Table C-13b: Details for narrowband analog SCPC/FM systems interfering into Generic systems

| Interfering Signal (see table C-2) | Desired Signal (see table C-3) | $C/I_u$ / $S/I_u$ (dB) | $C/I_d$ / $S/I_d$ (dB) | $C/I_t$ / $S/I_t$ (dB) | S.E. Objective C/I / S/I (dB) | Margin (dB) |
|---|---|---|---|---|---|---|
| FMin & FMot | N036 | 32.7 | 27.1 | 26.0 | 23.7 | 2.3 |
| VCin & VCot | N036 | 35.5 | 29.9 | 28.9 | 23.7 | 5.2 |
| FMin+ & FMot+ | N036 | 32.7 | **23.1** | 22.6 | 23.7 | **-1.1** |
| VCin+ & VCot+ | N036 | 35.5 | 25.9 | 25.5 | 23.7 | 1.8 |
| FMin & FMot | N037 | 32.7 | 24.4 | 23.8 | 23.7 | 0.1 |
| VCin & VCot | N037 | 35.5 | 27.2 | 26.6 | 23.7 | 2.9 |
| FMin+ & FMot+ | N037 | 32.7 | **20.4** | 20.1 | 23.7 | **-3.6** |
| VCin+ & VCot+ | N037 | 35.5 | **23.2** | 23.0 | 23.7 | **-0.7** |
| FMin & FMot | N056 | 42.2 / 77.4 | 26.1 / 61.3 | 26.0 / 61.2 | 21.5 / 56.7 | 4.5 |
| VCin & VCot | N056 | 41.3 / 76.5 | 25.2 / 60.4 | 25.1 / 60.3 | 21.5 / 56.7 | 3.6 |
| FMin+ & FMot+ | N056 | 42.2 / 77.4 | 22.1 / 57.3 | 22.1 / 57.2 | 21.5 / 56.7 | 0.6 |
| VCin+ & VCot+ | N056 | 41.3 / 76.5 | **21.2 / 56.4** | 21.2 / 56.4 | 21.5 / 56.7 | **-0.3** |
| FMin & FMot | N058 | 37.2 / 72.4 | 27.3 / 62.1 | 26.9 / 62.1 | 23.1 / 58.3 | 3.8 |
| VCin & VCot | N058 | 36.3 / 71.5 | 26.4 / 61.6 | 26.0 / 61.2 | 23.1 / 58.3 | 2.9 |
| FMin+ & FMot+ | N058 | 37.2 / 72.4 | 23.3 / 58.5 | 23.2 / 58.4 | 23.1 / 58.3 | 0.1 |
| VCin+ & VCot+ | N058 | 36.3 / 71.5 | **22.4 / 57.6** | 22.3 / 57.4 | 23.1 / 58.3 | **-0.8** |
| FMin & FMot | N073 | 32.9 | 17.4 | 17.3 | 13.0 | 4.3 |
| VCin & VCot | N073 | 32.4 | 16.9 | 16.8 | 13.0 | 3.8 |
| FMin+ & FMot+ | N073 | 32.9 | 13.4 | 13.3 | 13.0 | 0.3 |
| VCin+ & VCot+ | N073 | 32.4 | **12.9** | 12.9 | 13.0 | **-0.1** |
| FMin & FMot | N092 | 33.8 | 24.4 | 23.9 | 20.0 | 3.9 |
| VCin & VCot | N092 | 32.9 | 23.5 | 23.1 | 20.0 | 3.1 |
| FMin+ & FMot+ | N092 | 33.8 | 20.4 | 20.2 | 20.0 | 0.2 |
| VCin+ & VCot+ | N092 | 32.9 | **19.5** | 19.3 | 20.0 | **-0.7** |
| FMin & FMot | N096 | 25.2 | **21.9** | 20.3 | 22.0 | **-1.7** |
| VCin & VCot | N096 | 27.6 | 24.3 | 22.7 | 22.0 | 0.7 |
| FMin+ & FMot+ | N096 | 25.2 | **17.9** | 17.2 | 22.0 | **-4.8** |
| VCin+ & VCot+ | N096 | 27.6 | **20.3** | 19.6 | 22.0 | **-2.4** |
| FMin & FMot | N097 | 24.3 | 26.6 | 22.2 | 21.8 | 0.4 |
| VCin & VCot | N097 | 27.2 | 29.5 | 25.2 | 21.8 | 3.4 |

| | | | | | | |
|---|---|---|---|---|---|---|
| FMin+ & FMot+ | N097 | 24.3 | **22.6** | 20.3 | 21.8 | **-1.5** |
| VCin+ & VCot+ | N097 | 27.2 | 25.5 | 23.3 | 21.8 | 1.5 |
| FMin & FMot | N101 | 20.0 | 37.2 | 20.0 | 20.0 | 0.0 |
| VCin & VCot | N101 | 22.5 | 39.7 | 22.4 | 20.0 | 2.4 |
| FMin+ & FMot+ | N101 | **20.0** | 33.2 | 19.8 | 20.0 | **-0.2** |
| VCin+ & VCot+ | N101 | 22.5 | 35.7 | 22.3 | 20.0 | 2.3 |
| FMin & FMot | N105 | 23.4 | **20.8** | 18.9 | 20.0 | **-1.1** |
| VCin & VCot | N105 | 27.4 | 24.8 | 22.9 | 20.0 | 2.9 |
| FMin+ & FMot+ | N105 | 23.4 | **16.8** | 15.9 | 20.0 | **-4.1** |
| VCin+ & VCot+ | N105 | 27.4 | **20.8** | 19.9 | 20.0 | **-0.1** |
| FMin & FMot | N107 | 21.7 | 19.1 | 17.2 | 17.0 | 0.2 |
| VCin & VCot | N107 | 22.0 | 19.4 | 17.5 | 17.0 | 0.5 |
| FMin+ & FMot+ | N107 | 21.7 | **15.1** | 14.3 | 17.0 | **-2.7** |
| VCin+ & VCot+ | N107 | 22.0 | **15.4** | 14.6 | 17.0 | **-2.4** |

Table C-14: Results for narrowband analog SCPC/FM systems interfering into Digital systems (2° Spacing)
Matrix shows combinations failing to meet single entry interference objective by "X" dB.

| WANTED LINK** | INTERFERING LINK* FMin | FMout | VCin | VCout | FMin+ | FMout+ | VCin+ | VCout+ |
|---|---|---|---|---|---|---|---|---|
| D1-6 1 | | | | | | | | |
| D2-6 2 | | | | | | | | |
| D3-6 3 | | | | | | | | |
| D4-6 4 | | | | | | | | |
| D5-6 5 | | | | | | | | |
| D6-6 6 | | | | | | | | |
| D1-X 7 | | | | | | | | |
| D2-X 8 | | | | | | | | |
| D3-X 9 | | | | | | | | |
| D4-X 10 | | | | | | | | |
| D5-X 11 | | | | | | | | |
| D6-X 12 | | | | | | | | |

* Links not labeled with the "+" have 6 dBW/4kHz downlink EIRP densities and those labeled with the "+" have 10 dBW/4kHz downlink EIRP densities.
** Links labeled with the "xx-6" have 6 dBW/4kHz downlink EIRP densities and those labeled with the "xx-X" have 10 dBW/4kHz downlink EIRP densities.

Table C-15: Results for narrowband analog SCPC/FM systems interfering into Full & Dual Wideband Digital Carriers (2° Spacing)

Matrix shows combinations failing to meet single entry interference objective by "X" dB.

| WANTED LINK** | | INTERFERING LINK* FM Int | FM Out | VC Int | VC Out | FM Int + | FM Out + | VC Int + | VC Out + |
|---|---|---|---|---|---|---|---|---|---|
| 06F1 | 1 | | | | | | | | |
| 06F2 | 2 | | | | | | | | |
| 06F3 | 3 | | | | | | | | |
| 06M1 | 4 | | | | | | | | |
| 06M1 | 5 | | | | | | | | |
| 06M2 | 6 | | | | | | | | |
| 06M2 | 7 | | | | | | | | |
| 06M3 | 8 | | | | | | | | |
| 06M3 | 9 | | | | | | | | |
| 10F1 | 10 | | | | | | | | |
| 10F3 | 11 | | | | | | | | |
| 10F5 | 12 | | | | | | | | |
| 10M1 | 13 | | | | | | | | |
| 10M1 | 14 | | | | | | | | |
| 10M2 | 15 | | | | | | | | |
| 10M2 | 16 | | | | | | | | |
| 10M3 | 17 | | | | | | | | |
| 10M3 | 18 | | | | | | | | |

| WANTED LINK** | | INTERFERING LINK* FM Int | FM Out | VC Int | VC Out | FM Int + | FM Out + | VC Int + | VC Out + |
|---|---|---|---|---|---|---|---|---|---|
| 13F1 | 19 | | | | | | | | |
| 13F3 | 20 | | | | | | | | |
| 13F5 | 21 | | | | | | | | |
| 13M1 | 22 | | | | | | | | |
| 13M1 | 23 | | | | | | | | |
| 13M2 | 24 | | | | | | | | |
| 13M2 | 25 | | | | | | | | |
| 13M3 | 26 | | | | | | | | |
| 13M3 | 27 | | | | | | | | |
| 16F1 | 28 | | | | | | | | |
| 16F3 | 29 | | | | | | | | |
| 16F5 | 30 | | | | | | | | |
| 16M1 | 31 | | | | | | | | |
| 16M1 | 32 | | | | | | | | |
| 16M2 | 33 | | | | | | | | |
| 16M2 | 34 | | | | | | | | |
| 16M3 | 35 | | | | | | | | |
| 16M3 | 36 | | | | | | | | |

* Links not labeled with the "+" have 6 dBW/4kHz downlink EIRP densities and those labeled with the "+" have 10 dBW/4kHz downlink EIRP densities.

