



Full&Default&EC14 Power Mode

| GSM450-Art 8 | Base Average Power (dBm) | | | Tx Power Limit (dBm) | Frame Average Power (dBm) | | | Tx Power Limit (dBm) |
|-----------------|--------------------------|-------|-------|----------------------|---------------------------|-------|-------|----------------------|
| | 512 | 561 | 610 | | 512 | 561 | 610 | |
| TX Channel | 512 | 561 | 610 | 29.00 | 18.91 | 18.82 | 18.80 | 25.00 |
| Frequency (MHz) | 184.2 | 184.4 | 184.6 | 23.20 | 22.51 | 22.52 | 22.52 | 24.50 |
| OPBS 1 Tx class | 31.62 | 31.61 | 31.64 | 33.00 | 22.67 | 22.61 | 22.64 | 24.50 |
| OPBS 2 Tx class | 30.47 | 30.50 | 30.45 | 32.00 | 24.47 | 24.50 | 24.45 | 25.00 |
| OPBS 3 Tx class | 28.44 | 28.50 | 28.42 | 30.00 | 24.18 | 24.21 | 24.18 | 25.74 |
| OPBS 4 Tx class | 27.33 | 27.38 | 27.31 | 29.00 | 24.33 | 24.38 | 24.31 | 25.00 |

| GSM900-Art 8 | Base Average Power (dBm) | | | Tx Power Limit (dBm) | Frame Average Power (dBm) | | | Tx Power Limit (dBm) |
|-----------------|--------------------------|-------|-------|----------------------|---------------------------|-------|-------|----------------------|
| | 512 | 561 | 610 | | 512 | 561 | 610 | |
| TX Channel | 512 | 561 | 610 | 29.00 | 18.91 | 18.82 | 18.80 | 25.00 |
| Frequency (MHz) | 177.0 | 176.8 | 177.0 | 29.00 | 18.99 | 19.02 | 18.94 | 25.00 |
| OPBS 1 Tx class | 27.91 | 27.62 | 27.80 | 29.00 | 18.91 | 18.82 | 18.80 | 25.00 |
| OPBS 2 Tx class | 26.95 | 26.91 | 26.92 | 28.00 | 20.93 | 20.98 | 20.92 | 27.00 |
| OPBS 3 Tx class | 24.82 | 24.90 | 24.89 | 28.00 | 20.88 | 20.73 | 20.83 | 21.74 |
| OPBS 4 Tx class | 23.85 | 23.92 | 23.86 | 25.00 | 20.83 | 20.92 | 20.86 | 22.00 |

| Base | WCDMA U Art 8 | | | Tx Power Limit (dBm) | WCDMA T1 Art 8 | | | Tx Power Limit (dBm) | WCDMA V Art 8 | | | Tx Power Limit (dBm) |
|-----------------|---------------|-------|--------|----------------------|----------------|-------|-------|----------------------|---------------|-------|-------|----------------------|
| | 9582 | 9600 | 9588 | | 1312 | 1413 | 1513 | | 4152 | 4162 | 4238 | |
| TX Channel | 9582 | 9600 | 9588 | 23.00 | 22.01 | 22.12 | 22.11 | 23.00 | 24.20 | 24.31 | 24.27 | 25.00 |
| Frequency (MHz) | 1852.4 | 1860 | 1867.6 | 23.00 | 22.01 | 22.12 | 22.11 | 23.00 | 24.20 | 24.31 | 24.27 | 25.00 |
| OPBS 1 Tx class | 22.08 | 22.27 | 22.15 | 23.00 | 22.01 | 22.12 | 22.11 | 23.00 | 24.20 | 24.31 | 24.27 | 25.00 |



| GEMMEL AVE 1 | | Rx Average Power (dBm) | | | Tx Channel | | Tx Power (dBm) | | |
|-----------------|-------|------------------------|-------|-------|------------|-------|----------------|-------|-------|
| | 198 | 199 | 201 | 198 | 199 | 201 | 198 | 199 | 201 |
| Frequency (MHz) | 824.2 | 836.4 | 848.6 | 824.2 | 836.4 | 848.6 | 824.2 | 836.4 | 848.6 |
| OPRS 1 Tx (dB) | 31.52 | 31.52 | 31.52 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 |
| OPRS 2 Tx (dB) | 30.02 | 30.02 | 30.02 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 |
| OPRS 3 Tx (dB) | 29.48 | 29.47 | 29.48 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 |
| OPRS 4 Tx (dB) | 27.38 | 27.39 | 27.32 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 |

| Band | | WCDMA 8 AVE 1 | | | WCDMA 8 AVE 2 | | | WCDMA 8 AVE 3 | | |
|-----------------|-------|---------------|-------|-------|---------------|-------|-------|---------------|-------|--|
| | 5982 | 5990 | 5998 | 5992 | 5998 | 6004 | 5982 | 5990 | 5998 | |
| TX Channel | 5982 | 5990 | 5998 | 5992 | 5998 | 6004 | 5982 | 5990 | 5998 | |
| Frequency (MHz) | 932.4 | 938.0 | 943.6 | 932.4 | 938.0 | 943.6 | 932.4 | 938.0 | 943.6 | |
| SCPP Rx (dB) | 21.33 | 21.41 | 21.32 | 23.00 | 21.31 | 21.54 | 21.43 | 23.00 | 24.11 | |



| GSM 1900 Ant 2 | Total Average Power (dBm) | | | Tune-up Limit (dBm) | Frame-Average Power (dBm) | | | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
| | TX Channel | 812 | 845 | | 878 | 812 | 845 | |
| Frequency (MHz) | 1900.2 | 1898 | 1900.8 | | 1900.2 | 1898 | 1900.8 | |
| QPSK 1 Tx site | 23.29 | 23.15 | 23.29 | 23.50 | 23.29 | 23.15 | 23.29 | 23.50 |
| QPSK 2 Tx site | 25.28 | 25.32 | 25.21 | 26.50 | 25.28 | 25.32 | 25.21 | 26.50 |
| QPSK 3 Tx site | 25.35 | 25.37 | 25.38 | 26.00 | 25.35 | 25.37 | 25.38 | 26.00 |
| QPSK 4 Tx site | 25.33 | 25.34 | 25.35 | 27.00 | 25.33 | 25.34 | 25.35 | 27.00 |
| QPSK 4 Tx site | 25.27 | 25.33 | 25.24 | 26.00 | 25.27 | 25.33 | 25.24 | 26.00 |

