



**Full&Default Power Mode**

| GSM850 Ant 0    | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
|                 | TX Channel                | 123   | 189   |                           | 251                       | 123   | 189   |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 | 33.50                     | 824.2                     | 836.4 | 848.8 | 24.50                     |
| GSM 1 Tx slot   | 31.72                     | 31.95 | 31.90 | 33.50                     | 22.72                     | 22.95 | 22.90 | 24.50                     |
| GPRS 1 Tx slot  | 31.70                     | 31.93 | 31.88 | 33.50                     | 22.70                     | 22.93 | 22.88 | 24.50                     |
| GPRS 2 Tx slots | 30.87                     | 30.95 | 30.91 | 32.00                     | 24.87                     | 24.95 | 24.91 | 26.00                     |
| GPRS 3 Tx slots | 28.94                     | 29.13 | 29.09 | 30.00                     | 24.68                     | 24.87 | 24.83 | 25.74                     |
| GPRS 4 Tx slots | 27.86                     | 27.88 | 27.84 | 29.00                     | 24.86                     | 24.88 | 24.84 | 26.00                     |

| Band            | WCDMA V Ant 0 |       |       | Tune-up<br>Limit<br>(dBm) |       |
|-----------------|---------------|-------|-------|---------------------------|-------|
|                 | TX Channel    | 4132  | 4182  |                           | 4233  |
| Rx Channel      | 4357          | 4407  | 4458  |                           |       |
| Frequency (MHz) | 826.4         | 836.4 | 846.6 |                           |       |
| 3GPP Rel 99     | RMC 12.2Kbps  | 22.57 | 22.58 | 22.51                     | 24.00 |



### Band 5 Ant 0

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 20450                 | 20525                    | 20600                  | 24                  | 0        |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    |                     |          |
| 10              | QPSK       | 1       | 0         | 22.34                 | 22.48                    | 22.17                  | 23                  | 1        |
| 10              | QPSK       | 1       | 25        | 22.18                 | 22.26                    | 22.23                  |                     |          |
| 10              | QPSK       | 1       | 49        | 22.41                 | 22.27                    | 22.10                  |                     |          |
| 10              | QPSK       | 25      | 0         | 21.36                 | 21.39                    | 21.31                  | 23                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.36                 | 21.21                    | 21.35                  |                     |          |
| 10              | QPSK       | 25      | 25        | 21.16                 | 21.22                    | 21.15                  |                     |          |
| 10              | QPSK       | 50      | 0         | 21.18                 | 21.27                    | 21.24                  |                     |          |

### Band 12 Ant 0

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 23060                 | 23095                    | 23130                  | 24                  | 0        |
| Frequency (MHz) |            |         |           | 704                   | 707.5                    | 711                    |                     |          |
| 10              | QPSK       | 1       | 0         | 22.24                 | 22.32                    | 22.31                  | 23                  | 1        |
| 10              | QPSK       | 1       | 25        | 22.19                 | 22.17                    | 22.22                  |                     |          |
| 10              | QPSK       | 1       | 49        | 22.16                 | 22.29                    | 22.10                  |                     |          |
| 10              | QPSK       | 25      | 0         | 21.29                 | 21.35                    | 21.27                  | 23                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.19                 | 21.16                    | 21.19                  |                     |          |
| 10              | QPSK       | 25      | 25        | 21.12                 | 21.28                    | 21.13                  |                     |          |
| 10              | QPSK       | 50      | 0         | 21.32                 | 21.33                    | 21.16                  |                     |          |

### Band 13 Ant 0

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 23230                 |                          |                        | 24                  | 0        |
| Frequency (MHz) |            |         |           | 782                   |                          |                        |                     |          |
| 10              | QPSK       | 1       | 0         |                       | 22.57                    |                        | 23                  | 1        |
| 10              | QPSK       | 1       | 25        |                       | 22.36                    |                        |                     |          |
| 10              | QPSK       | 1       | 49        |                       | 22.43                    |                        |                     |          |
| 10              | QPSK       | 25      | 0         |                       | 21.53                    |                        | 23                  | 1        |
| 10              | QPSK       | 25      | 12        |                       | 21.22                    |                        |                     |          |
| 10              | QPSK       | 25      | 25        |                       | 21.29                    |                        |                     |          |
| 10              | QPSK       | 50      | 0         |                       | 21.48                    |                        |                     |          |

### Band 17 Ant 0

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 23780                 | 23790                    | 23800                  | 24                  | 0        |
| Frequency (MHz) |            |         |           | 709                   | 710                      | 711                    |                     |          |
| 10              | QPSK       | 1       | 0         | 22.23                 | 22.31                    | 22.23                  | 23                  | 1        |
| 10              | QPSK       | 1       | 25        | 22.11                 | 22.12                    | 22.19                  |                     |          |
| 10              | QPSK       | 1       | 49        | 22.13                 | 22.30                    | 22.09                  |                     |          |
| 10              | QPSK       | 25      | 0         | 21.18                 | 21.27                    | 21.18                  | 23                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.08                 | 21.09                    | 21.25                  |                     |          |
| 10              | QPSK       | 25      | 25        | 21.19                 | 21.13                    | 21.05                  |                     |          |
| 10              | QPSK       | 50      | 0         | 21.11                 | 21.25                    | 21.06                  |                     |          |

### Band 26 Ant 0

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 26765                 | 26855                    | 26965                  | 24                  | 0        |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |          |
| 15              | QPSK       | 1       | 0         | 22.50                 | 22.57                    | 22.27                  | 23                  | 1        |
| 15              | QPSK       | 1       | 37        | 22.24                 | 22.42                    | 22.29                  |                     |          |
| 15              | QPSK       | 1       | 74        | 22.40                 | 22.35                    | 22.35                  |                     |          |
| 15              | QPSK       | 36      | 0         | 21.43                 | 21.50                    | 21.44                  | 23                  | 1        |
| 15              | QPSK       | 36      | 20        | 21.39                 | 21.45                    | 21.46                  |                     |          |
| 15              | QPSK       | 36      | 39        | 21.37                 | 21.27                    | 21.35                  |                     |          |
| 15              | QPSK       | 75      | 0         | 21.41                 | 21.46                    | 21.42                  |                     |          |



| GSM1900 Ant 1   | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
|                 | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1860  | 1907.8 |                           | 1850.2                    | 1860  | 1907.8 |                           |
| GSM 1 Tx slot   | 23.59                     | 29.03 | 29.02  | 30.50                     | 19.99                     | 20.08 | 20.02  | 21.50                     |
| GPRS 1 Tx slot  | 28.96                     | 29.05 | 29.01  | 30.50                     | 19.96                     | 20.05 | 20.01  | 21.50                     |
| GPRS 2 Tx slots | 28.11                     | 28.19 | 28.19  | 29.50                     | 22.11                     | 22.19 | 22.19  | 23.50                     |
| GPRS 3 Tx slots | 26.19                     | 26.23 | 26.23  | 27.50                     | 21.93                     | 21.97 | 21.97  | 23.24                     |
| GPRS 4 Tx slots | 25.23                     | 25.29 | 25.26  | 26.50                     | 22.23                     | 22.29 | 22.26  | 23.50                     |

| Band            | WCDMA II Ant 1 |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV Ant 1 |        |        | Tune-up<br>Limit<br>(dBm) |       |
|-----------------|----------------|-------|--------|---------------------------|----------------|--------|--------|---------------------------|-------|
|                 | 9262           | 9400  | 9538   |                           | 1312           | 1413   | 1513   |                           |       |
| TX Channel      | 9262           | 9400  | 9538   |                           | 1312           | 1413   | 1513   |                           |       |
| Rx Channel      | 9662           | 9800  | 9938   |                           | 1537           | 1638   | 1738   |                           |       |
| Frequency (MHz) | 1852.4         | 1880  | 1907.6 |                           | 1712.4         | 1732.6 | 1752.6 |                           |       |
| 3GPP Rel 99     | RMC 12.2Kbps   | 22.58 | 22.68  | 22.66                     | 24.00          | 22.52  | 22.54  | 22.46                     | 24.00 |



### Band 2 Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 18700           | 18800              | 19100            |                     |          |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1900             |                     |          |
| 20              | QPSK       | 1       | 0         | 22.23           | 22.30              | 22.26            | 24                  | 0        |
| 20              | QPSK       | 1       | 49        | 22.15           | 22.25              | 22.20            |                     |          |
| 20              | QPSK       | 1       | 99        | 22.22           | 22.06              | 22.10            |                     |          |
| 20              | QPSK       | 50      | 0         | 21.25           | 21.28              | 21.16            | 23                  | 1        |
| 20              | QPSK       | 50      | 24        | 21.21           | 21.21              | 21.16            |                     |          |
| 20              | QPSK       | 50      | 50        | 21.22           | 21.18              | 21.19            |                     |          |
| 20              | QPSK       | 100     | 0         | 21.11           | 21.15              | 21.14            |                     |          |

### Band 25 Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 26140           | 26340              | 26590            |                     |          |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1905             |                     |          |
| 20              | QPSK       | 1       | 0         | 22.32           | 22.37              | 22.23            | 24                  | 0        |
| 20              | QPSK       | 1       | 49        | 22.18           | 22.25              | 22.16            |                     |          |
| 20              | QPSK       | 1       | 99        | 22.27           | 22.14              | 22.17            |                     |          |
| 20              | QPSK       | 50      | 0         | 21.27           | 21.38              | 21.24            | 23                  | 1        |
| 20              | QPSK       | 50      | 24        | 21.24           | 21.22              | 21.33            |                     |          |
| 20              | QPSK       | 50      | 50        | 21.23           | 21.18              | 21.14            |                     |          |
| 20              | QPSK       | 100     | 0         | 21.31           | 21.32              | 21.22            |                     |          |

### Band 4 Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 20050           | 20175              | 20300            |                     |          |
| Frequency (MHz) |            |         |           | 1720            | 1732.5             | 1745             |                     |          |
| 20              | QPSK       | 1       | 0         | 22.18           | 22.37              | 22.36            | 24                  | 0        |
| 20              | QPSK       | 1       | 49        | 22.05           | 22.32              | 22.25            |                     |          |
| 20              | QPSK       | 1       | 99        | 22.21           | 22.23              | 22.19            |                     |          |
| 20              | QPSK       | 50      | 0         | 21.30           | 21.45              | 21.17            | 23                  | 1        |
| 20              | QPSK       | 50      | 24        | 21.08           | 21.31              | 21.31            |                     |          |
| 20              | QPSK       | 50      | 50        | 21.24           | 21.20              | 21.16            |                     |          |
| 20              | QPSK       | 100     | 0         | 21.07           | 21.38              | 21.16            |                     |          |

### Band 66 Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 132072          | 132322             | 132572           |                     |          |
| Frequency (MHz) |            |         |           | 1720            | 1745               | 1770             |                     |          |
| 20              | QPSK       | 1       | 0         | 22.33           | 22.42              | 22.28            | 24                  | 0        |
| 20              | QPSK       | 1       | 49        | 22.28           | 22.41              | 22.29            |                     |          |
| 20              | QPSK       | 1       | 99        | 22.29           | 22.34              | 22.27            |                     |          |
| 20              | QPSK       | 50      | 0         | 21.28           | 21.42              | 21.33            | 23                  | 1        |
| 20              | QPSK       | 50      | 24        | 21.28           | 21.38              | 21.31            |                     |          |
| 20              | QPSK       | 50      | 50        | 21.30           | 21.30              | 21.21            |                     |          |
| 20              | QPSK       | 100     | 0         | 21.29           | 21.38              | 21.26            |                     |          |

### Band 7 Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 20850           | 21100              | 21350            |                     |          |
| Frequency (MHz) |            |         |           | 2510            | 2535               | 2560             |                     |          |
| 20              | QPSK       | 1       | 0         | 22.29           | 22.31              | 22.21            | 24                  | 0        |
| 20              | QPSK       | 1       | 49        | 22.20           | 22.18              | 22.15            |                     |          |
| 20              | QPSK       | 1       | 99        | 22.20           | 22.09              | 22.14            |                     |          |
| 20              | QPSK       | 50      | 0         | 21.26           | 21.30              | 21.19            | 23                  | 1        |
| 20              | QPSK       | 50      | 24        | 21.23           | 21.17              | 21.13            |                     |          |
| 20              | QPSK       | 50      | 50        | 21.15           | 21.16              | 21.12            |                     |          |
| 20              | QPSK       | 100     | 0         | 21.25           | 21.28              | 21.22            |                     |          |

### Band 38 Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |
| 20              | QPSK       | 1       | 0         | 22.38                 | 22.47                    | 22.32                  | 23                  | 1        |
| 20              | QPSK       | 1       | 49        | 22.43                 | 22.43                    | 22.41                  |                     |          |
| 20              | QPSK       | 1       | 99        | 22.32                 | 22.31                    | 22.31                  |                     |          |
| 20              | QPSK       | 50      | 0         | 21.34                 | 21.51                    | 21.30                  | 23                  | 1        |
| 20              | QPSK       | 50      | 24        | 21.47                 | 21.47                    | 21.31                  |                     |          |
| 20              | QPSK       | 50      | 50        | 21.37                 | 21.29                    | 21.36                  |                     |          |
| 20              | QPSK       | 100     | 0         | 21.42                 | 21.47                    | 21.27                  |                     |          |

### Band 41 Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |          |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20              | QPSK       | 1       | 0         | 22.42                 | 22.47                        | 22.49                    | 22.40                         | 22.43                  | 23                  | 1        |
| 20              | QPSK       | 1       | 49        | 22.41                 | 22.51                        | 22.48                    | 22.43                         | 22.37                  |                     |          |
| 20              | QPSK       | 1       | 99        | 22.40                 | 22.49                        | 22.43                    | 22.40                         | 22.40                  |                     |          |
| 20              | QPSK       | 50      | 0         | 21.53                 | 21.42                        | 21.55                    | 21.43                         | 21.44                  | 23                  | 1        |
| 20              | QPSK       | 50      | 24        | 21.40                 | 21.51                        | 21.51                    | 21.48                         | 21.37                  |                     |          |
| 20              | QPSK       | 50      | 50        | 21.43                 | 21.51                        | 21.44                    | 21.37                         | 21.40                  |                     |          |
| 20              | QPSK       | 100     | 0         | 21.46                 | 21.43                        | 21.51                    | 21.40                         | 21.44                  |                     |          |



### Band 42 FCC Part27Q Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) | Ch Delta > 0.5 |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|----------------|
| Channel         |            |         |           | 42190                 | 42590                    | 42990                  |                     |          |                |
| Frequency (MHz) |            |         |           | 3460                  | 3500                     | 3540                   |                     |          |                |
| 20              | QPSK       | 1       | 0         | 22.31                 | 22.39                    | 22.27                  |                     |          |                |
| 20              | QPSK       | 1       | 49        | 22.22                 | 22.33                    | 22.20                  | 24                  | 0        | 0.19           |
| 20              | QPSK       | 1       | 99        | 22.33                 | 22.26                    | 22.21                  |                     |          |                |
| 20              | QPSK       | 50      | 0         | 21.37                 | 21.42                    | 21.33                  |                     |          |                |
| 20              | QPSK       | 50      | 24        | 21.22                 | 21.33                    | 21.25                  | 23                  | 1        | 0.31           |
| 20              | QPSK       | 50      | 50        | 21.36                 | 21.19                    | 21.11                  |                     |          |                |
| 20              | QPSK       | 100     | 0         | 21.31                 | 21.32                    | 21.31                  |                     |          | 0.01           |



| GSM850 Ant 4<br>TX Channel | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|----------------------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
|                            | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |
| Frequency (MHz)            | 324.2                     | 836.4 | 848.8 |                           | 324.2                     | 836.4 | 848.8 |                           |
| GSM 1 Tx slot              | 31.19                     | 31.27 | 31.17 | 32.50                     | 22.19                     | 22.27 | 22.17 | 23.50                     |
| GPRS 1 Tx slot             | 31.18                     | 31.25 | 31.16 | 32.50                     | 22.18                     | 22.25 | 22.16 | 23.50                     |
| GPRS 2 Tx slots            | 30.28                     | 30.35 | 30.28 | 31.00                     | 24.28                     | 24.35 | 24.28 | 25.00                     |
| GPRS 3 Tx slots            | 28.39                     | 28.46 | 28.40 | 29.00                     | 24.13                     | 24.20 | 24.14 | 24.74                     |
| GPRS 4 Tx slots            | 27.14                     | 27.15 | 27.13 | 28.00                     | 24.14                     | 24.15 | 24.13 | 25.00                     |

| Band<br>TX Channel       | WCDMA V Ant 4 |       |       | Tune-up<br>Limit<br>(dBm) |
|--------------------------|---------------|-------|-------|---------------------------|
|                          | 4132          | 4182  | 4233  |                           |
| Rx Channel               | 4357          | 4407  | 4458  |                           |
| Frequency (MHz)          | 826.4         | 836.4 | 846.6 |                           |
| 3GPP Rel 99 RMC 12.2Kbps | 22.27         | 22.31 | 22.24 | 23.00                     |



### Band 2 Ant 4

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 18700           | 18800              | 19100            | 23                  | 0        |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1900             |                     |          |
| 20              | QPSK       | 1       | 0         | 21.36           | 21.50              | 21.30            | 23                  | 0        |
| 20              | QPSK       | 1       | 49        | 21.22           | 21.31              | 21.39            |                     |          |
| 20              | QPSK       | 1       | 99        | 21.28           | 21.43              | 21.27            |                     |          |
| 20              | QPSK       | 50      | 0         | 20.40           | 20.48              | 20.43            | 22                  | 1        |
| 20              | QPSK       | 50      | 24        | 20.25           | 20.36              | 20.31            |                     |          |
| 20              | QPSK       | 50      | 50        | 20.27           | 20.30              | 20.34            |                     |          |
| 20              | QPSK       | 100     | 0         | 20.37           | 20.43              | 20.39            |                     |          |

### Band 13 Ant 4

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 23230           |                    |                  | 24                  | 0        |
| Frequency (MHz) |            |         |           | 782             |                    |                  |                     |          |
| 10              | QPSK       | 1       | 0         |                 | 22.39              |                  | 24                  | 0        |
| 10              | QPSK       | 1       | 25        |                 | 22.38              |                  |                     |          |
| 10              | QPSK       | 1       | 49        |                 | 22.37              |                  |                     |          |
| 10              | QPSK       | 25      | 0         |                 | 21.40              |                  | 23                  | 1        |
| 10              | QPSK       | 25      | 12        |                 | 21.37              |                  |                     |          |
| 10              | QPSK       | 25      | 25        |                 | 21.39              |                  |                     |          |
| 10              | QPSK       | 50      | 0         |                 | 21.36              |                  |                     |          |

### Band 4 Ant 4

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 20050           | 20175              | 20300            | 23                  | 0        |
| Frequency (MHz) |            |         |           | 1720            | 1732.5             | 1745             |                     |          |
| 20              | QPSK       | 1       | 0         | 21.53           | 21.72              | 21.56            | 23                  | 0        |
| 20              | QPSK       | 1       | 49        | 21.52           | 21.54              | 21.49            |                     |          |
| 20              | QPSK       | 1       | 99        | 21.57           | 21.66              | 21.43            |                     |          |
| 20              | QPSK       | 50      | 0         | 20.52           | 20.77              | 20.56            | 22                  | 1        |
| 20              | QPSK       | 50      | 24        | 20.48           | 20.56              | 20.42            |                     |          |
| 20              | QPSK       | 50      | 50        | 20.45           | 20.54              | 20.51            |                     |          |
| 20              | QPSK       | 100     | 0         | 20.47           | 20.67              | 20.56            |                     |          |

### Band 17 Ant 4

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 23780           | 23790              | 23800            | 24                  | 0        |
| Frequency (MHz) |            |         |           | 709             | 710                | 711              |                     |          |
| 10              | QPSK       | 1       | 0         | 22.33           | 22.48              | 22.44            | 24                  | 0        |
| 10              | QPSK       | 1       | 25        | 22.37           | 22.42              | 22.37            |                     |          |
| 10              | QPSK       | 1       | 49        | 22.45           | 22.36              | 22.46            |                     |          |
| 10              | QPSK       | 25      | 0         | 21.47           | 21.50              | 21.40            | 23                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.27           | 21.38              | 21.31            |                     |          |
| 10              | QPSK       | 25      | 25        | 21.27           | 21.34              | 21.35            |                     |          |
| 10              | QPSK       | 50      | 0         | 21.37           | 21.48              | 21.25            |                     |          |

### Band 5 Ant 4

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 20450           | 20525              | 20600            | 23                  | 0        |
| Frequency (MHz) |            |         |           | 829             | 836.5              | 844              |                     |          |
| 10              | QPSK       | 1       | 0         | 22.09           | 22.15              | 22.13            | 23                  | 0        |
| 10              | QPSK       | 1       | 25        | 22.06           | 22.04              | 22.01            |                     |          |
| 10              | QPSK       | 1       | 49        | 22.09           | 22.05              | 22.12            |                     |          |
| 10              | QPSK       | 25      | 0         | 21.16           | 21.25              | 21.14            | 22                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.17           | 21.15              | 21.16            |                     |          |
| 10              | QPSK       | 25      | 25        | 21.23           | 21.12              | 21.16            |                     |          |
| 10              | QPSK       | 50      | 0         | 21.14           | 21.21              | 21.14            |                     |          |

### Band 25 Ant 4

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 26140           | 26340              | 26590            | 23                  | 0        |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1905             |                     |          |
| 20              | QPSK       | 1       | 0         | 21.38           | 21.54              | 21.40            | 23                  | 0        |
| 20              | QPSK       | 1       | 49        | 21.29           | 21.42              | 21.37            |                     |          |
| 20              | QPSK       | 1       | 99        | 21.35           | 21.52              | 21.35            |                     |          |
| 20              | QPSK       | 50      | 0         | 20.53           | 20.59              | 20.51            | 22                  | 1        |
| 20              | QPSK       | 50      | 24        | 20.36           | 20.45              | 20.33            |                     |          |
| 20              | QPSK       | 50      | 50        | 20.43           | 20.39              | 20.38            |                     |          |
| 20              | QPSK       | 100     | 0         | 20.44           | 20.52              | 20.47            |                     |          |





| Band 7 Ant 4    |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 20850                 | 21100                    | 21350                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2510                  | 2535                     | 2560                   |                     |          |  |
| 20              | QPSK       | 1       | 0         | 21.50                 | 21.65                    | 21.57                  | 23                  | 0        |  |
| 20              | QPSK       | 1       | 49        | 21.52                 | 21.55                    | 21.44                  |                     |          |  |
| 20              | QPSK       | 1       | 99        | 21.41                 | 21.56                    | 21.47                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 20.57                 | 20.59                    | 20.53                  | 22                  | 1        |  |
| 20              | QPSK       | 50      | 24        | 20.46                 | 20.56                    | 20.42                  |                     |          |  |
| 20              | QPSK       | 50      | 50        | 20.45                 | 20.53                    | 20.48                  |                     |          |  |
| 20              | QPSK       | 100     | 0         | 20.53                 | 20.57                    | 20.52                  |                     |          |  |

| Band 26 Ant 4   |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 26765                 | 26865                    | 26965                  |                     |          |  |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |          |  |
| 15              | QPSK       | 1       | 0         | 22.13                 | 22.33                    | 22.19                  | 23                  | 0        |  |
| 15              | QPSK       | 1       | 37        | 22.21                 | 22.20                    | 22.23                  |                     |          |  |
| 15              | QPSK       | 1       | 74        | 22.27                 | 22.19                    | 22.13                  |                     |          |  |
| 15              | QPSK       | 36      | 0         | 21.34                 | 21.37                    | 21.35                  | 22                  | 1        |  |
| 15              | QPSK       | 36      | 20        | 21.23                 | 21.25                    | 21.27                  |                     |          |  |
| 15              | QPSK       | 36      | 39        | 21.36                 | 21.28                    | 21.25                  |                     |          |  |
| 15              | QPSK       | 75      | 0         | 21.27                 | 21.35                    | 21.32                  |                     |          |  |

| Band 12 Ant 4   |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 23060                 | 23095                    | 23130                  |                     |          |  |
| Frequency (MHz) |            |         |           | 704                   | 707.5                    | 711                    |                     |          |  |
| 10              | QPSK       | 1       | 0         | 22.44                 | 22.49                    | 22.45                  | 24                  | 0        |  |
| 10              | QPSK       | 1       | 25        | 22.39                 | 22.45                    | 22.45                  |                     |          |  |
| 10              | QPSK       | 1       | 49        | 22.43                 | 22.46                    | 22.40                  |                     |          |  |
| 10              | QPSK       | 25      | 0         | 21.47                 | 21.51                    | 21.48                  | 23                  | 1        |  |
| 10              | QPSK       | 25      | 12        | 21.34                 | 21.43                    | 21.43                  |                     |          |  |
| 10              | QPSK       | 25      | 25        | 21.36                 | 21.45                    | 21.48                  |                     |          |  |
| 10              | QPSK       | 50      | 0         | 21.43                 | 21.50                    | 21.47                  |                     |          |  |

| Band 66 Ant 4   |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 132072                | 132322                   | 132572                 |                     |          |  |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |  |
| 20              | QPSK       | 1       | 0         | 21.67                 | 21.81                    | 21.65                  | 23                  | 0        |  |
| 20              | QPSK       | 1       | 49        | 21.68                 | 21.70                    | 21.48                  |                     |          |  |
| 20              | QPSK       | 1       | 99        | 21.55                 | 21.77                    | 21.61                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 20.70                 | 20.78                    | 20.64                  | 22                  | 1        |  |
| 20              | QPSK       | 50      | 24        | 20.70                 | 20.67                    | 20.57                  |                     |          |  |
| 20              | QPSK       | 50      | 50        | 20.46                 | 20.71                    | 20.58                  |                     |          |  |
| 20              | QPSK       | 100     | 0         | 20.59                 | 20.77                    | 20.67                  |                     |          |  |

### Band 38 Ant 4

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |
| 20              | QPSK       | 1       | 0         | 21.45                 | 21.55                    | 21.50                  | 22                  | 1        |
| 20              | QPSK       | 1       | 49        | 21.36                 | 21.44                    | 21.41                  |                     |          |
| 20              | QPSK       | 1       | 99        | 21.45                 | 21.48                    | 21.44                  |                     |          |
| 20              | QPSK       | 50      | 0         | 20.45                 | 20.59                    | 20.46                  | 22                  | 1        |
| 20              | QPSK       | 50      | 24        | 20.40                 | 20.42                    | 20.42                  |                     |          |
| 20              | QPSK       | 50      | 50        | 20.38                 | 20.38                    | 20.51                  |                     |          |
| 20              | QPSK       | 100     | 0         | 20.42                 | 20.50                    | 20.41                  | 22                  | 1        |

### Band 41 Ant 4

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |          |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20              | QPSK       | 1       | 0         | 21.59                 | 21.56                        | 21.62                    | 21.53                         | 21.52                  | 22                  | 1        |
| 20              | QPSK       | 1       | 49        | 21.49                 | 21.51                        | 21.56                    | 21.54                         | 21.61                  |                     |          |
| 20              | QPSK       | 1       | 99        | 21.50                 | 21.60                        | 21.59                    | 21.59                         | 21.61                  |                     |          |
| 20              | QPSK       | 50      | 0         | 20.66                 | 20.57                        | 20.68                    | 20.62                         | 20.57                  | 22                  | 1        |
| 20              | QPSK       | 50      | 24        | 20.49                 | 20.50                        | 20.61                    | 20.48                         | 20.55                  |                     |          |
| 20              | QPSK       | 50      | 50        | 20.48                 | 20.55                        | 20.59                    | 20.62                         | 20.67                  |                     |          |
| 20              | QPSK       | 100     | 0         | 20.50                 | 20.55                        | 20.59                    | 20.57                         | 20.58                  | 22                  | 1        |



**Reduced Power Mode for ECI 2**

| GSM850 Ant 0 ECI2 | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|-------------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
|                   | 123                       | 189   | 251   |                           | 123                       | 189   | 251   |                           |
| TX Channel        | 824.2                     | 836.4 | 848.8 | 33.50                     | 824.2                     | 836.4 | 848.8 | 24.50                     |
| Frequency (MHz)   | 31.72                     | 31.95 | 31.90 | 33.50                     | 22.72                     | 22.95 | 22.90 | 24.50                     |
| GSM 1 Tx slot     | 31.70                     | 31.93 | 31.88 | 33.50                     | 22.70                     | 22.93 | 22.88 | 24.50                     |
| GPRS 2 Tx slots   | 30.87                     | 30.95 | 30.91 | 32.00                     | 24.87                     | 24.95 | 24.91 | 26.00                     |
| GPRS 3 Tx slots   | 28.94                     | 29.13 | 29.09 | 30.00                     | 24.68                     | 24.87 | 24.83 | 25.74                     |
| GPRS 4 Tx slots   | 27.86                     | 27.88 | 27.84 | 29.00                     | 24.86                     | 24.88 | 24.84 | 26.00                     |

| Band            | WCDMA V Ant 0 ECI2 |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|--------------------|-------|-------|---------------------------|
|                 | 4132               | 4182  | 4233  |                           |
| TX Channel      | 4357               | 4407  | 4458  | 24.00                     |
| Rx Channel      | 826.4              | 836.4 | 846.6 |                           |
| Frequency (MHz) | 22.57              | 22.58 | 22.51 | 24.00                     |
| 3GPP Rel 99     | RMC 12.2Kbps       |       |       |                           |



### Band 5 Ant 0 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 20450                 | 20525                    | 20600                  |                     |          |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    |                     |          |
| 10              | QPSK       | 1       | 0         | 22.34                 | 22.48                    | 22.17                  | 23                  | 1        |
| 10              | QPSK       | 1       | 25        | 22.18                 | 22.26                    | 22.23                  |                     |          |
| 10              | QPSK       | 1       | 49        | 22.41                 | 22.27                    | 22.10                  |                     |          |
| 10              | QPSK       | 25      | 0         | 21.36                 | 21.39                    | 21.31                  | 23                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.36                 | 21.21                    | 21.35                  |                     |          |
| 10              | QPSK       | 25      | 25        | 21.16                 | 21.22                    | 21.15                  |                     |          |
| 10              | QPSK       | 50      | 0         | 21.18                 | 21.27                    | 21.24                  | 23                  | 1        |

### Band 17 Ant 0 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 23780                 | 23790                    | 23800                  |                     |          |
| Frequency (MHz) |            |         |           | 709                   | 710                      | 711                    |                     |          |
| 10              | QPSK       | 1       | 0         | 22.23                 | 22.31                    | 22.23                  | 23                  | 1        |
| 10              | QPSK       | 1       | 25        | 22.11                 | 22.12                    | 22.19                  |                     |          |
| 10              | QPSK       | 1       | 49        | 22.13                 | 22.30                    | 22.09                  |                     |          |
| 10              | QPSK       | 25      | 0         | 21.18                 | 21.27                    | 21.18                  | 23                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.08                 | 21.09                    | 21.25                  |                     |          |
| 10              | QPSK       | 25      | 25        | 21.19                 | 21.13                    | 21.05                  |                     |          |
| 10              | QPSK       | 50      | 0         | 21.11                 | 21.25                    | 21.06                  | 23                  | 1        |

### Band 12 Ant 0 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 23060                 | 23095                    | 23130                  |                     |          |
| Frequency (MHz) |            |         |           | 704                   | 707.5                    | 711                    |                     |          |
| 10              | QPSK       | 1       | 0         | 22.24                 | 22.32                    | 22.31                  | 23                  | 1        |
| 10              | QPSK       | 1       | 25        | 22.19                 | 22.17                    | 22.22                  |                     |          |
| 10              | QPSK       | 1       | 49        | 22.16                 | 22.29                    | 22.10                  |                     |          |
| 10              | QPSK       | 25      | 0         | 21.29                 | 21.35                    | 21.27                  | 23                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.19                 | 21.16                    | 21.19                  |                     |          |
| 10              | QPSK       | 25      | 25        | 21.12                 | 21.28                    | 21.13                  |                     |          |
| 10              | QPSK       | 50      | 0         | 21.32                 | 21.33                    | 21.16                  | 23                  | 1        |