** Desired link labels start with "xx" where "xx" is the downlink EIRP density for the link. Thus "06F1", "10F1", "13F1", and "16F1" have 6, 10, 13, and 16 dBW/4kHz downlink EIRP densities, respectively.

Table C-16a: Results for Digital systems interfering into VSAT systems (2° Spacing)

Matrix shows combinations failing to meet single entry interference objective by "X" dB.

| WANTED LINK** | | INTERFERING LINK* D1-D6 | D1-D6 | D1-D6 | D1-D6 | D1-D6 | D1-D6 | D1-D6 | D1-D6 | D1-D6 | D1-D6 | D1-D6 | D1-D6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V1 | 1 | | | | | | | | | | | | |
| V2 | 2 | | | | | | | | | | | | |
| V3 | 3 | | | | | | | | | | | | |
| V4 | 4 | | | | | | | X | X | X | X | X | X |

```
V5        5|
```

* Links labeled with the "xx-6" have 6 dBW/4kHz downlink EIRP densities and those labeled with the "xx-X" have 10 dBW/4kHz downlink EIRP densities.

** Links V3 and V5 are the 10 dBW/4kHz downlink EIRP density carriers, while V2 and V4 are 6 dBW/4kHz downlink EIRP
density carriers.

Table C-16b: Details for Digital systems interfering into VSAT systems

| Interfering Signal (see table C-4) | Desired Signal (see table C-1) | $C/I_u$ (dB) | $C/I_d$ (dB) | $C/I_t$ (dB) | S.E. Objective (dB) | Margin (dB) |
|---|---|---|---|---|---|---|
| D1-6 | V4 | 19.9 | 18.9 | 16.4 | 14.3 | 2.1 |
| D2-6 | V4 | 19.9 | 18.9 | 16.3 | 14.3 | 2.0 |
| D3-6 | V4 | 20.4 | 19.4 | 16.9 | 14.3 | 2.6 |
| D4-6 | V4 | 20.0 | 19.0 | 16.4 | 14.3 | 2.2 |
| D5-6 | V4 | 20.0 | 19.0 | 16.4 | 14.3 | 2.1 |
| D6-6 | V4 | 21.8 | 20.8 | 18.2 | 14.3 | 3.9 |
| D1-X | V4 | 19.9 | **14.9** | 13.7 | 14.3 | **-0.6** |
| D2-X | V4 | 19.9 | **14.9** | 13.7 | 14.3 | **-0.6** |
| D3-X | V4 | 20.4 | 15.4 | 14.2 | 14.3 | 0.0 |
| D4-X | V4 | 20.0 | **15.0** | 13.8 | 14.3 | **-0.5** |
| D5-X | V4 | 20.0 | **15.0** | 13.8 | 14.3 | **-0.5** |
| D6-X | V4 | 21.8 | 16.8 | 16.8 | 14.3 | 1.3 |

Table C-17a: Results for Digital systems interfering into narrowband analog SCPC/FM systems (2° Spacing)
Matrix shows combinations failing to meet single entry interference objective by "X" dB.

```
          |  INTERFERING LINK*
          |D D D D D D D D D D D D
          |1 2 3 4 5 6 1 2 3 4 5 6
 WANTED   |- - - - - - - - - - - -
  LINK**  |6 6 6 6 6 6 X X X X X X
--------+-------------------------
FMin    1|
FMot    2|             3 3 3 3 3 1
VCin    3|
VCot    4|             1 1 1 1 1 1
FMin+   5|
FMot+   6|
VCin+   7|
VCot+   8|
```

* Links labeled with the "xx-6" have 6 dBW/4kHz downlink EIRP densities and those labeled with the "xx-X" have 10 dBW/4kHz downlink EIRP densities.

** Links not labeled with the "+" have 6 dBW/4kHz downlink EIRP densities and those labeled with the "+" have 10 dBW/4kHz downlink EIRP densities.

Table C-17b: Details for Digital systems interfering into narrowband analog SCPC/FM systems

| Interfering Signal (see table C-4) | Desired Signal (see table C-2) | $C/I_u$ (dB) | $C/I_d$ (dB) | $C/I_t$ (dB) | S.E. Objective (dB) | Margin (dB) |
|---|---|---|---|---|---|---|
| D1-6 | FMot | 33.5 | 21.3 | 21.0 | 20.0 | 1.0 |
| D2-6 | FMot | 33.4 | 21.2 | 20.9 | 20.0 | 1.0 |
| D3-6 | FMot | 33.8 | 21.6 | 21.3 | 20.0 | 1.3 |
| D4-6 | FMot | 33.4 | 21.2 | 21.0 | | 1.0 |
| D5-6 | FMot | 33.1 | 20.9 | 20.7 | 20.0 | 0.7 |
| D6-6 | FMot | 34.9 | 22.7 | 22.5 | 20.0 | 2.5 |
| D1-X | FMot | 33.5 | **17.3** | 17.1 | 20.0 | **-2.8** |
| D2-X | FMot | 33.4 | **17.2** | 17.1 | 20.0 | **-2.9** |
| D3-X | FMot | 33.8 | **17.6** | 17.5 | 20.0 | **-2.5** |
| D4-X | FMot | 33.4 | **17.2** | 17.1 | | **-2.9** |
| D5-X | FMot | 33.1 | **16.9** | 16.8 | 20.0 | **-3.2** |
| D6-X | FMot | 34.9 | **18.7** | 18.6 | 20.0 | **-1.4** |
| | | | | | | |
| D1-6 | VCot | 33.4 | 21.2 | 21.0 | 18.0 | 3.0 |
| D2-6 | VCot | 33.4 | 21.2 | 20.9 | 18.0 | 2.9 |
| D3-6 | VCot | 33.7 | 21.5 | 21.3 | 18.0 | 3.3 |
| D4-6 | VCot | 33.4 | 21.2 | 20.9 | 18.0 | 3.0 |
| D5-6 | VCot | 33.1 | 20.9 | 20.6 | 18.0 | 2.6 |
| D6-6 | VCot | 33.3 | 21.1 | 20.8 | 18.0 | 2.8 |
| D1-X | VCot | 33.4 | **17.2** | 17.1 | 18.0 | **-0.9** |
| D2-X | VCot | 33.4 | **17.2** | 17.1 | 18.0 | **-0.9** |
| D3-X | VCot | 33.7 | **17.5** | 17.4 | 18.0 | **-0.5** |
| D4-X | VCot | 33.4 | **17.2** | 17.1 | 18.0 | **-0.9** |
| D5-X | VCot | 33.1 | **16.9** | 16.8 | 18.0 | **-1.2** |
| D6-X | VCot | 33.3 | **17.1** | 17.0 | 18.0 | **-1.0** |

Table C-18a: Results for Digital systems interfering into Generic systems (2° Spacing)
Matrix shows combinations failing to meet single entry interference objective by "X" dB.

| WANTED LINK | INTERFERING LINK* D 1 6 | D 2 6 | D 3 6 | D 4 6 | D 5 6 | D 6 6 | D 1 X | D 2 X | D 3 X | D 4 X | D 5 X | D 6 X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASC+ N001 | | | | | | | | | | | | |
| ASC+ N002 | | | | | | | | | | | | |
| ASC+ N003 | | | | | | | 1 | 1 | | | | |
| CGC+ N004 | | | | | | | | | | | | |
| CGC+ N005 | | | | | | | | | | | | |
| CGC+ N006 | | | | | | | | | | | | |
| CGC+ N007 | | | | | | | | | | | | |
| CGC+ N008 | | | | | | | | | | | | |
| CGC+ N009 | | | | | | | | | | | | |
| CGC+ N010 | | | | | | | | | | | | |
| FED+ N011 | | | | | | | | | | | | |
| FED+ N012 | | | | | | | | | | | | |
| FAS+ N013 | | | | | | | | | | | | |
| FAS+ N014 | | | | | | | | | | | | |
| FAS+ N015 | | | | | | | | | | | | |
| FAS+ N016 | | | | | | | | | | | | |
| FAS+ N017 | | | | | | | | | | | | |
| FAS+ N018 | | | | | | | | | | | | |
| FAS+ N019 | | | | | | | | | | | | |
| FAS+ N020 | | | | | | | | | | | | |
| FAS+ N021 | | | | | | | | | | | | |
| FAS+ N022 | | | | | | | | | | | | |
| FAS+ N023 | | | | | | | | | | | | |
| GTEs N024 | | | | | | | | | | | | |
| GTEs N025 | | | | | | | | | | | | |
| GTE+ N026 | | | | | | | | | | | | |
| GTEs N027 | | | | | | | | | | | | |
| GTEs N028 | | | | | | | | | | | | |
| GTEs N029 | | | | | | | | | | | | |
| GTEs N030 | | | | | | | | | | | | |
| GTEm N031 | | | | | | | | | | | | |
| GTEm N032 | | | | | | | | | | | | |
| GTE+ N033 | | | | | | | | | | | | |
| GTEm N034 | | | | | | | | | | | | |
| GTEm N035 | | | | | | | 1 | | | | | |
| GTEm N036 | | | | | | | | | | | | |