| Band | TX Channel | WCDMA 1900 | | | Tune-up Limit (dBm) | WCDMA 1900 | | | Tune-up Limit (dBm) |
|-----------------|------------|------------|-------|-------|---------------------|------------|------|-------|---------------------|
| | | 9550 | 9560 | 9570 | | 1512 | 1413 | 1513 | |
| Frequency (MHz) | 955.2 | 956 | 956.8 | | 1512 | 1413 | 1513 | | |
| SCPP Band 66 | 955.2 | 956 | 956.8 | 24.00 | 1512 | 1413 | 1513 | 24.00 | |
| SCPP Band 66 | 955.2 | 956 | 956.8 | 24.00 | 1512 | 1413 | 1513 | 24.00 | |



| Band | WCDMA II AX 3 | | | Time-to-Settle (ms) | WCDMA IV AX 3 | | | Time-to-Settle (ms) | |
|-----------------|---------------|--------|--------|---------------------|---------------|--------|--------|---------------------|-------|
| | Start | End | Center | | Start | End | Center | | |
| TX Channel | 9450 | 9450 | 9450 | 22.00 | 1413 | 1413 | 1413 | 22.00 | |
| RS Channel | 9450 | 9450 | 9450 | 22.00 | 1413 | 1413 | 1413 | 22.00 | |
| Frequency (MHz) | 1852.4 | 1852.4 | 1852.4 | 22.00 | 1413.0 | 1413.0 | 1413.0 | 22.00 | |
| SCPF for W | RNC 12 Phase | 21.14 | 21.20 | 21.12 | 22.00 | 21.14 | 21.20 | 21.12 | 22.00 |



| Band 66 Ant 0 | | | | | | | | | |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|--------------------|----------|--|
| ISW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up test (dBm) | MPE (dB) | |
| Channel | | | | 130000 | 130000 | 130000 | | | |
| Frequency (MHz) | | | | 1790 | 1745 | 1770 | | | |
| 20 | QPSK | 1 | 0 | 22.57 | 22.77 | 22.88 | | | |
| 20 | QPSK | 1 | -48 | 22.58 | 22.80 | 22.88 | 24 | 0 | |
| 20 | QPSK | 1 | 99 | 22.87 | 22.82 | 22.84 | | | |
| 20 | QPSK | 50 | 0 | 21.88 | 21.79 | 21.81 | | | |
| 20 | QPSK | 50 | -24 | 21.89 | 21.81 | 21.82 | 23 | 1 | |
| 20 | QPSK | 50 | 50 | 21.84 | 21.82 | 21.84 | | | |
| 20 | QPSK | 100 | 0 | 21.59 | 21.70 | 21.82 | | | |



Band 38 Ant 0

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mode Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|----------------------|----------------------|---------------------|----------|
| Channel | | | | 37850 | 38050 | 38150 | | |
| Frequency (MHz) | | | | 2490 | 2500 | 2510 | | |
| 20 | QPSK | 1 | 0 | 23.55 | 23.57 | 23.65 | 25 | 0 |
| 20 | QPSK | 1 | 40 | 23.44 | 23.45 | 23.35 | | |
| 20 | QPSK | 1 | 80 | 23.41 | 23.49 | 23.37 | | |
| 20 | QPSK | 50 | 0 | 22.43 | 22.52 | 22.60 | | |
| 20 | QPSK | 50 | 24 | 22.48 | 22.53 | 22.42 | 24 | 1 |
| 20 | QPSK | 50 | 60 | 22.48 | 22.53 | 22.45 | | |
| 20 | QPSK | 100 | 0 | 22.39 | 22.52 | 22.39 | | |

Band 41 Ant 0

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | 2590 | 2619.5 | 2653 | 2687.5 | 2720 | | |
| 20 | QPSK | 1 | 0 | 23.72 | 23.72 | 23.81 | 23.81 | 23.84 | 25 | 0 |
| 20 | QPSK | 1 | 40 | 23.72 | 23.57 | 23.73 | 23.48 | 23.49 | | |
| 20 | QPSK | 1 | 80 | 23.68 | 23.61 | 23.64 | 23.47 | 23.51 | | |
| 20 | QPSK | 50 | 0 | 22.71 | 22.74 | 22.89 | 22.57 | 22.64 | | |
| 20 | QPSK | 50 | 24 | 22.69 | 22.61 | 22.72 | 22.56 | 22.58 | 24 | 1 |
| 20 | QPSK | 50 | 50 | 22.61 | 22.77 | 22.67 | 22.60 | 22.63 | | |
| 20 | QPSK | 100 | 0 | 22.66 | 22.62 | 22.67 | 22.59 | 22.60 | | |

Band 41 HPUE Ant 0

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | 2590 | 2619.5 | 2653 | 2687.5 | 2720 | | |
| 20 | QPSK | 1 | 0 | 26.22 | 26.14 | 26.27 | 26.07 | 26.21 | 28 | 0 |
| 20 | QPSK | 1 | 40 | 26.14 | 26.03 | 26.26 | 26.05 | 26.07 | | |
| 20 | QPSK | 1 | 80 | 26.05 | 26.01 | 26.17 | 26.00 | 26.07 | | |
| 20 | QPSK | 50 | 0 | 25.22 | 25.23 | 25.35 | 25.14 | 25.11 | | |
| 20 | QPSK | 50 | 24 | 25.25 | 25.15 | 25.22 | 25.11 | 25.05 | 27 | 1 |
| 20 | QPSK | 50 | 50 | 25.09 | 25.27 | 25.19 | 25.19 | 25.20 | | |
| 20 | QPSK | 100 | 0 | 25.08 | 25.13 | 25.19 | 25.10 | 25.09 | | |



| Band 66 Ant 1 | | | | | | | | |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|--------------------|----------|
| ISW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up test (dBm) | MPE (dB) |
| Channel | | | | 1.50000 | 1.50000 | 1.50000 | | |
| Frequency (MHz) | | | | 1750 | 1745 | 1750 | | |
| 20 | QPSK | 1 | 0 | 22.95 | 23.11 | 22.99 | | |
| 20 | QPSK | 1 | -48 | 22.92 | 23.09 | 22.91 | 24 | 0 |
| 20 | QPSK | 1 | 99 | 22.91 | 22.97 | 22.91 | | |
| 20 | QPSK | 50 | 0 | 21.97 | 22.08 | 21.96 | | |
| 20 | QPSK | 50 | -24 | 21.95 | 22.03 | 21.93 | 23 | 1 |
| 20 | QPSK | 50 | 50 | 22.04 | 22.02 | 21.92 | | |
| 20 | QPSK | 100 | 0 | 22.00 | 22.02 | 21.99 | | |