### Band 26 Ant 0 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 26765                 | 26855                    | 26965                  |                     |          |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |          |
| 15              | QPSK       | 1       | 0         | 22.50                 | 22.57                    | 22.27                  | 23                  | 1        |
| 15              | QPSK       | 1       | 37        | 22.24                 | 22.42                    | 22.29                  |                     |          |
| 15              | QPSK       | 1       | 74        | 22.40                 | 22.35                    | 22.35                  |                     |          |
| 15              | QPSK       | 36      | 0         | 21.43                 | 21.50                    | 21.44                  | 23                  | 1        |
| 15              | QPSK       | 36      | 20        | 21.39                 | 21.45                    | 21.46                  |                     |          |
| 15              | QPSK       | 36      | 39        | 21.37                 | 21.27                    | 21.35                  |                     |          |
| 15              | QPSK       | 75      | 0         | 21.41                 | 21.46                    | 21.42                  | 23                  | 1        |

### Band 13 Ant 0 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 23230                 |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 782                   |                          |                        |                     |          |
| 10              | QPSK       | 1       | 0         |                       | 22.57                    |                        | 23                  | 1        |
| 10              | QPSK       | 1       | 25        |                       | 22.36                    |                        |                     |          |
| 10              | QPSK       | 1       | 49        |                       | 22.43                    |                        |                     |          |
| 10              | QPSK       | 25      | 0         |                       | 21.53                    |                        | 23                  | 1        |
| 10              | QPSK       | 25      | 12        |                       | 21.22                    |                        |                     |          |
| 10              | QPSK       | 25      | 25        |                       | 21.29                    |                        |                     |          |
| 10              | QPSK       | 50      | 0         |                       | 21.48                    |                        | 23                  | 1        |



| GSM1900 Ant 1 ECI2 | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
|--------------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
|                    | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| TX Channel         | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz)    | 1850.2                    | 1860  | 1907.8 |                           | 1850.2                    | 1860  | 1907.8 |                           |
| GSM 1 Tx slot      | 28.89                     | 29.03 | 29.02  | 30.50                     | 19.99                     | 20.08 | 20.02  | 21.50                     |
| GPRS 1 Tx slot     | 28.96                     | 29.05 | 29.01  | 30.50                     | 19.96                     | 20.05 | 20.01  | 21.50                     |
| GPRS 2 Tx slots    | 28.11                     | 28.19 | 28.19  | 29.50                     | 22.11                     | 22.19 | 22.19  | 23.50                     |
| GPRS 3 Tx slots    | 26.19                     | 26.23 | 26.23  | 27.50                     | 21.93                     | 21.97 | 21.97  | 23.24                     |
| GPRS 4 Tx slots    | 25.23                     | 25.29 | 25.26  | 26.50                     | 22.23                     | 22.29 | 22.26  | 23.50                     |

| Band            | WCDMA II Ant 1 ECI2 |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV Ant 1 ECI2 |        |        | Tune-up<br>Limit<br>(dBm) |       |
|-----------------|---------------------|-------|--------|---------------------------|---------------------|--------|--------|---------------------------|-------|
|                 | 9262                | 9400  | 9538   |                           | 1312                | 1413   | 1513   |                           |       |
| TX Channel      | 9262                | 9400  | 9538   |                           | 1312                | 1413   | 1513   |                           |       |
| Rx Channel      | 9662                | 9800  | 9938   |                           | 1637                | 1638   | 1738   |                           |       |
| Frequency (MHz) | 1852.4              | 1880  | 1907.6 |                           | 1712.4              | 1732.6 | 1752.6 |                           |       |
| 3GPP Rel 99     | RMC 12.2Kbps        | 22.58 | 22.68  | 22.66                     | 24.00               | 22.52  | 22.54  | 22.46                     | 24.00 |



### Band 2 Ant 1 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 18700           | 18800              | 19100            | 24                  | 0        |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1900             |                     |          |
| 20              | QPSK       | 1       | 0         | 22.23           | 22.30              | 22.26            | 24                  | 0        |
| 20              | QPSK       | 1       | 49        | 22.15           | 22.25              | 22.20            |                     |          |
| 20              | QPSK       | 1       | 99        | 22.22           | 22.06              | 22.10            |                     |          |
| 20              | QPSK       | 50      | 0         | 21.25           | 21.28              | 21.16            | 23                  | 1        |
| 20              | QPSK       | 50      | 24        | 21.21           | 21.21              | 21.16            |                     |          |
| 20              | QPSK       | 50      | 50        | 21.22           | 21.18              | 21.19            |                     |          |
| 20              | QPSK       | 100     | 0         | 21.11           | 21.15              | 21.14            |                     |          |

### Band 25 Ant 1 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 26140           | 26340              | 26590            | 24                  | 0        |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1905             |                     |          |
| 20              | QPSK       | 1       | 0         | 22.32           | 22.37              | 22.23            | 24                  | 0        |
| 20              | QPSK       | 1       | 49        | 22.18           | 22.25              | 22.16            |                     |          |
| 20              | QPSK       | 1       | 99        | 22.27           | 22.14              | 22.17            |                     |          |
| 20              | QPSK       | 50      | 0         | 21.27           | 21.38              | 21.24            | 23                  | 1        |
| 20              | QPSK       | 50      | 24        | 21.24           | 21.22              | 21.33            |                     |          |
| 20              | QPSK       | 50      | 50        | 21.23           | 21.18              | 21.14            |                     |          |
| 20              | QPSK       | 100     | 0         | 21.31           | 21.32              | 21.22            |                     |          |

### Band 4 Ant 1 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 20050           | 20175              | 20300            | 24                  | 0        |
| Frequency (MHz) |            |         |           | 1720            | 1732.5             | 1745             |                     |          |
| 20              | QPSK       | 1       | 0         | 22.18           | 22.37              | 22.36            | 24                  | 0        |
| 20              | QPSK       | 1       | 49        | 22.05           | 22.32              | 22.25            |                     |          |
| 20              | QPSK       | 1       | 99        | 22.21           | 22.23              | 22.19            |                     |          |
| 20              | QPSK       | 50      | 0         | 21.30           | 21.45              | 21.17            | 23                  | 1        |
| 20              | QPSK       | 50      | 24        | 21.08           | 21.31              | 21.31            |                     |          |
| 20              | QPSK       | 50      | 50        | 21.24           | 21.20              | 21.16            |                     |          |
| 20              | QPSK       | 100     | 0         | 21.07           | 21.38              | 21.16            |                     |          |

### Band 66 Ant 1 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 132072          | 132322             | 132572           | 24                  | 0        |
| Frequency (MHz) |            |         |           | 1720            | 1745               | 1770             |                     |          |
| 20              | QPSK       | 1       | 0         | 22.33           | 22.42              | 22.28            | 24                  | 0        |
| 20              | QPSK       | 1       | 49        | 22.28           | 22.41              | 22.29            |                     |          |
| 20              | QPSK       | 1       | 99        | 22.29           | 22.34              | 22.27            |                     |          |
| 20              | QPSK       | 50      | 0         | 21.28           | 21.42              | 21.33            | 23                  | 1        |
| 20              | QPSK       | 50      | 24        | 21.28           | 21.38              | 21.31            |                     |          |
| 20              | QPSK       | 50      | 50        | 21.30           | 21.30              | 21.21            |                     |          |
| 20              | QPSK       | 100     | 0         | 21.29           | 21.38              | 21.26            |                     |          |

### Band 7 Ant 1 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 20850           | 21100              | 21350            | 24                  | 0        |
| Frequency (MHz) |            |         |           | 2510            | 2535               | 2560             |                     |          |
| 20              | QPSK       | 1       | 0         | 22.29           | 22.31              | 22.21            | 24                  | 0        |
| 20              | QPSK       | 1       | 49        | 22.20           | 22.18              | 22.15            |                     |          |
| 20              | QPSK       | 1       | 99        | 22.20           | 22.09              | 22.14            |                     |          |
| 20              | QPSK       | 50      | 0         | 21.26           | 21.30              | 21.19            | 23                  | 1        |
| 20              | QPSK       | 50      | 24        | 21.23           | 21.17              | 21.13            |                     |          |
| 20              | QPSK       | 50      | 50        | 21.15           | 21.16              | 21.12            |                     |          |
| 20              | QPSK       | 100     | 0         | 21.25           | 21.28              | 21.22            |                     |          |

### Band 38 Ant 1 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         | 37850     | 38000                 | 38150                    |                        |                     |          |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   | 24                  | 0        |
| 20              | QPSK       | 1       | 0         | 22.38                 | 22.47                    | 22.32                  |                     |          |
| 20              | QPSK       | 1       | 49        | 22.43                 | 22.43                    | 22.41                  |                     |          |
| 20              | QPSK       | 1       | 99        | 22.32                 | 22.31                    | 22.31                  |                     |          |
| 20              | QPSK       | 50      | 0         | 21.34                 | 21.51                    | 21.30                  |                     |          |
| 20              | QPSK       | 50      | 24        | 21.47                 | 21.47                    | 21.31                  |                     |          |
| 20              | QPSK       | 50      | 50        | 21.37                 | 21.29                    | 21.36                  |                     |          |
| 20              | QPSK       | 100     | 0         | 21.42                 | 21.47                    | 21.27                  | 23                  | 1        |

### Band 41 Ant 1 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         | 39750     | 40185                 | 40620                        | 41055                    | 41490                         |                        |                     |          |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   | 24                  | 0        |
| 20              | QPSK       | 1       | 0         | 22.42                 | 22.47                        | 22.49                    | 22.40                         | 22.43                  |                     |          |
| 20              | QPSK       | 1       | 49        | 22.41                 | 22.51                        | 22.48                    | 22.43                         | 22.37                  |                     |          |
| 20              | QPSK       | 1       | 99        | 22.40                 | 22.49                        | 22.43                    | 22.40                         | 22.40                  |                     |          |
| 20              | QPSK       | 50      | 0         | 21.53                 | 21.42                        | 21.55                    | 21.43                         | 21.44                  |                     |          |
| 20              | QPSK       | 50      | 24        | 21.40                 | 21.51                        | 21.51                    | 21.48                         | 21.37                  |                     |          |
| 20              | QPSK       | 50      | 50        | 21.43                 | 21.51                        | 21.44                    | 21.37                         | 21.40                  |                     |          |
| 20              | QPSK       | 100     | 0         | 21.46                 | 21.43                        | 21.51                    | 21.40                         | 21.44                  | 23                  | 1        |



### Band 42 FCC Part27Q Ant 3 EC12

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 42190                 | 42590                    | 42990                  |                     |          |
| Frequency (MHz) |            |         |           | 3460                  | 3500                     | 3540                   |                     |          |
| 20              | QPSK       | 1       | 0         | 15.01                 | 15.02                    | 14.98                  |                     |          |
| 20              | QPSK       | 1       | 49        | 14.85                 | 14.83                    | 14.78                  | 16                  | 0        |
| 20              | QPSK       | 1       | 99        | 14.87                 | 14.79                    | 14.76                  |                     |          |
| 20              | QPSK       | 50      | 0         | 14.95                 | 14.98                    | 14.85                  |                     |          |
| 20              | QPSK       | 50      | 24        | 14.77                 | 14.91                    | 14.89                  | 16                  | 0        |
| 20              | QPSK       | 50      | 50        | 14.87                 | 14.86                    | 14.72                  |                     |          |
| 20              | QPSK       | 100     | 0         | 14.91                 | 14.95                    | 14.82                  |                     |          |





| GSM850 Ant 4 EC12 | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|-------------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
|                   | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |
| TX Channel        | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |
| Frequency (MHz)   | 824.2                     | 836.4 | 848.6 |                           | 824.2                     | 836.4 | 848.6 |                           |
| GSM 1 Tx slot     | 31.30                     | 31.29 | 31.26 | 32.50                     | 22.30                     | 22.29 | 22.26 | 23.50                     |
| GPRS 1 Tx slot    | 31.25                     | 31.21 | 31.17 | 32.50                     | 22.25                     | 22.21 | 22.17 | 23.50                     |
| GPRS 2 Tx slots   | 28.78                     | 28.81 | 28.69 | 29.50                     | 22.78                     | 22.81 | 22.69 | 23.50                     |
| GPRS 3 Tx slots   | 27.04                     | 27.12 | 27.06 | 27.70                     | 22.78                     | 22.86 | 22.80 | 23.44                     |
| GPRS 4 Tx slots   | 25.53                     | 25.57 | 25.50 | 26.50                     | 22.53                     | 22.57 | 22.50 | 23.50                     |

| Band                     | WCDMA V Ant 4 EC12 |       |       | Tune-up<br>Limit<br>(dBm) |
|--------------------------|--------------------|-------|-------|---------------------------|
|                          | 4132               | 4182  | 4233  |                           |
| TX Channel               | 4132               | 4182  | 4233  |                           |
| Rx Channel               | 4357               | 4407  | 4458  |                           |
| Frequency (MHz)          | 826.4              | 836.4 | 846.6 |                           |
| 3GPP Rel 99 RMC 12.2Kbps | 21.48              | 21.50 | 21.48 | 22.40                     |



### Band 2 Ant 4 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 18700           | 18800              | 19100            |                     |          |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1900             |                     |          |
| 20              | QPSK       | 1       | 0         | 16.65           | 16.67              | 16.60            | 17.7                | 0        |
| 20              | QPSK       | 1       | 49        | 16.51           | 16.54              | 16.53            |                     |          |
| 20              | QPSK       | 1       | 99        | 16.49           | 16.60              | 16.44            |                     |          |
| 20              | QPSK       | 50      | 0         | 16.57           | 16.66              | 16.63            | 17.7                | 0        |
| 20              | QPSK       | 50      | 24        | 16.52           | 16.68              | 16.50            |                     |          |
| 20              | QPSK       | 50      | 50        | 16.42           | 16.52              | 16.56            |                     |          |
| 20              | QPSK       | 100     | 0         | 16.62           | 16.63              | 16.57            |                     |          |

### Band 13 Ant 4 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 23230           |                    |                  |                     |          |
| Frequency (MHz) |            |         |           | 782             |                    |                  |                     |          |
| 10              | QPSK       | 1       | 0         |                 | 21.44              |                  | 22.6                | 0        |
| 10              | QPSK       | 1       | 25        |                 | 21.31              |                  |                     |          |
| 10              | QPSK       | 1       | 49        |                 | 21.40              |                  |                     |          |
| 10              | QPSK       | 25      | 0         |                 | 21.43              |                  | 22.6                | 0        |
| 10              | QPSK       | 25      | 12        |                 | 21.29              |                  |                     |          |
| 10              | QPSK       | 25      | 25        |                 | 21.39              |                  |                     |          |
| 10              | QPSK       | 50      | 0         |                 | 21.37              |                  |                     |          |

### Band 4 Ant 4 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 20050           | 20175              | 20300            |                     |          |
| Frequency (MHz) |            |         |           | 1720            | 1732.5             | 1745             |                     |          |
| 20              | QPSK       | 1       | 0         | 17.03           | 17.07              | 17.00            | 18.1                | 0        |
| 20              | QPSK       | 1       | 49        | 16.95           | 16.93              | 16.94            |                     |          |
| 20              | QPSK       | 1       | 99        | 16.95           | 16.97              | 16.87            |                     |          |
| 20              | QPSK       | 50      | 0         | 16.92           | 17.05              | 17.01            | 18.1                | 0        |
| 20              | QPSK       | 50      | 24        | 16.78           | 16.78              | 16.60            |                     |          |
| 20              | QPSK       | 50      | 50        | 16.72           | 16.74              | 16.73            |                     |          |
| 20              | QPSK       | 100     | 0         | 16.74           | 16.99              | 16.85            |                     |          |

### Band 17 Ant 4 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 23780           | 23790              | 23800            |                     |          |
| Frequency (MHz) |            |         |           | 709             | 710                | 711              |                     |          |
| 10              | QPSK       | 1       | 0         | 21.55           | 21.64              | 21.62            | 22.6                | 0        |
| 10              | QPSK       | 1       | 25        | 21.62           | 21.59              | 21.55            |                     |          |
| 10              | QPSK       | 1       | 49        | 21.59           | 21.48              | 21.60            |                     |          |
| 10              | QPSK       | 25      | 0         | 21.41           | 21.48              | 21.32            | 22.6                | 0        |
| 10              | QPSK       | 25      | 12        | 21.32           | 21.46              | 21.25            |                     |          |
| 10              | QPSK       | 25      | 25        | 21.27           | 21.28              | 21.41            |                     |          |
| 10              | QPSK       | 50      | 0         | 21.43           | 21.45              | 21.27            |                     |          |

### Band 5 Ant 4 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 20450           | 20525              | 20600            |                     |          |
| Frequency (MHz) |            |         |           | 829             | 836.5              | 844              |                     |          |
| 10              | QPSK       | 1       | 0         | 22.09           | 22.15              | 22.13            | 23                  | 0        |
| 10              | QPSK       | 1       | 25        | 22.06           | 22.04              | 22.01            |                     |          |
| 10              | QPSK       | 1       | 49        | 22.09           | 22.05              | 22.12            |                     |          |
| 10              | QPSK       | 25      | 0         | 21.16           | 21.25              | 21.14            | 22                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.17           | 21.15              | 21.16            |                     |          |
| 10              | QPSK       | 25      | 25        | 21.23           | 21.12              | 21.16            |                     |          |
| 10              | QPSK       | 50      | 0         | 21.14           | 21.21              | 21.14            |                     |          |

### Band 25 Ant 4 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 26140           | 26340              | 26590            |                     |          |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1905             |                     |          |
| 20              | QPSK       | 1       | 0         | 16.73           | 16.78              | 16.66            | 17.7                | 0        |
| 20              | QPSK       | 1       | 49        | 16.68           | 16.66              | 16.67            |                     |          |
| 20              | QPSK       | 1       | 99        | 16.62           | 16.73              | 16.72            |                     |          |
| 20              | QPSK       | 50      | 0         | 16.71           | 16.75              | 16.64            | 17.7                | 0        |
| 20              | QPSK       | 50      | 24        | 16.57           | 16.69              | 16.54            |                     |          |
| 20              | QPSK       | 50      | 50        | 16.66           | 16.58              | 16.53            |                     |          |
| 20              | QPSK       | 100     | 0         | 16.59           | 16.68              | 16.63            |                     |          |



| Band 7 Ant 4 ECI2 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 20850                 | 21100                    | 21350                  |                     |          |  |
| Frequency (MHz)   |            |         |           | 2510                  | 2535                     | 2560                   |                     |          |  |
| 20                | QPSK       | 1       | 0         | 18.01                 | 18.05                    | 18.02                  | 18.9                | 0        |  |
| 20                | QPSK       | 1       | 49        | 17.95                 | 18.01                    | 17.88                  |                     |          |  |
| 20                | QPSK       | 1       | 99        | 17.95                 | 18.00                    | 17.96                  |                     |          |  |
| 20                | QPSK       | 50      | 0         | 18.01                 | 18.04                    | 17.99                  | 18.9                | 0        |  |
| 20                | QPSK       | 50      | 24        | 17.88                 | 18.02                    | 17.90                  |                     |          |  |
| 20                | QPSK       | 50      | 50        | 17.85                 | 17.98                    | 17.87                  |                     |          |  |
| 20                | QPSK       | 100     | 0         | 18.00                 | 18.02                    | 17.98                  |                     |          |  |

| Band 26 Ant 4 ECI2 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 26765                 | 26865                    | 26965                  |                     |          |  |
| Frequency (MHz)    |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |          |  |
| 15                 | QPSK       | 1       | 0         | 22.13                 | 22.33                    | 22.19                  | 23                  | 0        |  |
| 15                 | QPSK       | 1       | 37        | 22.21                 | 22.20                    | 22.23                  |                     |          |  |
| 15                 | QPSK       | 1       | 74        | 22.27                 | 22.19                    | 22.13                  |                     |          |  |
| 15                 | QPSK       | 36      | 0         | 21.34                 | 21.37                    | 21.35                  | 22                  | 1        |  |
| 15                 | QPSK       | 36      | 20        | 21.23                 | 21.25                    | 21.27                  |                     |          |  |
| 15                 | QPSK       | 36      | 39        | 21.36                 | 21.26                    | 21.25                  |                     |          |  |
| 15                 | QPSK       | 75      | 0         | 21.27                 | 21.35                    | 21.32                  |                     |          |  |

| Band 12 Ant 4 ECI2 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 23060                 | 23095                    | 23130                  |                     |          |  |
| Frequency (MHz)    |            |         |           | 704                   | 707.5                    | 711                    |                     |          |  |
| 10                 | QPSK       | 1       | 0         | 21.71                 | 21.74                    | 21.68                  | 22.6                | 0        |  |
| 10                 | QPSK       | 1       | 25        | 21.66                 | 21.64                    | 21.61                  |                     |          |  |
| 10                 | QPSK       | 1       | 49        | 21.64                 | 21.67                    | 21.59                  |                     |          |  |
| 10                 | QPSK       | 25      | 0         | 21.64                 | 21.65                    | 21.61                  | 22.6                | 0        |  |
| 10                 | QPSK       | 25      | 12        | 21.38                 | 21.52                    | 21.38                  |                     |          |  |
| 10                 | QPSK       | 25      | 25        | 21.40                 | 21.47                    | 21.51                  |                     |          |  |
| 10                 | QPSK       | 50      | 0         | 21.42                 | 21.60                    | 21.48                  |                     |          |  |

| Band 66 Ant 4 ECI2 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 132072                | 132322                   | 132572                 |                     |          |  |
| Frequency (MHz)    |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |  |
| 20                 | QPSK       | 1       | 0         | 17.13                 | 17.17                    | 17.10                  | 18.1                | 0        |  |
| 20                 | QPSK       | 1       | 49        | 17.03                 | 17.11                    | 16.95                  |                     |          |  |
| 20                 | QPSK       | 1       | 99        | 17.10                 | 17.14                    | 17.01                  |                     |          |  |
| 20                 | QPSK       | 50      | 0         | 17.11                 | 17.15                    | 17.09                  | 18.1                | 0        |  |
| 20                 | QPSK       | 50      | 24        | 16.92                 | 16.95                    | 16.89                  |                     |          |  |
| 20                 | QPSK       | 50      | 50        | 16.76                 | 17.05                    | 16.89                  |                     |          |  |
| 20                 | QPSK       | 100     | 0         | 16.84                 | 17.11                    | 16.98                  |                     |          |  |



### Band 38 Ant 4 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |
| 20              | QPSK       | 1       | 0         | 18.52                 | 18.59                    | 18.54                  | 19.7                | 0        |
| 20              | QPSK       | 1       | 49        | 18.37                 | 18.38                    | 18.35                  |                     |          |
| 20              | QPSK       | 1       | 99        | 18.44                 | 18.44                    | 18.41                  |                     |          |
| 20              | QPSK       | 50      | 0         | 18.51                 | 18.55                    | 18.49                  | 19.7                | 0        |
| 20              | QPSK       | 50      | 24        | 18.46                 | 18.46                    | 18.24                  |                     |          |
| 20              | QPSK       | 50      | 50        | 18.53                 | 18.45                    | 18.42                  |                     |          |
| 20              | QPSK       | 100     | 0         | 18.39                 | 18.51                    | 18.44                  |                     |          |

### Band 41 Ant 4 ECI2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 39760                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |          |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20              | QPSK       | 1       | 0         | 18.54                 | 18.56                        | 18.63                    | 18.53                         | 18.54                  | 19.7                | 0        |
| 20              | QPSK       | 1       | 49        | 18.43                 | 18.48                        | 18.51                    | 18.49                         | 18.49                  |                     |          |
| 20              | QPSK       | 1       | 99        | 18.51                 | 18.50                        | 18.50                    | 18.52                         | 18.41                  |                     |          |
| 20              | QPSK       | 50      | 0         | 18.45                 | 18.57                        | 18.60                    | 18.47                         | 18.47                  | 19.7                | 0        |
| 20              | QPSK       | 50      | 24        | 18.48                 | 18.46                        | 18.50                    | 18.34                         | 18.44                  |                     |          |
| 20              | QPSK       | 50      | 50        | 18.48                 | 18.56                        | 18.50                    | 18.45                         | 18.46                  |                     |          |
| 20              | QPSK       | 100     | 0         | 18.48                 | 18.43                        | 18.59                    | 18.54                         | 18.38                  |                     |          |



**Reduced Power Mode for ECI 3**

| GSM850 Ant 0 ECI3 | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|-------------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
|                   | 123                       | 189   | 251   |                           | 123                       | 189   | 251   |                           |
| TX Channel        | 824.2                     | 836.4 | 848.8 |                           | 824.2                     | 836.4 | 848.8 |                           |
| Frequency (MHz)   |                           |       |       |                           |                           |       |       |                           |
| GSM 1 Tx slot     | 31.80                     | 31.95 | 31.86 | 33.50                     | 22.80                     | 22.95 | 22.86 | 24.50                     |
| GPRS 1 Tx slot    | 31.78                     | 31.89 | 31.85 | 33.50                     | 22.78                     | 22.89 | 22.85 | 24.50                     |
| GPRS 2 Tx slots   | 30.06                     | 30.10 | 29.99 | 31.10                     | 24.06                     | 24.10 | 23.99 | 25.10                     |
| GPRS 3 Tx slots   | 28.48                     | 28.51 | 28.56 | 29.30                     | 24.22                     | 24.25 | 24.30 | 25.04                     |
| GPRS 4 Tx slots   | 26.81                     | 26.85 | 26.79 | 28.10                     | 23.81                     | 23.85 | 23.79 | 25.10                     |

| Band            | WCDMA V Ant 0 ECI3 |       |       | Tune-up<br>Limit<br>(dBm) |       |
|-----------------|--------------------|-------|-------|---------------------------|-------|
|                 | 4132               | 4182  | 4233  |                           |       |
| TX Channel      | 4357               | 4407  | 4458  |                           |       |
| Rx Channel      | 826.4              | 836.4 | 846.6 |                           |       |
| Frequency (MHz) |                    |       |       |                           |       |
| 3GPP Rel 99     | RMC 12.2Kbps       | 22.57 | 22.58 | 22.51                     | 24.00 |



### Band 5 Ant 0 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 20450                 | 20525                    | 20600                  | 24                  | 0        |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    |                     |          |
| 10              | QPSK       | 1       | 0         | 22.34                 | 22.48                    | 22.17                  | 23                  | 1        |
| 10              | QPSK       | 1       | 25        | 22.18                 | 22.26                    | 22.23                  |                     |          |
| 10              | QPSK       | 1       | 49        | 22.41                 | 22.27                    | 22.10                  |                     |          |
| 10              | QPSK       | 25      | 0         | 21.36                 | 21.39                    | 21.31                  | 23                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.36                 | 21.21                    | 21.35                  |                     |          |
| 10              | QPSK       | 25      | 25        | 21.16                 | 21.22                    | 21.15                  |                     |          |
| 10              | QPSK       | 50      | 0         | 21.18                 | 21.27                    | 21.24                  |                     |          |

### Band 17 Ant 0 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 23780                 | 23790                    | 23800                  | 24                  | 0        |
| Frequency (MHz) |            |         |           | 709                   | 710                      | 711                    |                     |          |
| 10              | QPSK       | 1       | 0         | 22.23                 | 22.31                    | 22.23                  | 23                  | 1        |
| 10              | QPSK       | 1       | 25        | 22.11                 | 22.12                    | 22.19                  |                     |          |
| 10              | QPSK       | 1       | 49        | 22.13                 | 22.30                    | 22.09                  |                     |          |
| 10              | QPSK       | 25      | 0         | 21.18                 | 21.27                    | 21.18                  | 23                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.08                 | 21.09                    | 21.25                  |                     |          |
| 10              | QPSK       | 25      | 25        | 21.19                 | 21.13                    | 21.05                  |                     |          |
| 10              | QPSK       | 50      | 0         | 21.11                 | 21.25                    | 21.06                  |                     |          |

### Band 12 Ant 0 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 23060                 | 23095                    | 23130                  | 24                  | 0        |
| Frequency (MHz) |            |         |           | 704                   | 707.5                    | 711                    |                     |          |
| 10              | QPSK       | 1       | 0         | 22.24                 | 22.32                    | 22.31                  | 23                  | 1        |
| 10              | QPSK       | 1       | 25        | 22.19                 | 22.17                    | 22.22                  |                     |          |
| 10              | QPSK       | 1       | 49        | 22.16                 | 22.29                    | 22.10                  |                     |          |
| 10              | QPSK       | 25      | 0         | 21.29                 | 21.35                    | 21.27                  | 23                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.19                 | 21.16                    | 21.19                  |                     |          |
| 10              | QPSK       | 25      | 25        | 21.12                 | 21.28                    | 21.13                  |                     |          |
| 10              | QPSK       | 50      | 0         | 21.32                 | 21.33                    | 21.16                  |                     |          |

### Band 26 Ant 0 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 26765                 | 26855                    | 26965                  | 24                  | 0        |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |          |
| 15              | QPSK       | 1       | 0         | 22.50                 | 22.57                    | 22.27                  | 23                  | 1        |
| 15              | QPSK       | 1       | 37        | 22.24                 | 22.42                    | 22.29                  |                     |          |
| 15              | QPSK       | 1       | 74        | 22.40                 | 22.35                    | 22.35                  |                     |          |
| 15              | QPSK       | 36      | 0         | 21.43                 | 21.50                    | 21.44                  | 23                  | 1        |
| 15              | QPSK       | 36      | 20        | 21.39                 | 21.45                    | 21.46                  |                     |          |
| 15              | QPSK       | 36      | 39        | 21.37                 | 21.27                    | 21.35                  |                     |          |
| 15              | QPSK       | 75      | 0         | 21.41                 | 21.46                    | 21.42                  |                     |          |

### Band 13 Ant 0 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 23230                 |                          |                        | 24                  | 0        |
| Frequency (MHz) |            |         |           | 782                   |                          |                        |                     |          |
| 10              | QPSK       | 1       | 0         |                       | 22.57                    |                        | 23                  | 1        |
| 10              | QPSK       | 1       | 25        |                       | 22.36                    |                        |                     |          |
| 10              | QPSK       | 1       | 49        |                       | 22.43                    |                        |                     |          |
| 10              | QPSK       | 25      | 0         |                       | 21.53                    |                        | 23                  | 1        |
| 10              | QPSK       | 25      | 12        |                       | 21.22                    |                        |                     |          |
| 10              | QPSK       | 25      | 25        |                       | 21.29                    |                        |                     |          |
| 10              | QPSK       | 50      | 0         |                       | 21.48                    |                        |                     |          |



| GSM1900 Ant 1 ECIS | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
|--------------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
|                    | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| TX Channel         | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz)    | 1850.2                    | 1860  | 1907.8 |                           | 1850.2                    | 1860  | 1907.8 |                           |
| GSM 1 Tx slot      | 28.89                     | 29.03 | 29.02  | 30.50                     | 19.99                     | 20.08 | 20.02  | 21.50                     |
| GPRS 1 Tx slot     | 28.96                     | 29.05 | 29.01  | 30.50                     | 19.96                     | 20.05 | 20.01  | 21.50                     |
| GPRS 2 Tx slots    | 28.11                     | 28.19 | 28.19  | 29.50                     | 22.11                     | 22.19 | 22.19  | 23.50                     |
| GPRS 3 Tx slots    | 26.19                     | 26.23 | 26.23  | 27.50                     | 21.93                     | 21.97 | 21.97  | 23.24                     |
| GPRS 4 Tx slots    | 25.23                     | 25.29 | 25.26  | 26.50                     | 22.23                     | 22.29 | 22.26  | 23.50                     |

| Band            | WCDMA II Ant 1 ECIS |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV Ant 1 ECIS |        |        | Tune-up<br>Limit<br>(dBm) |       |
|-----------------|---------------------|-------|--------|---------------------------|---------------------|--------|--------|---------------------------|-------|
|                 | 9262                | 9400  | 9538   |                           | 1312                | 1413   | 1513   |                           |       |
| TX Channel      | 9262                | 9400  | 9538   |                           | 1312                | 1413   | 1513   |                           |       |
| Rx Channel      | 9662                | 9800  | 9938   |                           | 1537                | 1638   | 1738   |                           |       |
| Frequency (MHz) | 1852.4              | 1880  | 1907.6 |                           | 1712.4              | 1732.6 | 1752.6 |                           |       |
| 3GPP Rel 99     | RMC 12.2Kbps        | 20.42 | 20.53  | 20.48                     | 21.60               | 20.33  | 20.46  | 20.30                     | 21.30 |