| WANTED LINK | INTERFERING LINK* D 1 6 | D 2 6 | D 3 6 | D 4 6 | D 5 6 | D 6 6 | D 1 X | D 2 X | D 3 X | D 4 X | D 5 X | D 6 X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GTEm N037 | | | | | | | 2 | 2 | 2 | 2 | 2 | 2 |
| GAL+ N038 | | | | | | | | | | | | |
| GAL+ N039 | | | | | | | | | | | | |
| GAL+ N040 | | | | | | | | | | | | |
| GAL+ N041 | | | | | | | | | | | | |
| GAL+ N042 | | | | | | | | | | | | |
| GAL+ N043 | | | | | | | | | | | | |
| ISOC N044 | | | | | | | | | | | | |
| ISOC N045 | | | | | | | 1 | 1 | 1 | 1 | 1 | |
| ISOC N046 | | | | | | | | | | | | |
| MARs N047 | | | | | | | | | | | | |
| MARs N048 | | | | | | | | | | | | |
| MARc N049 | | | | | | | | | | | | |
| RCAc N050 | | | | | | | | | | | | |
| RCAc N051 | | | | | | | | | | | | |
| RCAc N052 | | | | | | | 1 | | | | | |
| RCAc N053 | | | | | | | 1 | 1 | | | | |
| RCAc N054 | | | | | | | | | | | | |
| RCAc N055 | | | | | | | | | | | | |
| RCAm N056 | | | | | | | 2 | 1 | | | | |
| RCAo N057 | | | | | | | 1 | | | 1 | | |
| RCAm N058 | | | | | | | 2 | 2 | | | | 1 |
| RCAo N059 | | | | | | | | | | | | |
| RCAo N060 | | | | | | | | | | | | |
| RCA+ N061 | | | | | | | | | | | | |
| RCA+ N062 | | | | | | | | | | | | |
| SBSo N063 | | | | | | | | | | | | |
| SBS& N064 | | | | | | | | | | | | |
| SBSo N065 | | | | | | | | | | | | |
| SBS& N066 | | | | | | | | | | | | |
| SBSo N067 | | | | | | | | | | | | |
| SBS& N068 | | | | | | | | | | | | |
| SBSu N069 | | | | | | | | | | | | |
| SBS+ N070 | | | | | | | | | | | | |
| SCHL N071 | | | | | | | | | | | | |
| SCHL N072 | | | | | | | | | | | | |

| WANTED LINK | INTERFERING LINK* D 1 6 | D 2 6 | D 3 6 | D 4 6 | D 5 6 | D 6 6 | D 1 X | D 2 X | D 3 X | D 4 X | D 5 X | D 6 X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCHL N073 | | | | | | | 1 | 1 | 1 | 1 | | |
| SCHL N074 | | | | | | | | | | | | |
| SPCo N075 | | | | | | | | | | | | |
| SPC& N076 | | | | | | | | | | | | |
| SPC+ N077 | | | | | | | | | | | | |
| SPC+ N078 | | | | | | | | | | | | |
| SPC+ N079 | | | | | | | 1 | 1 | | | | |
| SPC+ N080 | | | | | | | | | | | | |
| SPC+ N081 | | | | | | | | | | | | |
| WUc+ N082 | | | | | | | | | | | | |
| WUc+ N083 | | | | | | | | | | | | |
| WUc+ N084 | | | | | | | | | | | | |
| WUc+ N085 | | | | | | | | | | | | |
| WUc+ N086 | | | | | | | | | | | | |
| WUcu N087 | | | | | | | 1 | | | | | |
| WUc+ N088 | | | | | | | | | | | | |
| WUc+ N089 | | | | | | | | | | | | |
| WUc+ N090 | | | | | | | | | | | | |
| WUc+ N091 | | | | | | | | | | | | |
| A12K N092 | | | | | | | 1 | 1 | | 1 | | |
| A12K N093 | 1 | 1 | | | | | 2 | 2 | 1 | 2 | | |
| A12K N094 | | | | | | | | | | | | |
| A12K N095 | | | | | | | | | | | | |
| A12K N096 | 1 | 1 | | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 4 | 3 |
| A12K N097 | 2 | 2 | 2 | 2 | 1 | | 4 | 4 | 3 | 4 | 3 | 1 |
| LOT8 N098 | | | | | | | | | | | | |
| LOT8 N099 | | | | | | | | | | | | |
| LOT8 N100 | | | | | | | | | | | | |
| LOT8 N101 | | | | | 1 | | | | | | 1 | |
| PAS N102 | | | | | | | | | | | | |
| PAS N103 | | | | | | | 1 | | | | | |
| PAS N104 | | | | | | | | | | | | |
| PAS N105 | | | | | 1 | | 3 | 3 | 2 | 3 | 3 | 2 |
| PAS N106 | | | | | | | 1 | 1 | 1 | 1 | 1 | |
| PAS N107 | 1 | 1 | 1 | 1 | 1 | | 4 | 4 | 3 | 4 | 4 | 2 |

* Links labeled with the "xx-6" have 6 dBW/4kHz downlink EIRP densities and those labeled with the "xx-X" have 10 dBW/4kHz downlink EIRP densities.

Table C-18b: Details for Digital systems interfering into Generic systems

| Interfering Signal (see table C-4) | Desired Signal (see table C-3) | $C/I_u$ (dB) | $C/I_d$ (dB) | $C/I_t$ (dB) | S.E. Objective (dB) | Margin (dB) |
|---|---|---|---|---|---|---|
| D1-X | N003 | 28.1 | **24.1** | 22.7 | 23.0 | **-0.3** |
| D2-X | N003 | 28.4 | 24.4 | 23.0 | 23.0 | 0.0 |
| D1-X | N035 | 32.5 | **25.7** | 24.8 | 24.9 | **-0.1** |
| D1-X | N037 | 33.4 | **22.1** | 21.8 | 23.7 | **-1.9** |
| D2-X | N037 | 33.3 | **22.0** | 21.7 | 23.7 | **-2.0** |
| D3-X | N037 | 33.7 | **22.4** | 22.1 | 23.7 | **-1.6** |
| D4-X | N037 | 33.4 | **22.1** | 21.8 | 23.7 | **-1.9** |
| D5-X | N037 | 33.0 | **21.7** | 21.4 | 23.7 | **-2.3** |
| D6-X | N037 | 33.5 | **22.2** | 21.9 | 23.7 | **-1.8** |
| D1-X | N045 | 32.8 | **19.0** | 18.9 | 19.5 | **-0.6** |
| D2-X | N045 | 32.8 | **19.0** | 18.8 | 19.5 | **-0.7** |
| D3-X | N045 | 33.3 | **19.5** | 19.4 | 19.5 | **-0.1** |
| D4-X | N045 | 32.9 | **19.1** | 18.9 | 19.5 | **-0.5** |
| D5-X | N045 | 33.0 | **19.2** | 19.1 | 19.5 | **-0.4** |
| D1-X | N052 | 31.3 C/I / 68.0 S/I | **26.6 C/I / 63.3 S/I** | 25.3 C/I / 62.0 S/I | 25.4 C/I / 62.1 S/I | **-0.1** |
| D1-X | N053 | 30.2 C/I / 66.9 S/I | **25.5 C/I / 62.2 S/I** | 24.3 C/I / 61.0 S/I | 25.4 C/I / 62.1 S/I | **-1.1** |
| D2-X | N053 | 30.6 C/I / 67.3 S/I | **25.9 C/I / 62.6 S/I** | 24.7 C/I / 61.4 S/I | 25.4 C/I / 62.1 S/I | **-0.7** |
| D1-X | N056 | 39.1 C/I / 74.3 S/I | **20.0 C/I / 55.2 S/I** | 20.0 C/I / 55.2 S/I | 21.5 C/I / 56.7 S/I | **-1.5** |
| D2-X | N056 | 39.5 C/I / 74.7 S/I | **20.4 C/I / 55.6 S/I** | 20.4 C/I / 55.6 S/I | 21.5 C/I / 56.7 S/I | **-1.1** |
| D1-X | N057 | 35.3 C/I / 70.5 S/I | **22.4 C/I / 57.6 S/I** | 22.2 C/I / 57.4 S/I | 23.1 C/I / 58.3 S/I | **-0.9** |
| D4-X | N057 | 36.0 C/I / 71.2 S/I | **23.1 C/I / 58.3 S/I** | 22.9 C/I / 58.1 S/I | 23.1 C/I / 58.3 S/I | **-0.2** |
| D1-X | N058 | 34.1 C/I / 69.3 S/I | **21.2 C/I / 56.4 S/I** | 21.0 C/I / 56.2 S/I | 23.1 C/I / 58.3 S/I | **-2.1** |
| D2-X | N058 | 34.5 C/I / 69.7 S/I | **21.6 C/I / 56.8 S/I** | 21.4 C/I / 56.6 S/I | 23.1 C/I / 58.3 S/I | **-1.7** |
| D6-X | N058 | 35.8 C/I / 71.0 S/I | **22.9 C/I / 58.1 S/I** | 22.7 C/I / 57.9 S/I | 23.1 C/I / 58.3 S/I | **-0.4** |
| D1-X | N073 | 30.2 | **11.7** | 11.6 | 13.0 | **-1.3** |
| D2-X | N073 | 30.2 | **11.7** | 11.6 | 13.0 | **-1.4** |
| D3-X | N073 | 30.7 | **12.2** | 12.2 | 13.0 | **-0.8** |
| D4-X | N073 | 30.3 | **11.8** | 11.7 | 13.0 | **-1.3** |
| D1-X | N079 | 31.9 C/I / 67.1 S/I | **23.5 C/I / 58.7 S/I** | 23.0 C/I / 58.1 S/I | 23.9 C/I / 59.1 S/I | **-1.0** |
| D2-X | N079 | 32.3 C/I / | **23.9 C/I /** | 23.4 C/I / | 23.9 C/I / | **-0.6** |

