.3 | 32.8 | 32.8 | 25.6 | |
| (C/N) Total Up | (dB) | 14.6 | 16.7 | 15.9 | 15.7 | 15.9 | 15.9 | 13.1 | 14.1 | 14.1 | 14.1 | 19.0 | 13.4 | 13.4 | 26.0 | 26.0 | 18.5 | |
| D/L Interference Allocations | | | | | | | | | | | | | | | | | | |
| (C/I)U/L X-pol, ACI, IMOD, ASI | (dB) | 15.6 | 17.6 | 16.8 | 16.7 | 16.8 | 16.8 | 14.0 | 15.0 | 15.7 | 15.9 | 20.6 | 15.1 | 15.4 | 18.7 | 22.5 | 22.4 | |
| C/N Dn (COB) | (dB) | 22.6 | 24.6 | 23.8 | 23.7 | 23.8 | 23.8 | 21.0 | 22.0 | 25.7 | 26.9 | 24.7 | 25.2 | 28.0 | 19.9 | 23.8 | 30.8 | |
| (C/N) Total Dn (COB) | (dB) | 14.8 | 16.8 | 16.1 | 15.9 | 16.0 | 16.0 | 13.2 | 14.2 | 15.3 | 15.5 | 19.2 | 14.7 | 15.1 | 16.2 | 20.1 | 21.8 | |
| C/N Dn (EOC) | (dB) | 15.6 | 17.6 | 16.8 | 16.7 | 16.8 | 16.8 | 14.0 | 15.0 | 18.7 | 19.9 | 20.6 | 18.2 | 21.0 | 17.8 | 21.7 | 26.7 | |
| (C/N) Total Dn (EOC) | (dB) | 9.8 | 11.8 | 11.1 | 10.9 | 11.0 | 11.0 | 8.2 | 9.2 | 11.1 | 11.5 | 16.1 | 10.5 | 11.4 | 14.1 | 18.0 | 20.1 | |
| C/N total max | (dB) | 11.7 | 13.7 | 13.0 | 12.8 | 13.0 | 12.9 | 10.1 | 11.1 | 11.7 | 11.7 | 16.0 | 11.0 | 11.2 | 15.8 | 19.1 | 16.8 | |
| C/N total min | (dB) | 8.6 | 10.6 | 9.8 | 9.6 | 9.8 | 9.8 | 7.0 | 8.0 | 9.4 | 9.6 | 14.3 | 8.7 | 9.3 | 13.9 | 17.3 | 16.2 | |
| Link Margin | (dB) | 3.3 | 2.3 | 2.8 | 6.8 | 7.0 | 7.0 | 0.9 | 1.6 | 3.0 | 3.2 | 4.5 | 2.6 | 3.2 | 0.9 | 4.3 | 6.4 | |

TYPICAL KU-BAND LINK BUDGETS

| | | 26K7G7D | 32K0G7D | 80K0G7D | 160K7G7D | 320K7G7D | 26K7G7D | 32K0G7D | 80K0G7D | 160K7G7D | 320K7G7D | 640K7G7D | 1M28G7D | 27M0F9F | 640K7G7D | 1M28G7D | 1M85G7D | 5M48G7D | 6M10G7W | 27M0F9F | 6M10G7W | 23M9G7D | 27M0F9F | |
|--------------------------------|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|---------------|---------------|--------|
| G rx sat | (dBi) | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 |
| T sat | (K) | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 |
| G tx sat | (dBi) | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 |
| Transp BW | (MHz) | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |
| Signal BW | (MHz) | 0.027 | 0.032 | 0.080 | 0.160 | 0.320 | 0.027 | 0.032 | 0.080 | 0.160 | 0.320 | 0.640 | 1.280 | 27.000 | 0.640 | 1.280 | 1.850 | 5.480 | 6.100 | 27.000 | 6.100 | 23.900 | 27.000 | |
| C/Nthr Clr Sky | (dB) | 8.3 | 5.3 | 7.0 | 2.8 | 2.8 | 8.3 | 5.3 | 7.0 | 2.8 | 2.8 | 2.8 | 2.8 | 13.0 | 2.8 | 2.8 | 5.9 | 6.1 | 6.4 | 13.0 | 6.4 | 9.8 | 13.0 | 13.0 |
| Service Area | | | | | | | | | | | | | | | | | | | | | | | | |
| Uplink EOC U/L | (dB) | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 |
| G 1m ² | (dBi) | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 |
| G/T max | (dB/K) | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| FSL | (dB) | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 | 207.5 |