Band 38 Ant 1

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Med Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|
| Channel | | | | 37850 | 38050 | 38150 | | |
| Frequency (MHz) | | | | 2490 | 2505 | 2520 | | |
| 20 | QPSK | 1 | 0 | 23.50 | 23.50 | 23.53 | 25 | 0 |
| 20 | QPSK | 1 | 48 | 23.54 | 23.59 | 23.48 | | |
| 20 | QPSK | 1 | 96 | 23.58 | 23.64 | 23.38 | | |
| 20 | QPSK | 50 | 0 | 22.39 | 22.59 | 22.55 | | |
| 20 | QPSK | 50 | 24 | 22.48 | 22.47 | 22.47 | 24 | 1 |
| 20 | QPSK | 50 | 50 | 22.52 | 22.45 | 22.41 | | |
| 20 | QPSK | 100 | 0 | 22.52 | 22.55 | 22.52 | | |

Band 41 Ant 1

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | 2595 | 2615 | 2633 | 2651.5 | 2670 | | |
| 20 | QPSK | 1 | 0 | 23.58 | 23.58 | 23.67 | 23.65 | 23.54 | 25 | 0 |
| 20 | QPSK | 1 | 48 | 23.49 | 23.61 | 23.55 | 23.45 | 23.41 | | |
| 20 | QPSK | 1 | 96 | 23.45 | 23.52 | 23.53 | 23.53 | 23.48 | | |
| 20 | QPSK | 50 | 0 | 22.55 | 22.54 | 22.73 | 22.69 | 22.50 | | |
| 20 | QPSK | 50 | 24 | 22.54 | 22.49 | 22.58 | 22.47 | 22.47 | 24 | 1 |
| 20 | QPSK | 50 | 50 | 22.43 | 22.40 | 22.52 | 22.50 | 22.52 | | |
| 20 | QPSK | 100 | 0 | 22.52 | 22.58 | 22.67 | 22.65 | 22.60 | | |

Band 41 HPUE Ant 1

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | 2595 | 2615 | 2633 | 2651.5 | 2670 | | |
| 20 | QPSK | 1 | 0 | 25.68 | 25.68 | 25.71 | 25.67 | 25.65 | 27 | 0 |
| 20 | QPSK | 1 | 48 | 25.59 | 25.55 | 25.63 | 25.61 | 25.51 | | |
| 20 | QPSK | 1 | 96 | 25.51 | 25.55 | 25.57 | 25.55 | 25.59 | | |
| 20 | QPSK | 50 | 0 | 24.71 | 24.64 | 24.77 | 24.70 | 24.64 | | |
| 20 | QPSK | 50 | 24 | 24.49 | 24.55 | 24.60 | 24.58 | 24.53 | 26 | 1 |
| 20 | QPSK | 50 | 50 | 24.47 | 24.50 | 24.74 | 24.50 | 24.58 | | |
| 20 | QPSK | 100 | 0 | 24.70 | 24.83 | 24.78 | 24.65 | 24.61 | | |



| Band 2 Ant 2 | | | | | | | |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | MRR (dB) |
| Channel | | | | | | | |
| | | | | 18700 | 18900 | 19100 | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 0 | 23.37 | 23.38 | 23.33 | 24 |
| 20 | QPSK | 1 | 49 | 23.27 | 23.31 | 23.25 | |
| 20 | QPSK | 1 | 99 | 23.21 | 23.23 | 23.17 | |
| 20 | QPSK | 50 | 0 | 22.20 | 22.25 | 22.23 | 23 |
| 20 | QPSK | 50 | 24 | 22.25 | 22.24 | 22.33 | |
| 20 | QPSK | 50 | 50 | 22.22 | 22.14 | 22.26 | |
| 20 | QPSK | 100 | 0 | 22.16 | 22.31 | 22.29 | 0 |

| Band 4 Ant 2 | | | | | | | |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | MRR (dB) |
| Channel | | | | | | | |
| | | | | 20950 | 21125 | 21300 | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 0 | 22.59 | 22.61 | 22.58 | 24 |
| 20 | QPSK | 1 | 49 | 22.59 | 22.54 | 22.49 | |
| 20 | QPSK | 1 | 99 | 22.59 | 22.54 | 22.52 | |
| 20 | QPSK | 50 | 0 | 21.57 | 21.65 | 21.60 | 23 |
| 20 | QPSK | 50 | 24 | 21.54 | 21.67 | 21.65 | |
| 20 | QPSK | 50 | 50 | 21.59 | 21.59 | 21.63 | |
| 20 | QPSK | 100 | 0 | 21.55 | 21.64 | 21.54 | 1 |

| Band 7 Ant 2 | | | | | | | |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | MRR (dB) |
| Channel | | | | | | | |
| | | | | 26100 | 26100 | 26100 | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 0 | 23.53 | 23.66 | 23.64 | 25 |
| 20 | QPSK | 1 | 49 | 23.43 | 23.51 | 23.48 | |
| 20 | QPSK | 1 | 99 | 23.50 | 23.51 | 23.49 | |
| 20 | QPSK | 50 | 0 | 22.49 | 22.65 | 22.55 | 24 |
| 20 | QPSK | 50 | 24 | 22.37 | 22.53 | 22.49 | |
| 20 | QPSK | 50 | 50 | 22.47 | 22.44 | 22.49 | |
| 20 | QPSK | 100 | 0 | 22.60 | 22.66 | 22.57 | 0 |



| Band 25 Ant 2 | | | | | | | |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | MFR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 0 | 23.53 | 23.32 | 23.35 | 24 |
| 20 | QPSK | 1 | 48 | 23.22 | 23.38 | 23.29 | |
| 20 | QPSK | 1 | 99 | 23.37 | 23.33 | 23.33 | |
| 20 | QPSK | 50 | 0 | 22.30 | 22.44 | 22.36 | 23 |
| 20 | QPSK | 50 | 24 | 22.38 | 22.41 | 22.35 | |
| 20 | QPSK | 50 | 50 | 22.24 | 22.28 | 22.32 | |
| 20 | QPSK | 100 | 0 | 22.38 | 22.41 | 22.34 | |

| Band 66 Ant 2 | | | | | | | |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | MFR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 0 | 23.29 | 23.36 | 23.33 | 24 |
| 20 | QPSK | 1 | 48 | 23.22 | 23.34 | 23.25 | |
| 20 | QPSK | 1 | 99 | 23.13 | 23.22 | 23.20 | |
| 20 | QPSK | 50 | 0 | 22.31 | 22.41 | 22.34 | 23 |
| 20 | QPSK | 50 | 24 | 22.23 | 22.22 | 22.31 | |
| 20 | QPSK | 50 | 50 | 22.23 | 22.22 | 22.31 | |
| 20 | QPSK | 100 | 0 | 22.25 | 22.38 | 22.36 | |