| | | 67.5 S/I | **59.1 S/I** | 58.5 S/I | 59.1 S/I | |
|---|---|---|---|---|---|---|
| D1-X | N087 | 30.8 | 26.5 | 25.2 | 25.2 | 0.0 |
| D1-X | N092 | 31.2 | **18.8** | 18.5 | 20.0 | **-1.5** |
| D2-X | N092 | 31.9 | **19.5** | 19.3 | 20.0 | **-0.7** |
| D4-X | N092 | 32.3 | **19.9** | 19.7 | 20.0 | **-0.3** |
| D1-6 | N093 | 21.6 | **24.7** | 19.8 | 20.0 | **-0.2** |
| D2-6 | N093 | 21.5 | **24.6** | 19.8 | 20.0 | **-0.2** |
| D1-X | N093 | 21.6 | **20.7** | 18.1 | 20.0 | **-1.9** |
| D2-X | N093 | 21.5 | **20.6** | 18.0 | 20.0 | **-2.0** |
| D3-X | N093 | 22.3 | **21.4** | 18.8 | 20.0 | **-1.2** |
| D4-X | N093 | 21.7 | **20.8** | 18.3 | 20.0 | **-1.7** |
| D1-6 | N096 | 26.0 | **23.7** | 21.7 | 22.0 | **-0.3** |
| D2-6 | N096 | 25.9 | **23.6** | 21.6 | 22.0 | **-0.4** |
| D4-6 | N096 | 26.0 | **23.7** | 21.7 | 22.0 | **-0.3** |
| D5-6 | N096 | 25.6 | **23.3** | 21.3 | 22.0 | **-0.7** |
| D6-6 | N096 | 26.0 | **23.7** | 21.7 | 22.0 | **-0.3** |
| D1-X | N096 | 26.0 | **19.7** | 18.7 | 22.0 | **-3.3** |
| D2-X | N096 | 25.9 | **19.6** | 18.7 | 22.0 | **-3.3** |
| D3-X | N096 | 26.5 | **20.2** | 19.3 | 22.0 | **-2.7** |
| D4-X | N096 | 26.0 | **19.7** | 18.8 | 22.0 | **-3.2** |
| D5-X | N096 | 25.6 | **19.3** | 18.4 | 22.0 | **-3.6** |
| D6-X | N096 | 26.0 | **19.7** | 18.8 | 22.0 | **-3.2** |
| D1-6 | N097 | **21.3** | 24.6 | 19.6 | 21.8 | **-2.2** |
| D2-6 | N097 | **21.2** | 24.5 | 19.6 | 21.8 | **-2.2** |
| D3-6 | N097 | **21.8** | 25.1 | 20.1 | 21.8 | **-1.7** |
| D4-6 | N097 | **21.4** | 24.7 | 19.7 | 21.8 | **-2.1** |
| D5-6 | N097 | **22.0** | 25.3 | 20.4 | 21.8 | **-1.4** |
| D1-X | N097 | 21.3 | **20.6** | 17.9 | 21.8 | **-3.9** |
| D2-X | N097 | 21.2 | **20.5** | 17.9 | 21.8 | **-3.9** |
| D3-X | N097 | 21.8 | **21.1** | 18.4 | 21.8 | **-3.4** |
| D4-X | N097 | 21.4 | **20.7** | 18.0 | 21.8 | **-3.8** |
| D5-X | N097 | 22.0 | **21.3** | 18.7 | 21.8 | **-3.1** |
| D6-X | N097 | 23.7 | **23.0** | 20.3 | 21.8 | **-1.5** |
| D5-6 | N101 | **20.0** | 38.2 | 20.0 | 20.0 | 0.0 |
| D5-X | N101 | **20.0** | 34.2 | 19.9 | 20.0 | **-0.1** |
| D1-X | N103 | 27.5 | **21.9** | 20.8 | 20.9 | **-0.1** |
| D5-6 | N105 | 23.7 | **22.1** | 19.8 | 20.0 | **-0.2** |
| D1-X | N105 | 24.0 | **18.4** | 17.4 | 20.0 | **-2.6** |
| D2-X | N105 | 24.0 | **18.4** | 17.3 | 20.0 | **-2.7** |
| D3-X | N105 | 24.6 | **19.0** | 17.9 | 20.0 | **-2.1** |
| D4-X | N105 | 24.1 | **18.5** | 17.4 | 20.0 | **-2.6** |
| D5-X | N105 | 23.7 | **18.1** | 17.0 | 20.0 | **-3.0** |
| D6-X | N105 | 24.8 | **19.2** | 18.2 | 20.0 | **-1.8** |
| D1-X | N106 | 27.1 | **21.5** | 20.4 | 21.8 | **-1.4** |
| D2-X | N106 | 27.0 | **21.4** | 20.4 | 21.8 | **-1.4** |
| D3-X | N106 | 27.5 | **21.9** | 20.8 | 21.8 | **-1.0** |
| D4-X | N106 | 27.1 | **21.5** | 20.4 | 21.8 | **-1.4** |
| D5-X | N106 | 27.8 | **22.2** | 21.2 | 21.8 | **-0.6** |
| D1-6 | N107 | **20.0** | 18.4 | 16.1 | 17.0 | **-0.9** |

| | | | | | | |
|---|---|---|---|---|---|---|
| D2-6 | N107 | **20.0** | 18.4 | 16.1 | 17.0 | **-0.9** |
| D3-6 | N107 | **20.5** | 18.9 | 16.6 | 17.0 | **-0.4** |
| D4-6 | N107 | **20.1** | 18.5 | 16.2 | 17.0 | **-0.8** |
| D5-6 | N107 | 19.7 | 18.1 | 15.8 | 17.0 | -1.2 |
| D1-X | N107 | **20.0** | 14.4 | 13.4 | 17.0 | **-3.6** |
| D2-X | N107 | **20.0** | 14.4 | 13.3 | 17.0 | **-3.7** |
| D3-X | N107 | **20.5** | 14.9 | 13.9 | 17.0 | **-3.1** |
| D4-X | N107 | **20.1** | 14.5 | 13.4 | 17.0 | **-3.6** |
| D5-X | N107 | **19.7** | 14.1 | 13.1 | 17.0 | **-3.9** |
| D6-X | N107 | **22.0** | 16.4 | 15.4 | 17.0 | **-1.6** |

Table C-19a: Results for Digital systems interfering into Digital systems (2° Spacing)
Matrix shows combinations failing to meet single entry interference objective by "X" dB.

| WANTED LINK* | INTERFERING LINK* D1-6 | D2-6 | D3-6 | D4-6 | D5-6 | D6-6 | D1-X | D2-X | D3-X | D4-X | D5-X | D6-X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D1-6 1 | | | | | | | | | | | | |
| D2-6 2 | | | | | | | | | | | | |
| D3-6 3 | | | | | | | 1 | 1 | | | | |
| D4-6 4 | | | | | | | | | | | | |
| D5-6 5 | | | | | | | | | | | | |
| D6-6 6 | | | | | | | | | | | | |
| D1-X 7 | | | | | | | | | | | | |
| D2-X 8 | | | | | | | | | | | | |
| D3-X 9 | | | | | | | | | | | | |
| D4-X 10 | | | | | | | | | | | | |
| D5-X 11 | | | | | | | | | | | | |
| D6-X 12 | | | | | | | | | | | | |

* Links labeled with the "xx-6" have 6 dBW/4kHz downlink EIRP densities and those labeled with the "xx-X" have 10 dBW/4kHz downlink EIRP densities.