| L atmos | (dB) | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Downlink EOC D/L | (dB) | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 | -6.0 |
| FSL | (dB) | 205.9 | 205.9 | 205.9 | 205.9 | 205.9 | 205.9 | 205.9 | 205.9 | 205.9 | 205.9 | 205.9 | 205.9 | 205.9 | 205.9 | 205.9 | 205.9 | 205.9 | 205.9 | 205.9 | 205.9 | 205.9 | 205.9 | 205.9 |
| L atmos | (dB) | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Space Station SFD/EIRP | | | | | | | | | | | | | | | | | | | | | | | | |
| Min | | -106.0 | -106.0 | -106.0 | -106.0 | -106.0 | -106.0 | -106.0 | -106.0 | -106.0 | -106.0 | -106.0 | -106.0 | -106.0 | -106.0 | -106.0 | -106.0 | -106.0 | -106.0 | -106.0 | -106.0 | -106.0 | -106.0 | -106.0 |
| Max | | -86.0 | -86.0 | -86.0 | -86.0 | -86.0 | -86.0 | -86.0 | -86.0 | -86.0 | -86.0 | -86.0 | -86.0 | -86.0 | -86.0 | -86.0 | -86.0 | -86.0 | -86.0 | -86.0 | -86.0 | -86.0 | -86.0 | -86.0 |
| PAD wrt mid-range | (dB) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| SFD (@ COB) | (dBW/m ²) | -93.0 | -93.0 | -93.0 | -93.0 | -93.0 | -93.0 | -93.0 | -93.0 | -93.0 | -93.0 | -93.0 | -93.0 | -93.0 | -93.0 | -93.0 | -93.0 | -93.0 | -93.0 | -93.0 | -93.0 | -93.0 | -93.0 | -93.0 |
| Sat EIRP max | (dBW) | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 |
| Uplink (TX Earth Station) | | | | | | | | | | | | | | | | | | | | | | | | |
| Diam | (m) | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 2.4 | 2.4 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 4.5 | 4.5 | 4.5 | 4.5 |
| Gtx | (dBi) | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 49.2 | 49.2 | 53.0 | 53.0 | 53.0 | 53.0 | 53.0 | 53.0 | 54.7 | 54.7 | 54.7 | 54.7 |
| EIRP ES (EOC) | (dBW) | 40.0 | 42.0 | 46.0 | 49.0 | 52.0 | 40.1 | 42.1 | 46.1 | 49.1 | 52.1 | 55.1 | 55.2 | 73.7 | 52.5 | 55.5 | 57.1 | 61.8 | 62.3 | 73.9 | 62.5 | 74.2 | 74.2 | 74.2 |
| Ptx (EOC) | (dBW) | -3.2 | -1.2 | 2.8 | 5.8 | 8.8 | -6.6 | -4.6 | -0.6 | 2.4 | 5.4 | 8.4 | 6.0 | 24.5 | -0.5 | 2.5 | 4.1 | 8.8 | 9.3 | 21.0 | 7.8 | 19.5 | 19.5 | 19.5 |
| Ptx (COB) | (dBW) | -9.2 | -7.2 | -3.2 | -0.2 | 2.8 | -12.6 | -10.6 | -6.6 | -3.6 | -0.6 | 2.4 | 0.0 | 18.5 | -6.5 | -3.5 | -1.9 | 2.8 | 3.3 | 15.0 | 1.8 | 13.5 | 13.5 | 13.5 |
| Downlink (Space Station) | | | | | | | | | | | | | | | | | | | | | | | | |
| Ptx (max COB) | (dBW) | -17.2 | -15.2 | -11.2 | -8.2 | -5.2 | -17.2 | -15.2 | -11.2 | -8.2 | -5.2 | -2.2 | -2.2 | 17.8 | -5.2 | -2.2 | -0.6 | 4.2 | 4.6 | 17.8 | 4.6 | 17.8 | 17.8 | 17.8 |
| Ptx (min EOC) | (dBW) | -20.2 | -18.2 | -14.2 | -11.2 | -8.2 | -20.2 | -18.2 | -14.2 | -11.2 | -8.2 | -5.2 | -5.2 | 17.7 | -8.2 | -5.2 | -3.6 | 1.2 | 1.6 | 17.7 | 1.6 | 17.7 | 17.7 | 17.7 |
| EIRP sat | (dBW) | 17.5 | 19.5 | 23.5 | 26.5 | 29.5 | 17.5 | 19.5 | 23.5 | 26.5 | 29.5 | 32.5 | 32.5 | 52.5 | 29.5 | 32.6 | 34.2 | 38.9 | 39.3 | 52.5 | 39.3 | 52.5 | 52.5 | 52.5 |