### Band 2 Ant 1 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 18700           | 18800              | 19100            | 21.8                | 0        |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1900             |                     |          |
| 20              | QPSK       | 1       | 0         | 20.65           | 20.71              | 20.63            |                     |          |
| 20              | QPSK       | 1       | 49        | 20.62           | 20.66              | 20.58            | 21.8                | 0        |
| 20              | QPSK       | 1       | 99        | 20.63           | 20.49              | 20.52            |                     |          |
| 20              | QPSK       | 50      | 0         | 20.67           | 20.69              | 20.66            |                     |          |
| 20              | QPSK       | 50      | 24        | 20.53           | 20.65              | 20.57            | 21.8                | 0        |
| 20              | QPSK       | 50      | 50        | 20.67           | 20.63              | 20.52            |                     |          |
| 20              | QPSK       | 100     | 0         | 20.63           | 20.68              | 20.57            |                     |          |

### Band 25 Ant 1 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 26140           | 26340              | 26590            | 21.8                | 0        |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1905             |                     |          |
| 20              | QPSK       | 1       | 0         | 20.79           | 20.83              | 20.81            |                     |          |
| 20              | QPSK       | 1       | 49        | 20.60           | 20.73              | 20.64            | 21.8                | 0        |
| 20              | QPSK       | 1       | 99        | 20.76           | 20.60              | 20.60            |                     |          |
| 20              | QPSK       | 50      | 0         | 20.74           | 20.81              | 20.78            |                     |          |
| 20              | QPSK       | 50      | 24        | 20.69           | 20.66              | 20.74            | 21.8                | 0        |
| 20              | QPSK       | 50      | 50        | 20.73           | 20.65              | 20.52            |                     |          |
| 20              | QPSK       | 100     | 0         | 20.76           | 20.78              | 20.63            |                     |          |

### Band 4 Ant 1 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 20050           | 20175              | 20300            | 22.2                | 0        |
| Frequency (MHz) |            |         |           | 1720            | 1732.5             | 1745             |                     |          |
| 20              | QPSK       | 1       | 0         | 21.22           | 21.42              | 21.40            |                     |          |
| 20              | QPSK       | 1       | 49        | 21.11           | 21.36              | 21.34            | 22.2                | 0        |
| 20              | QPSK       | 1       | 99        | 21.12           | 21.31              | 21.19            |                     |          |
| 20              | QPSK       | 50      | 0         | 21.23           | 21.35              | 21.24            |                     |          |
| 20              | QPSK       | 50      | 24        | 21.18           | 21.30              | 21.31            | 22.2                | 0        |
| 20              | QPSK       | 50      | 50        | 21.32           | 21.31              | 21.23            |                     |          |
| 20              | QPSK       | 100     | 0         | 21.21           | 21.31              | 21.21            |                     |          |

### Band 66 Ant 1 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 132072          | 132322             | 132572           | 22.2                | 0        |
| Frequency (MHz) |            |         |           | 1720            | 1745               | 1770             |                     |          |
| 20              | QPSK       | 1       | 0         | 21.45           | 21.52              | 21.47            |                     |          |
| 20              | QPSK       | 1       | 49        | 21.36           | 21.50              | 21.44            | 22.2                | 0        |
| 20              | QPSK       | 1       | 99        | 21.45           | 21.51              | 21.43            |                     |          |
| 20              | QPSK       | 50      | 0         | 21.32           | 21.48              | 21.46            |                     |          |
| 20              | QPSK       | 50      | 24        | 21.29           | 21.40              | 21.35            | 22.2                | 0        |
| 20              | QPSK       | 50      | 50        | 21.31           | 21.29              | 21.24            |                     |          |
| 20              | QPSK       | 100     | 0         | 21.37           | 21.43              | 21.41            |                     |          |

### Band 7 Ant 1 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 20850           | 21100              | 21350            | 21.6                | 0        |
| Frequency (MHz) |            |         |           | 2510            | 2535               | 2560             |                     |          |
| 20              | QPSK       | 1       | 0         | 20.74           | 20.76              | 20.68            |                     |          |
| 20              | QPSK       | 1       | 49        | 20.57           | 20.56              | 20.46            | 21.6                | 0        |
| 20              | QPSK       | 1       | 99        | 20.63           | 20.48              | 20.48            |                     |          |
| 20              | QPSK       | 50      | 0         | 20.71           | 20.75              | 20.68            |                     |          |
| 20              | QPSK       | 50      | 24        | 20.57           | 20.63              | 20.50            | 21.6                | 0        |
| 20              | QPSK       | 50      | 50        | 20.61           | 20.50              | 20.56            |                     |          |
| 20              | QPSK       | 100     | 0         | 20.64           | 20.71              | 20.63            |                     |          |





| Band 38 Ant 1 ECI3 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         | 37850     | 38000                 | 38150                    |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |  |
| 20                 | QPSK       | 1       | 0         | 21.46                 | 21.56                    | 21.53                  | 22.8                | 0        |  |
| 20                 | QPSK       | 1       | 49        | 21.35                 | 21.49                    | 21.38                  |                     |          |  |
| 20                 | QPSK       | 1       | 99        | 21.32                 | 21.28                    | 21.32                  |                     |          |  |
| 20                 | QPSK       | 50      | 0         | 21.46                 | 21.52                    | 21.48                  | 22.8                | 0        |  |
| 20                 | QPSK       | 50      | 24        | 21.41                 | 21.38                    | 21.40                  |                     |          |  |
| 20                 | QPSK       | 50      | 50        | 21.41                 | 21.33                    | 21.38                  |                     |          |  |
| 20                 | QPSK       | 100     | 0         | 21.43                 | 21.48                    | 21.39                  |                     |          |  |

| Band 41 Ant 1 ECI3 |            |         |           |                       |                              |                          |                               |                        |                     |          |
|--------------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel            |            |         | 39750     | 40185                 | 40620                        | 41055                    | 41490                         |                        |                     |          |
| Frequency (MHz)    |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20                 | QPSK       | 1       | 0         | 21.52                 | 21.53                        | 21.58                    | 21.52                         | 21.49                  | 22.8                | 0        |
| 20                 | QPSK       | 1       | 49        | 21.47                 | 21.45                        | 21.47                    | 21.41                         | 21.43                  |                     |          |
| 20                 | QPSK       | 1       | 99        | 21.46                 | 21.44                        | 21.38                    | 21.40                         | 21.45                  |                     |          |
| 20                 | QPSK       | 50      | 0         | 21.49                 | 21.48                        | 21.55                    | 21.52                         | 21.53                  | 22.8                | 0        |
| 20                 | QPSK       | 50      | 24        | 21.43                 | 21.42                        | 21.39                    | 21.42                         | 21.48                  |                     |          |
| 20                 | QPSK       | 50      | 50        | 21.42                 | 21.50                        | 21.46                    | 21.37                         | 21.49                  |                     |          |
| 20                 | QPSK       | 100     | 0         | 21.38                 | 21.47                        | 21.52                    | 21.45                         | 21.45                  |                     |          |



### Band 42 FCC Part27Q Ant 3 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 42190                 | 42590                    | 42990                  |                     |          |
| Frequency (MHz) |            |         |           | 3460                  | 3500                     | 3540                   |                     |          |
| 20              | QPSK       | 1       | 0         | 18.36                 | 18.39                    | 18.31                  |                     |          |
| 20              | QPSK       | 1       | 49        | 18.26                 | 18.36                    | 18.29                  | 19.6                | 0        |
| 20              | QPSK       | 1       | 99        | 18.23                 | 18.25                    | 18.15                  |                     |          |
| 20              | QPSK       | 50      | 0         | 18.36                 | 18.37                    | 18.34                  |                     |          |
| 20              | QPSK       | 50      | 24        | 18.23                 | 18.31                    | 18.20                  | 19.6                | 0        |
| 20              | QPSK       | 50      | 50        | 18.32                 | 18.23                    | 18.17                  |                     |          |
| 20              | QPSK       | 100     | 0         | 18.29                 | 18.32                    | 18.26                  |                     |          |



| GSM850 Ant 4 EC13 | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|-------------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
|                   | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |
| TX Channel        | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |
| Frequency (MHz)   | 824.2                     | 836.4 | 848.6 |                           | 824.2                     | 836.4 | 848.6 |                           |
| GSM 1 Tx slot     | 31.19                     | 31.27 | 31.17 | 32.50                     | 22.19                     | 22.27 | 22.17 | 23.50                     |
| GPRS 1 Tx slot    | 31.18                     | 31.25 | 31.16 | 32.50                     | 22.18                     | 22.25 | 22.16 | 23.50                     |
| GPRS 2 Tx slots   | 30.28                     | 30.35 | 30.28 | 31.00                     | 24.28                     | 24.35 | 24.28 | 25.00                     |
| GPRS 3 Tx slots   | 28.39                     | 28.46 | 28.40 | 29.00                     | 24.13                     | 24.20 | 24.14 | 24.74                     |
| GPRS 4 Tx slots   | 27.14                     | 27.17 | 27.13 | 28.00                     | 24.14                     | 24.17 | 24.13 | 25.00                     |

| Band            | WCDMA V Ant 4 EC13 |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|--------------------|-------|-------|---------------------------|
|                 | 4132               | 4182  | 4233  |                           |
| TX Channel      | 4132               | 4182  | 4233  |                           |
| Rx Channel      | 4357               | 4407  | 4458  |                           |
| Frequency (MHz) | 826.4              | 836.4 | 846.6 |                           |
| 3GPP Rel 99     | RMC 12.2Kbps       | 22.27 | 22.31 | 22.24                     |
|                 |                    |       |       | 23.00                     |



### Band 2 Ant 4 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 18700           | 18800              | 19100            | 17.7                | 0        |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1900             |                     |          |
| 20              | QPSK       | 1       | 0         | 16.65           | 16.67              | 16.60            |                     |          |
| 20              | QPSK       | 1       | 49        | 16.51           | 16.54              | 16.53            | 17.7                | 0        |
| 20              | QPSK       | 1       | 99        | 16.49           | 16.60              | 16.44            |                     |          |
| 20              | QPSK       | 50      | 0         | 16.57           | 16.66              | 16.63            |                     |          |
| 20              | QPSK       | 50      | 24        | 16.52           | 16.68              | 16.50            | 17.7                | 0        |
| 20              | QPSK       | 50      | 50        | 16.42           | 16.52              | 16.56            |                     |          |
| 20              | QPSK       | 100     | 0         | 16.62           | 16.63              | 16.57            |                     |          |

### Band 13 Ant 4 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 23230           |                    |                  | 24                  | 0        |
| Frequency (MHz) |            |         |           | 782             |                    |                  |                     |          |
| 10              | QPSK       | 1       | 0         |                 | 22.43              |                  | 24                  | 0        |
| 10              | QPSK       | 1       | 25        |                 | 22.38              |                  |                     |          |
| 10              | QPSK       | 1       | 49        |                 | 22.37              |                  |                     |          |
| 10              | QPSK       | 25      | 0         |                 | 21.40              |                  | 23                  | 1        |
| 10              | QPSK       | 25      | 12        |                 | 21.37              |                  |                     |          |
| 10              | QPSK       | 25      | 25        |                 | 21.39              |                  |                     |          |
| 10              | QPSK       | 50      | 0         |                 | 21.36              |                  |                     |          |

### Band 4 Ant 4 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 20050           | 20175              | 20300            | 16.7                | 0        |
| Frequency (MHz) |            |         |           | 1720            | 1732.5             | 1745             |                     |          |
| 20              | QPSK       | 1       | 0         | 15.56           | 15.60              | 15.53            |                     |          |
| 20              | QPSK       | 1       | 49        | 15.48           | 15.57              | 15.53            | 16.7                | 0        |
| 20              | QPSK       | 1       | 99        | 15.59           | 15.53              | 15.56            |                     |          |
| 20              | QPSK       | 50      | 0         | 15.44           | 15.58              | 15.53            |                     |          |
| 20              | QPSK       | 50      | 24        | 15.53           | 15.55              | 15.35            | 16.7                | 0        |
| 20              | QPSK       | 50      | 50        | 15.80           | 15.57              | 15.37            |                     |          |
| 20              | QPSK       | 100     | 0         | 15.44           | 15.55              | 15.46            |                     |          |

### Band 17 Ant 4 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 23780           | 23790              | 23800            | 24                  | 0        |
| Frequency (MHz) |            |         |           | 709             | 710                | 711              |                     |          |
| 10              | QPSK       | 1       | 0         | 22.33           | 22.48              | 22.44            | 24                  | 0        |
| 10              | QPSK       | 1       | 25        | 22.37           | 22.42              | 22.37            |                     |          |
| 10              | QPSK       | 1       | 49        | 22.45           | 22.36              | 22.46            |                     |          |
| 10              | QPSK       | 25      | 0         | 21.47           | 21.50              | 21.40            | 23                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.27           | 21.38              | 21.31            |                     |          |
| 10              | QPSK       | 25      | 25        | 21.27           | 21.34              | 21.35            |                     |          |
| 10              | QPSK       | 50      | 0         | 21.37           | 21.48              | 21.25            |                     |          |

### Band 5 Ant 4 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 20450           | 20525              | 20600            | 23                  | 0        |
| Frequency (MHz) |            |         |           | 829             | 836.5              | 844              |                     |          |
| 10              | QPSK       | 1       | 0         | 22.09           | 22.15              | 22.13            |                     |          |
| 10              | QPSK       | 1       | 25        | 22.06           | 22.04              | 22.01            | 22                  | 1        |
| 10              | QPSK       | 1       | 49        | 22.09           | 22.05              | 22.12            |                     |          |
| 10              | QPSK       | 25      | 0         | 21.16           | 21.25              | 21.14            |                     |          |
| 10              | QPSK       | 25      | 12        | 21.17           | 21.15              | 21.16            | 17.7                | 0        |
| 10              | QPSK       | 25      | 25        | 21.23           | 21.12              | 21.16            |                     |          |
| 10              | QPSK       | 50      | 0         | 21.14           | 21.21              | 21.14            |                     |          |

### Band 25 Ant 4 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 26140           | 26340              | 26590            | 17.7                | 0        |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1905             |                     |          |
| 20              | QPSK       | 1       | 0         | 16.73           | 16.78              | 16.66            | 17.7                | 0        |
| 20              | QPSK       | 1       | 49        | 16.68           | 16.66              | 16.67            |                     |          |
| 20              | QPSK       | 1       | 99        | 16.62           | 16.73              | 16.72            |                     |          |
| 20              | QPSK       | 50      | 0         | 16.71           | 16.75              | 16.64            | 17.7                | 0        |
| 20              | QPSK       | 50      | 24        | 16.57           | 16.69              | 16.54            |                     |          |
| 20              | QPSK       | 50      | 50        | 16.66           | 16.58              | 16.53            |                     |          |
| 20              | QPSK       | 100     | 0         | 16.59           | 16.68              | 16.63            |                     |          |



| Band 7 Ant 4 ECI3 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 20850                 | 21100                    | 21350                  |                     |          |  |
| Frequency (MHz)   |            |         |           | 2510                  | 2535                     | 2560                   |                     |          |  |
| 20                | QPSK       | 1       | 0         | 17.06                 | 17.17                    | 17.08                  | 18.1                | 0        |  |
| 20                | QPSK       | 1       | 49        | 16.92                 | 17.03                    | 16.97                  |                     |          |  |
| 20                | QPSK       | 1       | 99        | 16.97                 | 17.04                    | 16.99                  |                     |          |  |
| 20                | QPSK       | 50      | 0         | 17.05                 | 17.11                    | 17.08                  | 18.1                | 0        |  |
| 20                | QPSK       | 50      | 24        | 17.04                 | 17.09                    | 16.79                  |                     |          |  |
| 20                | QPSK       | 50      | 50        | 16.94                 | 17.03                    | 16.86                  |                     |          |  |
| 20                | QPSK       | 100     | 0         | 16.99                 | 17.06                    | 17.01                  |                     |          |  |

| Band 26 Ant 4 ECI3 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 26765                 | 26865                    | 26965                  |                     |          |  |
| Frequency (MHz)    |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |          |  |
| 15                 | QPSK       | 1       | 0         | 22.13                 | 22.33                    | 22.19                  | 23                  | 0        |  |
| 15                 | QPSK       | 1       | 37        | 22.21                 | 22.20                    | 22.23                  |                     |          |  |
| 15                 | QPSK       | 1       | 74        | 22.27                 | 22.19                    | 22.13                  |                     |          |  |
| 15                 | QPSK       | 36      | 0         | 21.34                 | 21.37                    | 21.35                  | 22                  | 1        |  |
| 15                 | QPSK       | 36      | 20        | 21.23                 | 21.25                    | 21.27                  |                     |          |  |
| 15                 | QPSK       | 36      | 39        | 21.36                 | 21.26                    | 21.25                  |                     |          |  |
| 15                 | QPSK       | 75      | 0         | 21.27                 | 21.35                    | 21.32                  |                     |          |  |

| Band 12 Ant 4 ECI3 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 23060                 | 23095                    | 23130                  |                     |          |  |
| Frequency (MHz)    |            |         |           | 704                   | 707.5                    | 711                    |                     |          |  |
| 10                 | QPSK       | 1       | 0         | 22.44                 | 22.48                    | 22.45                  | 24                  | 0        |  |
| 10                 | QPSK       | 1       | 25        | 22.39                 | 22.45                    | 22.45                  |                     |          |  |
| 10                 | QPSK       | 1       | 49        | 22.43                 | 22.46                    | 22.40                  |                     |          |  |
| 10                 | QPSK       | 25      | 0         | 21.47                 | 21.51                    | 21.48                  | 23                  | 1        |  |
| 10                 | QPSK       | 25      | 12        | 21.34                 | 21.43                    | 21.43                  |                     |          |  |
| 10                 | QPSK       | 25      | 25        | 21.36                 | 21.45                    | 21.48                  |                     |          |  |
| 10                 | QPSK       | 50      | 0         | 21.43                 | 21.50                    | 21.47                  |                     |          |  |

| Band 66 Ant 4 ECI3 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 132072                | 132322                   | 132572                 |                     |          |  |
| Frequency (MHz)    |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |  |
| 20                 | QPSK       | 1       | 0         | 15.65                 | 15.70                    | 15.67                  | 16.7                | 0        |  |
| 20                 | QPSK       | 1       | 49        | 15.55                 | 15.56                    | 15.55                  |                     |          |  |
| 20                 | QPSK       | 1       | 99        | 15.60                 | 15.57                    | 15.54                  |                     |          |  |
| 20                 | QPSK       | 50      | 0         | 15.64                 | 15.67                    | 15.61                  | 16.7                | 0        |  |
| 20                 | QPSK       | 50      | 24        | 15.52                 | 15.63                    | 15.52                  |                     |          |  |
| 20                 | QPSK       | 50      | 50        | 15.62                 | 15.60                    | 15.54                  |                     |          |  |
| 20                 | QPSK       | 100     | 0         | 15.46                 | 15.63                    | 15.58                  |                     |          |  |



### Band 38 Ant 4 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |
| 20              | QPSK       | 1       | 0         | 18.17                 | 18.20                    | 18.14                  | 19.3                | 0        |
| 20              | QPSK       | 1       | 49        | 17.95                 | 18.03                    | 18.00                  |                     |          |
| 20              | QPSK       | 1       | 99        | 18.08                 | 17.96                    | 18.05                  |                     |          |
| 20              | QPSK       | 50      | 0         | 18.14                 | 18.16                    | 18.13                  | 19.3                | 0        |
| 20              | QPSK       | 50      | 24        | 18.11                 | 18.05                    | 18.03                  |                     |          |
| 20              | QPSK       | 50      | 50        | 17.99                 | 18.08                    | 17.95                  |                     |          |
| 20              | QPSK       | 100     | 0         | 18.07                 | 18.11                    | 17.96                  |                     |          |

### Band 41 Ant 4 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |          |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20              | QPSK       | 1       | 0         | 18.20                 | 18.22                        | 18.24                    | 18.18                         | 18.17                  | 19.3                | 0        |
| 20              | QPSK       | 1       | 49        | 18.15                 | 18.09                        | 18.12                    | 18.01                         | 18.13                  |                     |          |
| 20              | QPSK       | 1       | 99        | 18.02                 | 18.16                        | 18.11                    | 18.14                         | 18.08                  |                     |          |
| 20              | QPSK       | 50      | 0         | 18.16                 | 18.19                        | 18.22                    | 18.20                         | 18.18                  | 19.3                | 0        |
| 20              | QPSK       | 50      | 24        | 18.17                 | 18.21                        | 18.17                    | 18.05                         | 18.14                  |                     |          |
| 20              | QPSK       | 50      | 50        | 18.12                 | 18.10                        | 18.13                    | 18.01                         | 18.13                  |                     |          |
| 20              | QPSK       | 100     | 0         | 18.14                 | 18.14                        | 18.16                    | 18.04                         | 18.04                  |                     |          |



**Reduced Power Mode for ECI 6**

| GSM850 Ant 0 ECIB | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|-------------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
|                   | 123                       | 169   | 251   |                           | 123                       | 169   | 251   |                           |
| TX Channel        | 824.2                     | 836.4 | 848.8 | 33.50                     | 824.2                     | 836.4 | 848.8 | 24.50                     |
| Frequency (MHz)   | 31.72                     | 31.95 | 31.90 | 33.50                     | 22.72                     | 22.95 | 22.90 | 24.50                     |
| GSM 1 Tx slot     | 31.70                     | 31.93 | 31.88 | 33.50                     | 22.70                     | 22.93 | 22.88 | 24.50                     |
| GPRS 2 Tx slots   | 30.87                     | 30.95 | 30.91 | 32.00                     | 24.87                     | 24.95 | 24.91 | 26.00                     |
| GPRS 3 Tx slots   | 28.94                     | 29.13 | 29.09 | 30.00                     | 24.68                     | 24.87 | 24.83 | 25.74                     |
| GPRS 4 Tx slots   | 27.86                     | 27.88 | 27.84 | 29.00                     | 24.86                     | 24.88 | 24.84 | 26.00                     |

| Band            | WCDMA V Ant 0 ECI6 |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|--------------------|-------|-------|---------------------------|
|                 | 4132               | 4182  | 4233  |                           |
| TX Channel      | 4357               | 4407  | 4458  | 24.00                     |
| Rx Channel      | 826.4              | 836.4 | 846.6 |                           |
| Frequency (MHz) |                    |       |       |                           |
| SGPP Rel 99     | RMC 12.2Kbps       | 22.57 | 22.58 | 22.51                     |



### Band 5 Ant 0 ECI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 20450                 | 20525                    | 20600                  | 24                  | 0        |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    |                     |          |
| 10              | QPSK       | 1       | 0         | 22.34                 | 22.48                    | 22.17                  | 23                  | 1        |
| 10              | QPSK       | 1       | 25        | 22.18                 | 22.26                    | 22.23                  |                     |          |
| 10              | QPSK       | 1       | 49        | 22.41                 | 22.27                    | 22.10                  |                     |          |
| 10              | QPSK       | 25      | 0         | 21.36                 | 21.39                    | 21.31                  | 23                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.36                 | 21.21                    | 21.35                  |                     |          |
| 10              | QPSK       | 25      | 25        | 21.16                 | 21.22                    | 21.15                  |                     |          |
| 10              | QPSK       | 50      | 0         | 21.18                 | 21.27                    | 21.24                  |                     |          |

### Band 17 Ant 0 ECI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 23780                 | 23790                    | 23800                  | 24                  | 0        |
| Frequency (MHz) |            |         |           | 709                   | 710                      | 711                    |                     |          |
| 10              | QPSK       | 1       | 0         | 22.23                 | 22.31                    | 22.23                  | 23                  | 1        |
| 10              | QPSK       | 1       | 25        | 22.11                 | 22.12                    | 22.19                  |                     |          |
| 10              | QPSK       | 1       | 49        | 22.13                 | 22.30                    | 22.09                  |                     |          |
| 10              | QPSK       | 25      | 0         | 21.18                 | 21.27                    | 21.18                  | 23                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.08                 | 21.09                    | 21.25                  |                     |          |
| 10              | QPSK       | 25      | 25        | 21.19                 | 21.13                    | 21.05                  |                     |          |
| 10              | QPSK       | 50      | 0         | 21.11                 | 21.25                    | 21.06                  |                     |          |

### Band 12 Ant 0 ECI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 23060                 | 23095                    | 23130                  | 24                  | 0        |
| Frequency (MHz) |            |         |           | 704                   | 707.5                    | 711                    |                     |          |
| 10              | QPSK       | 1       | 0         | 22.24                 | 22.32                    | 22.31                  | 23                  | 1        |
| 10              | QPSK       | 1       | 25        | 22.19                 | 22.17                    | 22.22                  |                     |          |
| 10              | QPSK       | 1       | 49        | 22.16                 | 22.29                    | 22.10                  |                     |          |
| 10              | QPSK       | 25      | 0         | 21.29                 | 21.35                    | 21.27                  | 23                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.19                 | 21.16                    | 21.19                  |                     |          |
| 10              | QPSK       | 25      | 25        | 21.12                 | 21.28                    | 21.13                  |                     |          |
| 10              | QPSK       | 50      | 0         | 21.32                 | 21.33                    | 21.16                  |                     |          |

### Band 26 Ant 0 ECI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 26765                 | 26855                    | 26965                  | 24                  | 0        |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |          |
| 15              | QPSK       | 1       | 0         | 22.50                 | 22.57                    | 22.27                  | 23                  | 1        |
| 15              | QPSK       | 1       | 37        | 22.24                 | 22.42                    | 22.29                  |                     |          |
| 15              | QPSK       | 1       | 74        | 22.40                 | 22.35                    | 22.35                  |                     |          |
| 15              | QPSK       | 36      | 0         | 21.43                 | 21.50                    | 21.44                  | 23                  | 1        |
| 15              | QPSK       | 36      | 20        | 21.39                 | 21.45                    | 21.46                  |                     |          |
| 15              | QPSK       | 36      | 39        | 21.37                 | 21.27                    | 21.35                  |                     |          |
| 15              | QPSK       | 75      | 0         | 21.41                 | 21.46                    | 21.42                  |                     |          |

### Band 13 Ant 0 ECI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 23230                 |                          |                        | 24                  | 0        |
| Frequency (MHz) |            |         |           | 782                   |                          |                        |                     |          |
| 10              | QPSK       | 1       | 0         |                       | 22.57                    |                        | 23                  | 1        |
| 10              | QPSK       | 1       | 25        |                       | 22.36                    |                        |                     |          |
| 10              | QPSK       | 1       | 49        |                       | 22.43                    |                        |                     |          |
| 10              | QPSK       | 25      | 0         |                       | 21.53                    |                        | 23                  | 1        |
| 10              | QPSK       | 25      | 12        |                       | 21.22                    |                        |                     |          |
| 10              | QPSK       | 25      | 25        |                       | 21.29                    |                        |                     |          |
| 10              | QPSK       | 50      | 0         |                       | 21.48                    |                        |                     |          |





| GSM1900 Ant 1 EC16 | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
|--------------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
|                    | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| TX Channel         | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz)    | 1850.2                    | 1860  | 1907.8 |                           | 1850.2                    | 1860  | 1907.8 |                           |
| GSM 1 Tx slot      | 28.89                     | 29.03 | 29.02  | 30.50                     | 19.99                     | 20.08 | 20.02  | 21.50                     |
| GPRS 1 Tx slot     | 28.96                     | 29.05 | 29.01  | 30.50                     | 19.96                     | 20.05 | 20.01  | 21.50                     |
| GPRS 2 Tx slots    | 28.11                     | 28.19 | 28.19  | 29.50                     | 22.11                     | 22.19 | 22.19  | 23.50                     |
| GPRS 3 Tx slots    | 26.19                     | 26.23 | 26.23  | 27.50                     | 21.93                     | 21.97 | 21.97  | 23.24                     |
| GPRS 4 Tx slots    | 25.23                     | 25.29 | 25.26  | 26.50                     | 22.23                     | 22.29 | 22.26  | 23.50                     |

| Band                     | WCDMA II Ant 1 EC16 |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV Ant 1 EC16 |        |        | Tune-up<br>Limit<br>(dBm) |
|--------------------------|---------------------|-------|--------|---------------------------|---------------------|--------|--------|---------------------------|
|                          | 9262                | 9400  | 9538   |                           | 1312                | 1413   | 1513   |                           |
| TX Channel               | 9262                | 9400  | 9538   |                           | 1312                | 1413   | 1513   |                           |
| Rx Channel               | 9662                | 9800  | 9938   |                           | 1537                | 1638   | 1738   |                           |
| Frequency (MHz)          | 1852.4              | 1880  | 1907.6 |                           | 1712.4              | 1732.6 | 1752.6 |                           |
| 3GPP Rel 99 RMC 12.2Kbps | 21.50               | 21.53 | 21.52  | 22.70                     | 21.39               | 21.44  | 21.42  | 22.30                     |



### Band 2 Ant 1 ECI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 18700           | 18800              | 19100            | 22.6                | 0        |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1900             |                     |          |
| 20              | QPSK       | 1       | 0         | 21.23           | 21.31              | 21.28            | 22.6                | 0        |
| 20              | QPSK       | 1       | 49        | 21.03           | 21.15              | 21.15            |                     |          |
| 20              | QPSK       | 1       | 99        | 21.22           | 21.01              | 21.03            |                     |          |
| 20              | QPSK       | 50      | 0         | 21.23           | 21.29              | 21.26            | 22.6                | 0        |
| 20              | QPSK       | 50      | 24        | 21.16           | 21.10              | 21.17            |                     |          |
| 20              | QPSK       | 50      | 50        | 21.21           | 21.21              | 21.03            |                     |          |
| 20              | QPSK       | 100     | 0         | 21.19           | 21.25              | 21.23            |                     |          |

### Band 25 Ant 1 ECI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 26140           | 26340              | 26590            | 22.6                | 0        |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1905             |                     |          |
| 20              | QPSK       | 1       | 0         | 21.32           | 21.37              | 21.35            | 22.6                | 0        |
| 20              | QPSK       | 1       | 49        | 21.16           | 21.31              | 21.23            |                     |          |
| 20              | QPSK       | 1       | 99        | 21.22           | 21.18              | 21.12            |                     |          |
| 20              | QPSK       | 50      | 0         | 21.29           | 21.35              | 21.20            | 22.6                | 0        |
| 20              | QPSK       | 50      | 24        | 21.22           | 21.24              | 21.29            |                     |          |
| 20              | QPSK       | 50      | 50        | 21.27           | 21.14              | 21.12            |                     |          |
| 20              | QPSK       | 100     | 0         | 21.31           | 21.33              | 21.20            |                     |          |