Table C-19b: Details for Digital systems interfering into Digital systems

| Interfering Signal (see table C-4) | Desired Signal (see table C-4) | $C/I_u$ (dB) | $C/I_d$ (dB) | $C/I_t$ (dB) | S.E. Objective (dB) | Margin (dB) |
|---|---|---|---|---|---|---|
| D1-X | D3-6 | 33.2 | **21.2** | 20.9 | 21.0 | **-0.1** |
| D2-X | D3-6 | 33.3 | 21.3 | 21.0 | 21.0 | 0.0 |

Table C-20a: Results for Digital systems interfering into Full & Dual Wideband Digital Carriers
Matrix shows combinations failing to meet single entry interference objective by "X" dB.

| WANTED LINK** | | INTERFERING LINK* D1-6 | D2-6 | D3-6 | D4-6 | D5-6 | D6-6 | D1-X | D2-X | D3-X | D4-X | D5-X | D6-X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06F1 | 1 | | | | | | | | | | | | |
| 06F2 | 2 | | | | | | | | | | | | |
| 06F3 | 3 | | | | | | | | | | | | |
| 06M1 | 4 | | | | | | | 1 | 1 | | | | |
| 06M1 | 5 | | | | | | | | | | | | |
| 06M2 | 6 | | | | | | | | | | | | |
| 06M2 | 7 | | | | | | | | | | | | |
| 06M3 | 8 | | | | | | | | | | | | |
| 06M3 | 9 | | | | | | | | | | | | |
| 10F1 | 10 | | | | | | | | | | | | |
| 10F3 | 11 | | | | | | | | | | | | |
| 10F5 | 12 | | | | | | | | | | | | |
| 10M1 | 13 | | | | | | | | | | | | |
| 10M1 | 14 | | | | | | | | | | | | |
| 10M2 | 15 | | | | | | | | | | | | |
| 10M2 | 16 | | | | | | | | | | | | |
| 10M3 | 17 | | | | | | | | | | | | |
| 10M3 | 18 | | | | | | | | | | | | |

| WANTED LINK** | | INTERFERING LINK* D1-6 | D2-6 | D3-6 | D4-6 | D5-6 | D6-6 | D1-X | D2-X | D3-X | D4-X | D5-X | D6-X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13F1 | 19 | | | | | | | | | | | | |
| 13F3 | 20 | | | | | | | | | | | | |
| 13F5 | 21 | | | | | | | | | | | | |
| 13M1 | 22 | | | | | | | | | | | | |
| 13M1 | 23 | | | | | | | | | | | | |
| 13M2 | 24 | | | | | | | | | | | | |
| 13M2 | 25 | | | | | | | | | | | | |
| 13M3 | 26 | | | | | | | | | | | | |
| 13M3 | 27 | | | | | | | | | | | | |
| 16F1 | 28 | | | | | | | | | | | | |
| 16F3 | 29 | | | | | | | | | | | | |
| 16F5 | 30 | | | | | | | | | | | | |
| 16M1 | 31 | | | | | | | | | | | | |
| 16M1 | 32 | | | | | | | | | | | | |
| 16M2 | 33 | | | | | | | | | | | | |
| 16M2 | 34 | | | | | | | | | | | | |
| 16M3 | 35 | | | | | | | | | | | | |
| 16M3 | 36 | | | | | | | | | | | | |

* Links labeled with the "xx-6" have 6 dBW/4kHz downlink EIRP densities and those labeled with the "xx-X" have 10 dBW/4kHz downlink EIRP densities.

** Desired link labels start with "xx" where "xx" is the downlink EIRP density for the link. Thus "06F1", "10F1", "13F1", and "16F1" have 6, 10, 13, and 16 dBW/4kHz downlink EIRP densities, respectively.

Table C-20b: Details for Digital systems interfering into Full & Dual Wideband Digital Carriers

| Interfering Signal (see table C-4) | Desired Signal (see table C-5) | $C/I_u$ (dB) | $C/I_d$ (dB) | $C/I_t$ (dB) | S.E. Objective (dB) | Margin (dB) |
|---|---|---|---|---|---|---|
| D1-X | 06M1 | 33.2 | **21.2** | 20.9 | 21.0 | **-0.1** |
| D2-X | 06M1 | 33.3 | 21.3 | 21.0 | 21.0 | 0.0 |

Table C-21a: Results for Full & Dual Wideband Digital Carriers interfering into VSAT systems
Matrix shows combinations failing to meet single entry interference objective by "X" dB.

```
         |  INTERFERING LINK* -->
         |0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1
         |6 6 6 6 6 6 6 6 6 0 0 0 0 0 0 0 0 0 3 3 3 3 3 3 3 3 3 6
6 6 6 6 6 6 6 6
 WANTED  |F F F M M M M M M F F F M M M M M M F F F M M M M M M F
F F M M M M M M
  LINK**|1 2 3 1 1 2 2 3 3 1 2 3 1 1 2 2 3 3 1 2 3 1 1 2 2 3 3 1
2 3 1 1 2 2 3 3
--------+-------------------------------------------------------------
-----------------
V1      1|                                         1 1 1 1 1 1 1 2 2 4
4 4 3 3 4 4 4 4
V2      2|                                         2 2 2 2   2 1 3 1 5
5 5 5 2 5 4 6 4
V3      3|                                                           1
1 1 1   1 1 2 1
V4      4|                    1 1 1 1   1   1   3 3 3 2   3 2 3 2 6
6 6 5 3 6 4 6 4
V5      5|                                                     1   2
2 2 2   2 1 2 1
```

* Desired link labels start with "xx" where "xx" is the downlink EIRP density for the link. Thus "06F1", "10F1", "13F1", and "16F1" have 6, 10, 13, and 16 dBW/4kHz downlink EIRP densities, respectively.
** Links V3 and V5 are the 10 dBW/4kHz downlink EIRP density carriers, while V2 and V4 are 6 dBW/4kHz downlink EIRP
density carriers.

Table C-21b: Details for Full & Dual Wideband Digital Carriers (10 dBW/4kHz) interfering into VSAT systems

| Interfering Signal (see table C-5) | Desired Signal (see table C-1) | $C/I_u$ (dB) | $C/I_d$ (dB) | $C/I_t$ (dB) | S.E. Objective (dB) | Margin (dB) |
|---|---|---|---|---|---|---|
| 10F1 | V4 | 19.9 | **14.9** | 13.7 | 14.3 | **-0.6** |
| 10F2 | V4 | 19.9 | **14.9** | 13.7 | 14.3 | **-0.6** |
| 10F3 | V4 | 19.9 | **14.9** | 13.7 | 14.3 | **-0.6** |
| 10M1 (1 carr.) | V4 | 20.4 | 15.4 | 14.2 | 14.3 | 0.0 |
| 10M1 (2 carr.) | V4 | 22.9 | 17.9 | 16.7 | 14.3 | 2.5 |
| 10M2 (1 carr.) | V4 | 20.0 | **15.0** | 13.8 | 14.3 | **-0.5** |
| 10M2 (2 carr.) | V4 | 21.2 | 16.2 | 15.0 | 14.3 | 0.7 |
| 10M3 (1 carr.) | V4 | 19.5 | **14.6** | 13.4 | 14.3 | **-0.9** |
| 10M3 (2 carr.) | V4 | 21.1 | 16.2 | 15.0 | 14.3 | 0.7 |

Table C-21c: Details for Full & Dual Wideband Digital Carriers (13 dBW/4 kHz) interfering into VSAT systems

| Interfering Signal (see table C-5) | Desired Signal (see table C-1) | $C/I_u$ (dB) | $C/I_d$ (dB) | $C/I_t$ (dB) | S.E. Objective (dB) | Margin (dB) |
|---|---|---|---|---|---|---|
| 13F1 | V1 | 19.9 | **14.0** | 13.0 | 14.3 | **-1.2** |
| 13F2 | V1 | 19.9 | **14.0** | 13.0 | 14.3 | **-1.3** |
| 13F3 | V1 | 19.9 | **14.0** | 13.0 | 14.3 | **-1.3** |
| 13M1 (1 carr.) | V1 | 20.4 | **14.5** | 13.5 | 14.3 | **-0.7** |
| 13M1 (2 carr.) | V1 | 20.3 | **14.4** | 13.4 | 14.3 | **-0.9** |
| 13M2 (1 carr.) | V1 | 20.0 | **14.1** | 13.1 | 14.3 | **-1.2** |
| 13M2 (2 carr.) | V1 | 19.9 | **14.0** | 13.0 | 14.3 | **-1.3** |
| 13M3 (1 carr.) | V1 | 19.5 | **13.7** | 12.7 | 14.3 | **-1.6** |
| 13M3 (2 carr.) | V1 | 19.5 | **13.7** | 12.7 | 14.3 | **-1.6** |
| | | | | | | |
| 13F1 | V2 | 32.1 | **11.9** | 11.9 | 14.3 | **-2.4** |
| 13F2 | V2 | 32.1 | **11.9** | 11.8 | 14.3 | **-2.5** |
| 13F3 | V2 | 32.1 | **11.9** | 11.8 | 14.3 | **-2.5** |
| 13M1 (1 carr.) | V2 | 32.6 | **12.4** | 12.4 | 14.3 | **-1.9** |
| 13M1 (2 carr.) | V2 | 35.1 | 14.9 | 14.9 | 14.3 | 0.6 |
| 13M2 (1 carr.) | V2 | 32.2 | **12.0** | 11.9 | 14.3 | **-2.3** |
| 13M2 (2 carr.) | V2 | 33.4 | **13.2** | 13.1 | 14.3 | **-1.2** |
| 13M3 (1 carr.) | V2 | 31.7 | **11.6** | 11.6 | 14.3 | **-2.7** |
| 13M3 (2 carr.) | V2 | 33.3 | **13.2** | 13.2 | 14.3 | **-1.1** |
| | | | | | | |
| 13F1 | V4 | 19.9 | **11.9** | 11.3 | 14.3 | **-3.0** |
| 13F2 | V4 | 19.9 | **11.9** | 11.2 | 14.3 | **-3.1** |
| 13F3 | V4 | 19.9 | **11.9** | 11.2 | 14.3 | **-3.1** |
| 13M1 (1 carr.) | V4 | 20.4 | **12.4** | 11.8 | 14.3 | **-2.5** |
| 13M1 (2 carr.) | V4 | 22.9 | 14.9 | 14.3 | 14.3 | 0.0 |
| 13M2 (1 carr.) | V4 | 20.0 | **12.0** | 11.3 | 14.3 | **-2.9** |
| 13M2 (2 carr.) | V4 | 21.2 | **13.2** | 12.5 | 14.3 | **-1.8** |
| 13M3 (1 carr.) | V4 | 19.5 | **11.6** | 11.0 | 14.3 | **-3.3** |
| 13M3 (2 carr.) | V4 | 21.1 | **13.2** | 12.6 | 14.3 | **-1.7** |
| | | | | | | |
| 13M2 (1 carr.) | V5 | 19.5 | **15.6** | 14.1 | 14.3 | **-0.1** |
| 13M2 (2 carr.) | V5 | 21.1 | 17.2 | 15.7 | 14.3 | 1.4 |