| RX Earth Station | | | | | | | | | | | | | | | | | | | | | | | | |
| Diameter | (m) | 5.6 | 4.5 | 4.5 | 4.5 | 5.6 | 2.4 | 2.4 | 2.4 | 2.4 | 5.6 | 2.4 | 5.6 | 2.4 | 2.4 | 2.4 | 3.7 | 3.7 | 3.7 | 2.4 | 4.5 | 4.5 | 4.5 | |
| G rx ES | (dBi) | 55.1 | 53.2 | 53.2 | 53.2 | 55.1 | 47.7 | 47.7 | 47.7 | 47.7 | 55.1 | 47.7 | 55.1 | 47.7 | 47.7 | 47.7 | 51.5 | 51.5 | 51.5 | 47.7 | 53.2 | 53.2 | 53.2 | |
| T ES | (K) | 160.0 | 160.0 | 160.0 | 160.0 | 160.0 | 160.0 | 160.0 | 160.0 | 160.0 | 160.0 | 160.0 | 160.0 | 160.0 | 160.0 | 160.0 | 160.0 | 160.0 | 160.0 | 160.0 | 160.0 | 160.0 | 160.0 | 160.0 |
| U/L Interference Allocations | | | | | | | | | | | | | | | | | | | | | | | | |
| (C/I)U/L X-pol, ACI, IMOD, ASI | (dB) | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 16.5 | 26.0 | 16.5 | 16.5 | 16.5 | 16.5 | 26.0 | 16.5 | 26.5 | 26.0 | 26.0 |
| C/N Thermal Up | (dB) | 26.6 | 26.5 | 26.5 | 26.5 | 26.5 | 26.6 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 23.5 | 28.8 | 23.5 | 23.5 | 23.5 | 23.6 | 23.5 | 28.8 | 23.5 | 29.3 | 28.8 | 28.8 |
| (C/N) Total Up | (dB) | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 | 15.7 | 24.1 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 24.1 | 15.7 | 24.7 | 24.7 | 24.1 |
| D/L Interference Allocations | | | | | | | | | | | | | | | | | | | | | | | | |
| (C/I)D/L X-pol, ACI, IMOD, ASI | (dB) | 17.1 | 17.0 | 17.0 | 17.0 | 17.1 | 16.7 | 16.7 | 16.7 | 16.7 | 17.1 | 16.7 | 14.1 | 25.3 | 13.7 | 13.7 | 14.0 | 14.0 | 14.0 | 25.3 | 14.0 | 26.9 | 26.4 | 26.4 |
| C/N Dn (COB) | (dB) | 29.0 | 27.2 | 27.3 | 27.3 | 29.0 | 22.2 | 22.1 | 22.2 | 22.1 | 29.0 | 22.2 | 25.9 | 25.9 | 19.2 | 19.2 | 22.7 | 22.7 | 22.7 | 25.9 | 24.3 | 31.5 | 31.0 | 31.0 |
| (C/N) Total Dn (COB) | (dB) | 16.8 | 16.6 | 16.6 | 16.6 | 16.8 | 15.7 | 15.6 | 15.6 | 15.6 | 16.8 | 15.6 | 13.8 | 22.6 | 12.6 | 12.6 | 13.4 | 13.4 | 13.4 | 22.6 | 13.7 | 25.6 | 25.1 | 25.1 |
| C/N Dn (EOC) | (dB) | 20.0 | 18.2 | 18.3 | 18.3 | 20.0 | 13.2 | 13.1 | 13.2 | 13.1 | 20.0 | 13.2 | 16.9 | 19.8 | 10.2 | 10.2 | 13.7 | 13.7 | 13.7 | 19.8 | 15.3 | 25.4 | 24.9 | 24.9 |
| (C/N) Total Dn (EOC) | (dB) | 12.9 | 12.3 | 12.3 | 12.3 | 12.9 | 9.9 | 9.8 | 9.9 | 9.8 | 12.9 | 9.9 | 9.8 | 17.9 | 6.9 | 6.9 | 8.8 | 8.8 | 8.8 | 17.9 | 9.4 | 22.4 | 22.4 | 22.4 |
| C/N total max | (dB) | 14.7 | 14.5 | 14.6 | 14.5 | 14.6 | 13.9 | 13.9 | 13.9 | 13.9 | 14.6 | 13.9 | 11.6 | 20.3 | 10.9 | 10.9 | 11.4 | 11.4 | 11.4 | 20.3 | 11.6 | 22.1 | 21.6 | 21.6 |
| C/N total min | (dB) | 11.9 | 11.4 | 11.4 | 11.4 | 11.8 | 9.3 | 9.3 | 9.3 | 9.3 | 11.8 | 9.3 | 8.8 | 17.0 | 6.3 | 6.3 | 8.0 | 8.0 | 8.0 | 17.0 | 8.5 | 20.4 | 19.9 | 19.9 |
| Link Margin | (dB) | 3.6 | 6.1 | 4.4 | 8.6 | 9.0 | 1.0 | 4.0 | 2.3 | 6.5 | 9.0 | 6.5 | 6.0 | 4.0 | 3.5 | 3.5 | 2.1 | 1.9 | 1.6 | 4.0 | 2.1 | 10.6 | 6.9 | 6.9 |