Band 38 Ant 2

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Med Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|
| Channel | | | | 37650 | 38050 | 38150 | | |
| Frequency (MHz) | | | | 2490 | 2500 | 2510 | | |
| 20 | QPSK | 1 | 0 | 23.52 | 23.53 | 23.52 | 25 | 0 |
| 20 | QPSK | 1 | 48 | 23.50 | 23.38 | 23.41 | | |
| 20 | QPSK | 1 | 96 | 23.34 | 23.45 | 23.43 | | |
| 20 | QPSK | 50 | 0 | 22.54 | 22.01 | 22.54 | | |
| 20 | QPSK | 50 | 24 | 22.60 | 22.37 | 22.47 | 24 | 1 |
| 20 | QPSK | 50 | 60 | 22.48 | 22.43 | 22.41 | | |
| 20 | QPSK | 100 | 0 | 22.49 | 22.00 | 22.47 | | |

Band 41 Ant 2

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-Mid Ch / Freq | Power Med Ch / Freq | Power High-Mid Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|--------------------------|---------------------|--------------------------|----------------------|---------------------|----------|
| Channel | | | | 39750 | 40185 | 40620 | 41055 | 41490 | | |
| Frequency (MHz) | | | | 2506 | 2493 | 2493 | 2493 | 2493 | | |
| 20 | QPSK | 1 | 0 | 23.61 | 23.61 | 23.64 | 23.66 | 23.62 | 25 | 0 |
| 20 | QPSK | 1 | 48 | 23.67 | 23.62 | 23.67 | 23.68 | 23.45 | | |
| 20 | QPSK | 1 | 96 | 23.48 | 23.50 | 23.63 | 23.63 | 23.43 | | |
| 20 | QPSK | 50 | 0 | 22.83 | 22.54 | 22.71 | 22.54 | 22.57 | | |
| 20 | QPSK | 50 | 24 | 22.95 | 22.64 | 22.61 | 22.47 | 22.60 | 24 | 1 |
| 20 | QPSK | 50 | 50 | 22.43 | 22.60 | 22.44 | 22.52 | 22.44 | | |
| 20 | QPSK | 100 | 0 | 22.82 | 22.54 | 22.67 | 22.68 | 22.60 | | |

Band 41 HPUE Ant 2

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-Mid Ch / Freq | Power Med Ch / Freq | Power High-Mid Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|--------------------------|---------------------|--------------------------|----------------------|---------------------|----------|
| Channel | | | | 39750 | 40185 | 40620 | 41055 | 41490 | | |
| Frequency (MHz) | | | | 2506 | 2493 | 2493 | 2493 | 2493 | | |
| 20 | QPSK | 1 | 0 | 26.36 | 26.27 | 26.47 | 26.38 | 26.27 | 28 | 0 |
| 20 | QPSK | 1 | 48 | 26.20 | 26.19 | 26.29 | 26.33 | 26.23 | | |
| 20 | QPSK | 1 | 96 | 26.26 | 26.36 | 26.24 | 26.27 | 26.22 | | |
| 20 | QPSK | 50 | 0 | 25.31 | 25.29 | 25.40 | 25.38 | 25.28 | | |
| 20 | QPSK | 50 | 24 | 25.20 | 25.18 | 25.31 | 25.36 | 25.26 | 27 | 1 |
| 20 | QPSK | 50 | 50 | 25.23 | 25.27 | 25.33 | 25.11 | 25.25 | | |
| 20 | QPSK | 100 | 0 | 25.27 | 25.27 | 25.41 | 25.28 | 25.35 | | |



| Band 2 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) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 22.83 | 22.85 | 22.88 | 24 | 0 |
| 20 | QPSK | 1 | 40 | 22.85 | 22.89 | 22.91 | | |
| 20 | QPSK | 1 | 99 | 22.90 | 22.85 | 22.79 | | |
| 20 | QPSK | 50 | 0 | 21.85 | 21.87 | 21.88 | 23 | 1 |
| 20 | QPSK | 50 | 24 | 21.90 | 21.82 | 21.80 | | |
| 20 | QPSK | 50 | 50 | 21.89 | 21.88 | 21.89 | | |
| 20 | QPSK | 100 | 0 | 21.94 | 22.00 | 21.89 | | |

| Band 4 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) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 22.90 | 22.95 | 22.99 | 24 | 0 |
| 20 | QPSK | 1 | 40 | 22.81 | 22.93 | 22.97 | | |
| 20 | QPSK | 1 | 99 | 22.82 | 22.83 | 22.83 | | |
| 20 | QPSK | 50 | 0 | 21.82 | 21.87 | 21.89 | 23 | 1 |
| 20 | QPSK | 50 | 24 | 21.89 | 21.88 | 21.88 | | |
| 20 | QPSK | 50 | 50 | 21.83 | 21.89 | 21.90 | | |
| 20 | QPSK | 100 | 0 | 21.87 | 21.97 | 21.88 | | |

| Band 7 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) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 23.55 | 23.56 | 23.62 | 25 | 0 |
| 20 | QPSK | 1 | 40 | 23.53 | 23.59 | 23.61 | | |
| 20 | QPSK | 1 | 99 | 23.54 | 23.51 | 23.57 | | |
| 20 | QPSK | 50 | 0 | 22.52 | 22.73 | 22.58 | 24 | 1 |
| 20 | QPSK | 50 | 24 | 22.50 | 22.44 | 22.41 | | |
| 20 | QPSK | 50 | 50 | 22.52 | 22.56 | 22.48 | | |
| 20 | QPSK | 100 | 0 | 22.52 | 22.58 | 22.57 | | |



| Band 25 Ant 3 | | | | | | | | | |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dBm) | MFR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 22.77 | 22.64 | 22.77 | 24 | 0 | |
| 20 | QPSK | 1 | 48 | 22.78 | 22.81 | 22.71 | | | |
| 20 | QPSK | 1 | 99 | 22.81 | 22.78 | 22.79 | | | |
| 20 | QPSK | 50 | 0 | 21.85 | 21.92 | 21.89 | 23 | 1 | |
| 20 | QPSK | 50 | 24 | 21.82 | 21.83 | 21.77 | | | |
| 20 | QPSK | 50 | 50 | 21.83 | 21.80 | 21.74 | | | |
| 20 | QPSK | 100 | 0 | 21.90 | 21.92 | 21.83 | | | |