Table C-21d: Details for Full & Dual Wideband Digital Carriers (16 dBW/4kHz) interfering into VSAT systems

| Interfering Signal (see table C-5) | Desired Signal (see table C-1) | $C/I_u$ (dB) | $C/I_d$ (dB) | $C/I_t$ (dB) | S.E. Objective (dB) | Margin (dB) |
|---|---|---|---|---|---|---|
| 16F1 | V1 | 19.9 | **11.0** | 10.5 | 14.3 | **-3.8** |
| 16F2 | V1 | 19.9 | **11.0** | 10.5 | 14.3 | **-3.8** |
| 16F3 | V1 | 19.9 | **11.0** | 10.5 | 14.3 | **-3.8** |
| 16M1 (1 carr.) | V1 | 20.4 | **11.5** | 11.0 | 14.3 | **-3.3** |
| 16M1 (2 carr.) | V1 | 20.3 | **11.4** | 10.8 | 14.3 | **-3.5** |
| 16M2 (1 carr.) | V1 | 20.0 | **11.1** | 10.6 | 14.3 | **-3.7** |
| 16M2 (2 carr.) | V1 | 19.9 | **11.0** | 10.5 | 14.3 | **-3.8** |
| 16M3 (1 carr.) | V1 | 19.5 | **10.7** | 10.2 | 14.3 | **-4.1** |
| 16M3 (2 carr.) | V1 | 19.5 | **10.7** | 10.2 | 14.3 | **-4.1** |
| | | | | | | |
| 16F1 | V2 | 32.1 | **8.9** | 8.9 | 14.3 | **-5.4** |
| 16F2 | V2 | 32.1 | **8.9** | 8.9 | 14.3 | **-5.4** |
| 16F3 | V2 | 32.1 | **8.9** | 8.9 | 14.3 | **-5.4** |
| 16M1 (1 carr.) | V2 | 32.6 | **9.4** | 9.4 | 14.3 | **-4.9** |
| 16M1 (2 carr.) | V2 | 35.1 | **11.9** | 11.9 | 14.3 | **-2.4** |
| 16M2 (1 carr.) | V2 | 32.2 | **9.0** | 9.0 | 14.3 | **-5.3** |
| 16M2 (2 carr.) | V2 | 33.4 | **10.2** | 10.1 | 14.3 | **-4.1** |
| 16M3 (1 carr.) | V2 | 31.7 | **8.6** | 8.6 | 14.3 | **-5.7** |
| 16M3 (2 carr.) | V2 | 33.3 | **10.2** | 10.2 | 14.3 | **-4.1** |
| | | | | | | |
| 16F1 | V3 | 32.1 | **12.9** | 12.9 | 14.3 | **-1.4** |
| 16F2 | V3 | 32.1 | **12.9** | 12.8 | 14.3 | **-1.5** |
| 16F3 | V3 | 32.1 | **12.9** | 12.8 | 14.3 | **-1.5** |
| 16M1 (1 carr.) | V3 | 32.6 | **13.4** | 13.4 | 14.3 | **-0.9** |
| 16M1 (2 carr.) | V3 | 35.1 | 15.9 | 15.9 | 14.3 | 1.6 |
| 16M2 (1 carr.) | V3 | 32.2 | **13.0** | 12.9 | 14.3 | **-1.4** |
| 16M2 (2 carr.) | V3 | 33.4 | **14.2** | 14.1 | 14.3 | **-0.2** |
| 16M3 (1 carr.) | V3 | 31.7 | **12.6** | 12.6 | 14.3 | **-1.7** |
| 16M3 (2 carr.) | V3 | 33.3 | **14.2** | 14.2 | 14.3 | **-0.1** |
| | | | | | | |
| 16F1 | V4 | 19.9 | **8.9** | 8.6 | 14.3 | **-5.7** |
| 16F2 | V4 | 19.9 | **8.9** | 8.5 | 14.3 | **-5.8** |
| 16F3 | V4 | 19.9 | **8.9** | 8.5 | 14.3 | **-5.8** |
| 16M1 (1 carr.) | V4 | 20.4 | **9.4** | 9.1 | 14.3 | **-5.2** |
| 16M1 (2 carr.) | V4 | 22.9 | **11.9** | 11.6 | 14.3 | **-2.7** |
| 16M2 (1 carr.) | V4 | 20.0 | **9.0** | 8.7 | 14.3 | **-5.6** |
| 16M2 (2 carr.) | V4 | 21.2 | **10.2** | 9.8 | 14.3 | **-4.5** |
| 16M3 (1 carr.) | V4 | 19.5 | **8.6** | 8.3 | 14.3 | **-6.0** |
| 16M3 (2 carr.) | V4 | 21.1 | **10.2** | 9.9 | 14.3 | **-4.4** |
| | | | | | | |
| 16F1 | V5 | 19.9 | **12.9** | 12.1 | 14.3 | **-2.2** |
| 16F2 | V5 | 19.9 | **12.9** | 12.1 | 14.3 | **-2.2** |
| 16F3 | V5 | 19.9 | **12.9** | 12.1 | 14.3 | **-2.2** |

| | | | | | | |
|---|---|---|---|---|---|---|
| 16M1 (1 carr.) | V5 | 20.4 | **13.4** | 12.6 | 14.3 | **-1.6** |
| 16M1 (2 carr.) | V5 | 22.9 | 15.9 | 15.1 | 14.3 | 0.9 |
| 16M2 (1 carr.) | V5 | 20.0 | **13.0** | 12.2 | 14.3 | **-2.1** |
| 16M2 (2 carr.) | V5 | 21.2 | **14.2** | 13.4 | 14.3 | **-0.9** |
| 16M3 (1 carr.) | V5 | 19.5 | **12.6** | 11.8 | 14.3 | **-2.5** |
| 16M3 (2 carr.) | V5 | 21.1 | **14.2** | 13.4 | 14.3 | **-0.9** |

Table C-22a: Results for Full & Dual Wideband Digital Carriers interfering into narrowband analog SCPC/FM systems (2° Spacing)

Matrix shows combinations failing to meet single entry interference objective by "X" dB.

```
          |  INTERFERING LINK* -->
          |0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1
          |6 6 6 6 6 6 6 6 6 0 0 0 0 0 0 0 0 0 3 3 3 3 3 3 3 3 3 6
6 6 6 6 6 6 6 6
 WANTED   |F F F M M M M M M F F F M M M M M M F F F M M M M M M F
F F M M M M M M
  LINK**  |1 2 3 1 1 2 2 3 3 1 2 3 1 1 2 2 3 3 1 2 3 1 1 2 2 3 3 1
2 3 1 1 2 2 3 3
---------+-------------------------------------------------------------
-----------------
FMin    1|                                         1 1       1 1 1 1
1 1 1 1 1 1 1 1
FMot    2|                   3 3 3 2 3 3 3 3 3 6 6 6 5 5 6 6 6 6 9
9 9 8 8 9 9 9 9
VCin    3|
VCot    4|                   1 1 1 1 1 1 1 1 1 4 4 4 3 3 4 4 4 4 7
7 7 6 6 7 7 7 7
FMin+   5|
1 1
FMot+   6|                                     2 2 2 1 2 2 2 2 2 5
5 5 4 4 5 5 5 5
VCin+   7|
VCot+   8|                                               1 1 3
3 3 2 3 3 3 3 3
```

* Desired link labels start with "xx" where "xx" is the downlink EIRP density for the link. Thus "06F1", "10F1", "13F1", and "16F1" have 6, 10, 13, and 16 dBW/4kHz downlink EIRP densities, respectively.

** Links not labeled with the "+" have 6 dBW/4kHz downlink EIRP densities and those labeled with the "+" have 10 dBW/4kHz downlink EIRP densities.