### Band 4 Ant 1 ECI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 20050           | 20175              | 20300            | 22.7                | 0        |
| Frequency (MHz) |            |         |           | 1720            | 1732.5             | 1745             |                     |          |
| 20              | QPSK       | 1       | 0         | 21.22           | 21.42              | 21.40            | 22.7                | 0        |
| 20              | QPSK       | 1       | 49        | 21.11           | 21.36              | 21.34            |                     |          |
| 20              | QPSK       | 1       | 99        | 21.12           | 21.31              | 21.19            |                     |          |
| 20              | QPSK       | 50      | 0         | 21.23           | 21.35              | 21.24            | 22.7                | 0        |
| 20              | QPSK       | 50      | 24        | 21.18           | 21.30              | 21.31            |                     |          |
| 20              | QPSK       | 50      | 50        | 21.32           | 21.31              | 21.23            |                     |          |
| 20              | QPSK       | 100     | 0         | 21.21           | 21.31              | 21.21            |                     |          |

### Band 66 Ant 1 ECI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 132072          | 132322             | 132572           | 22.7                | 0        |
| Frequency (MHz) |            |         |           | 1720            | 1745               | 1770             |                     |          |
| 20              | QPSK       | 1       | 0         | 21.45           | 21.52              | 21.48            | 22.7                | 0        |
| 20              | QPSK       | 1       | 49        | 21.36           | 21.50              | 21.44            |                     |          |
| 20              | QPSK       | 1       | 99        | 21.45           | 21.51              | 21.43            |                     |          |
| 20              | QPSK       | 50      | 0         | 21.32           | 21.48              | 21.46            | 22.7                | 0        |
| 20              | QPSK       | 50      | 24        | 21.29           | 21.40              | 21.35            |                     |          |
| 20              | QPSK       | 50      | 50        | 21.31           | 21.29              | 21.24            |                     |          |
| 20              | QPSK       | 100     | 0         | 21.37           | 21.43              | 21.41            |                     |          |

### Band 7 Ant 1 ECI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 20850           | 21100              | 21350            | 22.1                | 0        |
| Frequency (MHz) |            |         |           | 2510            | 2535               | 2560             |                     |          |
| 20              | QPSK       | 1       | 0         | 21.12           | 21.15              | 21.09            | 22.1                | 0        |
| 20              | QPSK       | 1       | 49        | 21.10           | 21.12              | 21.10            |                     |          |
| 20              | QPSK       | 1       | 99        | 21.07           | 21.05              | 21.11            |                     |          |
| 20              | QPSK       | 50      | 0         | 21.06           | 21.14              | 21.01            | 22.1                | 0        |
| 20              | QPSK       | 50      | 24        | 20.98           | 20.98              | 20.87            |                     |          |
| 20              | QPSK       | 50      | 50        | 20.93           | 21.02              | 20.97            |                     |          |
| 20              | QPSK       | 100     | 0         | 21.07           | 21.12              | 21.10            |                     |          |



### Band 38 Ant 1 ECI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |
| 20              | QPSK       | 1       | 0         | 21.00                 | 21.05                    | 21.02                  | 22.3                | 0        |
| 20              | QPSK       | 1       | 49        | 20.98                 | 21.03                    | 20.87                  |                     |          |
| 20              | QPSK       | 1       | 99        | 20.87                 | 20.94                    | 20.92                  |                     |          |
| 20              | QPSK       | 50      | 0         | 20.96                 | 21.04                    | 21.01                  |                     |          |
| 20              | QPSK       | 50      | 24        | 21.01                 | 21.03                    | 20.94                  |                     |          |
| 20              | QPSK       | 50      | 50        | 21.01                 | 20.93                    | 20.89                  |                     |          |
| 20              | QPSK       | 100     | 0         | 21.01                 | 21.03                    | 20.85                  | 22.3                | 0        |

### Band 41 Ant 1 ECI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |          |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20              | QPSK       | 1       | 0         | 21.06                 | 21.00                        | 21.07                    | 21.03                         | 21.01                  | 22.3                | 0        |
| 20              | QPSK       | 1       | 49        | 20.96                 | 21.07                        | 21.05                    | 20.92                         | 21.01                  |                     |          |
| 20              | QPSK       | 1       | 99        | 20.86                 | 20.97                        | 21.01                    | 20.94                         | 20.92                  |                     |          |
| 20              | QPSK       | 50      | 0         | 20.93                 | 21.02                        | 21.05                    | 20.97                         | 20.96                  |                     |          |
| 20              | QPSK       | 50      | 24        | 21.01                 | 20.98                        | 20.97                    | 21.00                         | 20.94                  |                     |          |
| 20              | QPSK       | 50      | 50        | 21.03                 | 20.95                        | 20.93                    | 21.00                         | 20.94                  |                     |          |
| 20              | QPSK       | 100     | 0         | 20.95                 | 20.89                        | 21.03                    | 20.94                         | 21.02                  | 22.3                | 0        |



### Band 42 FCC Part27Q Ant 3 ECI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 42190                 | 42590                    | 42990                  |                     |          |
| Frequency (MHz) |            |         |           | 3460                  | 3500                     | 3540                   |                     |          |
| 20              | QPSK       | 1       | 0         | 22.12                 | 22.13                    | 22.01                  |                     |          |
| 20              | QPSK       | 1       | 49        | 21.91                 | 22.00                    | 21.92                  | 22.9                | 0        |
| 20              | QPSK       | 1       | 99        | 22.03                 | 21.94                    | 21.85                  |                     |          |
| 20              | QPSK       | 50      | 0         | 22.06                 | 22.11                    | 22.03                  |                     |          |
| 20              | QPSK       | 50      | 24        | 22.03                 | 21.96                    | 21.94                  |                     |          |
| 20              | QPSK       | 50      | 50        | 21.95                 | 21.84                    | 21.84                  | 22.9                | 0        |
| 20              | QPSK       | 100     | 0         | 22.01                 | 22.08                    | 22.00                  |                     |          |





| Band 5 Ant 4    |           |                       |                          |                        |                     |          |  |
|-----------------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| RB Size         | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |           | 20450                 | 20525                    | 20600                  |                     |          |  |
| Frequency (MHz) |           | 829                   | 836.5                    | 844                    |                     |          |  |
| 1               | 0         | 22.09                 | 22.15                    | 22.13                  | 23                  | 0        |  |
| 1               | 25        | 22.06                 | 22.04                    | 22.01                  |                     |          |  |
| 1               | 49        | 22.09                 | 22.05                    | 22.12                  |                     |          |  |
| 25              | 0         | 21.16                 | 21.25                    | 21.14                  | 22                  | 1        |  |
| 25              | 12        | 21.17                 | 21.15                    | 21.16                  |                     |          |  |
| 25              | 25        | 21.23                 | 21.12                    | 21.16                  |                     |          |  |
| 50              | 0         | 21.14                 | 21.21                    | 21.14                  |                     |          |  |

| Band 25 Ant 4 ECI6 |           |                       |                          |                        |                     |          |  |
|--------------------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| RB Size            | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |           | 28140                 | 28340                    | 28590                  |                     |          |  |
| Frequency (MHz)    |           | 1930                  | 1980                     | 1905                   |                     |          |  |
| 1                  | 0         | 17.83                 | 17.94                    | 17.84                  | 19                  | 0        |  |
| 1                  | 49        | 17.61                 | 17.79                    | 17.85                  |                     |          |  |
| 1                  | 99        | 17.82                 | 17.90                    | 17.76                  |                     |          |  |
| 50                 | 0         | 17.88                 | 17.93                    | 17.91                  | 19                  | 0        |  |
| 50                 | 24        | 17.80                 | 17.91                    | 17.73                  |                     |          |  |
| 50                 | 50        | 17.79                 | 17.80                    | 17.77                  |                     |          |  |
| 100                | 0         | 17.81                 | 17.90                    | 17.83                  |                     |          |  |

| Band 7 Ant 4 ECI6 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 20850                 | 21100                    | 21350                  |                     |          |  |
| Frequency (MHz)   |            |         |           | 2510                  | 2535                     | 2560                   |                     |          |  |
| 20                | QPSK       | 1       | 0         | 17.87                 | 17.92                    | 17.80                  | 18.6                | 0        |  |
| 20                | QPSK       | 1       | 49        | 17.83                 | 17.82                    | 17.65                  |                     |          |  |
| 20                | QPSK       | 1       | 99        | 17.66                 | 17.73                    | 17.75                  |                     |          |  |
| 20                | QPSK       | 50      | 0         | 17.80                 | 17.88                    | 17.83                  | 18.6                | 0        |  |
| 20                | QPSK       | 50      | 24        | 17.80                 | 17.82                    | 17.64                  |                     |          |  |
| 20                | QPSK       | 50      | 50        | 17.78                 | 17.75                    | 17.77                  |                     |          |  |
| 20                | QPSK       | 100     | 0         | 17.72                 | 17.79                    | 17.74                  |                     |          |  |

| Band 26 Ant 4   |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 26765                 | 26965                    | 26965                  |                     |          |  |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |          |  |
| 15              | QPSK       | 1       | 0         | 22.13                 | 22.33                    | 22.19                  | 23                  | 0        |  |
| 15              | QPSK       | 1       | 37        | 22.21                 | 22.20                    | 22.23                  |                     |          |  |
| 15              | QPSK       | 1       | 74        | 22.27                 | 22.19                    | 22.13                  |                     |          |  |
| 15              | QPSK       | 36      | 0         | 21.34                 | 21.37                    | 21.35                  | 22                  | 1        |  |
| 15              | QPSK       | 36      | 20        | 21.23                 | 21.25                    | 21.27                  |                     |          |  |
| 15              | QPSK       | 36      | 39        | 21.36                 | 21.26                    | 21.25                  |                     |          |  |
| 15              | QPSK       | 75      | 0         | 21.27                 | 21.35                    | 21.32                  |                     |          |  |

| Band 12 Ant 4   |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 23060                 | 23095                    | 23130                  |                     |          |  |
| Frequency (MHz) |            |         |           | 704                   | 707.5                    | 711                    |                     |          |  |
| 10              | QPSK       | 1       | 0         | 22.44                 | 22.49                    | 22.45                  | 24                  | 0        |  |
| 10              | QPSK       | 1       | 25        | 22.39                 | 22.45                    | 22.45                  |                     |          |  |
| 10              | QPSK       | 1       | 49        | 22.43                 | 22.46                    | 22.40                  |                     |          |  |
| 10              | QPSK       | 25      | 0         | 21.47                 | 21.51                    | 21.48                  | 23                  | 1        |  |
| 10              | QPSK       | 25      | 12        | 21.34                 | 21.43                    | 21.43                  |                     |          |  |
| 10              | QPSK       | 25      | 25        | 21.36                 | 21.45                    | 21.48                  |                     |          |  |
| 10              | QPSK       | 50      | 0         | 21.43                 | 21.50                    | 21.47                  |                     |          |  |

| Band 66 Ant 4 ECI6 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         |           | 132072                | 132322                   | 132572                 |                     |          |  |
| Frequency (MHz)    |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |  |
| 20                 | QPSK       | 1       | 0         | 19.49                 | 19.62                    | 19.35                  | 20.6                | 0        |  |
| 20                 | QPSK       | 1       | 49        | 19.35                 | 19.60                    | 19.32                  |                     |          |  |
| 20                 | QPSK       | 1       | 99        | 19.44                 | 19.54                    | 19.38                  |                     |          |  |
| 20                 | QPSK       | 50      | 0         | 19.54                 | 19.58                    | 19.52                  | 20.6                | 0        |  |
| 20                 | QPSK       | 50      | 24        | 19.51                 | 19.39                    | 19.39                  |                     |          |  |
| 20                 | QPSK       | 50      | 50        | 19.27                 | 19.50                    | 19.41                  |                     |          |  |
| 20                 | QPSK       | 100     | 0         | 19.54                 | 19.56                    | 19.51                  |                     |          |  |



| Band 38 Ant 4 ECI6 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         | 37850     | 38000                 | 38150                    |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |  |
| 20                 | QPSK       | 1       | 0         | 18.73                 | 18.89                    | 18.84                  | 20.1                | 0        |  |
| 20                 | QPSK       | 1       | 49        | 18.66                 | 18.83                    | 18.67                  |                     |          |  |
| 20                 | QPSK       | 1       | 99        | 18.68                 | 18.76                    | 18.75                  |                     |          |  |
| 20                 | QPSK       | 50      | 0         | 18.71                 | 18.85                    | 18.73                  | 20.1                | 0        |  |
| 20                 | QPSK       | 50      | 24        | 18.69                 | 18.80                    | 18.67                  |                     |          |  |
| 20                 | QPSK       | 50      | 50        | 18.69                 | 18.82                    | 18.67                  |                     |          |  |
| 20                 | QPSK       | 100     | 0         | 18.73                 | 18.75                    | 18.71                  |                     |          |  |

| Band 41 Ant 4 ECI6 |            |         |           |                       |                              |                          |                               |                        |                     |          |
|--------------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel            |            |         | 39750     | 40185                 | 40620                        | 41055                    | 41490                         |                        |                     |          |
| Frequency (MHz)    |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20                 | QPSK       | 1       | 0         | 19.04                 | 19.03                        | 19.08                    | 18.99                         | 18.98                  | 20.1                | 0        |
| 20                 | QPSK       | 1       | 49        | 18.90                 | 18.86                        | 18.99                    | 18.93                         | 18.94                  |                     |          |
| 20                 | QPSK       | 1       | 99        | 18.95                 | 18.97                        | 18.94                    | 18.94                         | 18.90                  |                     |          |
| 20                 | QPSK       | 50      | 0         | 18.98                 | 19.00                        | 19.06                    | 19.01                         | 19.01                  | 20.1                | 0        |
| 20                 | QPSK       | 50      | 24        | 18.82                 | 18.93                        | 19.00                    | 18.90                         | 18.98                  |                     |          |
| 20                 | QPSK       | 50      | 50        | 18.91                 | 18.91                        | 18.91                    | 18.97                         | 18.99                  |                     |          |
| 20                 | QPSK       | 100     | 0         | 19.00                 | 18.96                        | 19.03                    | 18.97                         | 18.94                  |                     |          |



**Reduced Power Mode for ECI 7**

| GSM850 Ant 0    | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
|                 | 123                       | 189   | 251   |                           | 123                       | 189   | 251   |                           |
| TX Channel      | 824.2                     | 836.4 | 848.8 |                           | 824.2                     | 836.4 | 848.8 |                           |
| GSM 1 Tx slot   | 31.80                     | 31.95 | 31.86 | 33.50                     | 22.80                     | 22.95 | 22.86 | 24.50                     |
| GPRS 1 Tx slot  | 31.78                     | 31.89 | 31.85 | 33.50                     | 22.78                     | 22.89 | 22.85 | 24.50                     |
| GPRS 2 Tx slots | 30.06                     | 30.10 | 29.99 | 31.10                     | 24.06                     | 24.10 | 23.99 | 25.10                     |
| GPRS 3 Tx slots | 28.48                     | 28.51 | 28.56 | 29.30                     | 24.22                     | 24.25 | 24.30 | 25.04                     |
| GPRS 4 Tx slots | 26.81                     | 26.85 | 26.79 | 28.10                     | 23.81                     | 23.85 | 23.79 | 25.10                     |

| Band        | WCDMA V Ant 0 |       |       | Tune-up<br>Limit<br>(dBm) |
|-------------|---------------|-------|-------|---------------------------|
|             | 4132          | 4182  | 4233  |                           |
| TX Channel  | 4357          | 4407  | 4458  |                           |
| Rx Channel  | 826.4         | 836.4 | 846.6 |                           |
| SGPP Rel 99 | RMC 12.2Kbps  | 22.57 | 22.58 | 22.51                     |
|             |               |       |       | 24.00                     |





### Band 5 Ant 0 ECI7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         | 20450     | 20525                 | 20600                    |                        |                     |          |
| Frequency (MHz) |            |         | 829       | 836.5                 | 844                      |                        |                     |          |
| 10              | QPSK       | 1       | 0         | 22.34                 | 22.48                    | 22.17                  | 24                  | 0        |
| 10              | QPSK       | 1       | 25        | 22.18                 | 22.26                    | 22.23                  |                     |          |
| 10              | QPSK       | 1       | 49        | 22.41                 | 22.27                    | 22.10                  |                     |          |
| 10              | QPSK       | 25      | 0         | 21.36                 | 21.39                    | 21.31                  | 23                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.36                 | 21.21                    | 21.35                  |                     |          |
| 10              | QPSK       | 25      | 25        | 21.16                 | 21.22                    | 21.15                  |                     |          |
| 10              | QPSK       | 50      | 0         | 21.18                 | 21.27                    | 21.24                  |                     |          |

### Band 17 Ant 0 ECI7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         | 23780     | 23790                 | 23800                    |                        |                     |          |
| Frequency (MHz) |            |         | 709       | 710                   | 711                      |                        |                     |          |
| 10              | QPSK       | 1       | 0         | 22.23                 | 22.31                    | 22.23                  | 24                  | 0        |
| 10              | QPSK       | 1       | 25        | 22.11                 | 22.12                    | 22.19                  |                     |          |
| 10              | QPSK       | 1       | 49        | 22.13                 | 22.30                    | 22.09                  |                     |          |
| 10              | QPSK       | 25      | 0         | 21.18                 | 21.27                    | 21.18                  | 23                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.08                 | 21.09                    | 21.25                  |                     |          |
| 10              | QPSK       | 25      | 25        | 21.19                 | 21.13                    | 21.05                  |                     |          |
| 10              | QPSK       | 50      | 0         | 21.11                 | 21.25                    | 21.06                  |                     |          |

### Band 12 Ant 0 ECI7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         | 23060     | 23095                 | 23130                    |                        |                     |          |
| Frequency (MHz) |            |         | 704       | 707.5                 | 711                      |                        |                     |          |
| 10              | QPSK       | 1       | 0         | 22.24                 | 22.32                    | 22.31                  | 24                  | 0        |
| 10              | QPSK       | 1       | 25        | 22.19                 | 22.17                    | 22.22                  |                     |          |
| 10              | QPSK       | 1       | 49        | 22.16                 | 22.29                    | 22.10                  |                     |          |
| 10              | QPSK       | 25      | 0         | 21.29                 | 21.35                    | 21.27                  | 23                  | 1        |
| 10              | QPSK       | 25      | 12        | 21.19                 | 21.16                    | 21.19                  |                     |          |
| 10              | QPSK       | 25      | 25        | 21.12                 | 21.28                    | 21.13                  |                     |          |
| 10              | QPSK       | 50      | 0         | 21.32                 | 21.33                    | 21.16                  |                     |          |

### Band 26 Ant 0 ECI7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         | 26765     | 26855                 | 26965                    |                        |                     |          |
| Frequency (MHz) |            |         | 821.5     | 831.5                 | 841.5                    |                        |                     |          |
| 15              | QPSK       | 1       | 0         | 22.50                 | 22.57                    | 22.27                  | 24                  | 0        |
| 15              | QPSK       | 1       | 37        | 22.24                 | 22.42                    | 22.29                  |                     |          |
| 15              | QPSK       | 1       | 74        | 22.40                 | 22.35                    | 22.35                  |                     |          |
| 15              | QPSK       | 36      | 0         | 21.43                 | 21.50                    | 21.44                  | 23                  | 1        |
| 15              | QPSK       | 36      | 20        | 21.39                 | 21.45                    | 21.46                  |                     |          |
| 15              | QPSK       | 36      | 39        | 21.37                 | 21.27                    | 21.35                  |                     |          |
| 15              | QPSK       | 75      | 0         | 21.41                 | 21.46                    | 21.42                  |                     |          |

### Band 13 Ant 0 ECI7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         | 23230     |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         | 782       |                       |                          |                        |                     |          |
| 10              | QPSK       | 1       | 0         |                       | 22.57                    |                        | 24                  | 0        |
| 10              | QPSK       | 1       | 25        |                       | 22.36                    |                        |                     |          |
| 10              | QPSK       | 1       | 49        |                       | 22.43                    |                        |                     |          |
| 10              | QPSK       | 25      | 0         |                       | 21.53                    |                        | 23                  | 1        |
| 10              | QPSK       | 25      | 12        |                       | 21.22                    |                        |                     |          |
| 10              | QPSK       | 25      | 25        |                       | 21.29                    |                        |                     |          |
| 10              | QPSK       | 50      | 0         |                       | 21.48                    |                        |                     |          |



| GSM1900 Ant 1<br>TX Channel | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |        |       | Tune-up<br>Limit<br>(dBm) |
|-----------------------------|---------------------------|-------|--------|---------------------------|---------------------------|--------|-------|---------------------------|
|                             | 512                       | 661   | 810    |                           | 512                       | 661    | 810   |                           |
| Frequency (MHz)             | 1850.2                    | 1860  | 1903.8 | 1850.2                    | 1860                      | 1903.8 |       |                           |
| GSM 1 Tx slot               | 29.02                     | 29.05 | 29.03  | 30.50                     | 20.02                     | 20.05  | 20.03 | 21.50                     |
| GPRS 2 Tx slot              | 29.00                     | 29.04 | 29.01  | 30.50                     | 20.00                     | 20.04  | 20.01 | 21.50                     |
| GPRS 3 Tx slots             | 26.20                     | 26.26 | 26.22  | 27.70                     | 20.20                     | 20.26  | 20.22 | 21.70                     |
| GPRS 4 Tx slots             | 24.39                     | 24.46 | 24.38  | 25.90                     | 20.13                     | 20.20  | 20.12 | 21.64                     |
|                             | 23.63                     | 23.65 | 23.57  | 24.70                     | 20.63                     | 20.65  | 20.57 | 21.70                     |

| Band<br>TX Channel       | WCDMA II Ant 1 ECI7 |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV Ant 1 ECI7 |        |       | Tune-up<br>Limit<br>(dBm) |
|--------------------------|---------------------|-------|--------|---------------------------|---------------------|--------|-------|---------------------------|
|                          | 9262                | 9400  | 9538   |                           | 1312                | 1413   | 1513  |                           |
| Rx Channel               | 9662                | 9800  | 9938   | 1537                      | 1638                | 1738   |       |                           |
| Frequency (MHz)          | 1852.4              | 1880  | 1907.6 | 1712.4                    | 1732.6              | 1752.6 |       |                           |
| 3GPP Rel 99 RMC 12.2Kbps | 19.01               | 19.04 | 18.96  | 20.10                     | 18.80               | 18.95  | 18.90 | 20.30                     |



### Band 2 Ant 1 ECI7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 18700           | 18800              | 19100            | 19.5                | 0        |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1900             |                     |          |
| 20              | QPSK       | 1       | 0         | 18.27           | 18.33              | 18.14            |                     |          |
| 20              | QPSK       | 1       | 49        | 18.13           | 18.25              | 18.07            | 19.5                | 0        |
| 20              | QPSK       | 1       | 99        | 18.16           | 18.11              | 18.12            |                     |          |
| 20              | QPSK       | 50      | 0         | 18.23           | 18.32              | 18.22            |                     |          |
| 20              | QPSK       | 50      | 24        | 18.17           | 18.15              | 18.11            | 19.5                | 0        |
| 20              | QPSK       | 50      | 50        | 18.25           | 18.08              | 18.11            |                     |          |
| 20              | QPSK       | 100     | 0         | 18.29           | 18.30              | 18.26            |                     |          |

### Band 25 Ant 1 ECI7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 26140           | 26340              | 26590            | 19.5                | 0        |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1905             |                     |          |
| 20              | QPSK       | 1       | 0         | 18.27           | 18.40              | 18.25            |                     |          |
| 20              | QPSK       | 1       | 49        | 18.16           | 18.35              | 18.18            | 19.5                | 0        |
| 20              | QPSK       | 1       | 99        | 18.24           | 18.15              | 18.13            |                     |          |
| 20              | QPSK       | 50      | 0         | 18.23           | 18.34              | 18.22            |                     |          |
| 20              | QPSK       | 50      | 24        | 18.19           | 18.24              | 18.28            | 19.5                | 0        |
| 20              | QPSK       | 50      | 50        | 18.24           | 18.19              | 18.05            |                     |          |
| 20              | QPSK       | 100     | 0         | 18.25           | 18.31              | 18.12            |                     |          |

### Band 4 Ant 1 ECI7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 20050           | 20175              | 20300            | 19.7                | 0        |
| Frequency (MHz) |            |         |           | 1720            | 1732.5             | 1745             |                     |          |
| 20              | QPSK       | 1       | 0         | 18.30           | 18.49              | 18.47            |                     |          |
| 20              | QPSK       | 1       | 49        | 18.23           | 18.41              | 18.34            | 19.7                | 0        |
| 20              | QPSK       | 1       | 99        | 18.21           | 18.39              | 18.33            |                     |          |
| 20              | QPSK       | 50      | 0         | 18.30           | 18.46              | 18.36            |                     |          |
| 20              | QPSK       | 50      | 24        | 18.23           | 18.36              | 18.37            | 19.7                | 0        |
| 20              | QPSK       | 50      | 50        | 18.42           | 18.37              | 18.32            |                     |          |
| 20              | QPSK       | 100     | 0         | 18.26           | 18.42              | 18.34            |                     |          |

### Band 66 Ant 1 ECI7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 132072          | 132322             | 132572           | 19.7                | 0        |
| Frequency (MHz) |            |         |           | 1720            | 1745               | 1770             |                     |          |
| 20              | QPSK       | 1       | 0         | 18.39           | 18.56              | 18.46            |                     |          |
| 20              | QPSK       | 1       | 49        | 18.41           | 18.43              | 18.39            | 19.7                | 0        |
| 20              | QPSK       | 1       | 99        | 18.40           | 18.39              | 18.37            |                     |          |
| 20              | QPSK       | 50      | 0         | 18.48           | 18.51              | 18.42            |                     |          |
| 20              | QPSK       | 50      | 24        | 18.44           | 18.49              | 18.39            | 19.7                | 0        |
| 20              | QPSK       | 50      | 50        | 18.48           | 18.41              | 18.34            |                     |          |
| 20              | QPSK       | 100     | 0         | 18.38           | 18.46              | 18.38            |                     |          |

### Band 7 Ant 1 ECI7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power           |                    |                  | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
|                 |            |         |           | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. |                     |          |
| Channel         |            |         |           | 20850           | 21100              | 21350            | 19.8                | 0        |
| Frequency (MHz) |            |         |           | 2510            | 2535               | 2560             |                     |          |
| 20              | QPSK       | 1       | 0         | 18.64           | 18.70              | 18.65            |                     |          |
| 20              | QPSK       | 1       | 49        | 18.52           | 18.58              | 18.59            | 19.8                | 0        |
| 20              | QPSK       | 1       | 99        | 18.61           | 18.45              | 18.55            |                     |          |
| 20              | QPSK       | 50      | 0         | 18.66           | 18.68              | 18.65            |                     |          |
| 20              | QPSK       | 50      | 24        | 18.65           | 18.61              | 18.61            | 19.8                | 0        |
| 20              | QPSK       | 50      | 50        | 18.58           | 18.51              | 18.56            |                     |          |
| 20              | QPSK       | 100     | 0         | 18.60           | 18.65              | 18.56            |                     |          |



| Band 38 Ant 1 ECI7 |            |         |           |                       |                          |                        |                     |          |  |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel            |            |         | 37850     | 38000                 | 38150                    |                        |                     |          |  |
| Frequency (MHz)    |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |  |
| 20                 | QPSK       | 1       | 0         | 20.41                 | 20.61                    | 20.43                  | 21.7                | 0        |  |
| 20                 | QPSK       | 1       | 49        | 20.59                 | 20.58                    | 20.42                  |                     |          |  |
| 20                 | QPSK       | 1       | 99        | 20.39                 | 20.53                    | 20.45                  |                     |          |  |
| 20                 | QPSK       | 50      | 0         | 20.46                 | 20.59                    | 20.38                  | 21.7                | 0        |  |
| 20                 | QPSK       | 50      | 24        | 20.55                 | 20.51                    | 20.35                  |                     |          |  |
| 20                 | QPSK       | 50      | 50        | 20.44                 | 20.42                    | 20.49                  |                     |          |  |
| 20                 | QPSK       | 100     | 0         | 20.53                 | 20.56                    | 20.29                  |                     |          |  |

| Band 41 Ant 1 ECI7 |            |         |           |                       |                              |                          |                               |                        |                     |          |
|--------------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| BW [MHz]           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel            |            |         | 39750     | 40185                 | 40620                        | 41055                    | 41490                         |                        |                     |          |
| Frequency (MHz)    |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |          |
| 20                 | QPSK       | 1       | 0         | 20.56                 | 20.49                        | 20.67                    | 20.55                         | 20.63                  | 21.7                | 0        |
| 20                 | QPSK       | 1       | 49        | 20.57                 | 20.53                        | 20.59                    | 20.51                         | 20.49                  |                     |          |
| 20                 | QPSK       | 1       | 99        | 20.45                 | 20.53                        | 20.54                    | 20.46                         | 20.57                  |                     |          |
| 20                 | QPSK       | 50      | 0         | 20.50                 | 20.61                        | 20.64                    | 20.53                         | 20.55                  | 21.7                | 0        |
| 20                 | QPSK       | 50      | 24        | 20.51                 | 20.50                        | 20.61                    | 20.55                         | 20.52                  |                     |          |
| 20                 | QPSK       | 50      | 50        | 20.57                 | 20.47                        | 20.60                    | 20.52                         | 20.36                  |                     |          |
| 20                 | QPSK       | 100     | 0         | 20.52                 | 20.59                        | 20.62                    | 20.56                         | 20.51                  |                     |          |