| Band 66 Ant 3 | | | | | | | | | |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dBm) | MFR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 22.93 | 23.06 | 22.99 | 24 | 0 | |
| 20 | QPSK | 1 | 48 | 22.93 | 23.04 | 22.95 | | | |
| 20 | QPSK | 1 | 99 | 22.86 | 22.96 | 23.00 | | | |
| 20 | QPSK | 50 | 0 | 21.92 | 22.07 | 22.00 | 23 | 1 | |
| 20 | QPSK | 50 | 24 | 21.94 | 22.02 | 21.88 | | | |
| 20 | QPSK | 50 | 50 | 21.85 | 21.95 | 22.02 | | | |
| 20 | QPSK | 100 | 0 | 21.90 | 22.00 | 22.01 | | | |



| Band 38 Ant 3 | | | | | | | | | |
|-----------------|------------|---------|-----------|------------------------|-----------------------|------------------------|--------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Line Ch. / Freq. | Power Mid Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dB) | MPS (dB) | |
| Channel | | | | 38780 | 38900 | 38160 | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 22.88 | 22.96 | 22.84 | 24 | 0 | |
| 20 | QPSK | 1 | 49 | 22.85 | 22.73 | 22.84 | | | |
| 20 | QPSK | 1 | 99 | 22.87 | 22.73 | 22.78 | | | |
| 20 | QPSK | 50 | 0 | 21.85 | 22.03 | 21.77 | | | |
| 20 | QPSK | 50 | 24 | 21.88 | 21.95 | 21.78 | 23 | 1 | |
| 20 | QPSK | 50 | 50 | 21.84 | 21.90 | 21.78 | | | |
| 20 | QPSK | 100 | 0 | 21.84 | 21.94 | 21.88 | | | |

| Band 41 Ant 3 | | | | | | | | | | |
|-----------------|------------|---------|-----------|-----------------------|---------------------------|-----------------------|----------------------------|------------------------|--------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low-Mid Ch. / Freq. | Power Mid Ch. / Freq. | Power High-Mid Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dB) | MPS (dB) |
| Channel | | | | 38750 | 40185 | 40620 | 41055 | 41490 | | |
| Frequency (MHz) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 22.88 | 22.92 | 22.93 | 22.83 | 22.86 | 24 | 0 |
| 20 | QPSK | 1 | 49 | 22.87 | 22.84 | 22.85 | 22.88 | 22.88 | | |
| 20 | QPSK | 1 | 99 | 22.88 | 22.83 | 22.89 | 22.84 | 22.88 | | |
| 20 | QPSK | 50 | 0 | 21.85 | 21.92 | 22.04 | 21.95 | 21.92 | | |
| 20 | QPSK | 50 | 24 | 21.81 | 21.90 | 21.99 | 21.75 | 21.77 | 23 | 1 |
| 20 | QPSK | 50 | 50 | 21.73 | 21.85 | 21.92 | 21.70 | 21.73 | | |
| 20 | QPSK | 100 | 0 | 21.80 | 21.92 | 21.84 | 21.82 | 21.81 | | |