Table C-22b: Results for Full & Dual Wideband Digital Carriers (10 dBW/4kHz) interfering into narrowband analog SCPC/FM systems

| Interfering Signal (see table C-5) | Desired Signal (see table C-2) | $C/I_u$ (dB) | $C/I_d$ (dB) | $C/I_t$ (dB) | S.E. Objective (dB) | Margin (dB) |
|---|---|---|---|---|---|---|
| 10F1 | FMot | 33.5 | **17.3** | 17.1 | 20.0 | **-2.8** |
| 10F2 | FMot | 33.4 | **17.2** | 17.1 | 20.0 | **-2.9** |
| 10F3 | FMot | 33.4 | **17.2** | 17.1 | 20.0 | **-2.9** |
| 10M1 (1 carr.) | FMot | 34.0 | **17.8** | 17.7 | 20.0 | **-2.3** |
| 10M1 (2 carr.) | FMot | 33.8 | **17.6** | 17.5 | 20.0 | **-2.5** |
| 10M2 (1 carr.) | FMot | 33.5 | **17.3** | 17.2 | 20.0 | **-2.8** |

| | | | | | | |
|---|---|---|---|---|---|---|
| 10M2 (2 carr.) | FMot | 33.4 | **17.2** | 17.1 | 20.0 | **-2.9** |
| 10M3 (1 carr.) | FMot | 33.1 | **17.0** | 16.9 | 20.0 | **-3.1** |
| 10M3 (2 carr.) | FMot | 33.0 | **16.9** | 16.8 | 20.0 | **-3.2** |
| | | | | | | |
| 10F1 | VCot | 33.4 | **17.2** | 17.1 | 18.0 | **-0.9** |
| 10F2 | VCot | 33.4 | **17.2** | 17.1 | 18.0 | **-0.9** |
| 10F3 | VCot | 33.4 | **17.2** | 17.1 | 18.0 | **-0.9** |
| 10M1 (1 carr.) | VCot | 33.9 | **17.7** | 17.6 | 18.0 | **-0.4** |
| 10M1 (2 carr.) | VCot | 33.7 | **17.5** | 17.4 | 18.0 | **-0.5** |
| 10M2 (1 carr.) | VCot | 33.5 | **17.3** | 17.2 | 18.0 | **-0.8** |
| 10M2 (2 carr.) | VCot | 33.4 | **17.2** | 17.1 | 18.0 | **-0.9** |
| 10M3 (1 carr.) | VCot | 33.0 | **16.9** | 16.8 | 18.0 | **-1.2** |
| 10M3 (2 carr.) | VCot | 33.0 | **16.9** | 16.8 | 18.0 | **-1.2** |

Table C-22c: Results for Full & Dual Wideband Digital Carriers (13 dBW/4kHz) interfering into narrowband analog SCPC/FM systems

| Interfering Signal (see table C-5) | Desired Signal (see table C-2) | $C/I_u$ (dB) | $C/I_d$ (dB) | $C/I_t$ (dB) | S.E. Objective (dB) | Margin (dB) |
|---|---|---|---|---|---|---|
| 13F2 | FMin | 21.2 | 26.0 | 20.0 | 20.0 | 0.0 |
| 13F3 | FMin | 21.2 | 26.0 | 20.0 | 20.0 | 0.0 |
| 13M2 (2 carr.) | FMin | 21.2 | 26.0 | 20.0 | 20.0 | 0.0 |
| 13M3 (1 carr.) | FMin | **20.9** | 25.8 | 19.6 | 20.0 | **-0.3** |
| 13M3 (2 carr.) | FMin | **20.8** | 25.7 | 19.6 | 20.0 | **-0.4** |
| | | | | | | |
| 13F1 | FMot | 33.5 | **14.3** | 14.2 | 20.0 | **-5.8** |
| 13F2 | FMot | 33.4 | **14.2** | 14.1 | 20.0 | **-5.8** |
| 13F3 | FMot | 33.4 | **14.2** | 14.1 | 20.0 | **-5.8** |
| 13M1 (1 carr.) | FMot | 34.0 | **14.8** | 14.7 | 20.0 | **-5.3** |
| 13M1 (2 carr.) | FMot | 33.8 | **14.6** | 14.5 | 20.0 | **-5.5** |
| 13M2 (1 carr.) | FMot | 33.5 | **14.3** | 14.3 | 20.0 | **-5.7** |
| 13M2 (2 carr.) | FMot | 33.4 | **14.2** | 14.2 | 20.0 | **-5.8** |
| 13M3 (1 carr.) | FMot | 33.1 | **14.0** | 13.9 | 20.0 | **-6.1** |
| 13M3 (2 carr.) | FMot | 33.0 | **13.9** | 13.9 | 20.0 | **-6.1** |
| | | | | | | |
| 13F1 | VCot | 33.4 | **14.2** | 14.2 | 18.0 | **-3.8** |
| 13F2 | VCot | 33.4 | **14.2** | 14.1 | 18.0 | **-3.9** |
| 13F3 | VCot | 33.4 | **14.2** | 14.1 | 18.0 | **-3.9** |
| 13M1 (1 carr.) | VCot | 33.9 | **14.7** | 14.7 | 18.0 | **-3.3** |
| 13M1 (2 carr.) | VCot | 33.7 | **14.5** | 14.5 | 18.0 | **-3.5** |
| 13M2 (1 carr.) | VCot | 33.5 | **14.3** | 14.2 | 18.0 | **-3.8** |
| 13M2 (2 carr.) | VCot | 33.4 | **14.2** | 14.1 | 18.0 | **-3.8** |
| 13M3 (1 carr.) | VCot | 33.0 | **13.9** | 13.9 | 18.0 | **-4.1** |
| 13M3 (2 carr.) | VCot | 33.0 | **13.9** | 13.9 | 18.0 | **-4.1** |
| | | | | | | |
| 13F1 | FMot+ | 33.5 | **18.3** | 18.1 | 20.0 | **-1.9** |
| 13F2 | FMot+ | 33.4 | **18.2** | 18.1 | 20.0 | **-1.9** |
| 13F3 | FMot+ | 33.4 | **18.2** | 18.1 | 20.0 | **-1.9** |
| 13M1 (1 carr.) | FMot+ | 34.0 | **18.8** | 18.6 | 20.0 | **-1.4** |
| 13M1 (2 carr.) | FMot+ | 33.8 | **18.6** | 18.4 | 20.0 | **-1.5** |
| 13M2 (1 carr.) | FMot+ | 33.5 | **18.3** | 18.2 | 20.0 | **-1.8** |
| 13M2 (2 carr.) | FMot+ | 33.4 | **18.2** | 18.1 | 20.0 | **-1.9** |
| 13M3 (1 carr.) | FMot+ | 33.1 | **18.0** | 17.8 | 20.0 | **-2.2** |
| 13M3 (2 carr.) | FMot+ | 33.0 | **17.9** | 17.8 | 20.0 | **-2.2** |
| | | | | | | |
| 13M3 (1 carr.) | VCot+ | 33.0 | **17.9** | 17.8 | 18.0 | **-0.2** |
| 13M3 (2 carr.) | VCot+ | 33.0 | **17.9** | 17.8 | 18.0 | **-0.2** |

Table C-22d: Results for Full & Dual Wideband Digital Carriers (16 dBW/4kHz) interfering into narrowband analog SCPC/FM systems