### Band 42 FCC Part27Q Ant 3 ECI7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 42190                 | 42590                    | 42990                  |                     |          |
| Frequency (MHz) |            |         |           | 3460                  | 3500                     | 3540                   |                     |          |
| 20              | QPSK       | 1       | 0         | 15.97                 | 16.09                    | 15.91                  |                     |          |
| 20              | QPSK       | 1       | 49        | 15.80                 | 15.86                    | 15.87                  | 17                  | 0        |
| 20              | QPSK       | 1       | 99        | 15.83                 | 15.88                    | 15.80                  |                     |          |
| 20              | QPSK       | 50      | 0         | 15.94                 | 16.02                    | 15.95                  |                     |          |
| 20              | QPSK       | 50      | 24        | 15.82                 | 15.89                    | 15.87                  | 17                  | 0        |
| 20              | QPSK       | 50      | 50        | 15.85                 | 15.77                    | 15.79                  |                     |          |
| 20              | QPSK       | 100     | 0         | 15.88                 | 15.90                    | 15.84                  |                     |          |



| GSM850 Ant 4<br>TX Channel | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
|----------------------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
|                            | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |
| Frequency (MHz)            | 324.2                     | 336.4 | 348.6 | 324.2                     | 336.4                     | 348.6 |       |                           |
| GSM 1 Tx slot              | 31.19                     | 31.27 | 31.17 | 32.50                     | 22.19                     | 22.27 | 22.17 | 23.50                     |
| GPRS 1 Tx slot             | 31.18                     | 31.25 | 31.16 | 32.50                     | 22.18                     | 22.25 | 22.16 | 23.50                     |
| GPRS 2 Tx slots            | 30.28                     | 30.35 | 30.28 | 31.00                     | 24.28                     | 24.35 | 24.28 | 25.00                     |
| GPRS 3 Tx slots            | 28.39                     | 28.46 | 28.40 | 29.00                     | 24.13                     | 24.20 | 24.14 | 24.74                     |
| GPRS 4 Tx slots            | 27.14                     | 27.15 | 27.13 | 28.00                     | 24.14                     | 24.15 | 24.13 | 25.00                     |

| Band<br>TX Channel       | WCDMA V Ant 4 |       |       | Tune-up<br>Limit<br>(dBm) |
|--------------------------|---------------|-------|-------|---------------------------|
|                          | 4132          | 4182  | 4233  |                           |
| Rx Channel               | 4357          | 4407  | 4458  |                           |
| Frequency (MHz)          | 826.4         | 836.4 | 846.6 |                           |
| 3GPP Rel 99 RMC 12.2Kbps | 21.47         | 21.52 | 21.40 | 22.40                     |



| Band 2 Ant 4 ECI7 |            |         |           |                       |                          |                        |                     |          |             |           |                |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-------------|-----------|----------------|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) | < Tune-up-2 | > Tune-up | Ch Delta > 0.5 |
| Channel           |            |         |           | 18700                 | 18900                    | 19100                  |                     |          |             |           |                |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |             |           |                |
| 20                | QPSK       | 1       | 0         | 12.84                 | 13.04                    | 12.86                  |                     |          | 1.46        | 1.26      |                |
| 20                | QPSK       | 1       | 49        | 12.83                 | 12.88                    | 12.80                  | 14.3                | 0        | 1.50        | 1.42      | 0.28           |
| 20                | QPSK       | 1       | 99        | 12.79                 | 12.87                    | 12.76                  |                     |          | 1.54        | 1.43      |                |
| 20                | QPSK       | 50      | 0         | 12.90                 | 12.96                    | 12.92                  |                     |          | 1.40        | 1.34      |                |
| 20                | QPSK       | 50      | 24        | 12.74                 | 12.93                    | 12.77                  | 14.3                | 0        | 1.56        | 1.37      | 0.22           |
| 20                | QPSK       | 50      | 50        | 12.87                 | 12.89                    | 12.78                  |                     |          | 1.54        | 1.41      |                |
| 20                | QPSK       | 100     | 0         | 12.87                 | 12.90                    | 12.89                  |                     |          | 1.43        | 1.40      | 0.03           |

| Band 13 Ant 4 ECI7 |            |         |           |                       |                          |                        |                     |          |             |           |                |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-------------|-----------|----------------|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) | < Tune-up-2 | > Tune-up | Ch Delta > 0.5 |
| Channel            |            |         |           | 23230                 |                          |                        |                     |          |             |           |                |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |             |           |                |
| 10                 | QPSK       | 1       | 0         |                       | 20.45                    |                        |                     |          | 1.22        | 1.22      |                |
| 10                 | QPSK       | 1       | 25        |                       | 20.33                    |                        |                     | 21.7     | 0           | 1.37      | 1.37           |
| 10                 | QPSK       | 1       | 49        |                       | 20.37                    |                        |                     |          | 1.33        | 1.33      |                |
| 10                 | QPSK       | 25      | 0         |                       | 20.44                    |                        |                     |          | 1.28        | 1.28      |                |
| 10                 | QPSK       | 25      | 12        |                       | 20.34                    |                        |                     | 21.7     | 0           | 1.36      | 1.36           |
| 10                 | QPSK       | 25      | 25        |                       | 20.30                    |                        |                     |          | 1.40        | 1.40      |                |
| 10                 | QPSK       | 50      | 0         |                       | 20.35                    |                        |                     |          | 1.35        | 1.35      | 0.00           |

| Band 4 Ant 4 ECI7 |            |         |           |                       |                          |                        |                     |          |             |           |                |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-------------|-----------|----------------|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) | < Tune-up-2 | > Tune-up | Ch Delta > 0.5 |
| Channel           |            |         |           | 20050                 | 20175                    | 20300                  |                     |          |             |           |                |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |             |           |                |
| 20                | QPSK       | 1       | 0         | 14.21                 | 14.20                    | 14.23                  |                     |          | 1.09        | 1.04      |                |
| 20                | QPSK       | 1       | 49        | 14.01                 | 14.10                    | 14.00                  | 15.3                | 0        | 1.30        | 1.20      | 0.26           |
| 20                | QPSK       | 1       | 99        | 14.06                 | 14.24                    | 14.07                  |                     |          | 1.24        | 1.06      |                |
| 20                | QPSK       | 50      | 0         | 14.11                 | 14.19                    | 14.03                  |                     |          | 1.27        | 1.11      |                |
| 20                | QPSK       | 50      | 24        | 14.06                 | 14.09                    | 13.98                  | 15.3                | 0        | 1.31        | 1.21      | 0.22           |
| 20                | QPSK       | 50      | 50        | 14.03                 | 14.15                    | 13.97                  |                     |          | 1.33        | 1.15      |                |
| 20                | QPSK       | 100     | 0         | 14.03                 | 14.16                    | 14.11                  |                     |          | 1.27        | 1.12      | 0.15           |

| Band 17 Ant 4 ECI7 |            |         |           |                       |                          |                        |                     |          |             |           |                |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-------------|-----------|----------------|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) | < Tune-up-2 | > Tune-up | Ch Delta > 0.5 |
| Channel            |            |         |           | 23780                 | 23790                    | 23800                  |                     |          |             |           |                |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |             |           |                |
| 10                 | QPSK       | 1       | 0         | 20.68                 | 20.71                    | 20.67                  |                     |          | 1.23        | 1.19      |                |
| 10                 | QPSK       | 1       | 25        | 20.60                 | 20.65                    | 20.45                  | 21.9                | 0        | 1.45        | 1.25      | 0.26           |
| 10                 | QPSK       | 1       | 49        | 20.51                 | 20.60                    | 20.60                  |                     |          | 1.40        | 1.30      |                |
| 10                 | QPSK       | 25      | 0         | 20.60                 | 20.68                    | 20.56                  |                     |          | 1.34        | 1.22      |                |
| 10                 | QPSK       | 25      | 12        | 20.48                 | 20.66                    | 20.46                  | 21.9                | 0        | 1.44        | 1.24      | 0.22           |
| 10                 | QPSK       | 25      | 25        | 20.46                 | 20.54                    | 20.60                  |                     |          | 1.44        | 1.30      |                |
| 10                 | QPSK       | 50      | 0         | 20.59                 | 20.66                    | 20.59                  |                     |          | 1.31        | 1.24      | 0.07           |

| Band 5 Ant 4 ECI7 |            |         |           |                       |                          |                        |                     |          |             |           |                |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-------------|-----------|----------------|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) | < Tune-up-2 | > Tune-up | Ch Delta > 0.5 |
| Channel           |            |         |           | 20450                 | 20525                    | 20600                  |                     |          |             |           |                |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |             |           |                |
| 10                | QPSK       | 1       | 0         | 20.34                 | 20.37                    | 20.30                  |                     |          | 1.29        | 1.24      |                |
| 10                | QPSK       | 1       | 25        | 20.22                 | 20.24                    | 20.30                  | 21.5                | 0        | 1.30        | 1.20      | 0.28           |
| 10                | QPSK       | 1       | 49        | 20.23                 | 20.24                    | 20.27                  |                     |          | 1.24        | 1.06      |                |
| 10                | QPSK       | 25      | 0         | 20.24                 | 20.26                    | 20.20                  |                     |          | 1.27        | 1.11      |                |
| 10                | QPSK       | 25      | 12        | 20.17                 | 20.23                    | 20.11                  | 21.5                | 0        | 1.31        | 1.21      | 0.22           |
| 10                | QPSK       | 25      | 25        | 20.19                 | 20.18                    | 20.12                  |                     |          | 1.33        | 1.15      |                |
| 10                | QPSK       | 50      | 0         | 20.10                 | 20.20                    | 20.11                  |                     |          | 1.27        | 1.12      | 0.15           |

| Band 25 Ant 4 ECI7 |            |         |           |                       |                          |                        |                     |          |             |           |                |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-------------|-----------|----------------|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) | < Tune-up-2 | > Tune-up | Ch Delta > 0.5 |
| Channel            |            |         |           | 26140                 | 26340                    | 26560                  |                     |          |             |           |                |
| Frequency (MHz)    |            |         |           |                       |                          |                        |                     |          |             |           |                |
| 20                 | QPSK       | 1       | 0         | 13.21                 | 13.26                    | 13.23                  |                     |          | 1.23        | 1.19      |                |
| 20                 | QPSK       | 1       | 49        | 13.07                 | 13.17                    | 13.13                  | 14.3                | 0        | 1.45        | 1.25      | 0.26           |
| 20                 | QPSK       | 1       | 99        | 13.14                 | 13.20                    | 13.12                  |                     |          | 1.40        | 1.30      |                |
| 20                 | QPSK       | 50      | 0         | 13.22                 | 13.25                    | 13.24                  |                     |          | 1.34        | 1.22      |                |
| 20                 | QPSK       | 50      | 24        | 13.08                 | 13.21                    | 13.05                  | 14.3                | 0        | 1.44        | 1.24      | 0.22           |
| 20                 | QPSK       | 50      | 50        | 13.07                 | 13.15                    | 13.16                  |                     |          | 1.44        | 1.30      |                |
| 20                 | QPSK       | 100     | 0         | 13.20                 | 13.22                    | 13.19                  |                     |          | 1.31        | 1.24      | 0.07           |



| Band 7 Ant 4 EC17 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 26950                 | 21100                    | 21350                  |                     |          |
| Frequency (MHz)   |            |         |           | 2310                  | 2335                     | 2360                   |                     |          |
| 20                | QPSK       | 1       | 0         | 15.61                 | 15.64                    | 15.58                  |                     |          |
| 20                | QPSK       | 1       | 49        | 15.50                 | 15.58                    | 15.50                  | 16.5                | 0        |
| 20                | QPSK       | 1       | 99        | 15.51                 | 15.60                    | 15.47                  |                     |          |
| 20                | QPSK       | 50      | 0         | 15.58                 | 15.63                    | 15.55                  |                     |          |
| 20                | QPSK       | 50      | 24        | 15.49                 | 15.60                    | 15.36                  |                     |          |
| 20                | QPSK       | 50      | 50        | 15.50                 | 15.53                    | 15.50                  | 16.5                | 0        |
| 20                | QPSK       | 100     | 0         | 15.55                 | 15.58                    | 15.53                  |                     |          |

| Band 26 Ant 4 EC17 |            |         |           |                       |                          |                        |                     |          |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel            |            |         |           | 26765                 | 26865                    | 26965                  |                     |          |
| Frequency (MHz)    |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |          |
| 15                 | QPSK       | 1       | 0         | 20.52                 | 20.50                    | 20.48                  |                     |          |
| 15                 | QPSK       | 1       | 27        | 20.40                 | 20.35                    | 20.41                  | 21.5                | 0        |
| 15                 | QPSK       | 1       | 74        | 20.43                 | 20.42                    | 20.37                  |                     |          |
| 15                 | QPSK       | 36      | 0         | 20.50                 | 20.52                    | 20.50                  |                     |          |
| 15                 | QPSK       | 36      | 20        | 20.41                 | 20.48                    | 20.44                  |                     |          |
| 15                 | QPSK       | 36      | 39        | 20.42                 | 20.49                    | 20.43                  | 21.5                | 0        |
| 15                 | QPSK       | 75      | 0         | 20.45                 | 20.51                    | 20.47                  |                     |          |

| Band 12 Ant 4 EC17 |            |         |           |                       |                          |                        |                     |          |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel            |            |         |           | 23000                 | 23050                    | 23100                  |                     |          |
| Frequency (MHz)    |            |         |           | 704                   | 707.5                    | 711                    |                     |          |
| 10                 | QPSK       | 1       | 0         | 20.71                 | 20.73                    | 20.69                  |                     |          |
| 10                 | QPSK       | 1       | 25        | 20.67                 | 20.68                    | 20.57                  | 21.9                | 0        |
| 10                 | QPSK       | 1       | 49        | 20.64                 | 20.59                    | 20.66                  |                     |          |
| 10                 | QPSK       | 25      | 0         | 20.70                 | 20.72                    | 20.64                  |                     |          |
| 10                 | QPSK       | 25      | 12        | 20.48                 | 20.60                    | 20.64                  |                     |          |
| 10                 | QPSK       | 25      | 25        | 20.58                 | 20.63                    | 20.68                  | 21.9                | 0        |
| 10                 | QPSK       | 50      | 0         | 20.58                 | 20.69                    | 20.60                  |                     |          |

| Band 66 Ant 4 EC17 |            |         |           |                       |                          |                        |                     |          |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz)           | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel            |            |         |           | 130072                | 132322                   | 133572                 |                     |          |
| Frequency (MHz)    |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |
| 20                 | QPSK       | 1       | 0         | 14.27                 | 14.30                    | 14.24                  |                     |          |
| 20                 | QPSK       | 1       | 49        | 14.10                 | 14.20                    | 14.23                  | 15.3                | 0        |
| 20                 | QPSK       | 1       | 99        | 14.08                 | 14.20                    | 14.10                  |                     |          |
| 20                 | QPSK       | 50      | 0         | 14.21                 | 14.27                    | 14.19                  |                     |          |
| 20                 | QPSK       | 50      | 24        | 14.10                 | 14.18                    | 14.03                  |                     |          |
| 20                 | QPSK       | 50      | 50        | 13.94                 | 14.19                    | 14.07                  | 15.3                | 0        |
| 20                 | QPSK       | 100     | 0         | 14.10                 | 14.26                    | 14.17                  |                     |          |





### Band 38 Ant 4 ECI7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         | 37850     | 38000                 | 38150                    |                        |                     |          |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   | 18                  | 0        |
| 20              | QPSK       | 1       | 0         | 16.82                 | 16.87                    | 16.85                  |                     |          |
| 20              | QPSK       | 1       | 49        | 16.63                 | 16.73                    | 16.65                  |                     |          |
| 20              | QPSK       | 1       | 99        | 16.75                 | 16.76                    | 16.83                  |                     |          |
| 20              | QPSK       | 50      | 0         | 16.75                 | 16.85                    | 16.75                  |                     |          |
| 20              | QPSK       | 50      | 24        | 16.66                 | 16.75                    | 16.82                  |                     |          |
| 20              | QPSK       | 50      | 50        | 16.77                 | 16.80                    | 16.70                  |                     |          |
| 20              | QPSK       | 100     | 0         | 16.82                 | 16.83                    | 16.75                  |                     |          |

### Band 41 Ant 4 ECI7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         | 39750     | 40185                 | 40620                        | 41055                    | 41490                         |                        |                     |          |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   | 18                  | 0        |
| 20              | QPSK       | 1       | 0         | 16.89                 | 16.90                        | 16.97                    | 16.95                         | 16.92                  |                     |          |
| 20              | QPSK       | 1       | 49        | 16.83                 | 16.70                        | 16.89                    | 16.78                         | 16.92                  |                     |          |
| 20              | QPSK       | 1       | 99        | 16.88                 | 16.86                        | 16.91                    | 16.93                         | 16.94                  |                     |          |
| 20              | QPSK       | 50      | 0         | 16.82                 | 16.89                        | 16.96                    | 16.85                         | 16.87                  |                     |          |
| 20              | QPSK       | 50      | 24        | 16.77                 | 16.75                        | 16.86                    | 16.81                         | 16.84                  |                     |          |
| 20              | QPSK       | 50      | 50        | 16.74                 | 16.81                        | 16.81                    | 16.90                         | 16.85                  |                     |          |
| 20              | QPSK       | 100     | 0         | 16.84                 | 16.91                        | 16.93                    | 16.87                         | 16.82                  |                     |          |



Full&Default Power Mode

| n5 Ant 0        |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 834                   | 836.5                    | 839                    |                     |          |
| Frequency (MHz) |            |         |           | 166800                | 167300                   | 167800                 |                     |          |
| 20              | QPSK       | 1       | 1         | 22.57                 | 22.59                    | 22.45                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.52                 | 22.53                    | 22.46                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.53                 | 21.59                    | 21.42                  | 23.0                | 1.0      |

| n26 Ant 0       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 824                   | 831.5                    | 839                    |                     |          |
| Frequency (MHz) |            |         |           | 164800                | 166300                   | 167800                 |                     |          |
| 20              | QPSK       | 1       | 1         | 22.82                 | 22.85                    | 22.77                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.78                 | 22.83                    | 22.80                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.84                 | 21.89                    | 21.83                  | 23.0                | 1.0      |



| n38 Ant 0       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 20.94                 | 21.20                    | 21.01                  | 22.0                | 0.0      |
| 40              | QPSK       | 50      | 28        | 20.88                 | 21.13                    | 21.01                  | 22.0                | 0.0      |
| 40              | QPSK       | 100     | 0         | 20.03                 | 20.06                    | 20.03                  | 21.0                | 1.0      |

| n41 Ant 0       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 21.02                 | 21.25                    | 21.07                  | 22.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 21.03                 | 21.22                    | 21.16                  | 22.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 20.12                 | 20.20                    | 20.19                  | 21.0                | 1.0      |



### n2 Ant 1

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 374500                | 376000                   | 378000                 |                     |          |
| Frequency (MHz) |            |         |           | 1870                  | 1880                     | 1890                   |                     |          |
| 40              | QPSK       | 1       | 1         | 22.64                 | 22.74                    | 22.64                  | 24.0                | 0.0      |
| 40              | QPSK       | 108     | 54        | 22.57                 | 22.71                    | 22.67                  | 24.0                | 0.0      |
| 40              | QPSK       | 216     | 0         | 21.59                 | 21.70                    | 21.63                  | 23.0                | 1.0      |

### n7 Ant 1

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 595000                | 597000                   | 599000                 |                     |          |
| Frequency (MHz) |            |         |           | 2925                  | 2935                     | 2945                   |                     |          |
| 50              | QPSK       | 1       | 1         | 22.46                 | 22.53                    | 22.45                  | 24.0                | 0.0      |
| 50              | QPSK       | 135     | 68        | 22.38                 | 22.44                    | 22.43                  | 24.0                | 0.0      |
| 50              | QPSK       | 270     | 0         | 21.96                 | 21.98                    | 21.92                  | 23.0                | 1.0      |

### n66 Ant 1

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 346500                | 348000                   | 350500                 |                     |          |
| Frequency (MHz) |            |         |           | 1732.5                | 1745                     | 1757.5                 |                     |          |
| 45              | QPSK       | 1       | 1         | 22.59                 | 22.80                    | 22.60                  | 24.0                | 0.0      |
| 45              | QPSK       | 120     | 60        | 22.60                 | 22.79                    | 22.67                  | 24.0                | 0.0      |
| 45              | QPSK       | 240     | 0         | 21.77                 | 21.83                    | 21.69                  | 23.0                | 1.0      |



| n38 Ant 1       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 22.49                 | 22.71                    | 22.52                  | 24.0                | 0.0      |
| 40              | QPSK       | 50      | 28        | 22.61                 | 22.65                    | 22.51                  | 24.0                | 0.0      |
| 40              | QPSK       | 100     | 0         | 21.48                 | 21.70                    | 21.58                  | 23.0                | 1.0      |

| n41 Ant 1       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 22.69                 | 22.81                    | 22.75                  | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 22.64                 | 22.75                    | 22.67                  | 24.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 21.62                 | 21.85                    | 21.47                  | 23.0                | 1.0      |



| n38 Ant 2       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 19.01                 | 19.02                    | 18.82                  | 20.0                | 0.0      |
| 40              | QPSK       | 50      | 28        | 18.77                 | 19.00                    | 18.69                  | 20.0                | 0.0      |
| 40              | QPSK       | 100     | 0         | 17.97                 | 17.98                    | 17.83                  | 19.0                | 1.0      |

| n41 Ant 2       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 19.02                 | 19.07                    | 18.80                  | 20.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 18.84                 | 18.99                    | 18.70                  | 20.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 17.98                 | 18.01                    | 17.89                  | 19.0                | 1.0      |



### n2 Ant 4

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 37500                 | 37500                    | 37500                  |                     |          |
| Frequency (MHz) |            |         |           | 1870                  | 1880                     | 1890                   |                     |          |
| 40              | QPSK       | 1       | 1         | 22.10                 | 22.14                    | 22.10                  | 24.0                | 0.0      |
| 40              | QPSK       | 108     | 54        | 22.02                 | 22.12                    | 22.09                  | 24.0                | 0.0      |
| 40              | QPSK       | 216     | 0         | 21.12                 | 21.18                    | 21.14                  | 23.0                | 1.0      |

### n26 Ant 4

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 16800                 | 16800                    | 16780                  |                     |          |
| Frequency (MHz) |            |         |           | 824                   | 831.5                    | 839                    |                     |          |
| 20              | QPSK       | 1       | 1         | 22.67                 | 22.85                    | 22.72                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.53                 | 22.62                    | 22.61                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.63                 | 21.64                    | 21.60                  | 23.0                | 1.0      |

### n5 Ant 4

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 16800                 | 16700                    | 16700                  |                     |          |
| Frequency (MHz) |            |         |           | 834                   | 836.5                    | 839                    |                     |          |
| 20              | QPSK       | 1       | 1         | 22.54                 | 22.59                    | 22.58                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.33                 | 22.52                    | 22.50                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.42                 | 21.50                    | 21.45                  | 23.0                | 1.0      |

### n66 Ant 4

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 34500                 | 34800                    | 35100                  |                     |          |
| Frequency (MHz) |            |         |           | 1725.5                | 1745                     | 1757.5                 |                     |          |
| 45              | QPSK       | 1       | 1         | 22.34                 | 22.47                    | 22.44                  | 24.0                | 0.0      |
| 45              | QPSK       | 120     | 60        | 22.35                 | 22.40                    | 22.39                  | 24.0                | 0.0      |
| 45              | QPSK       | 240     | 0         | 21.38                 | 21.43                    | 21.41                  | 23.0                | 1.0      |

### n7 Ant 4

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 50500                 | 50500                    | 50500                  |                     |          |
| Frequency (MHz) |            |         |           | 2525                  | 2535                     | 2545                   |                     |          |
| 50              | QPSK       | 1       | 1         | 21.72                 | 21.94                    | 21.76                  | 23.0                | 0.0      |
| 50              | QPSK       | 135     | 68        | 21.84                 | 21.91                    | 21.82                  | 23.0                | 0.0      |
| 50              | QPSK       | 270     | 0         | 20.84                 | 20.96                    | 20.89                  | 22.0                | 1.0      |



| n38 Ant 4       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 22.04                 | 22.28                    | 22.05                  | 24.0                | 0.0      |
| 40              | QPSK       | 50      | 28        | 22.16                 | 22.25                    | 22.18                  | 24.0                | 0.0      |
| 40              | QPSK       | 100     | 0         | 21.15                 | 21.30                    | 21.16                  | 23.0                | 1.0      |

| n41 Ant 4       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 22.11                 | 22.36                    | 22.15                  | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 22.21                 | 22.35                    | 22.19                  | 24.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 21.18                 | 21.22                    | 21.18                  | 23.0                | 1.0      |





### Part27Q n78 Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         | 23.01                 |                          |                        | 24.0                | 0.0      |
| 100             | PI/2 BPSK  | 1       | 137       | 23.02                 |                          |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 271       | 22.98                 |                          |                        |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         | 22.56                 |                          |                        | 23.5                | 0.5      |
| 100             | PI/2 BPSK  | 135     | 69        | 23.02                 |                          |                        | 24.0                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       | 22.66                 |                          |                        | 23.5                | 0.5      |
| 100             | PI/2 BPSK  | 270     | 0         | 22.59                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 1         | 23.05                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 23.01                 |                          |                        | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 23.04                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 22.08                 |                          |                        | 23.0                | 1.0      |
| 100             | QPSK       | 135     | 69        | 23.03                 |                          |                        | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 138       | 22.12                 |                          |                        | 23.0                | 1.0      |
| 100             | QPSK       | 270     | 0         | 22.11                 |                          |                        |                     |          |
| 100             | 16QAM      | 1       | 1         | 22.03                 |                          |                        | 23.0                | 1.0      |
| 100             | 64QAM      | 1       | 1         | 20.37                 |                          |                        | 21.5                | 2.5      |
| 100             | 256QAM     | 1       | 1         | 18.97                 |                          |                        | 19.5                | 4.5      |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 90              | QPSK       | 1       | 1         | 22.96                 | 23.01                    | 22.84                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 22.90                 | 22.94                    | 22.85                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 22.95                 | 22.90                    | 22.90                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 23.00                 | 22.98                    | 22.84                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 22.97                 | 22.96                    | 22.75                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 22.99                 | 22.90                    | 22.85                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 22.99                 | 22.97                    | 22.74                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
| 25              | QPSK       | 1       | 1         | 22.98                 | 22.93                    | 22.82                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 22.87                 | 22.90                    | 22.72                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 22.99                 | 22.93                    | 22.85                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | QPSK       | 1       | 1         | 22.88                 | 22.94                    | 22.72                  | 24.0                | 0.0      |



### Part27Q n78 Ant 5

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |          |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 1         |                       | 17.27                    |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 137       |                       | 17.43                    |                        | 18.5                | 0.0      |
| 100             | Pi/2 BPSK  | 1       | 271       |                       | 17.44                    |                        |                     |          |
| 100             | Pi/2 BPSK  | 135     | 0         |                       | 16.87                    |                        | 18.0                | 0.5      |
| 100             | Pi/2 BPSK  | 135     | 69        |                       | 17.38                    |                        | 18.5                | 0.0      |
| 100             | Pi/2 BPSK  | 135     | 138       |                       | 17.07                    |                        | 18.0                | 0.5      |
| 100             | Pi/2 BPSK  | 270     | 0         |                       | 16.92                    |                        |                     |          |
| 100             | QPSK       | 1       | 1         |                       | 17.56                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 17.49                    |                        | 18.5                | 0.0      |
| 100             | QPSK       | 1       | 271       |                       | 17.50                    |                        |                     |          |
| 100             | QPSK       | 135     | 0         |                       | 16.44                    |                        | 17.5                | 1.0      |
| 100             | QPSK       | 135     | 69        |                       | 17.54                    |                        | 18.5                | 0.0      |
| 100             | QPSK       | 135     | 138       |                       | 16.61                    |                        | 17.5                | 1.0      |
| 100             | QPSK       | 270     | 0         |                       | 16.46                    |                        |                     |          |
| 100             | 16QAM      | 1       | 1         |                       | 16.25                    |                        | 17.5                | 1.0      |
| 100             | 64QAM      | 1       | 1         |                       | 14.60                    |                        | 16.0                | 2.5      |
| 100             | 256QAM     | 1       | 1         |                       | 13.23                    |                        | 14.0                | 4.5      |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 90              | QPSK       | 1       | 1         | 17.38                 | 17.48                    | 17.37                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 17.36                 | 17.43                    | 17.47                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 17.39                 | 17.53                    | 17.41                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 17.40                 | 17.50                    | 17.41                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 17.39                 | 17.53                    | 17.47                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 17.42                 | 17.45                    | 17.38                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 17.38                 | 17.47                    | 17.35                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
| 25              | QPSK       | 1       | 1         | 17.40                 | 17.39                    | 17.39                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 17.51                 | 17.40                    | 17.40                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 17.48                 | 17.39                    | 17.43                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | QPSK       | 1       | 1         | 17.36                 | 17.48                    | 17.46                  | 18.5                | 0.0      |



### Part27Q n78 Ant 7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 90              | QPSK       | 1       | 1         | 17.54                 | 17.53                    | 17.56                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 17.58                 | 17.60                    | 17.44                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 17.57                 | 17.57                    | 17.53                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 17.54                 | 17.51                    | 17.48                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 17.57                 | 17.62                    | 17.43                  |                     |          |
| 50              | QPSK       | 1       | 1         | 17.58                 | 17.59                    | 17.56                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 17.49                 | 17.61                    | 17.56                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 17.49                 | 17.55                    | 17.55                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
| 25              | QPSK       | 1       | 1         | 17.53                 | 17.52                    | 17.41                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 17.60                 | 17.49                    | 17.51                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 17.48                 | 17.64                    | 17.40                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | QPSK       | 1       | 1         | 17.44                 | 17.62                    | 17.53                  | 18.5                | 0.0      |



### Part27Q n78 Ant 9

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 90              | QPSK       | 1       | 1         | 22.70                 | 22.74                    | 22.81                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 22.71                 | 22.72                    | 22.77                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 22.68                 | 22.82                    | 22.77                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 22.70                 | 22.72                    | 22.80                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 22.78                 | 22.78                    | 22.78                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 22.70                 | 22.81                    | 22.75                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 22.66                 | 22.71                    | 22.71                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
| 25              | QPSK       | 1       | 1         | 22.72                 | 22.75                    | 22.75                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 22.69                 | 22.70                    | 22.78                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 22.78                 | 22.78                    | 22.76                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | QPSK       | 1       | 1         | 22.75                 | 22.75                    | 22.70                  | 24.0                | 0.0      |



Reduced Power Mode for ECI 2

| n5 Ant 0 ECI2   |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 166800                | 167300                   | 167800                 |                     |          |
| Frequency (MHz) |            |         |           | 834                   | 836.5                    | 839                    |                     |          |
| 20              | QPSK       | 1       | 1         | 22.57                 | 22.59                    | 22.45                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.52                 | 22.53                    | 22.46                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.53                 | 21.59                    | 21.42                  | 23.0                | 1.0      |

| n26 Ant 0 ECI2  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 165800                | 166300                   | 166800                 |                     |          |
| Frequency (MHz) |            |         |           | 829                   | 831.5                    | 834                    |                     |          |
| 20              | QPSK       | 1       | 1         | 22.92                 | 22.95                    | 22.87                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.88                 | 22.93                    | 22.90                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.94                 | 21.99                    | 21.93                  | 23.0                | 1.0      |



| n38 Ant 0 ECI2  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 20.94                 | 21.20                    | 21.01                  | 22.0                | 0.0      |
| 40              | QPSK       | 50      | 28        | 20.88                 | 21.13                    | 21.01                  | 22.0                | 0.0      |
| 40              | QPSK       | 100     | 0         | 20.03                 | 20.06                    | 20.03                  | 21.0                | 1.0      |

| n41 Ant 0 ECI2  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 21.02                 | 21.25                    | 21.07                  | 22.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 21.03                 | 21.22                    | 21.16                  | 22.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 20.12                 | 20.20                    | 20.19                  | 21.0                | 1.0      |



### n2 Ant 1 ECI2

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 376500                | 376500                   | 376500                 |                     |          |
| Frequency (MHz) |            |         |           | 1870                  | 1880                     | 1880                   |                     |          |
| 40              | QPSK       | 1       | 1         | 22.64                 | 22.74                    | 22.64                  | 24.0                | 0.0      |
| 40              | QPSK       | 108     | 54        | 22.57                 | 22.71                    | 22.67                  | 24.0                | 0.0      |
| 40              | QPSK       | 216     | 0         | 21.59                 | 21.70                    | 21.63                  | 23.0                | 1.0      |

### n7 Ant 1 ECI2

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 505000                | 505000                   | 505000                 |                     |          |
| Frequency (MHz) |            |         |           | 2525                  | 2535                     | 2545                   |                     |          |
| 50              | QPSK       | 1       | 1         | 22.46                 | 22.53                    | 22.45                  | 24.0                | 0.0      |
| 50              | QPSK       | 135     | 68        | 22.48                 | 22.51                    | 22.43                  | 24.0                | 0.0      |
| 50              | QPSK       | 270     | 0         | 21.96                 | 21.98                    | 21.92                  | 23.0                | 1.0      |

### n66 Ant 1 ECI2

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 346500                | 346500                   | 346500                 |                     |          |
| Frequency (MHz) |            |         |           | 1732.5                | 1745                     | 1757.5                 |                     |          |
| 45              | QPSK       | 1       | 1         | 22.59                 | 22.80                    | 22.60                  | 24.0                | 0.0      |
| 45              | QPSK       | 120     | 60        | 22.60                 | 22.79                    | 22.67                  | 24.0                | 0.0      |
| 45              | QPSK       | 240     | 0         | 21.77                 | 21.83                    | 21.69                  | 23.0                | 1.0      |



| n38 Ant 1 ECI2  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 22.49                 | 22.71                    | 22.52                  | 24.0                | 0.0      |
| 40              | QPSK       | 50      | 28        | 22.61                 | 22.65                    | 22.51                  | 24.0                | 0.0      |
| 40              | QPSK       | 100     | 0         | 21.48                 | 21.70                    | 21.58                  | 23.0                | 1.0      |

| n41 Ant 1 ECI2  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 22.69                 | 22.81                    | 22.75                  | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 22.64                 | 22.75                    | 22.67                  | 24.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 21.62                 | 21.85                    | 21.47                  | 23.0                | 1.0      |





| n38 Ant 2 ECI2  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 18.31                 | 18.33                    | 18.17                  | 19.6                | 0.0      |
| 40              | QPSK       | 50      | 28        | 18.23                 | 18.30                    | 18.26                  | 19.6                | 0.0      |
| 40              | QPSK       | 100     | 0         | 17.77                 | 17.88                    | 17.82                  | 19.0                | 0.6      |

| n41 Ant 2 ECI2  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 18.54                 | 18.55                    | 18.33                  | 19.6                | 0.0      |
| 100             | QPSK       | 135     | 69        | 18.32                 | 18.34                    | 18.29                  | 19.6                | 0.0      |
| 100             | QPSK       | 270     | 0         | 17.96                 | 18.02                    | 17.91                  | 19.0                | 0.6      |