Band 42 FCC Part27Q Ant4

| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mid Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|------------------------|------------|---------|-----------|---------------------|---------------------|----------------------|----------------------------|-----------------|
| Channel | | | | | | | | |
| Frequency (MHz) | | | | 3440 | 3460 | 3480 | Tune-up limit (dBm) | MPR (dB) |
| 20 | QPSK | 1 | 0 | 23.14 | 23.02 | 23.07 | 24 | 0 |
| 20 | QPSK | 1 | 48 | 22.92 | 22.88 | 22.85 | | |
| 20 | QPSK | 1 | 96 | 22.83 | 22.88 | 22.78 | | |
| 20 | QPSK | 50 | 0 | 22.08 | 22.13 | 22.11 | 23 | 1 |
| 20 | QPSK | 50 | 24 | 21.97 | 22.05 | 21.97 | | |
| 20 | QPSK | 50 | 48 | 21.84 | 22.03 | 21.98 | | |
| 20 | QPSK | 100 | 0 | 21.07 | 22.08 | 22.00 | 22 | 2 |
| 20 | HQAM | 1 | 0 | 21.44 | 21.45 | 21.35 | | |
| 20 | HQAM | 1 | 48 | 21.03 | 21.37 | 21.27 | | |
| 20 | HQAM | 50 | 0 | 20.28 | 20.13 | 20.33 | 21 | 3 |
| 20 | HQAM | 50 | 24 | 20.09 | 20.13 | 20.11 | | |
| 20 | HQAM | 50 | 50 | 20.14 | 20.18 | 20.09 | | |
| 20 | HQAM | 100 | 0 | 20.14 | 20.18 | 20.17 | 22 | 2 |
| 20 | HQAM | 100 | 0 | 20.15 | 20.21 | 20.11 | | |
| 20 | HQAM | 100 | 0 | 20.08 | 20.13 | 20.08 | | |
| 20 | HQAM | 1 | 48 | 20.05 | 20.14 | 20.04 | 21 | 3 |
| 20 | HQAM | 1 | 96 | 20.08 | 20.13 | 20.08 | | |
| 20 | HQAM | 1 | 144 | 19.17 | 19.25 | 19.20 | | |
| 20 | HQAM | 50 | 24 | 19.14 | 19.21 | 19.11 | 19 | 5 |
| 20 | HQAM | 50 | 50 | 19.20 | 19.25 | 19.24 | | |
| 20 | HQAM | 100 | 0 | 19.08 | 19.17 | 19.14 | | |
| 20 | SBSGAM | 1 | 0 | 17.35 | 17.41 | 17.32 | 19 | 5 |
| 20 | SBSGAM | 1 | 48 | 17.25 | 17.31 | 17.24 | | |
| 20 | SBSGAM | 1 | 96 | 17.35 | 17.39 | 17.37 | | |
| 20 | SBSGAM | 50 | 0 | 17.07 | 17.38 | 17.31 | 19 | 5 |
| 20 | SBSGAM | 50 | 24 | 17.24 | 17.32 | 17.25 | | |
| 20 | SBSGAM | 50 | 50 | 17.21 | 17.30 | 17.19 | | |
| 20 | SBSGAM | 100 | 0 | 17.31 | 17.33 | 17.30 | | |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | 3455 | 3475 | 3495 | Tune-up limit (dBm) | MPR (dB) |
| 15 | QPSK | 1 | 0 | 23.01 | 23.10 | 23.02 | 24 | 0 |
| 15 | QPSK | 1 | 47 | 22.84 | 22.88 | 22.74 | | |
| 15 | QPSK | 1 | 74 | 22.78 | 22.83 | 22.74 | | |
| 15 | QPSK | 36 | 0 | 22.03 | 22.07 | 22.03 | 23 | 1 |
| 15 | QPSK | 36 | 20 | 21.84 | 21.97 | 21.86 | | |
| 15 | QPSK | 36 | 36 | 21.61 | 21.84 | 21.80 | | |
| 15 | QPSK | 75 | 0 | 21.02 | 21.08 | 21.06 | 23 | 1 |
| 15 | HQAM | 1 | 0 | 21.40 | 21.41 | 21.29 | | |
| 15 | HQAM | 1 | 37 | 21.26 | 21.29 | 21.28 | | |
| 15 | HQAM | 1 | 74 | 21.22 | 21.27 | 21.24 | 22 | 2 |
| 15 | HQAM | 36 | 0 | 20.11 | 20.04 | 20.08 | | |
| 15 | HQAM | 36 | 36 | 20.07 | 20.03 | 20.08 | | |
| 15 | HQAM | 36 | 36 | 20.04 | 20.12 | 20.04 | 22 | 2 |
| 15 | HQAM | 75 | 0 | 20.08 | 20.10 | 20.15 | | |
| 15 | HQAM | 1 | 0 | 20.08 | 20.15 | 20.09 | | |
| 15 | HQAM | 1 | 37 | 20.12 | 20.09 | 20.08 | 21 | 3 |
| 15 | HQAM | 1 | 74 | 20.04 | 20.05 | 20.02 | | |
| 15 | HQAM | 36 | 3 | 19.10 | 19.15 | 19.10 | | |
| 15 | HQAM | 36 | 20 | 19.10 | 19.18 | 19.06 | 19 | 5 |
| 15 | HQAM | 36 | 36 | 19.13 | 19.20 | 19.13 | | |
| 15 | HQAM | 75 | 0 | 19.02 | 19.13 | 19.05 | | |
| 15 | SBSGAM | 1 | 0 | 17.32 | 17.37 | 17.31 | 19 | 5 |
| 15 | SBSGAM | 1 | 37 | 17.15 | 17.22 | 17.21 | | |
| 15 | SBSGAM | 1 | 74 | 17.33 | 17.37 | 17.34 | | |