| Interfering Signal (see table C-5) | Desired Signal (see table C-2) | $C/I_u$ (dB) | $C/I_d$ (dB) | $C/I_t$ (dB) | S.E. Objective (dB) | Margin (dB) |
|---|---|---|---|---|---|---|
| 16F1 | FMin | **21.3** | 23.1 | 19.0 | 20.0 | **-0.9** |
| 16F2 | FMin | **21.2** | 23.0 | 19.0 | 20.0 | **-1.0** |
| 16F3 | FMin | **21.2** | 23.0 | 19.0 | 20.0 | **-1.0** |
| 16M1 (1 carr.) | FMin | **21.8** | 23.6 | 19.6 | 20.0 | **-0.4** |
| 16M1 (2 carr.) | FMin | **21.6** | 23.4 | 19.4 | 20.0 | **-0.6** |
| 16M2 (1 carr.) | FMin | **21.3** | 23.1 | 19.1 | 20.0 | **-0.9** |
| 16M2 (2 carr.) | FMin | **21.2** | 23.0 | 19.0 | 20.0 | **-1.0** |
| 16M3 (1 carr.) | FMin | **20.9** | 22.8 | 18.7 | 20.0 | **-1.3** |
| 16M3 (2 carr.) | FMin | **20.8** | 22.7 | 18.7 | 20.0 | **-1.3** |
| 16F1 | FMot | 33.5 | **11.3** | 11.2 | 20.0 | **-8.8** |
| 16F2 | FMot | 33.4 | **11.2** | 11.2 | 20.0 | **-8.8** |
| 16F3 | FMot | 33.4 | **11.2** | 11.2 | 20.0 | **-8.8** |
| 16M1 (1 carr.) | FMot | 34.0 | **11.8** | 11.7 | 20.0 | **-8.3** |
| 16M1 (2 carr.) | FMot | 33.8 | **11.6** | 11.6 | 20.0 | **-8.4** |
| 16M2 (1 carr.) | FMot | 33.5 | **11.3** | 11.3 | 20.0 | **-8.7** |
| 16M2 (2 carr.) | FMot | 33.4 | **11.2** | 11.2 | 20.0 | **-8.8** |
| 16M3 (1 carr.) | FMot | 33.1 | **11.0** | 10.9 | 20.0 | **-9.1** |
| 16M3 (2 carr.) | FMot | 33.0 | **10.9** | 10.9 | 20.0 | **-9.1** |
| 16F1 | VCot | 33.4 | **11.2** | 11.2 | 18.0 | **-6.8** |
| 16F2 | VCot | 33.4 | **11.2** | 11.1 | 18.0 | **-6.8** |
| 16F3 | VCot | 33.4 | **11.2** | 11.1 | 18.0 | **-6.8** |
| 16M1 (1 carr.) | VCot | 33.9 | **11.7** | 11.7 | 18.0 | **-6.3** |
| 16M1 (2 carr.) | VCot | 33.7 | **11.5** | 11.5 | 18.0 | **-6.5** |
| 16M2 (1 carr.) | VCot | 33.5 | **11.3** | 11.3 | 18.0 | **-6.7** |
| 16M2 (2 carr.) | VCot | 33.4 | **11.2** | 11.2 | 18.0 | **-6.8** |
| 16M3 (1 carr.) | VCot | 33.0 | **10.9** | 10.9 | 18.0 | **-7.1** |
| 16M3 (2 carr.) | VCot | 33.0 | **10.9** | 10.9 | 18.0 | **-7.1** |
| 16M3 (1 carr.) | FMin+ | **20.9** | 26.8 | 19.9 | 20.0 | **-0.1** |
| 16M3 (2 carr.) | FMin+ | **20.8** | 26.7 | 19.8 | 20.0 | **-0.1** |
| 16F1 | FMot+ | 33.5 | **15.3** | 15.2 | 20.0 | **-4.8** |
| 16F2 | FMot+ | 33.4 | **15.2** | 15.1 | 20.0 | **-4.9** |
| 16F3 | FMot+ | 33.4 | **15.2** | 15.1 | 20.0 | **-4.9** |
| 16M1 (1 carr.) | FMot+ | 34.0 | **15.8** | 15.7 | 20.0 | **-4.3** |
| 16M1 (2 carr.) | FMot+ | 33.8 | **15.6** | 15.5 | 20.0 | **-4.5** |
| 16M2 (1 carr.) | FMot+ | 33.5 | **15.3** | 15.2 | 20.0 | **-4.7** |
| 16M2 (2 carr.) | FMot+ | 33.4 | **15.2** | 15.2 | 20.0 | **-4.8** |
| 16M3 (1 carr.) | FMot+ | 33.1 | **15.0** | 14.9 | 20.0 | **-5.1** |
| 16M3 (2 carr.) | FMot+ | 33.0 | **14.9** | 14.9 | 20.0 | **-5.1** |
| 16F1 | VCot+ | 33.4 | **15.2** | 15.2 | 18.0 | **-2.8** |
| 16F2 | VCot+ | 33.4 | **15.2** | 15.1 | 18.0 | **-2.9** |
| 16F3 | VCot+ | 33.4 | **15.2** | 15.1 | 18.0 | **-2.9** |
| 16M1 (1 carr.) | VCot+ | 33.9 | **15.7** | 15.7 | 18.0 | **-2.3** |
| 16M1 (2 carr.) | VCot+ | 33.7 | **15.5** | 15.5 | 18.0 | **-2.5** |

| | | | | | | |
|---|---|---|---|---|---|---|
| 16M2 (1 carr.) | VCot+ | 33.5 | **15.3** | 15.2 | 18.0 | **-2.8** |
| 16M2 (2 carr.) | VCot+ | 33.4 | **15.2** | 15.1 | 18.0 | **-2.9** |
| 16M3 (1 carr.) | VCot+ | 33.0 | **14.9** | 14.9 | 18.0 | **-3.1** |
| 16M3 (2 carr.) | VCot+ | 33.0 | **14.9** | 14.8 | 18.0 | **-3.1** |

Table C-23a: Results for Full & Dual Wideband Digital Carriers interfering into Generic systems (2° Spacing)

Matrix shows combinations failing to meet single entry interference objective by "X" dB.

```
          |  INTERFERING LINK* -->
          |0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1
          |6 6 6 6 6 6 6 6 6 0 0 0 0 0 0 0 0 0 3 3 3 3 3 3 3 3 3 6
6 6 6 6 6 6 6 6
 WANTED   |F F F M M M M M M F F F M M M M M M F F F M M M M M M F
F F M M M M M M
  LINK    |1 2 3 1 1 2 2 3 3 1 2 3 1 1 2 2 3 3 1 2 3 1 1 2 2 3 3 1
2 3 1 1 2 2 3 3
---------+-------------------------------------------------------
------------------
ASC+ N001|
ASC+ N002|                                     1               1 3
2 2   1   2 2 3
ASC+ N003|                 1 1 1         1 1 3 2 2   1   2 2 3 5
5 5 1 3 2 4 5 5
CGC+ N004|                                                       1
2
CGC+ N005|                                     1                 2
2 2       1 2 1
CGC+ N006|
CGC+ N007|                                                       1
1 1 1 1 1 1 1 1
CGC+ N008|                                     1 1 1     1 1 1 1 3
3 3 3 3 3 3 3 3
CGC+ N009|
CGC+ N010|
FED+ N011|                                                       1
1
FED+ N012|
FAS+ N013|
FAS+ N014|                                                       3
2 2       1 1 3
FAS+ N015|
FAS+ N016|
FAS+ N017|                                                       1
1 1     1   1 1
FAS+ N018|                                     1 1 1     1 1 1 1 3
3 3 2 2 3 3 3 3
FAS+ N019|                                     1               1 3
3 3   1   2 2 3
FAS+ N020|                                     2 1 1       1 1 2 5
4 4   2 1 3 3 5
FAS+ N021|                                     2 1 1       1 1 2 5
4 4   2 1 3 3 5
```

```
FAS+ N022|                                  2 1 1       1 1 2 5
4 4   2 1 4 3 5
FAS+ N023|                                  1 1 1     1 1 1 1 3
3 3 2 2 3 3 3 3
GTEs N024|
GTEs N025|
GTE+ N026|                                  1               1 3
1 1       1 1 3
GTEs N027|
GTEs N028|                                                    1
1 1           1
GTEs N029|                                                    1
1 1   1 1 1 1 1
GTEs N030|                                  1 1 1     1 1 1 1 3
3 3 2 3 3 3 3 3
GTEm N031|
GTEm N032|                                                    2
2 2       1 1 2
GTE+ N033|                                  1               2 4
2 2   1   2 2 5
GTEm N034|                                  1               1 3
2 2       1 1 3
GTEm N035|                1               1 3 2 2       1 1 3 5
5 5   2 1 4 4 5
GTEm N036|                                  2 2 2 2 2 2 2 2 3 5
5 5 5 5 5 5 5 5
```

Table C-23a (continued): Results for Full & Dual Wideband Digital Carriers interfering into Generic systems (2° Spacing)

Matrix shows combinations failing to meet single entry interference objective by "X" dB.

```
          |  INTERFERING LINK* -->
          |0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1
          |6 6 6 6 6 6 6 6 6 6 0 0 0 0 0 0 0 0 0 3 3 3 3 3 3 3 3 3 6
6 6 6 6 6 6 6 6
 WANTED   |F F F M M M M M M F F F M M M M M M F F F M M M M M M F
F F M M M M M M
  LINK    |1 2 3 1 1 2 2 3 3 1 2 3 1 1 2 2 3 3 1 2 3 1 1 2 2 3 3 1
2 3 1 1 2 2 3 3
---------+-------------------------------------------------------
------------------
GTEm N037|                   2 2 2 1 2 2 2 2 2 5 5 5 4 4 5 5 5 5 8
8 8 7 7 8 8 8 8
GAL+ N038|                                                       1
1
GAL+ N039|                                                       2
1 1       1 1 1
GAL+ N040|                                 1 1               2 3
2 2       1 1 4
GAL+ N041|                                   3 2 2       1 2 2 5
5 5   3 2 4 4 5
GAL+ N042|                                   2 2 2 1 1 2 2 2 2 4
4 4 4 4 4 4 4 4
GAL+ N043|                                   2 2 2 1 1 2 2 2 2 5
5 5 4 4 5 5 5 4
ISOC N044|                                   2 2 2 2 2 2 2 2 2 5
5 5 4 5 5 5 5 5
ISOC N045|                   1 1 1 1 1 1 1 1 1 4 4 4 3 3 3 4 4 4 6
7 7 6 6 6 6 7 7
ISOC N046|                               1 1 3 3 3 2 2 3 3 3 3 6
6 6 5 5 6 6 6 6
MARs N047|
MARs N048|                                               1 1 3
3 3 2 2 2 3 3 3
MARc N049|                                   1 1 1   1 1 1 1 1 3
3 3 3 3 3 3 4 4
RCAc N050|                                                       1
1 1       1 1 1
RCAc N051|
RCAc N052|                   1               1 2 1 1       1   3 5
4 4   1   3 3 6
RCAc N053|                   1 1 1         1 1 4 3 3   1 1 2 3 3 6
6 6 1 4 3 5 6 5
RCAc N054|
RCAc N055|
```