### n2 Ant 4 ECI2

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 374500                | 376000                   | 378000                 |                     |          |
| Frequency (MHz) |            |         |           | 1870                  | 1880                     | 1890                   |                     |          |
| 40              | QPSK       | 1       | 1         | 18.11                 | 18.22                    | 18.09                  | 19.3                | 0.0      |
| 40              | QPSK       | 108     | 54        | 18.11                 | 18.19                    | 18.16                  | 19.3                | 0.0      |
| 40              | QPSK       | 216     | 0         | 18.13                 | 18.18                    | 18.02                  | 19.3                | 0.0      |

### n26 Ant 4 ECI2

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 164800                | 163300                   | 167800                 |                     |          |
| Frequency (MHz) |            |         |           | 824                   | 831.5                    | 839                    |                     |          |
| 20              | QPSK       | 1       | 1         | 22.67                 | 22.85                    | 22.72                  | 23.8                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.53                 | 22.82                    | 22.81                  | 23.8                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.83                 | 21.64                    | 21.60                  | 23.0                | 0.8      |

### n5 Ant 4 ECI2

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 166800                | 167300                   | 167800                 |                     |          |
| Frequency (MHz) |            |         |           | 834                   | 836.5                    | 839                    |                     |          |
| 20              | QPSK       | 1       | 1         | 22.54                 | 22.59                    | 22.58                  | 23.8                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.33                 | 22.52                    | 22.50                  | 23.8                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.42                 | 21.58                    | 21.45                  | 23.0                | 0.8      |

### n66 Ant 4 ECI2

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 346500                | 349000                   | 351500                 |                     |          |
| Frequency (MHz) |            |         |           | 1732.5                | 1745                     | 1757.5                 |                     |          |
| 45              | QPSK       | 1       | 1         | 17.91                 | 18.02                    | 17.92                  | 19.0                | 0.0      |
| 45              | QPSK       | 120     | 60        | 17.75                 | 17.98                    | 17.87                  | 19.0                | 0.0      |
| 45              | QPSK       | 240     | 0         | 17.92                 | 17.94                    | 17.91                  | 19.0                | 0.0      |

### n7 Ant 4 ECI2

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 509500                | 509000                   | 509000                 |                     |          |
| Frequency (MHz) |            |         |           | 2525                  | 2535                     | 2545                   |                     |          |
| 50              | QPSK       | 1       | 1         | 18.38                 | 18.46                    | 18.37                  | 19.4                | 0.0      |
| 50              | QPSK       | 135     | 68        | 18.40                 | 18.45                    | 18.33                  | 19.4                | 0.0      |
| 50              | QPSK       | 270     | 0         | 18.29                 | 18.39                    | 18.38                  | 19.4                | 0.0      |



| n38 Ant 4 ECI2  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 18.66                 | 18.79                    | 18.77                  | 19.7                | 0.0      |
| 40              | QPSK       | 50      | 28        | 18.66                 | 18.77                    | 18.68                  | 19.7                | 0.0      |
| 40              | QPSK       | 100     | 0         | 18.70                 | 18.74                    | 18.60                  | 19.7                | 0.0      |

| n41 Ant 4 ECI2  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 18.73                 | 18.87                    | 18.81                  | 19.7                | 0.0      |
| 100             | QPSK       | 135     | 69        | 18.77                 | 18.83                    | 18.80                  | 19.7                | 0.0      |
| 100             | QPSK       | 270     | 0         | 18.72                 | 18.76                    | 18.67                  | 19.7                | 0.0      |



## Part27Q n78 Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 1         |                       | 3499.98                  |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 137       |                       | 14.51                    |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 271       |                       | 14.50                    |                        | 15.7                | 0.0      |
| 100             | Pi/2 BPSK  | 135     | 0         |                       | 14.52                    |                        |                     |          |
| 100             | Pi/2 BPSK  | 135     | 69        |                       | 14.39                    |                        | 15.7                | 0.0      |
| 100             | Pi/2 BPSK  | 135     | 138       |                       | 14.60                    |                        | 15.7                | 0.0      |
| 100             | Pi/2 BPSK  | 270     | 0         |                       | 14.55                    |                        | 15.7                | 0.0      |
| 100             | QPSK       | 1       | 1         |                       | 14.39                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 14.61                    |                        |                     |          |
| 100             | QPSK       | 1       | 271       |                       | 14.30                    |                        | 15.7                | 0.0      |
| 100             | QPSK       | 135     | 0         |                       | 14.33                    |                        |                     |          |
| 100             | QPSK       | 135     | 69        |                       | 14.48                    |                        | 15.7                | 0.0      |
| 100             | QPSK       | 135     | 138       |                       | 14.59                    |                        | 15.7                | 0.0      |
| 100             | QPSK       | 270     | 0         |                       | 14.39                    |                        | 15.7                | 0.0      |
| 100             | QPSK       | 1       | 1         |                       | 14.56                    |                        |                     |          |
| 100             | 16QAM      | 1       | 1         |                       | 14.46                    |                        | 15.7                | 0.0      |
| 100             | 64QAM      | 1       | 1         |                       | 14.50                    |                        | 15.7                | 0.0      |
| 100             | 256QAM     | 1       | 1         |                       | 14.40                    |                        | 15.7                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 90              | QPSK       | 1       | 1         | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
|                 |            |         |           | 14.54                 | 14.55                    | 14.38                  | 15.7                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 80              | QPSK       | 1       | 1         | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
|                 |            |         |           | 14.45                 | 14.57                    | 14.42                  | 15.7                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 70              | QPSK       | 1       | 1         | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
|                 |            |         |           | 14.45                 | 14.51                    | 14.34                  | 15.7                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 60              | QPSK       | 1       | 1         | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
|                 |            |         |           | 14.48                 | 14.45                    | 14.46                  | 15.7                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 50              | QPSK       | 1       | 1         | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
|                 |            |         |           | 14.47                 | 14.50                    | 14.40                  | 15.7                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 40              | QPSK       | 1       | 1         | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
|                 |            |         |           | 14.43                 | 14.53                    | 14.47                  | 15.7                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 30              | QPSK       | 1       | 1         | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
|                 |            |         |           | 14.47                 | 14.47                    | 14.39                  | 15.7                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 25              | QPSK       | 1       | 1         | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
|                 |            |         |           | 14.47                 | 14.53                    | 14.42                  | 15.7                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 20              | QPSK       | 1       | 1         | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
|                 |            |         |           | 14.50                 | 14.55                    | 14.35                  | 15.7                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 15              | QPSK       | 1       | 1         | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
|                 |            |         |           | 14.53                 | 14.46                    | 14.35                  | 15.7                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 10              | QPSK       | 1       | 1         | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
|                 |            |         |           | 14.42                 | 14.53                    | 14.33                  | 15.7                | 0.0      |



## Part27Q n78 Ant 5

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 1         |                       | 3499.98                  |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 137       |                       | 15.92                    |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 271       |                       | 15.81                    |                        | 17.1                | 0.0      |
| 100             | Pi/2 BPSK  | 135     | 0         |                       | 15.90                    |                        |                     |          |
| 100             | Pi/2 BPSK  | 135     | 69        |                       | 15.90                    |                        | 17.1                | 0.0      |
| 100             | Pi/2 BPSK  | 135     | 138       |                       | 15.82                    |                        | 17.1                | 0.0      |
| 100             | Pi/2 BPSK  | 270     | 0         |                       | 15.82                    |                        | 17.1                | 0.0      |
| 100             | QPSK       | 1       | 1         |                       | 16.12                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 16.11                    |                        | 17.1                | 0.0      |
| 100             | QPSK       | 1       | 271       |                       | 15.84                    |                        |                     |          |
| 100             | QPSK       | 135     | 0         |                       | 16.03                    |                        | 17.1                | 0.0      |
| 100             | QPSK       | 135     | 69        |                       | 16.03                    |                        | 17.1                | 0.0      |
| 100             | QPSK       | 135     | 138       |                       | 15.99                    |                        | 17.1                | 0.0      |
| 100             | QPSK       | 270     | 0         |                       | 16.08                    |                        | 17.1                | 0.0      |
| 100             | 16QAM      | 1       | 1         |                       | 15.89                    |                        | 17.1                | 0.0      |
| 100             | 64QAM      | 1       | 1         |                       | 14.60                    |                        | 16.0                | 1.1      |
| 100             | 256QAM     | 1       | 1         |                       | 13.23                    |                        | 14.0                | 3.1      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 90              | QPSK       | 1       | 1         | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
|                 |            |         |           | 15.92                 | 16.08                    | 16.03                  | 17.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 80              | QPSK       | 1       | 1         | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
|                 |            |         |           | 15.89                 | 16.08                    | 16.06                  | 17.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 70              | QPSK       | 1       | 1         | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
|                 |            |         |           | 15.84                 | 15.98                    | 16.05                  | 17.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 60              | QPSK       | 1       | 1         | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
|                 |            |         |           | 15.95                 | 16.04                    | 16.03                  | 17.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 50              | QPSK       | 1       | 1         | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
|                 |            |         |           | 15.96                 | 15.95                    | 16.06                  | 17.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 40              | QPSK       | 1       | 1         | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
|                 |            |         |           | 16.03                 | 16.07                    | 16.00                  | 17.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 30              | QPSK       | 1       | 1         | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
|                 |            |         |           | 15.93                 | 15.94                    | 16.00                  | 17.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 25              | QPSK       | 1       | 1         | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
|                 |            |         |           | 16.01                 | 15.95                    | 16.04                  | 17.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 20              | QPSK       | 1       | 1         | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
|                 |            |         |           | 15.97                 | 16.08                    | 15.97                  | 17.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 15              | QPSK       | 1       | 1         | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
|                 |            |         |           | 16.02                 | 16.08                    | 16.02                  | 17.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 10              | QPSK       | 1       | 1         | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
|                 |            |         |           | 16.02                 | 15.97                    | 15.92                  | 17.1                | 0.0      |



### Part27Q n78 Ant 7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 1         |                       | 17.42                    |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 137       |                       | 17.41                    |                        | 18.5                | 0.0      |
| 100             | Pi/2 BPSK  | 1       | 271       |                       | 17.62                    |                        |                     |          |
| 100             | Pi/2 BPSK  | 135     | 0         |                       | 16.86                    |                        | 18.0                | 0.5      |
| 100             | Pi/2 BPSK  | 135     | 69        |                       | 17.45                    |                        | 18.5                | 0.0      |
| 100             | Pi/2 BPSK  | 135     | 138       |                       | 17.07                    |                        | 18.0                | 0.5      |
| 100             | Pi/2 BPSK  | 270     | 0         |                       | 17.01                    |                        |                     |          |
| 100             | QPSK       | 1       | 1         |                       | 17.67                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 17.45                    |                        | 18.5                | 0.0      |
| 100             | QPSK       | 1       | 271       |                       | 17.63                    |                        |                     |          |
| 100             | QPSK       | 135     | 0         |                       | 16.47                    |                        | 17.5                | 1.0      |
| 100             | QPSK       | 135     | 69        |                       | 17.59                    |                        | 18.5                | 0.0      |
| 100             | QPSK       | 135     | 138       |                       | 16.53                    |                        |                     |          |
| 100             | QPSK       | 270     | 0         |                       | 16.49                    |                        | 17.5                | 1.0      |
| 100             | 16QAM      | 1       | 1         |                       | 16.30                    |                        | 17.5                | 1.0      |
| 100             | 64QAM      | 1       | 1         |                       | 14.60                    |                        | 16.0                | 2.5      |
| 100             | 256QAM     | 1       | 1         |                       | 12.99                    |                        | 14.0                | 4.5      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 90              | QPSK       | 1       | 1         | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
|                 |            |         |           | 17.54                 | 17.53                    | 17.56                  | 18.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 80              | QPSK       | 1       | 1         | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
|                 |            |         |           | 17.58                 | 17.60                    | 17.44                  | 18.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 70              | QPSK       | 1       | 1         | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
|                 |            |         |           | 17.57                 | 17.57                    | 17.53                  | 18.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 60              | QPSK       | 1       | 1         | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
|                 |            |         |           | 17.54                 | 17.51                    | 17.48                  | 18.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 50              | QPSK       | 1       | 1         | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
|                 |            |         |           | 17.57                 | 17.62                    | 17.43                  | 18.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 40              | QPSK       | 1       | 1         | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
|                 |            |         |           | 17.49                 | 17.61                    | 17.56                  | 18.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 30              | QPSK       | 1       | 1         | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
|                 |            |         |           | 17.49                 | 17.55                    | 17.55                  | 18.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 25              | QPSK       | 1       | 1         | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
|                 |            |         |           | 17.53                 | 17.52                    | 17.41                  | 18.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 20              | QPSK       | 1       | 1         | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
|                 |            |         |           | 17.60                 | 17.49                    | 17.51                  | 18.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 15              | QPSK       | 1       | 1         | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
|                 |            |         |           | 17.48                 | 17.64                    | 17.40                  | 18.5                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 10              | QPSK       | 1       | 1         | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
|                 |            |         |           | 17.44                 | 17.62                    | 17.53                  | 18.5                | 0.0      |

|      |        |      |       |        |
|------|--------|------|-------|--------|
| 3450 | 600000 | NREF | 0.015 | Fgloba |
| 3550 | 3000   | FREF |       |        |

Raster  
15  
30

| BW [MHz]        | Modulation | RB Size | RB Offset | F <sub>lower</sub> | F <sub>center</sub> | F <sub>upper</sub> | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|--------------------|---------------------|--------------------|---------------------|----------|
| Channel         |            |         |           |                    |                     |                    |                     |          |
| Frequency (MHz) |            |         |           |                    |                     |                    |                     |          |
| 100             | QPSK       | 0       | 0         | 633333             | 633333              | 633333             | 18.5                | 0.0      |
| Channel         |            |         |           |                    |                     |                    |                     |          |
| Frequency (MHz) |            |         |           |                    |                     |                    |                     |          |
| 90              | QPSK       | 0       | 0         | 633000             | 633333              | 633667             | 18.5                | 0.0      |
| Channel         |            |         |           |                    |                     |                    |                     |          |
| Frequency (MHz) |            |         |           |                    |                     |                    |                     |          |
| 80              | QPSK       | 0       | 0         | 632667             | 633333              | 634000             | 18.5                | 0.0      |
| Channel         |            |         |           |                    |                     |                    |                     |          |
| Frequency (MHz) |            |         |           |                    |                     |                    |                     |          |
| 70              | QPSK       | 0       | 0         | 632333             | 633333              | 634333             | 18.5                | 0.0      |
| Channel         |            |         |           |                    |                     |                    |                     |          |
| Frequency (MHz) |            |         |           |                    |                     |                    |                     |          |
| 60              | QPSK       | 0       | 0         | 632000             | 633333              | 634667             | 18.5                | 0.0      |
| Channel         |            |         |           |                    |                     |                    |                     |          |
| Frequency (MHz) |            |         |           |                    |                     |                    |                     |          |
| 50              | QPSK       | 0       | 0         | 631667             | 633333              | 635000             | 18.5                | 0.0      |
| Channel         |            |         |           |                    |                     |                    |                     |          |
| Frequency (MHz) |            |         |           |                    |                     |                    |                     |          |
| 40              | QPSK       | 0       | 0         | 631333             | 633333              | 635333             | 18.5                | 0.0      |
| Channel         |            |         |           |                    |                     |                    |                     |          |
| Frequency (MHz) |            |         |           |                    |                     |                    |                     |          |
| 30              | QPSK       | 0       | 0         | 631000             | 633333              | 635667             | 18.5                | 0.0      |
| Channel         |            |         |           |                    |                     |                    |                     |          |
| Frequency (MHz) |            |         |           |                    |                     |                    |                     |          |
| 25              | QPSK       | 0       | 0         | 630833             | 633333              | 635833             | 18.5                | 0.0      |
| Channel         |            |         |           |                    |                     |                    |                     |          |
| Frequency (MHz) |            |         |           |                    |                     |                    |                     |          |
| 20              | QPSK       | 0       | 0         | 630667             | 633333              | 636000             | 18.5                | 0.0      |
| Channel         |            |         |           |                    |                     |                    |                     |          |
| Frequency (MHz) |            |         |           |                    |                     |                    |                     |          |
| 15              | QPSK       | 0       | 0         | 630500             | 633333              | 636167             | 18.5                | 0.0      |
| Channel         |            |         |           |                    |                     |                    |                     |          |
| Frequency (MHz) |            |         |           |                    |                     |                    |                     |          |
| 10              | QPSK       | 0       | 0         | 630333             | 633333              | 636333             | 18.5                | 0.0      |



### Part27Q n78 Ant 9

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         | 22.70                 | 22.81                    | 22.81                  | 24.0                | 0.0      |
| 100             | PI/2 BPSK  | 1       | 137       | 22.63                 | 22.81                    | 22.81                  | 24.0                | 0.0      |
| 100             | PI/2 BPSK  | 1       | 271       | 22.83                 | 22.81                    | 22.81                  | 24.0                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 0         | 22.04                 | 22.81                    | 22.81                  | 23.5                | 0.5      |
| 100             | PI/2 BPSK  | 135     | 69        | 22.62                 | 22.81                    | 22.81                  | 24.0                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       | 22.27                 | 22.81                    | 22.81                  | 23.5                | 0.5      |
| 100             | PI/2 BPSK  | 270     | 0         | 22.22                 | 22.81                    | 22.81                  | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 1         | 22.87                 | 22.81                    | 22.81                  | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 137       | 22.63                 | 22.81                    | 22.81                  | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 22.81                 | 22.81                    | 22.81                  | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 0         | 21.99                 | 22.81                    | 22.81                  | 23.0                | 1.0      |
| 100             | QPSK       | 135     | 69        | 22.72                 | 22.81                    | 22.81                  | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 138       | 21.85                 | 22.81                    | 22.81                  | 23.0                | 1.0      |
| 100             | QPSK       | 270     | 0         | 21.71                 | 22.81                    | 22.81                  | 23.0                | 1.0      |
| 100             | 16QAM      | 1       | 1         | 21.68                 | 22.81                    | 22.81                  | 23.0                | 1.0      |
| 100             | 64QAM      | 1       | 1         | 20.08                 | 22.81                    | 22.81                  | 21.5                | 2.5      |
| 100             | 256QAM     | 1       | 1         | 18.38                 | 22.81                    | 22.81                  | 19.5                | 4.5      |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 90              | QPSK       | 1       | 1         | 22.70                 | 22.74                    | 22.81                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 22.71                 | 22.72                    | 22.77                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 22.68                 | 22.82                    | 22.77                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 22.70                 | 22.72                    | 22.80                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 22.78                 | 22.78                    | 22.78                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 22.70                 | 22.81                    | 22.75                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 22.66                 | 22.71                    | 22.71                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
| 25              | QPSK       | 1       | 1         | 22.72                 | 22.75                    | 22.75                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 22.69                 | 22.70                    | 22.78                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 22.78                 | 22.78                    | 22.76                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | QPSK       | 1       | 1         | 22.75                 | 22.75                    | 22.70                  | 24.0                | 0.0      |



Reduced Power Mode for ECI 3

| n5 Ant 0 ECI3   |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 834                   | 836.5                    | 839                    |                     |          |
| Frequency (MHz) |            |         |           | 166800                | 167300                   | 167800                 |                     |          |
| 20              | QPSK       | 1       | 1         | 22.57                 | 22.59                    | 22.45                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.52                 | 22.53                    | 22.46                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.53                 | 21.59                    | 21.42                  | 23.0                | 1.0      |

| n26 Ant 0 ECI3  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 824                   | 831.5                    | 839                    |                     |          |
| Frequency (MHz) |            |         |           | 164800                | 166300                   | 167800                 |                     |          |
| 20              | QPSK       | 1       | 1         | 22.82                 | 22.85                    | 22.77                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.78                 | 22.83                    | 22.80                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.84                 | 21.89                    | 21.83                  | 23.0                | 1.0      |





| n38 Ant 0 ECI3  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 20.94                 | 21.20                    | 21.01                  | 22.0                | 0.0      |
| 40              | QPSK       | 50      | 28        | 20.88                 | 21.13                    | 21.01                  | 22.0                | 0.0      |
| 40              | QPSK       | 100     | 0         | 20.03                 | 20.06                    | 20.03                  | 21.0                | 1.0      |

| n41 Ant 0 ECI3  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 21.02                 | 21.25                    | 21.07                  | 22.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 21.03                 | 21.22                    | 21.16                  | 22.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 20.12                 | 20.20                    | 20.19                  | 21.0                | 1.0      |



### n2 Ant 1 ECI3

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 374500                | 376000                   | 378000                 |                     |          |
| Frequency (MHz) |            |         |           | 1870                  | 1880                     | 1890                   |                     |          |
| 40              | QPSK       | 1       | 1         | 22.20                 | 22.30                    | 22.17                  | 23.3                | 0.0      |
| 40              | QPSK       | 108     | 54        | 22.17                 | 22.27                    | 22.25                  | 23.3                | 0.0      |
| 40              | QPSK       | 216     | 0         | 21.73                 | 21.77                    | 21.74                  | 23.0                | 0.3      |

### n7 Ant 1 ECI3

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 595000                | 597000                   | 599000                 |                     |          |
| Frequency (MHz) |            |         |           | 2925                  | 2935                     | 2945                   |                     |          |
| 50              | QPSK       | 1       | 1         | 21.57                 | 21.64                    | 21.53                  | 22.6                | 0.0      |
| 50              | QPSK       | 135     | 68        | 21.53                 | 21.61                    | 21.57                  | 22.6                | 0.0      |
| 50              | QPSK       | 270     | 0         | 21.51                 | 21.57                    | 21.53                  | 22.6                | 0.0      |

### n66 Ant 1 ECI3

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 346500                | 348000                   | 351500                 |                     |          |
| Frequency (MHz) |            |         |           | 1732.5                | 1745                     | 1757.5                 |                     |          |
| 45              | QPSK       | 1       | 1         | 21.76                 | 21.84                    | 21.75                  | 22.9                | 0.0      |
| 45              | QPSK       | 120     | 60        | 21.70                 | 21.83                    | 21.75                  | 22.9                | 0.0      |
| 45              | QPSK       | 240     | 0         | 21.72                 | 21.74                    | 21.70                  | 22.9                | 0.0      |



| n38 Ant 1 ECI3  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 21.59                 | 21.73                    | 21.49                  | 23.1                | 0.0      |
| 40              | QPSK       | 50      | 28        | 21.50                 | 21.69                    | 21.55                  | 23.1                | 0.0      |
| 40              | QPSK       | 100     | 0         | 21.53                 | 21.66                    | 21.59                  | 23.0                | 0.1      |

| n41 Ant 1 ECI3  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 21.78                 | 21.96                    | 21.72                  | 23.1                | 0.0      |
| 100             | QPSK       | 135     | 69        | 21.73                 | 21.95                    | 21.71                  | 23.1                | 0.0      |
| 100             | QPSK       | 270     | 0         | 21.67                 | 21.83                    | 21.70                  | 23.0                | 0.1      |



| n38 Ant 2 ECI3  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 19.01                 | 19.02                    | 18.82                  | 20.0                | 0.0      |
| 40              | QPSK       | 50      | 28        | 18.77                 | 19.00                    | 18.69                  | 20.0                | 0.0      |
| 40              | QPSK       | 100     | 0         | 17.97                 | 17.98                    | 17.83                  | 19.0                | 1.0      |

| n41 Ant 2 ECI3  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 19.02                 | 19.07                    | 18.80                  | 20.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 18.84                 | 18.99                    | 18.70                  | 20.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 17.98                 | 18.01                    | 17.89                  | 19.0                | 1.0      |



### n2 Ant 4 ECI3

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 374500                | 376000                   | 378000                 |                     |          |
| Frequency (MHz) |            |         |           | 1870                  | 1880                     | 1890                   |                     |          |
| 40              | QPSK       | 1       | 1         | 18.08                 | 18.17                    | 18.13                  | 19.1                | 0.0      |
| 40              | QPSK       | 108     | 54        | 18.03                 | 18.16                    | 18.05                  | 19.1                | 0.0      |
| 40              | QPSK       | 216     | 0         | 18.04                 | 18.13                    | 18.06                  | 19.1                | 0.0      |

### n26 Ant 4 ECI3

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 164800                | 163300                   | 167800                 |                     |          |
| Frequency (MHz) |            |         |           | 824                   | 831.5                    | 839                    |                     |          |
| 20              | QPSK       | 1       | 1         | 22.67                 | 22.85                    | 22.72                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.53                 | 22.62                    | 22.61                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.83                 | 21.64                    | 21.60                  | 23.0                | 1.0      |

### n5 Ant 4 ECI3

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 166800                | 167300                   | 167800                 |                     |          |
| Frequency (MHz) |            |         |           | 834                   | 836.5                    | 839                    |                     |          |
| 20              | QPSK       | 1       | 1         | 22.54                 | 22.59                    | 22.58                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.33                 | 22.52                    | 22.50                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.42                 | 21.58                    | 21.45                  | 23.0                | 1.0      |

### n66 Ant 4 ECI3

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 346500                | 349000                   | 351500                 |                     |          |
| Frequency (MHz) |            |         |           | 1732.5                | 1745                     | 1757.5                 |                     |          |
| 45              | QPSK       | 1       | 1         | 17.80                 | 18.01                    | 17.86                  | 19.0                | 0.0      |
| 45              | QPSK       | 120     | 60        | 17.85                 | 17.98                    | 17.89                  | 19.0                | 0.0      |
| 45              | QPSK       | 240     | 0         | 17.88                 | 17.93                    | 17.87                  | 19.0                | 0.0      |

### n7 Ant 4 ECI3

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 509500                | 509000                   | 509000                 |                     |          |
| Frequency (MHz) |            |         |           | 2525                  | 2535                     | 2545                   |                     |          |
| 50              | QPSK       | 1       | 1         | 17.83                 | 17.98                    | 17.83                  | 18.9                | 0.0      |
| 50              | QPSK       | 135     | 68        | 17.83                 | 17.91                    | 17.83                  | 18.9                | 0.0      |
| 50              | QPSK       | 270     | 0         | 17.79                 | 17.85                    | 17.83                  | 18.9                | 0.0      |



| n38 Ant 4 ECI3  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 17.65                 | 17.76                    | 17.54                  | 18.9                | 0.0      |
| 40              | QPSK       | 50      | 28        | 17.61                 | 17.73                    | 17.60                  | 18.9                | 0.0      |
| 40              | QPSK       | 100     | 0         | 17.70                 | 17.71                    | 17.67                  | 18.9                | 0.0      |

| n41 Ant 4 ECI3  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 17.82                 | 17.91                    | 17.84                  | 18.9                | 0.0      |
| 100             | QPSK       | 135     | 69        | 17.80                 | 17.88                    | 17.78                  | 18.9                | 0.0      |
| 100             | QPSK       | 270     | 0         | 17.81                 | 17.85                    | 17.68                  | 18.9                | 0.0      |



## Part27Q n78 Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 1         |                       | 3499.98                  |                        |                     |          |
|                 |            |         |           |                       | 17.37                    |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 137       |                       | 17.38                    |                        | 18.4                | 0.0      |
| 100             | Pi/2 BPSK  | 1       | 271       |                       | 17.51                    |                        |                     |          |
| 100             | Pi/2 BPSK  | 135     | 0         |                       | 17.36                    |                        | 18.4                | 0.0      |
| 100             | Pi/2 BPSK  | 135     | 69        |                       | 17.47                    |                        | 18.4                | 0.0      |
| 100             | Pi/2 BPSK  | 135     | 138       |                       | 17.46                    |                        | 18.4                | 0.0      |
| 100             | Pi/2 BPSK  | 270     | 0         |                       | 17.51                    |                        |                     |          |
|                 |            |         |           |                       | 17.56                    |                        |                     |          |
| 100             | QPSK       | 1       | 1         |                       | 17.52                    |                        | 18.4                | 0.0      |
| 100             | QPSK       | 1       | 137       |                       | 17.53                    |                        |                     |          |
| 100             | QPSK       | 1       | 271       |                       | 17.51                    |                        | 18.4                | 0.0      |
| 100             | QPSK       | 135     | 0         |                       | 17.51                    |                        | 18.4                | 0.0      |
| 100             | QPSK       | 135     | 69        |                       | 17.54                    |                        | 18.4                | 0.0      |
| 100             | QPSK       | 135     | 138       |                       | 17.36                    |                        | 18.4                | 0.0      |
| 100             | QPSK       | 270     | 0         |                       | 17.49                    |                        | 18.4                | 0.0      |
| 100             | 16QAM      | 1       | 1         |                       | 17.42                    |                        | 18.4                | 0.0      |
| 100             | 64QAM      | 1       | 1         |                       | 17.51                    |                        | 18.4                | 0.0      |
| 100             | 256QAM     | 1       | 1         |                       | 17.40                    |                        | 18.4                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
|                 |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 90              | QPSK       | 1       | 1         | 17.44                 | 17.52                    | 17.48                  | 18.4                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
|                 |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 17.26                 | 17.41                    | 17.28                  | 18.4                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
|                 |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 17.34                 | 17.44                    | 17.38                  | 18.4                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
|                 |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 17.26                 | 17.48                    | 17.49                  | 18.4                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
|                 |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 17.46                 | 17.36                    | 17.29                  | 18.4                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
|                 |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 17.34                 | 17.38                    | 17.41                  | 18.4                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
|                 |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 17.25                 | 17.50                    | 17.30                  | 18.4                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
|                 |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
| 25              | QPSK       | 1       | 1         | 17.41                 | 17.53                    | 17.43                  | 18.4                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
|                 |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 17.31                 | 17.46                    | 17.45                  | 18.4                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
|                 |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 17.45                 | 17.53                    | 17.51                  | 18.4                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
|                 |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | QPSK       | 1       | 1         | 17.46                 | 17.35                    | 17.42                  | 18.4                | 0.0      |



## Part27Q n78 Ant 5

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633000                | 633332                   | 633666                 |                     |          |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         | 15.49                 |                          |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 137       | 15.50                 |                          |                        | 16.8                | 0.0      |
| 100             | PI/2 BPSK  | 1       | 271       | 15.42                 |                          |                        |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         | 15.33                 |                          |                        | 16.8                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 69        | 15.39                 |                          |                        | 16.8                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       | 15.40                 |                          |                        | 16.8                | 0.0      |
| 100             | PI/2 BPSK  | 270     | 0         | 15.40                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 1         | 15.58                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 15.45                 |                          |                        | 16.8                | 0.0      |
| 100             | QPSK       | 1       | 271       | 15.52                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 15.62                 |                          |                        | 16.8                | 0.0      |
| 100             | QPSK       | 135     | 69        | 15.56                 |                          |                        | 16.8                | 0.0      |
| 100             | QPSK       | 135     | 138       | 15.37                 |                          |                        | 16.8                | 0.0      |
| 100             | QPSK       | 270     | 0         | 15.47                 |                          |                        |                     |          |
| 100             | 16QAM      | 1       | 1         | 15.42                 |                          |                        | 16.8                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 14.60                 |                          |                        | 16.0                | 0.8      |
| 100             | 256QAM     | 1       | 1         | 13.23                 |                          |                        | 14.0                | 2.8      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 |                     |          |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 15.33                 | 15.56                    | 15.36                  | 16.8                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 |                     |          |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 15.40                 | 15.40                    | 15.29                  | 16.8                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 |                     |          |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 15.30                 | 15.52                    | 15.49                  | 16.8                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 |                     |          |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 15.46                 | 15.48                    | 15.41                  | 16.8                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 |                     |          |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 15.37                 | 15.56                    | 15.32                  | 16.8                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 |                     |          |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 15.24                 | 15.57                    | 15.43                  | 16.8                | 0.0      |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 |                     |          |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
| 25              | QPSK       | 1       | 1         | 15.26                 | 15.49                    | 15.44                  | 16.8                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 |                     |          |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 15.39                 | 15.37                    | 15.45                  | 16.8                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 |                     |          |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 15.33                 | 15.57                    | 15.34                  | 16.8                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 |                     |          |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | QPSK       | 1       | 1         | 15.23                 | 15.43                    | 15.38                  | 16.8                | 0.0      |