| 15 | SBSGAM | 36 | 0 | 17.19 | 17.32 | 17.21 | 19 | 5 |
| 15 | SBSGAM | 36 | 20 | 17.23 | 17.25 | 17.18 | | |
| 15 | SBSGAM | 36 | 36 | 17.18 | 17.26 | 17.14 | | |
| 15 | SBSGAM | 75 | 0 | 17.07 | 17.30 | 17.26 | | |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | 3465 | 3485 | 3505 | Tune-up limit (dBm) | MPR (dB) |
| 10 | QPSK | 1 | 0 | 23.12 | 23.06 | 23.06 | 24 | 0 |
| 10 | QPSK | 1 | 25 | 22.88 | 22.88 | 22.78 | | |
| 10 | QPSK | 1 | 49 | 22.78 | 22.78 | 22.67 | | |
| 10 | QPSK | 36 | 0 | 22.03 | 22.08 | 22.08 | 23 | 1 |
| 10 | QPSK | 25 | 12 | 21.89 | 21.98 | 21.87 | | |
| 10 | QPSK | 25 | 25 | 21.85 | 21.95 | 21.97 | | |
| 10 | QPSK | 50 | 0 | 21.03 | 21.05 | 21.04 | 23 | 1 |
| 10 | HQAM | 1 | 0 | 21.43 | 21.42 | 21.32 | | |
| 10 | HQAM | 1 | 25 | 21.22 | 21.30 | 21.20 | | |
| 10 | HQAM | 1 | 49 | 21.21 | 21.31 | 21.28 | 22 | 2 |
| 10 | HQAM | 25 | 0 | 20.05 | 20.09 | 20.05 | | |
| 10 | HQAM | 25 | 12 | 20.05 | 20.02 | 20.00 | | |
| 10 | HQAM | 25 | 25 | 20.05 | 20.13 | 20.01 | 22 | 2 |
| 10 | HQAM | 50 | 0 | 20.04 | 20.11 | 20.14 | | |
| 10 | HQAM | 1 | 0 | 20.07 | 20.20 | 20.08 | | |
| 10 | HQAM | 1 | 25 | 20.10 | 20.13 | 20.10 | 22 | 2 |
| 10 | HQAM | 1 | 49 | 20.04 | 20.05 | 20.12 | | |
| 10 | HQAM | 25 | 0 | 19.08 | 19.20 | 19.18 | | |
| 10 | HQAM | 25 | 12 | 19.08 | 19.17 | 19.10 | 21 | 3 |
| 10 | HQAM | 25 | 25 | 19.10 | 19.24 | 19.18 | | |
| 10 | HQAM | 50 | 0 | 19.00 | 19.12 | 19.09 | | |
| 10 | SBSGAM | 1 | 0 | 17.28 | 17.33 | 17.25 | 19 | 5 |
| 10 | SBSGAM | 1 | 25 | 17.20 | 17.26 | 17.23 | | |
| 10 | SBSGAM | 1 | 49 | 17.33 | 17.28 | 17.27 | | |
| 10 | SBSGAM | 25 | 0 | 17.21 | 17.27 | 17.25 | 19 | 5 |
| 10 | SBSGAM | 25 | 13 | 17.21 | 17.28 | 17.26 | | |
| 10 | SBSGAM | 25 | 25 | 17.17 | 17.22 | 17.19 | | |
| 10 | SBSGAM | 50 | 0 | 17.22 | 17.28 | 17.28 | | |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | 3475.5 | 3495 | 3515 | Tune-up limit (dBm) | MPR (dB) |
| 5 | QPSK | 1 | 0 | 23.07 | 23.11 | 23.01 | 24 | 0 |
| 5 | QPSK | 1 | 15 | 22.88 | 22.89 | 22.75 | | |
| 5 | QPSK | 1 | 24 | 22.77 | 22.82 | 22.67 | | |
| 5 | QPSK | 12 | 0 | 21.97 | 22.06 | 22.07 | 23 | 1 |
| 5 | QPSK | 12 | 7 | 21.98 | 21.94 | 21.95 | | |
| 5 | QPSK | 12 | 13 | 21.83 | 22.00 | 21.96 | | |
| 5 | QPSK | 25 | 0 | 21.04 | 22.00 | 21.92 | 23 | 1 |
| 5 | HQAM | 1 | 0 | 21.34 | 21.40 | 21.33 | | |
| 5 | HQAM | 1 | 12 | 21.22 | 21.27 | 21.19 | | |
| 5 | HQAM | 1 | 24 | 21.21 | 21.28 | 21.26 | 22 | 2 |
| 5 | HQAM | 12 | 0 | 20.04 | 20.08 | 20.04 | | |
| 5 | HQAM | 12 | 7 | 20.04 | 20.08 | 20.01 | | |
| 5 | HQAM | 12 | 13 | 20.05 | 20.11 | 20.11 | 22 | 2 |
| 5 | HQAM | 25 | 0 | 20.07 | 20.10 | 20.08 | | |
| 5 | HQAM | 1 | 0 | 20.05 | 20.10 | 20.05 | | |
| 5 | HQAM | 1 | 12 | 20.01 | 20.10 | 20.03 | 21 | 3 |
| 5 | HQAM | 1 | 24 | 20.04 | 20.05 | 20.03 | | |
| 5 | HQAM | 12 | 0 | 19.12 | 19.16 | 19.11 | | |
| 5 | HQAM | 12 | 7 | 19.11 | 19.13 | 19.01 | 19 | 5 |
| 5 | HQAM | 25 | 0 | 19.04 | 19.10 | 19.04 | | |
| 5 | SBSGAM | 1 | 0 | 17.30 | 17.40 | 17.23 | | |
| 5 | SBSGAM | 1 | 12 | 17.20 | 17.30 | 17.20 | 19 | 5 |
| 5 | SBSGAM | 1 | 24 | 17.30 | 17.28 | 17.34 | | |
| 5 | SBSGAM | 12 | 0 | 17.21 | 17.26 | 17.26 | | |
| 5 | SBSGAM | 12 | 7 | 17.21 | 17.25 | 17.20 | 19 | 5 |
| 5 | SBSGAM | 12 | 13 | 17.19 | 17.23 | 17.13 | | |
| 5 | SBSGAM | 25 | 0 | 17.28 | 17.31 | 17.28 | | |