### Part27Q n78 Ant 7 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633000                | 633332                   | 633666                 |                     |          |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         | 17.42                 |                          |                        | 18.5                | 0.0      |
| 100             | PI/2 BPSK  | 1       | 137       | 17.41                 |                          |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 271       | 17.62                 |                          |                        |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         | 16.86                 |                          |                        | 18.0                | 0.5      |
| 100             | PI/2 BPSK  | 135     | 69        | 17.45                 |                          |                        | 18.5                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       | 17.07                 |                          |                        | 18.0                | 0.5      |
| 100             | PI/2 BPSK  | 270     | 0         | 17.01                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 1         | 17.67                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 17.45                 |                          |                        | 18.5                | 0.0      |
| 100             | QPSK       | 1       | 271       | 17.63                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 16.47                 |                          |                        | 17.5                | 1.0      |
| 100             | QPSK       | 135     | 69        | 17.59                 |                          |                        | 18.5                | 0.0      |
| 100             | QPSK       | 135     | 138       | 16.53                 |                          |                        |                     |          |
| 100             | QPSK       | 270     | 0         | 16.49                 |                          |                        | 17.5                | 1.0      |
| 100             | 16QAM      | 1       | 1         | 16.30                 |                          |                        | 17.5                | 1.0      |
| 100             | 64QAM      | 1       | 1         | 14.60                 |                          |                        | 16.0                | 2.5      |
| 100             | 256QAM     | 1       | 1         | 12.99                 |                          |                        | 14.0                | 4.5      |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 |                     |          |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 90              | QPSK       | 1       | 1         | 17.54                 | 17.53                    | 17.56                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 |                     |          |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 17.58                 | 17.60                    | 17.44                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 |                     |          |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 17.57                 | 17.57                    | 17.53                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634668                 |                     |          |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 17.54                 | 17.51                    | 17.48                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 |                     |          |
| Frequency (MHz) |            |         |           | 17.57                 | 17.62                    | 17.43                  |                     |          |
| 50              | QPSK       | 1       | 1         | 17.58                 | 17.59                    | 17.56                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 |                     |          |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 17.49                 | 17.61                    | 17.56                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 |                     |          |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 17.49                 | 17.55                    | 17.55                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 |                     |          |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
| 25              | QPSK       | 1       | 1         | 17.53                 | 17.52                    | 17.41                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 |                     |          |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 17.60                 | 17.49                    | 17.51                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 |                     |          |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 17.48                 | 17.64                    | 17.40                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 |                     |          |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | QPSK       | 1       | 1         | 17.44                 | 17.62                    | 17.53                  | 18.5                | 0.0      |



### Part27Q n78 Ant 9 ECI3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         | 22.70                 | 22.81                    | 22.81                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 22.71                 | 22.72                    | 22.77                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 22.68                 | 22.82                    | 22.77                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 22.70                 | 22.72                    | 22.80                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 22.78                 | 22.78                    | 22.78                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 22.70                 | 22.81                    | 22.75                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 22.66                 | 22.71                    | 22.71                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
| 25              | QPSK       | 1       | 1         | 22.72                 | 22.75                    | 22.75                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 22.69                 | 22.70                    | 22.78                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 22.78                 | 22.78                    | 22.76                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | QPSK       | 1       | 1         | 22.75                 | 22.75                    | 22.70                  | 24.0                | 0.0      |



Reduced Power Mode for ECI 4

| n5 Ant 0 ECI4   |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 834                   | 836.5                    | 839                    |                     |          |
| Frequency (MHz) |            |         |           | 166800                | 167300                   | 167800                 |                     |          |
| 20              | QPSK       | 1       | 1         | 22.57                 | 22.59                    | 22.45                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.52                 | 22.53                    | 22.46                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.53                 | 21.59                    | 21.42                  | 23.0                | 1.0      |

| n26 Ant 0 ECI4  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 824                   | 831.5                    | 839                    |                     |          |
| Frequency (MHz) |            |         |           | 164800                | 166300                   | 167800                 |                     |          |
| 20              | QPSK       | 1       | 1         | 22.82                 | 22.85                    | 22.77                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.78                 | 22.83                    | 22.80                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.84                 | 21.89                    | 21.83                  | 23.0                | 1.0      |



| n38 Ant 0 ECI4  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 20.94                 | 21.20                    | 21.01                  | 22.0                | 0.0      |
| 40              | QPSK       | 50      | 28        | 20.88                 | 21.13                    | 21.01                  | 22.0                | 0.0      |
| 40              | QPSK       | 100     | 0         | 20.03                 | 20.06                    | 20.03                  | 21.0                | 1.0      |

| n41 Ant 0 ECI4  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 21.02                 | 21.25                    | 21.07                  | 22.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 21.03                 | 21.22                    | 21.16                  | 22.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 20.12                 | 20.20                    | 20.19                  | 21.0                | 1.0      |



### n2 Ant 1 ECI4

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 376500                | 376500                   | 376500                 |                     |          |
| Frequency (MHz) |            |         |           | 1870                  | 1880                     | 1880                   |                     |          |
| 40              | QPSK       | 1       | 1         | 22.64                 | 22.74                    | 22.64                  | 24.0                | 0.0      |
| 40              | QPSK       | 108     | 54        | 22.57                 | 22.71                    | 22.67                  | 24.0                | 0.0      |
| 40              | QPSK       | 216     | 0         | 21.59                 | 21.70                    | 21.63                  | 23.0                | 1.0      |

### n7 Ant 1 ECI4

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 505000                | 505000                   | 505000                 |                     |          |
| Frequency (MHz) |            |         |           | 2525                  | 2535                     | 2545                   |                     |          |
| 50              | QPSK       | 1       | 1         | 22.46                 | 22.53                    | 22.45                  | 24.0                | 0.0      |
| 50              | QPSK       | 135     | 68        | 22.38                 | 22.44                    | 22.43                  | 24.0                | 0.0      |
| 50              | QPSK       | 270     | 0         | 21.96                 | 21.98                    | 21.92                  | 23.0                | 1.0      |

### n66 Ant 1 ECI4

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 346500                | 346500                   | 346500                 |                     |          |
| Frequency (MHz) |            |         |           | 1732.5                | 1745                     | 1757.5                 |                     |          |
| 45              | QPSK       | 1       | 1         | 22.59                 | 22.80                    | 22.60                  | 24.0                | 0.0      |
| 45              | QPSK       | 120     | 60        | 22.60                 | 22.79                    | 22.67                  | 24.0                | 0.0      |
| 45              | QPSK       | 240     | 0         | 21.77                 | 21.83                    | 21.69                  | 23.0                | 1.0      |



| n38 Ant 1 ECI4  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 22.49                 | 22.71                    | 22.52                  | 24.0                | 0.0      |
| 40              | QPSK       | 50      | 28        | 22.61                 | 22.65                    | 22.51                  | 24.0                | 0.0      |
| 40              | QPSK       | 100     | 0         | 21.48                 | 21.70                    | 21.58                  | 23.0                | 1.0      |

| n41 Ant 1 ECI4  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 22.69                 | 22.81                    | 22.75                  | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 22.64                 | 22.75                    | 22.67                  | 24.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 21.62                 | 21.85                    | 21.47                  | 23.0                | 1.0      |



| n38 Ant 2 ECI4  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 18.43                 | 18.50                    | 18.33                  | 19.5                | 0.0      |
| 40              | QPSK       | 50      | 28        | 18.13                 | 18.39                    | 18.22                  | 19.5                | 0.0      |
| 40              | QPSK       | 100     | 0         | 17.90                 | 17.96                    | 17.88                  | 19.0                | 0.5      |

| n41 Ant 2 ECI4  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 18.54                 | 18.56                    | 18.39                  | 19.5                | 0.0      |
| 100             | QPSK       | 135     | 69        | 18.24                 | 18.41                    | 18.32                  | 19.5                | 0.0      |
| 100             | QPSK       | 270     | 0         | 17.88                 | 17.94                    | 17.90                  | 19.0                | 0.5      |



### n2 Ant 4 ECI4

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 1870                  | 1880                     | 1890                   |                     |          |
| 40              | QPSK       | 1       | 1         | 22.10                 | 22.14                    | 22.10                  | 24.0                | 0.0      |
| 40              | QPSK       | 108     | 54        | 22.02                 | 22.12                    | 22.09                  | 24.0                | 0.0      |
| 40              | QPSK       | 216     | 0         | 21.12                 | 21.18                    | 21.14                  | 23.0                | 1.0      |

### n26 Ant 4 ECI4

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 16800                 | 16830                    | 16780                  |                     |          |
| 20              | QPSK       | 1       | 1         | 22.67                 | 22.85                    | 22.72                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.53                 | 22.62                    | 22.61                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.83                 | 21.84                    | 21.80                  | 23.0                | 1.0      |

### n5 Ant 4 ECI4

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 834                   | 836.5                    | 839                    |                     |          |
| 20              | QPSK       | 1       | 1         | 22.54                 | 22.59                    | 22.58                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.33                 | 22.52                    | 22.50                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.42                 | 21.50                    | 21.45                  | 23.0                | 1.0      |

### n66 Ant 4 ECI4

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 346500                | 348000                   | 351500                 |                     |          |
| 45              | QPSK       | 1       | 1         | 22.34                 | 22.47                    | 22.44                  | 24.0                | 0.0      |
| 45              | QPSK       | 120     | 60        | 22.35                 | 22.40                    | 22.39                  | 24.0                | 0.0      |
| 45              | QPSK       | 240     | 0         | 21.38                 | 21.43                    | 21.41                  | 23.0                | 1.0      |

### n7 Ant 4 ECI4

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 2525                  | 2535                     | 2545                   |                     |          |
| 50              | QPSK       | 1       | 1         | 21.72                 | 21.94                    | 21.76                  | 23.0                | 0.0      |
| 50              | QPSK       | 135     | 68        | 21.84                 | 21.91                    | 21.82                  | 23.0                | 0.0      |
| 50              | QPSK       | 270     | 0         | 20.84                 | 20.96                    | 20.89                  | 22.0                | 1.0      |





| n38 Ant 4 ECI4  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 22.04                 | 22.28                    | 22.05                  | 24.0                | 0.0      |
| 40              | QPSK       | 50      | 28        | 22.16                 | 22.25                    | 22.18                  | 24.0                | 0.0      |
| 40              | QPSK       | 100     | 0         | 21.15                 | 21.30                    | 21.16                  | 23.0                | 1.0      |

| n41 Ant 4 ECI4  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 22.11                 | 22.36                    | 22.15                  | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 22.21                 | 22.35                    | 22.19                  | 24.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 21.18                 | 21.22                    | 21.18                  | 23.0                | 1.0      |



### Part27Q n78 Ant 3 ECI4

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         | 23.01                 |                          |                        | 24.0                | 0.0      |
| 100             | PI/2 BPSK  | 1       | 137       | 23.02                 |                          |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 271       | 22.98                 |                          |                        |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         | 22.56                 |                          |                        | 23.5                | 0.5      |
| 100             | PI/2 BPSK  | 135     | 69        | 23.02                 |                          |                        | 24.0                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       | 22.66                 |                          |                        | 23.5                | 0.5      |
| 100             | PI/2 BPSK  | 270     | 0         | 22.59                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 1         | 23.05                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 23.01                 |                          |                        | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 23.04                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 22.08                 |                          |                        | 23.0                | 1.0      |
| 100             | QPSK       | 135     | 69        | 23.03                 |                          |                        | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 138       | 22.12                 |                          |                        | 23.0                | 1.0      |
| 100             | QPSK       | 270     | 0         | 22.11                 |                          |                        |                     |          |
| 100             | 16QAM      | 1       | 1         | 22.03                 |                          |                        | 23.0                | 1.0      |
| 100             | 64QAM      | 1       | 1         | 20.37                 |                          |                        | 21.5                | 2.5      |
| 100             | 256QAM     | 1       | 1         | 18.97                 |                          |                        | 19.5                | 4.5      |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 90              | QPSK       | 1       | 1         | 22.96                 | 23.01                    | 22.84                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 22.90                 | 22.94                    | 22.85                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 22.95                 | 22.90                    | 22.90                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 23.00                 | 22.98                    | 22.84                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 22.97                 | 22.96                    | 22.75                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 22.99                 | 22.90                    | 22.85                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 22.99                 | 22.97                    | 22.74                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
| 25              | QPSK       | 1       | 1         | 22.98                 | 22.93                    | 22.82                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 22.87                 | 22.90                    | 22.72                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 22.99                 | 22.93                    | 22.85                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | QPSK       | 1       | 1         | 22.88                 | 22.94                    | 22.72                  | 24.0                | 0.0      |



### Part27Q n78 Ant 5 ECI4

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633000                | 633332                   | 633666                 |                     |          |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 17.27                    |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 17.43                    |                        | 18.5                | 0.0      |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 17.44                    |                        |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 16.87                    |                        | 18.0                | 0.5      |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 17.38                    |                        | 18.5                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 17.07                    |                        | 18.0                | 0.5      |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 16.92                    |                        |                     |          |
| 100             | QPSK       | 1       | 1         |                       | 17.56                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 17.49                    |                        | 18.5                | 0.0      |
| 100             | QPSK       | 1       | 271       |                       | 17.50                    |                        |                     |          |
| 100             | QPSK       | 135     | 0         |                       | 16.44                    |                        | 17.5                | 1.0      |
| 100             | QPSK       | 135     | 69        |                       | 17.54                    |                        | 18.5                | 0.0      |
| 100             | QPSK       | 135     | 138       |                       | 16.61                    |                        | 17.5                | 1.0      |
| 100             | QPSK       | 270     | 0         |                       | 16.46                    |                        |                     |          |
| 100             | 16QAM      | 1       | 1         |                       | 16.25                    |                        | 17.5                | 1.0      |
| 100             | 64QAM      | 1       | 1         |                       | 14.60                    |                        | 16.0                | 2.5      |
| 100             | 256QAM     | 1       | 1         |                       | 13.23                    |                        | 14.0                | 4.5      |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 |                     |          |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 90              | QPSK       | 1       | 1         | 17.38                 | 17.48                    | 17.37                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 |                     |          |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 17.36                 | 17.43                    | 17.47                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 |                     |          |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 17.39                 | 17.53                    | 17.41                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 |                     |          |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 17.40                 | 17.50                    | 17.41                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 |                     |          |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 17.39                 | 17.53                    | 17.47                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 |                     |          |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 17.42                 | 17.45                    | 17.38                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 |                     |          |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 17.38                 | 17.47                    | 17.35                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 |                     |          |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
| 25              | QPSK       | 1       | 1         | 17.40                 | 17.39                    | 17.39                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 |                     |          |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 17.51                 | 17.40                    | 17.40                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 |                     |          |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 17.48                 | 17.39                    | 17.43                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 |                     |          |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | QPSK       | 1       | 1         | 17.36                 | 17.48                    | 17.46                  | 18.5                | 0.0      |



### Part27Q n78 Ant 7 ECI4

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633000                | 633332                   | 633666                 |                     |          |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         | 17.42                 |                          |                        | 18.5                | 0.0      |
| 100             | PI/2 BPSK  | 1       | 137       | 17.41                 |                          |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 271       | 17.62                 |                          |                        |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         | 16.86                 |                          |                        | 18.0                | 0.5      |
| 100             | PI/2 BPSK  | 135     | 69        | 17.45                 |                          |                        | 18.5                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       | 17.07                 |                          |                        | 18.0                | 0.5      |
| 100             | PI/2 BPSK  | 270     | 0         | 17.01                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 1         | 17.67                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 17.45                 |                          |                        | 18.5                | 0.0      |
| 100             | QPSK       | 1       | 271       | 17.63                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 16.47                 |                          |                        | 17.5                | 1.0      |
| 100             | QPSK       | 135     | 69        | 17.59                 |                          |                        | 18.5                | 0.0      |
| 100             | QPSK       | 135     | 138       | 16.53                 |                          |                        |                     |          |
| 100             | QPSK       | 270     | 0         | 16.49                 |                          |                        | 17.5                | 1.0      |
| 100             | 16QAM      | 1       | 1         | 16.30                 |                          |                        | 17.5                | 1.0      |
| 100             | 64QAM      | 1       | 1         | 14.60                 |                          |                        | 16.0                | 2.5      |
| 100             | 256QAM     | 1       | 1         | 12.99                 |                          |                        | 14.0                | 4.5      |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 |                     |          |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 90              | QPSK       | 1       | 1         | 17.54                 | 17.53                    | 17.56                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 |                     |          |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 17.58                 | 17.60                    | 17.44                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 |                     |          |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 17.57                 | 17.57                    | 17.53                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634668                 |                     |          |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 17.54                 | 17.51                    | 17.48                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 |                     |          |
| Frequency (MHz) |            |         |           | 17.57                 | 17.62                    | 17.43                  |                     |          |
| 50              | QPSK       | 1       | 1         | 17.58                 | 17.59                    | 17.56                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 |                     |          |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 17.49                 | 17.61                    | 17.56                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 |                     |          |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 17.49                 | 17.55                    | 17.55                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 |                     |          |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
| 25              | QPSK       | 1       | 1         | 17.53                 | 17.52                    | 17.41                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 |                     |          |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 17.60                 | 17.49                    | 17.51                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 |                     |          |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 17.48                 | 17.64                    | 17.40                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 |                     |          |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | QPSK       | 1       | 1         | 17.44                 | 17.62                    | 17.53                  | 18.5                | 0.0      |



## Part27Q n78 Ant 9 ECI4

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 1         |                       | 3499.98                  |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 137       |                       | 22.27                    |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 271       |                       | 22.37                    |                        | 23.6                | 0.0      |
| 100             | Pi/2 BPSK  | 135     | 0         |                       | 22.26                    |                        |                     |          |
| 100             | Pi/2 BPSK  | 135     | 69        |                       | 22.40                    |                        | 23.5                | 0.1      |
| 100             | Pi/2 BPSK  | 135     | 138       |                       | 22.24                    |                        | 23.6                | 0.0      |
| 100             | Pi/2 BPSK  | 270     | 0         |                       | 22.31                    |                        |                     |          |
| 100             | Pi/2 BPSK  | 270     | 0         |                       | 22.14                    |                        |                     |          |
| 100             | QPSK       | 1       | 1         |                       | 22.42                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 22.21                    |                        | 23.6                | 0.0      |
| 100             | QPSK       | 1       | 271       |                       | 22.22                    |                        |                     |          |
| 100             | QPSK       | 135     | 0         |                       | 21.69                    |                        | 23.0                | 0.6      |
| 100             | QPSK       | 135     | 69        |                       | 22.37                    |                        | 23.6                | 0.0      |
| 100             | QPSK       | 135     | 138       |                       | 21.85                    |                        |                     |          |
| 100             | QPSK       | 270     | 0         |                       | 21.71                    |                        | 23.0                | 0.6      |
| 100             | 16QAM      | 1       | 1         |                       | 21.68                    |                        | 23.0                | 0.6      |
| 100             | 64QAM      | 1       | 1         |                       | 20.08                    |                        | 21.5                | 2.1      |
| 100             | 256QAM     | 1       | 1         |                       | 18.38                    |                        | 19.5                | 4.1      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 90              | QPSK       | 1       | 1         | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
|                 |            |         |           | 22.27                 | 22.27                    | 22.26                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 80              | QPSK       | 1       | 1         | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
|                 |            |         |           | 22.22                 | 22.35                    | 22.24                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 70              | QPSK       | 1       | 1         | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
|                 |            |         |           | 22.16                 | 22.33                    | 22.28                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 60              | QPSK       | 1       | 1         | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
|                 |            |         |           | 22.27                 | 22.26                    | 22.25                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 50              | QPSK       | 1       | 1         | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
|                 |            |         |           | 22.21                 | 22.32                    | 22.28                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 40              | QPSK       | 1       | 1         | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
|                 |            |         |           | 22.24                 | 22.30                    | 22.28                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 30              | QPSK       | 1       | 1         | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
|                 |            |         |           | 22.18                 | 22.34                    | 22.16                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 25              | QPSK       | 1       | 1         | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
|                 |            |         |           | 22.28                 | 22.32                    | 22.28                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 20              | QPSK       | 1       | 1         | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
|                 |            |         |           | 22.26                 | 22.37                    | 22.16                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 15              | QPSK       | 1       | 1         | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
|                 |            |         |           | 22.18                 | 22.37                    | 22.27                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 10              | QPSK       | 1       | 1         | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
|                 |            |         |           | 22.28                 | 22.28                    | 22.23                  | 23.6                | 0.0      |



Reduced Power Mode for ECI 6

| n5 Ant 0 ECI6   |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 834                   | 836.5                    | 839                    |                     |          |
| Frequency (MHz) |            |         |           | 166800                | 167300                   | 167800                 |                     |          |
| 20              | QPSK       | 1       | 1         | 22.57                 | 22.59                    | 22.45                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.52                 | 22.53                    | 22.46                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.53                 | 21.59                    | 21.42                  | 23.0                | 1.0      |

| n26 Ant 0 ECI6  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 824                   | 831.5                    | 839                    |                     |          |
| Frequency (MHz) |            |         |           | 164800                | 166300                   | 167800                 |                     |          |
| 20              | QPSK       | 1       | 1         | 22.82                 | 22.85                    | 22.77                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.78                 | 22.83                    | 22.80                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.84                 | 21.89                    | 21.83                  | 23.0                | 1.0      |



| n38 Ant 0 ECI6  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 20.94                 | 21.20                    | 21.01                  | 22.0                | 0.0      |
| 40              | QPSK       | 50      | 28        | 20.88                 | 21.13                    | 21.01                  | 22.0                | 0.0      |
| 40              | QPSK       | 100     | 0         | 20.03                 | 20.06                    | 20.03                  | 21.0                | 1.0      |

| n41 Ant 0 ECI6  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 21.02                 | 21.25                    | 21.07                  | 22.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 21.03                 | 21.22                    | 21.16                  | 22.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 20.12                 | 20.20                    | 20.19                  | 21.0                | 1.0      |



### n2 Ant 1 ECI6

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 374500                | 376000                   | 378000                 |                     |          |
| Frequency (MHz) |            |         |           | 1870                  | 1880                     | 1890                   |                     |          |
| 40              | QPSK       | 1       | 1         | 22.64                 | 22.74                    | 22.64                  | 24.0                | 0.0      |
| 40              | QPSK       | 108     | 54        | 22.57                 | 22.71                    | 22.67                  | 24.0                | 0.0      |
| 40              | QPSK       | 216     | 0         | 21.59                 | 21.70                    | 21.63                  | 23.0                | 1.0      |

### n7 Ant 1 ECI6

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 595000                | 597000                   | 599000                 |                     |          |
| Frequency (MHz) |            |         |           | 2925                  | 2935                     | 2945                   |                     |          |
| 50              | QPSK       | 1       | 1         | 21.94                 | 22.05                    | 21.96                  | 22.9                | 0.0      |
| 50              | QPSK       | 135     | 68        | 21.94                 | 22.01                    | 21.87                  | 22.9                | 0.0      |
| 50              | QPSK       | 270     | 0         | 21.81                 | 21.88                    | 21.83                  | 22.9                | 0.0      |

### n66 Ant 1 ECI6

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 346500                | 348000                   | 350000                 |                     |          |
| Frequency (MHz) |            |         |           | 1732.5                | 1745                     | 1757.5                 |                     |          |
| 45              | QPSK       | 1       | 1         | 22.59                 | 22.80                    | 22.60                  | 24.0                | 0.0      |
| 45              | QPSK       | 120     | 60        | 22.60                 | 22.79                    | 22.67                  | 24.0                | 0.0      |
| 45              | QPSK       | 240     | 0         | 21.77                 | 21.83                    | 21.89                  | 23.0                | 1.0      |





| n38 Ant 1 ECI6  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 21.08                 | 21.20                    | 21.14                  | 22.3                | 0.0      |
| 40              | QPSK       | 50      | 28        | 21.15                 | 21.16                    | 21.05                  | 22.3                | 0.0      |
| 40              | QPSK       | 100     | 0         | 21.06                 | 21.08                    | 21.07                  | 22.3                | 0.0      |

| n41 Ant 1 ECI6  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 21.13                 | 21.32                    | 21.01                  | 22.3                | 0.0      |
| 100             | QPSK       | 135     | 69        | 21.04                 | 21.30                    | 21.14                  | 22.3                | 0.0      |
| 100             | QPSK       | 270     | 0         | 21.10                 | 21.20                    | 21.16                  | 22.3                | 0.0      |



| n38 Ant 2 ECI6  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 18.43                 | 18.50                    | 18.33                  | 19.5                | 0.0      |
| 40              | QPSK       | 50      | 28        | 18.13                 | 18.39                    | 18.22                  | 19.5                | 0.0      |
| 40              | QPSK       | 100     | 0         | 17.90                 | 17.96                    | 17.88                  | 19.0                | 0.5      |

| n41 Ant 2 ECI6  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 18.54                 | 18.56                    | 18.39                  | 19.5                | 0.0      |
| 100             | QPSK       | 135     | 69        | 18.24                 | 18.41                    | 18.32                  | 19.5                | 0.0      |
| 100             | QPSK       | 270     | 0         | 17.88                 | 17.94                    | 17.90                  | 19.0                | 0.5      |



### n2 Ant 4 ECI6

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 375000                | 375000                   | 375000                 |                     |          |
| Frequency (MHz) |            |         |           | 1870                  | 1880                     | 1880                   |                     |          |
| 40              | QPSK       | 1       | 1         | 19.53                 | 19.59                    | 19.51                  | 20.0                | 0.0      |
| 40              | QPSK       | 108     | 54        | 19.36                 | 19.57                    | 19.46                  | 20.6                | 0.0      |
| 40              | QPSK       | 216     | 0         | 19.51                 | 19.53                    | 19.51                  | 20.6                | 0.0      |

### n26 Ant 4 ECI6

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 168000                | 168300                   | 167800                 |                     |          |
| Frequency (MHz) |            |         |           | 824                   | 831.5                    | 830                    |                     |          |
| 20              | QPSK       | 1       | 1         | 22.67                 | 22.85                    | 22.72                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.53                 | 22.62                    | 22.61                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.63                 | 21.64                    | 21.60                  | 23.0                | 1.0      |

### n5 Ant 4 ECI6

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 168000                | 167000                   | 167000                 |                     |          |
| Frequency (MHz) |            |         |           | 834                   | 836.5                    | 839                    |                     |          |
| 20              | QPSK       | 1       | 1         | 22.54                 | 22.59                    | 22.58                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.33                 | 22.52                    | 22.50                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.42                 | 21.50                    | 21.45                  | 23.0                | 1.0      |

### n66 Ant 4 ECI6

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 345500                | 348000                   | 351500                 |                     |          |
| Frequency (MHz) |            |         |           | 1727.5                | 1745                     | 1757.5                 |                     |          |
| 45              | QPSK       | 1       | 1         | 20.86                 | 20.97                    | 20.87                  | 21.8                | 0.0      |
| 45              | QPSK       | 120     | 60        | 20.92                 | 20.94                    | 20.82                  | 21.8                | 0.0      |
| 45              | QPSK       | 240     | 0         | 20.87                 | 20.91                    | 20.88                  | 21.8                | 0.0      |

### n7 Ant 4 ECI6

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 505000                | 503000                   | 503000                 |                     |          |
| Frequency (MHz) |            |         |           | 2525                  | 2535                     | 2545                   |                     |          |
| 50              | QPSK       | 1       | 1         | 19.34                 | 19.53                    | 19.46                  | 20.3                | 0.0      |
| 50              | QPSK       | 135     | 68        | 19.47                 | 19.50                    | 19.42                  | 20.3                | 0.0      |
| 50              | QPSK       | 270     | 0         | 19.45                 | 19.46                    | 19.42                  | 20.3                | 0.0      |



| n38 Ant 4 ECI6  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 19.24                 | 19.29                    | 19.26                  | 20.5                | 0.0      |
| 40              | QPSK       | 50      | 28        | 19.24                 | 19.27                    | 19.23                  | 20.5                | 0.0      |
| 40              | QPSK       | 100     | 0         | 19.19                 | 19.24                    | 19.14                  | 20.5                | 0.0      |

| n41 Ant 4 ECI6  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 19.24                 | 19.32                    | 19.23                  | 20.5                | 0.0      |
| 100             | QPSK       | 135     | 69        | 19.22                 | 19.30                    | 19.19                  | 20.5                | 0.0      |
| 100             | QPSK       | 270     | 0         | 19.20                 | 19.27                    | 19.19                  | 20.5                | 0.0      |



## Part27Q n78 Ant 3 ECI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit       | MPR      |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                | (dBm)               |          |
| 90              | QPSK       | 1       | 1         | 19.87                 | 19.94                    | 19.93                  | 21.4                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit       | MPR      |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   | (dBm)               |          |
| 80              | QPSK       | 1       | 1         | 19.94                 | 19.99                    | 19.89                  | 21.4                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit       | MPR      |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dBm)               |          |
| 70              | QPSK       | 1       | 1         | 19.88                 | 20.02                    | 19.92                  | 21.4                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit       | MPR      |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                | (dBm)               |          |
| 60              | QPSK       | 1       | 1         | 19.89                 | 19.97                    | 19.86                  | 21.4                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit       | MPR      |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dBm)               |          |
| 50              | QPSK       | 1       | 1         | 19.88                 | 20.08                    | 19.96                  | 21.4                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit       | MPR      |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dBm)               |          |
| 40              | QPSK       | 1       | 1         | 19.87                 | 19.98                    | 19.89                  | 21.4                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit       | MPR      |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                | (dBm)               |          |
| 30              | QPSK       | 1       | 1         | 19.96                 | 20.01                    | 19.88                  | 21.4                | 0.0      |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit       | MPR      |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                | (dBm)               |          |
| 25              | QPSK       | 1       | 1         | 19.95                 | 19.94                    | 19.92                  | 21.4                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit       | MPR      |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dBm)               |          |
| 20              | QPSK       | 1       | 1         | 19.92                 | 19.98                    | 19.91                  | 21.4                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit       | MPR      |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                | (dBm)               |          |
| 15              | QPSK       | 1       | 1         | 19.97                 | 20.08                    | 19.91                  | 21.4                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit       | MPR      |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dBm)               |          |
| 10              | QPSK       | 1       | 1         | 19.95                 | 20.02                    | 19.95                  | 21.4                | 0.0      |



### Part27Q n78 Ant 5 ECI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 100             | QPSK       | 1       | 1         | 17.38                 | 17.48                    | 17.37                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 17.36                 | 17.43                    | 17.47                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 17.38                 | 17.53                    | 17.41                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 17.40                 | 17.50                    | 17.41                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 17.39                 | 17.53                    | 17.47                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 17.42                 | 17.45                    | 17.38                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 17.38                 | 17.47                    | 17.35                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
| 25              | QPSK       | 1       | 1         | 17.40                 | 17.39                    | 17.39                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 17.51                 | 17.40                    | 17.40                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 17.48                 | 17.39                    | 17.43                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | QPSK       | 1       | 1         | 17.36                 | 17.48                    | 17.46                  | 18.5                | 0.0      |



### Part27Q n78 Ant 7 ECI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633000                | 633332                   | 633666                 |                     |          |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         | 17.42                 |                          |                        | 18.5                | 0.0      |
| 100             | PI/2 BPSK  | 1       | 137       | 17.41                 |                          |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 271       | 17.62                 |                          |                        |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         | 16.86                 |                          |                        | 18.0                | 0.5      |
| 100             | PI/2 BPSK  | 135     | 69        | 17.45                 |                          |                        | 18.5                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       | 17.07                 |                          |                        | 18.0                | 0.5      |
| 100             | PI/2 BPSK  | 270     | 0         | 17.01                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 1         | 17.67                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 17.45                 |                          |                        | 18.5                | 0.0      |
| 100             | QPSK       | 1       | 271       | 17.63                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 16.47                 |                          |                        | 17.5                | 1.0      |
| 100             | QPSK       | 135     | 69        | 17.59                 |                          |                        | 18.5                | 0.0      |
| 100             | QPSK       | 135     | 138       | 16.53                 |                          |                        |                     |          |
| 100             | QPSK       | 270     | 0         | 16.49                 |                          |                        | 17.5                | 1.0      |
| 100             | 16QAM      | 1       | 1         | 16.30                 |                          |                        | 17.5                | 1.0      |
| 100             | 64QAM      | 1       | 1         | 14.60                 |                          |                        | 16.0                | 2.5      |
| 100             | 256QAM     | 1       | 1         | 12.99                 |                          |                        | 14.0                | 4.5      |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 |                     |          |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 90              | QPSK       | 1       | 1         | 17.54                 | 17.53                    | 17.56                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 |                     |          |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 17.58                 | 17.60                    | 17.44                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 |                     |          |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 17.57                 | 17.57                    | 17.53                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634668                 |                     |          |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 17.54                 | 17.51                    | 17.48                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 |                     |          |
| Frequency (MHz) |            |         |           | 17.57                 | 17.62                    | 17.43                  |                     |          |
| 50              | QPSK       | 1       | 1         | 17.58                 | 17.59                    | 17.56                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 |                     |          |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 17.49                 | 17.61                    | 17.56                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 |                     |          |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 17.49                 | 17.55                    | 17.55                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 |                     |          |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
| 25              | QPSK       | 1       | 1         | 17.53                 | 17.52                    | 17.41                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 |                     |          |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 17.60                 | 17.49                    | 17.51                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 |                     |          |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 17.48                 | 17.64                    | 17.40                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 |                     |          |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | QPSK       | 1       | 1         | 17.44                 | 17.62                    | 17.53                  | 18.5                | 0.0      |



## Part27Q n78 Ant 9 ECI6

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 1         |                       | 3499.98                  |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 137       |                       | 22.27                    |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 271       |                       | 22.37                    |                        | 23.6                | 0.0      |
| 100             | Pi/2 BPSK  | 135     | 0         |                       | 22.26                    |                        |                     |          |
| 100             | Pi/2 BPSK  | 135     | 69        |                       | 22.40                    |                        | 23.5                | 0.1      |
| 100             | Pi/2 BPSK  | 135     | 138       |                       | 22.24                    |                        | 23.6                | 0.0      |
| 100             | Pi/2 BPSK  | 270     | 0         |                       | 22.31                    |                        | 23.5                | 0.1      |
| 100             | QPSK       | 1       | 1         |                       | 22.14                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 22.42                    |                        |                     |          |
| 100             | QPSK       | 1       | 271       |                       | 22.21                    |                        | 23.6                | 0.0      |
| 100             | QPSK       | 135     | 0         |                       | 22.22                    |                        |                     |          |
| 100             | QPSK       | 135     | 69        |                       | 21.69                    |                        | 23.0                | 0.6      |
| 100             | QPSK       | 135     | 138       |                       | 22.37                    |                        | 23.6                | 0.0      |
| 100             | QPSK       | 270     | 0         |                       | 21.85                    |                        | 23.0                | 0.6      |
| 100             | 16QAM      | 1       | 1         |                       | 21.71                    |                        |                     |          |
| 100             | 16QAM      | 1       | 1         |                       | 21.68                    |                        | 23.0                | 0.6      |
| 100             | 64QAM      | 1       | 1         |                       | 20.08                    |                        | 21.5                | 2.1      |
| 100             | 256QAM     | 1       | 1         |                       | 18.38                    |                        | 19.5                | 4.1      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 90              | QPSK       | 1       | 1         | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
|                 |            |         |           | 22.27                 | 22.27                    | 22.26                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 80              | QPSK       | 1       | 1         | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
|                 |            |         |           | 22.22                 | 22.35                    | 22.24                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 70              | QPSK       | 1       | 1         | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
|                 |            |         |           | 22.16                 | 22.33                    | 22.28                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 60              | QPSK       | 1       | 1         | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
|                 |            |         |           | 22.27                 | 22.26                    | 22.25                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 50              | QPSK       | 1       | 1         | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
|                 |            |         |           | 22.21                 | 22.32                    | 22.28                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 40              | QPSK       | 1       | 1         | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
|                 |            |         |           | 22.24                 | 22.30                    | 22.28                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 30              | QPSK       | 1       | 1         | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
|                 |            |         |           | 22.18                 | 22.34                    | 22.16                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 25              | QPSK       | 1       | 1         | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
|                 |            |         |           | 22.28                 | 22.32                    | 22.28                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 20              | QPSK       | 1       | 1         | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
|                 |            |         |           | 22.26                 | 22.37                    | 22.16                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 15              | QPSK       | 1       | 1         | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
|                 |            |         |           | 22.18                 | 22.37                    | 22.27                  | 23.6                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 10              | QPSK       | 1       | 1         | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
|                 |            |         |           | 22.28                 | 22.28                    | 22.23                  | 23.6                | 0.0      |





Reduced Power Mode for ECI 7

| n5 Ant 0 ECI7   |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 834                   | 836.5                    | 839                    |                     |          |
| Frequency (MHz) |            |         |           | 166800                | 167300                   | 167800                 |                     |          |
| 20              | QPSK       | 1       | 1         | 22.57                 | 22.59                    | 22.45                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.52                 | 22.53                    | 22.46                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.53                 | 21.59                    | 21.42                  | 23.0                | 1.0      |

| n26 Ant 0 ECI7  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 824                   | 831.5                    | 839                    |                     |          |
| Frequency (MHz) |            |         |           | 164800                | 166300                   | 167800                 |                     |          |
| 20              | QPSK       | 1       | 1         | 22.82                 | 22.85                    | 22.77                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.78                 | 22.83                    | 22.80                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.84                 | 21.89                    | 21.83                  | 23.0                | 1.0      |



| n38 Ant 0 ECI7  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 20.94                 | 21.20                    | 21.01                  | 22.0                | 0.0      |
| 40              | QPSK       | 50      | 28        | 20.88                 | 21.13                    | 21.01                  | 22.0                | 0.0      |
| 40              | QPSK       | 100     | 0         | 20.03                 | 20.06                    | 20.03                  | 21.0                | 1.0      |

| n41 Ant 0 ECI7  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 21.02                 | 21.25                    | 21.07                  | 22.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 21.03                 | 21.22                    | 21.16                  | 22.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 20.12                 | 20.20                    | 20.19                  | 21.0                | 1.0      |



### n2 Ant 1 ECI7

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 374500                | 376000                   | 378000                 |                     |          |
| Frequency (MHz) |            |         |           | 1870                  | 1880                     | 1890                   |                     |          |
| 40              | QPSK       | 1       | 1         | 20.26                 | 20.28                    | 20.13                  | 21.4                | 0.0      |
| 40              | QPSK       | 108     | 54        | 20.24                 | 20.25                    | 20.16                  | 21.4                | 0.0      |
| 40              | QPSK       | 216     | 0         | 20.18                 | 20.21                    | 20.15                  | 21.4                | 0.0      |

### n7 Ant 1 ECI7

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 525000                | 527000                   | 529000                 |                     |          |
| Frequency (MHz) |            |         |           | 2525                  | 2535                     | 2545                   |                     |          |
| 50              | QPSK       | 1       | 1         | 18.01                 | 18.08                    | 18.06                  | 19.3                | 0.0      |
| 50              | QPSK       | 135     | 68        | 17.91                 | 18.06                    | 17.97                  | 19.3                | 0.0      |
| 50              | QPSK       | 270     | 0         | 17.95                 | 18.03                    | 18.00                  | 19.3                | 0.0      |

### n66 Ant 1 ECI7

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 346500                | 348000                   | 351500                 |                     |          |
| Frequency (MHz) |            |         |           | 1732.5                | 1745                     | 1757.5                 |                     |          |
| 45              | QPSK       | 1       | 1         | 20.72                 | 20.80                    | 20.68                  | 21.9                | 0.0      |
| 45              | QPSK       | 120     | 60        | 20.75                 | 20.79                    | 20.63                  | 21.9                | 0.0      |
| 45              | QPSK       | 240     | 0         | 20.67                 | 20.73                    | 20.64                  | 21.9                | 0.0      |



| n38 Ant 1 ECI7  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 18.01                 | 18.20                    | 18.14                  | 19.4                | 0.0      |
| 40              | QPSK       | 50      | 0         | 18.01                 | 18.17                    | 18.12                  | 19.4                | 0.0      |
| 40              | QPSK       | 100     | 0         | 18.05                 | 18.14                    | 18.05                  | 19.4                | 0.0      |

| n41 Ant 1 ECI7  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 18.09                 | 18.26                    | 18.10                  | 19.4                | 0.0      |
| 100             | QPSK       | 135     | 0         | 18.01                 | 18.23                    | 17.84                  | 19.4                | 0.0      |
| 100             | QPSK       | 270     | 0         | 18.03                 | 18.15                    | 18.04                  | 19.4                | 0.0      |



| n38 Ant 2 ECI7  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 13.11                 | 13.14                    | 12.90                  | 14.2                | 0.0      |
| 40              | QPSK       | 50      | 28        | 12.95                 | 13.07                    | 13.00                  | 14.2                | 0.0      |
| 40              | QPSK       | 100     | 0         | 12.93                 | 15.03                    | 13.00                  | 14.2                | 0.0      |

| n41 Ant 2 ECI7  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 13.11                 | 13.18                    | 12.94                  | 14.2                | 0.0      |
| 100             | QPSK       | 135     | 69        | 12.94                 | 13.15                    | 13.02                  | 14.2                | 0.0      |
| 100             | QPSK       | 270     | 0         | 12.96                 | 15.06                    | 13.00                  | 14.2                | 0.0      |



### n2 Ant 4 ECI7

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 375000                | 375000                   | 375000                 |                     |          |
| Frequency (MHz) |            |         |           | 1870                  | 1880                     | 1890                   |                     |          |
| 40              | QPSK       | 1       | 1         | 15.11                 | 15.16                    | 15.13                  | 16.2                | 0.0      |
| 40              | QPSK       | 108     | 54        | 14.98                 | 15.13                    | 15.01                  | 16.2                | 0.0      |
| 40              | QPSK       | 216     | 0         | 15.03                 | 15.11                    | 15.04                  | 16.2                | 0.0      |

### n26 Ant 4 ECI7

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 168000                | 168000                   | 167800                 |                     |          |
| Frequency (MHz) |            |         |           | 824                   | 831.5                    | 839                    |                     |          |
| 20              | QPSK       | 1       | 1         | 22.67                 | 22.85                    | 22.72                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.53                 | 22.62                    | 22.61                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.63                 | 21.64                    | 21.60                  | 23.0                | 1.0      |

### n5 Ant 4 ECI7

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 168000                | 167000                   | 167000                 |                     |          |
| Frequency (MHz) |            |         |           | 834                   | 836.5                    | 839                    |                     |          |
| 20              | QPSK       | 1       | 1         | 22.54                 | 22.59                    | 22.58                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.33                 | 22.52                    | 22.50                  | 24.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 21.42                 | 21.50                    | 21.45                  | 23.0                | 1.0      |

### n66 Ant 4 ECI7

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 345000                | 348000                   | 351000                 |                     |          |
| Frequency (MHz) |            |         |           | 1725.5                | 1745                     | 1757.5                 |                     |          |
| 45              | QPSK       | 1       | 1         | 15.98                 | 16.03                    | 15.92                  | 17.0                | 0.0      |
| 45              | QPSK       | 120     | 60        | 15.72                 | 15.95                    | 15.76                  | 17.0                | 0.0      |
| 45              | QPSK       | 240     | 0         | 15.80                 | 15.91                    | 15.83                  | 17.0                | 0.0      |

### n7 Ant 4 ECI7

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 500000                | 500000                   | 500000                 |                     |          |
| Frequency (MHz) |            |         |           | 2525                  | 2535                     | 2545                   |                     |          |
| 50              | QPSK       | 1       | 1         | 14.98                 | 15.05                    | 15.03                  | 15.9                | 0.0      |
| 50              | QPSK       | 135     | 68        | 14.92                 | 15.02                    | 14.79                  | 15.9                | 0.0      |
| 50              | QPSK       | 270     | 0         | 14.83                 | 14.95                    | 14.88                  | 15.9                | 0.0      |



| n38 Ant 4 ECI7  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 |                     |          |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 15.14                 | 15.19                    | 15.15                  | 16.1                | 0.0      |
| 40              | QPSK       | 50      | 28        | 15.15                 | 15.17                    | 15.11                  | 16.1                | 0.0      |
| 40              | QPSK       | 100     | 0         | 15.10                 | 15.14                    | 15.08                  | 16.1                | 0.0      |

| n41 Ant 4 ECI7  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | QPSK       | 1       | 1         | 15.21                 | 15.28                    | 15.16                  | 16.1                | 0.0      |
| 100             | QPSK       | 135     | 69        | 15.22                 | 15.24                    | 15.20                  | 16.1                | 0.0      |
| 100             | QPSK       | 270     | 0         | 15.19                 | 15.22                    | 15.06                  | 16.1                | 0.0      |



### Part27Q n78 Ant 3 ECI7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 1         |                       | 3499.98                  |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 137       |                       | 12.98                    |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 271       |                       | 12.89                    |                        | 14.1                | 0.0      |
| 100             | Pi/2 BPSK  | 135     | 0         |                       | 13.06                    |                        |                     |          |
| 100             | Pi/2 BPSK  | 135     | 69        |                       | 13.07                    |                        | 14.1                | 0.0      |
| 100             | Pi/2 BPSK  | 135     | 138       |                       | 12.84                    |                        | 14.1                | 0.0      |
| 100             | Pi/2 BPSK  | 270     | 0         |                       | 12.97                    |                        | 14.1                | 0.0      |
| 100             | QPSK       | 1       | 1         |                       | 13.04                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 13.08                    |                        |                     |          |
| 100             | QPSK       | 1       | 271       |                       | 12.95                    |                        | 14.1                | 0.0      |
| 100             | QPSK       | 135     | 0         |                       | 12.93                    |                        |                     |          |
| 100             | QPSK       | 135     | 69        |                       | 12.89                    |                        | 14.1                | 0.0      |
| 100             | QPSK       | 135     | 138       |                       | 13.05                    |                        | 14.1                | 0.0      |
| 100             | QPSK       | 270     | 0         |                       | 12.98                    |                        | 14.1                | 0.0      |
| 100             | 16QAM      | 1       | 1         |                       | 13.01                    |                        |                     |          |
| 100             | 64QAM      | 1       | 1         |                       | 12.98                    |                        | 14.1                | 0.0      |
| 100             | 256QAM     | 1       | 1         |                       | 12.84                    |                        | 14.1                | 0.0      |
| 100             |            |         |           |                       | 13.01                    |                        | 14.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 90              | QPSK       | 1       | 1         | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
|                 |            |         |           | 12.81                 | 12.99                    | 12.85                  | 14.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 80              | QPSK       | 1       | 1         | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
|                 |            |         |           | 12.87                 | 12.95                    | 12.92                  | 14.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 70              | QPSK       | 1       | 1         | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
|                 |            |         |           | 12.87                 | 12.98                    | 12.90                  | 14.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 60              | QPSK       | 1       | 1         | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
|                 |            |         |           | 12.89                 | 13.00                    | 12.92                  | 14.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 50              | QPSK       | 1       | 1         | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
|                 |            |         |           | 12.94                 | 12.93                    | 12.91                  | 14.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 40              | QPSK       | 1       | 1         | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
|                 |            |         |           | 12.84                 | 12.93                    | 12.82                  | 14.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 30              | QPSK       | 1       | 1         | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
|                 |            |         |           | 12.83                 | 12.91                    | 12.83                  | 14.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 25              | QPSK       | 1       | 1         | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
|                 |            |         |           | 12.88                 | 12.91                    | 12.84                  | 14.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 20              | QPSK       | 1       | 1         | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
|                 |            |         |           | 12.85                 | 12.98                    | 12.86                  | 14.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 15              | QPSK       | 1       | 1         | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
|                 |            |         |           | 12.92                 | 12.96                    | 12.89                  | 14.1                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 10              | QPSK       | 1       | 1         | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
|                 |            |         |           | 12.91                 | 13.01                    | 12.94                  | 14.1                | 0.0      |





## Part27Q n78 Ant 5 ECI7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 1         |                       | 3499.98                  |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 137       |                       | 12.49                    |                        |                     |          |
| 100             | Pi/2 BPSK  | 1       | 271       |                       | 12.54                    |                        | 14.0                | 0.0      |
| 100             | Pi/2 BPSK  | 135     | 0         |                       | 12.38                    |                        |                     |          |
| 100             | Pi/2 BPSK  | 135     | 69        |                       | 12.50                    |                        | 14.0                | 0.0      |
| 100             | Pi/2 BPSK  | 135     | 138       |                       | 12.58                    |                        | 14.0                | 0.0      |
| 100             | Pi/2 BPSK  | 270     | 0         |                       | 12.38                    |                        | 14.0                | 0.0      |
| 100             | QPSK       | 1       | 1         |                       | 12.58                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 12.61                    |                        | 14.0                | 0.0      |
| 100             | QPSK       | 1       | 271       |                       | 12.56                    |                        |                     |          |
| 100             | QPSK       | 135     | 0         |                       | 12.44                    |                        | 14.0                | 0.0      |
| 100             | QPSK       | 135     | 69        |                       | 12.48                    |                        | 14.0                | 0.0      |
| 100             | QPSK       | 135     | 138       |                       | 12.59                    |                        | 14.0                | 0.0      |
| 100             | QPSK       | 270     | 0         |                       | 12.34                    |                        | 14.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         |                       | 12.54                    |                        |                     |          |
| 100             | 64QAM      | 1       | 1         |                       | 12.32                    |                        | 14.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         |                       | 12.55                    |                        | 14.0                | 0.0      |
| 100             |            |         |           |                       | 12.33                    |                        | 14.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 90              | QPSK       | 1       | 1         | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
|                 |            |         |           | 12.50                 | 12.49                    | 12.30                  | 14.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 80              | QPSK       | 1       | 1         | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
|                 |            |         |           | 12.41                 | 12.45                    | 12.30                  | 14.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 70              | QPSK       | 1       | 1         | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
|                 |            |         |           | 12.43                 | 12.53                    | 12.38                  | 14.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 60              | QPSK       | 1       | 1         | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
|                 |            |         |           | 12.50                 | 12.43                    | 12.34                  | 14.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 50              | QPSK       | 1       | 1         | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
|                 |            |         |           | 12.45                 | 12.55                    | 12.30                  | 14.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 40              | QPSK       | 1       | 1         | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
|                 |            |         |           | 12.48                 | 12.50                    | 12.38                  | 14.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 30              | QPSK       | 1       | 1         | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
|                 |            |         |           | 12.47                 | 12.56                    | 12.35                  | 14.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 25              | QPSK       | 1       | 1         | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
|                 |            |         |           | 12.40                 | 12.59                    | 12.41                  | 14.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 20              | QPSK       | 1       | 1         | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
|                 |            |         |           | 12.45                 | 12.51                    | 12.34                  | 14.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 15              | QPSK       | 1       | 1         | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
|                 |            |         |           | 12.47                 | 12.51                    | 12.44                  | 14.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 10              | QPSK       | 1       | 1         | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
|                 |            |         |           | 12.42                 | 12.52                    | 12.37                  | 14.0                | 0.0      |



### Part27Q n78 Ant 7 ECI7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633000                | 633332                   | 633666                 |                     |          |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 17.42                    |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 17.41                    |                        | 18.5                | 0.0      |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 17.62                    |                        |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 16.86                    |                        | 18.0                | 0.5      |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 17.45                    |                        | 18.5                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 17.07                    |                        | 18.0                | 0.5      |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 17.01                    |                        |                     |          |
| 100             | QPSK       | 1       | 1         |                       | 17.67                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 17.45                    |                        | 18.5                | 0.0      |
| 100             | QPSK       | 1       | 271       |                       | 17.63                    |                        |                     |          |
| 100             | QPSK       | 135     | 0         |                       | 16.47                    |                        | 17.5                | 1.0      |
| 100             | QPSK       | 135     | 69        |                       | 17.59                    |                        | 18.5                | 0.0      |
| 100             | QPSK       | 135     | 138       |                       | 16.53                    |                        | 17.5                | 1.0      |
| 100             | QPSK       | 270     | 0         |                       | 16.49                    |                        |                     |          |
| 100             | 16QAM      | 1       | 1         |                       | 16.30                    |                        | 17.5                | 1.0      |
| 100             | 64QAM      | 1       | 1         |                       | 14.60                    |                        | 16.0                | 2.5      |
| 100             | 256QAM     | 1       | 1         |                       | 12.99                    |                        | 14.0                | 4.5      |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 |                     |          |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 90              | QPSK       | 1       | 1         | 17.54                 | 17.53                    | 17.56                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 |                     |          |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 17.58                 | 17.60                    | 17.44                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 |                     |          |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 17.57                 | 17.57                    | 17.53                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634668                 |                     |          |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 17.54                 | 17.51                    | 17.48                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 |                     |          |
| Frequency (MHz) |            |         |           | 17.57                 | 17.62                    | 17.43                  |                     |          |
| 50              | QPSK       | 1       | 1         | 17.58                 | 17.59                    | 17.56                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 |                     |          |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 17.49                 | 17.61                    | 17.56                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 |                     |          |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 17.49                 | 17.55                    | 17.55                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 |                     |          |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
| 25              | QPSK       | 1       | 1         | 17.53                 | 17.52                    | 17.41                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 |                     |          |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 17.60                 | 17.49                    | 17.51                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 |                     |          |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 17.48                 | 17.64                    | 17.40                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 |                     |          |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | QPSK       | 1       | 1         | 17.44                 | 17.62                    | 17.53                  | 18.5                | 0.0      |



## Part27Q n78 Ant 9 ECI7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         | 20.79                 |                          |                        | 21.8                | 0.0      |
| 100             | PI/2 BPSK  | 1       | 137       | 20.63                 |                          |                        |                     |          |
| 100             | PI/2 BPSK  | 1       | 271       | 20.81                 |                          |                        |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         | 20.89                 |                          |                        | 21.8                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 69        | 20.80                 |                          |                        | 21.8                | 0.0      |
| 100             | PI/2 BPSK  | 135     | 138       | 20.80                 |                          |                        | 21.8                | 0.0      |
| 100             | PI/2 BPSK  | 270     | 0         | 20.77                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 1         | 20.92                 |                          |                        | 21.8                | 0.0      |
| 100             | QPSK       | 1       | 137       | 20.81                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 271       | 20.80                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 20.84                 |                          |                        | 21.8                | 0.0      |
| 100             | QPSK       | 135     | 69        | 20.89                 |                          |                        | 21.8                | 0.0      |
| 100             | QPSK       | 135     | 138       | 20.73                 |                          |                        | 21.8                | 0.0      |
| 100             | QPSK       | 270     | 0         | 20.83                 |                          |                        |                     |          |
| 100             | 16QAM      | 1       | 1         | 20.84                 |                          |                        | 21.8                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 20.08                 |                          |                        | 21.5                | 0.3      |
| 100             | 256QAM     | 1       | 1         | 18.38                 |                          |                        | 19.5                | 2.3      |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 90              | QPSK       | 1       | 1         | 20.72                 | 20.89                    | 20.84                  | 21.8                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 20.65                 | 20.73                    | 20.85                  | 21.8                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 20.65                 | 20.73                    | 20.83                  | 21.8                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 20.56                 | 20.82                    | 20.87                  | 21.8                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 20.51                 | 20.73                    | 20.85                  | 21.8                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 20.61                 | 20.84                    | 20.84                  | 21.8                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 20.72                 | 20.72                    | 20.86                  | 21.8                | 0.0      |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
| 25              | QPSK       | 1       | 1         | 20.74                 | 20.88                    | 20.87                  | 21.8                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 20.81                 | 20.87                    | 20.75                  | 21.8                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 20.73                 | 20.74                    | 20.81                  | 21.8                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | QPSK       | 1       | 1         | 20.77                 | 20.84                    | 20.58                  | 21.8                | 0.0      |





|         |                    | Full Power      |                     |               |                     |               |                     |               |                     | Standalone & WWAN+non DBS |                     |               |                     |               |                     | WWAN+DBS/DBS only |              |       |
|---------|--------------------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|---------------------|---------------------------|---------------------|---------------|---------------------|---------------|---------------------|-------------------|--------------|-------|
| WiFi 6E |                    | Ant 5           |                     | Ant 7         |                     | Ant 5+7       |                     | Ant 5         |                     | Ant 7                     |                     | Ant 5+7       |                     | Ant 7         |                     |                   |              |       |
| Mode    | Channel            | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit             | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit     | Duty Cycle % |       |
| WiFi 6E | 802.11ax-HE20 MCS0 | 1               | 5955                | 9.37          | 11.00               | 9.34          | 11.00               | 12.37         | 14.00               | 9.37                      | 11.00               | 9.34          | 11.00               | 12.37         | 14.00               | 9.34              | 11.00        | 96.22 |
|         |                    | 57              | 6235                | 9.51          | 11.00               | 9.48          | 11.00               | 12.51         | 14.00               | 9.51                      | 11.00               | 9.48          | 11.00               | 12.51         | 14.00               | 9.48              | 11.00        |       |
|         |                    | 113             | 6515                | 9.33          | 11.00               | 9.37          | 11.00               | 12.36         | 14.00               | 9.33                      | 11.00               | 9.37          | 11.00               | 12.36         | 14.00               | 9.37              | 11.00        |       |
|         |                    | 173             | 6815                | 8.37          | 9.50                | 8.62          | 10.00               | 11.51         | 13.50               | 8.37                      | 9.50                | 8.62          | 10.00               | 11.51         | 13.50               | 8.62              | 10.00        |       |
|         |                    | 229             | 7095                | 9.31          | 11.00               | 7.68          | 9.50                | 11.57         | 13.00               | 9.32                      | 11.00               | 7.68          | 9.50                | 11.59         | 13.00               | 7.68              | 9.50         |       |
|         | 802.11ax-HE40 MCS0 | 3               | 5965                | 11.95         | 13.50               | 12.05         | 13.50               | 15.01         | 16.50               | 11.56                     | 13.00               | 11.68         | 13.00               | 14.66         | 16.00               | 11.68             | 13.00        | 92.57 |
|         |                    | 59              | 6245                | 11.90         | 13.50               | 11.77         | 13.50               | 14.85         | 16.50               | 11.25                     | 13.00               | 11.13         | 13.00               | 14.16         | 16.00               | 11.13             | 13.00        |       |
|         |                    | 107             | 6485                | 12.51         | 14.00               | 12.02         | 13.50               | 15.28         | 17.00               | 9.47                      | 11.00               | 9.06          | 10.50               | 12.32         | 14.00               | 9.06              | 10.50        |       |
|         |                    | 171             | 6805                | 11.41         | 12.50               | 11.32         | 12.50               | 14.38         | 16.00               | 11.41                     | 12.50               | 11.32         | 12.50               | 14.38         | 16.00               | 11.32             | 12.50        |       |
|         |                    | 227             | 7085                | 12.10         | 13.50               | 10.53         | 12.00               | 14.40         | 16.00               | 12.04                     | 13.50               | 10.51         | 12.00               | 14.37         | 16.00               | 10.51             | 12.00        |       |
|         | 802.11ax-HE80 MCS0 | 7               | 5985                | 15.58         | 17.00               | 16.01         | 17.50               | 18.81         | 20.50               | 11.46                     | 13.00               | 11.47         | 13.00               | 14.34         | 16.00               | 11.47             | 13.00        | 86.77 |
|         |                    | 71              | 6305                | 16.01         | 17.50               | 16.06         | 17.50               | 19.05         | 20.50               | 10.09                     | 11.50               | 10.42         | 12.00               | 13.27         | 15.00               | 10.42             | 12.00        |       |
| 119     |                    | 6545            | 16.25               | 18.00         | 16.32               | 18.00         | 19.30               | 21.00         | 9.53                | 11.00                     | 9.48                | 11.00         | 12.51               | 14.00         | 9.48                | 11.00             |              |       |
| 167     |                    | 6785            | 16.45               | 18.00         | 17.06               | 18.50         | 19.78               | 21.50         | 12.48               | 14.00                     | 12.23               | 14.00         | 15.63               | 17.00         | 12.23               | 14.00             |              |       |
| 215     |                    | 7025            | 16.52               | 18.00         | 15.31               | 17.00         | 18.97               | 20.50         | 13.12               | 14.50                     | 13.50               | 15.00         | 16.07               | 17.50         | 13.50               | 15.00             |              |       |



**BT 2.0 Ant6 Full power**

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |       |       |
|---------------|---------|-----------------|---------------------|-------|-------|
|               |         |                 | 1Mbps               | 2Mbps | 3Mbps |
| BR / EDR      | CH 00   | 2402            | 16.82               | 13.32 | 13.97 |
|               | CH 39   | 2441            | 16.93               | 14.22 | 14.15 |
|               | CH 78   | 2480            | 16.84               | 13.19 | 13.28 |
| Tune-up Limit |         |                 | 18.00               | 15.00 | 15.00 |

**BLE\_1M Ant6 Full power**

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |
|---------------|---------|-----------------|---------------------|
| LE            | CH 00   | 2402            | 6.30                |
|               | CH 19   | 2440            | 6.64                |
|               | CH 39   | 2480            | 5.42                |
| Tune-up Limit |         |                 | 7.00                |

**BLE\_2M Ant6 Full power**

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |
|---------------|---------|-----------------|---------------------|
| LE            | CH 00   | 2402            | 6.44                |
|               | CH 19   | 2440            | 6.89                |
|               | CH 39   | 2480            | 5.66                |
| Tune-up Limit |         |                 | 7.00                |

**BT 2.0 Ant6 For Head Simultaneous**

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |       |       |
|---------------|---------|-----------------|---------------------|-------|-------|
|               |         |                 | 1Mbps               | 2Mbps | 3Mbps |
| BR / EDR      | CH 00   | 2402            | 12.44               | 9.27  | 9.91  |
|               | CH 39   | 2441            | 12.57               | 10.16 | 10.20 |
|               | CH 78   | 2480            | 12.49               | 9.11  | 9.28  |
| Tune-up Limit |         |                 | 14.00               | 11.00 | 11.00 |

**BT 2.0 Ant6 For Hotspot**

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |       |       |
|---------------|---------|-----------------|---------------------|-------|-------|
|               |         |                 | 1Mbps               | 2Mbps | 3Mbps |
| BR / EDR      | CH 00   | 2402            | 15.29               | 12.36 | 12.83 |
|               | CH 39   | 2441            | 15.96               | 13.10 | 13.05 |
|               | CH 78   | 2480            | 15.80               | 12.15 | 12.41 |
| Tune-up Limit |         |                 | 17.00               | 14.00 | 14.00 |