Band 42 FCC Part27Q Ant6

| Bit (Hz) | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mid Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|
| Channel | | | | 42190 | 42990 | 42990 | | |
| Frequency (MHz) | | | | 3465 | 3500 | 3545 | | |
| 20 | QPSK | 1 | 0 | 22.78 | 22.80 | 22.86 | 24 | 0 |
| 20 | QPSK | 1 | 48 | 22.75 | 22.81 | 22.79 | | |
| 20 | QPSK | 1 | 96 | 22.88 | 22.81 | 22.82 | | |
| 20 | QPSK | 50 | 0 | 21.79 | 21.80 | 21.79 | | |
| 20 | QPSK | 50 | 24 | 21.78 | 21.85 | 21.81 | | |
| 20 | QPSK | 50 | 48 | 21.85 | 21.85 | 21.82 | | |
| 20 | QPSK | 100 | 0 | 21.80 | 21.85 | 21.77 | | |
| 20 | HQAM | 1 | 0 | 21.72 | 21.78 | 21.75 | 23 | 1 |
| 20 | HQAM | 1 | 48 | 21.64 | 21.69 | 21.62 | | |
| 20 | HQAM | 1 | 96 | 21.58 | 21.68 | 21.62 | | |
| 20 | HQAM | 50 | 0 | 20.38 | 20.44 | 20.41 | | |
| 20 | HQAM | 50 | 24 | 20.39 | 20.48 | 20.38 | | |
| 20 | HQAM | 50 | 50 | 20.40 | 20.48 | 20.43 | 22 | 2 |
| 20 | HQAM | 100 | 0 | 20.37 | 20.48 | 20.37 | | |
| 20 | HQAM | 1 | 0 | 20.45 | 20.51 | 20.43 | | |
| 20 | HQAM | 1 | 48 | 20.46 | 20.48 | 20.41 | 22 | 2 |
| 20 | HQAM | 1 | 96 | 20.38 | 20.43 | 20.38 | | |
| 20 | HQAM | 50 | 0 | 19.39 | 19.47 | 19.40 | | |
| 20 | HQAM | 50 | 24 | 19.43 | 19.47 | 19.43 | | |
| 20 | HQAM | 50 | 50 | 19.44 | 19.50 | 19.51 | | |
| 20 | HQAM | 100 | 0 | 19.47 | 19.49 | 19.41 | 21 | 3 |
| 20 | SBSQAM | 1 | 0 | 17.78 | 17.81 | 17.74 | | |
| 20 | SBSQAM | 1 | 48 | 17.65 | 17.72 | 17.62 | | |
| 20 | SBSQAM | 1 | 96 | 17.75 | 17.76 | 17.73 | 19 | 5 |
| 20 | SBSQAM | 50 | 0 | 17.65 | 17.72 | 17.68 | | |
| 20 | SBSQAM | 50 | 24 | 17.69 | 17.73 | 17.71 | | |
| 20 | SBSQAM | 50 | 50 | 17.84 | 17.74 | 17.72 | 19 | 5 |
| 20 | SBSQAM | 100 | 0 | 17.63 | 17.73 | 17.68 | | |
| Channel | | | | 42195 | 42990 | 43015 | | |
| Frequency (MHz) | | | | 3472.5 | 3500 | 3527.5 | | |
| 15 | QPSK | 1 | 0 | 22.73 | 22.80 | 22.74 | 24 | 0 |
| 15 | QPSK | 1 | 47 | 22.69 | 22.79 | 22.74 | | |
| 15 | QPSK | 1 | 74 | 22.88 | 22.86 | 22.72 | | |
| 15 | QPSK | 36 | 0 | 21.79 | 21.79 | 21.69 | | |
| 15 | QPSK | 36 | 20 | 21.74 | 21.82 | 21.73 | | |
| 15 | QPSK | 36 | 39 | 21.61 | 21.82 | 21.69 | 23 | 1 |
| 15 | QPSK | 75 | 0 | 21.72 | 21.79 | 21.71 | | |
| 15 | HQAM | 1 | 0 | 21.65 | 21.69 | 21.70 | | |
| 15 | HQAM | 1 | 37 | 21.63 | 21.68 | 21.68 | 23 | 1 |
| 15 | HQAM | 1 | 74 | 21.57 | 21.61 | 21.57 | | |
| 15 | HQAM | 36 | 0 | 20.32 | 20.36 | 20.35 | | |
| 15 | HQAM | 36 | 39 | 20.32 | 20.43 | 20.38 | 22 | 2 |
| 15 | HQAM | 36 | 59 | 20.29 | 20.38 | 20.35 | | |
| 15 | HQAM | 75 | 0 | 20.31 | 20.38 | 20.33 | | |
| 15 | HQAM | 1 | 0 | 20.35 | 20.48 | 20.35 | 22 | 2 |
| 15 | HQAM | 1 | 37 | 20.30 | 20.43 | 20.38 | | |
| 15 | HQAM | 1 | 74 | 20.30 | 20.41 | 20.36 | | |
| 15 | HQAM | 36 | 3 | 19.34 | 19.42 | 19.35 | | |
| 15 | HQAM | 36 | 20 | 19.34 | 19.42 | 19.34 | 21 | 3 |
| 15 | HQAM | 36 | 39 | 19.41 | 19.55 | 19.44 | | |
| 15 | HQAM | 75 | 0 | 19.44 | 19.47 | 19.35 | | |
| 15 | SBSQAM | 1 | 0 | 17.69 | 17.77 | 17.65 | 19 | 5 |
| 15 | SBSQAM | 1 | 37 | 17.65 | 17.69 | 17.66 | | |
| 15 | SBSQAM | 1 | 74 | 17.68 | 17.75 | 17.65 | | |
| 15 | SBSQAM | 36 | 0 | 17.67 | 17.65 | 17.68 | | |
| 15 | SBSQAM | 36 | 20 | 17.65 | 17.65 | 17.69 | 19 | 5 |
| 15 | SBSQAM | 36 | 39 | 17.63 | 17.70 | 17.70 | | |
| 15 | SBSQAM | 75 | 0 | 17.64 | 17.64 | 17.60 | | |
| Channel | | | | 42195 | 42990 | 43015 | | |
| Frequency (MHz) | | | | 3475 | 3500 | 3525 | | |
| 10 | QPSK | 1 | 0 | 22.70 | 22.80 | 22.80 | 24 | 0 |
| 10 | QPSK | 1 | 25 | 22.71 | 22.80 | 22.72 | | |
| 10 | QPSK | 1 | 49 | 22.77 | 22.83 | 22.74 | | |
| 10 | QPSK | 36 | 0 | 21.68 | 21.68 | 21.75 | | |
| 10 | QPSK | 25 | 12 | 21.69 | 21.78 | 21.77 | | |
| 10 | QPSK | 25 | 25 | 21.78 | 21.77 | 21.72 | | |
| 10 | QPSK | 50 | 0 | 21.71 | 21.77 | 21.68 | 23 | 1 |
| 10 | HQAM | 1 | 0 | 21.67 | 21.75 | 21.67 | | |
| 10 | HQAM | 1 | 25 | 21.58 | 21.63 | 21.60 | | |
| 10 | HQAM | 1 | 49 | 21.53 | 21.60 | 21.51 | 23 | 1 |
| 10 | HQAM | 25 | 0 | 20.31 | 20.38 | 20.31 | | |
| 10 | HQAM | 25 | 12 | 20.38 | 20.38 | 20.35 | | |
| 10 | HQAM | 25 | 25 | 20.39 | 20.38 | 20.33 | 22 | 2 |
| 10 | HQAM | 50 | 0 | 20.30 | 20.30 | 20.28 | | |
| 10 | HQAM | 1 | 0 | 20.38 | 20.41 | 20.38 | | |
| 10 | HQAM | 1 | 25 | 20.39 | 20.38 | 20.35 | 22 | 2 |
| 10 | HQAM | 1 | 49 | 20.30 | 20.40 | 20.36 | | |
| 10 | HQAM | 25 | 0 | 19.35 | 19.37 | 19.37 | | |
| 10 | HQAM | 25 | 12 | 19.37 | 19.41 | 19.38 | | |
| 10 | HQAM | 25 | 25 | 19.41 | 19.51 | 19.48 | 21 | 3 |
| 10 | HQAM | 50 | 0 | 19.38 | 19.48 | 19.34 | | |
| 10 | SBSQAM | 1 | 0 | 17.70 | 17.73 | 17.73 | | |
| 10 | SBSQAM | 1 | 25 | 17.59 | 17.64 | 17.57 | 19 | 5 |
| 10 | SBSQAM | 1 | 49 | 17.70 | 17.65 | 17.65 | | |
| 10 | SBSQAM | 25 | 0 | 17.64 | 17.72 | 17.68 | | |
| 10 | SBSQAM | 25 | 13 | 17.64 | 17.69 | 17.65 | | |
| 10 | SBSQAM | 25 | 25 | 17.57 | 17.54 | 17.61 | 19 | 5 |
| 10 | SBSQAM | 50 | 0 | 17.54 | 17.69 | 17.64 | | |
| Channel | | | | 42195 | 42990 | 43015 | | |
| Frequency (MHz) | | | | 3482.5 | 3500 | 3517.5 | | |
| 5 | QPSK | 1 | 0 | 22.68 | 22.67 | 22.79 | 24 | 0 |
| 5 | QPSK | 1 | 15 | 22.67 | 22.73 | 22.74 | | |
| 5 | QPSK | 1 | 24 | 22.78 | 22.81 | 22.78 | | |
| 5 | QPSK | 12 | 0 | 21.78 | 21.79 | 21.71 | | |
| 5 | QPSK | 12 | 7 | 21.67 | 21.65 | 21.71 | 23 | 1 |
| 5 | QPSK | 12 | 13 | 21.75 | 21.82 | 21.79 | | |
| 5 | QPSK | 25 | 0 | 21.75 | 21.68 | 21.73 | | |
| 5 | HQAM | 1 | 0 | 21.65 | 21.71 | 21.64 | | |
| 5 | HQAM | 1 | 12 | 21.58 | 21.67 | 21.62 | 23 | 1 |
| 5 | HQAM | 1 | 24 | 21.47 | 21.65 | 21.52 | | |
| 5 | HQAM | 12 | 0 | 20.33 | 20.40 | 20.37 | | |
| 5 | HQAM | 12 | 7 | 20.35 | 20.42 | 20.27 | 22 | 2 |
| 5 | HQAM | 12 | 13 | 20.38 | 20.38 | 20.38 | | |
| 5 | HQAM | 25 | 0 | 20.31 | 20.31 | 20.28 | | |
| 5 | HQAM | 1 | 0 | 20.41 | 20.47 | 20.36 | | |
| 5 | HQAM | 1 | 12 | 20.07 | 20.40 | 20.34 | 22 | 2 |
| 5 | HQAM | 1 | 24 | 20.33 | 20.34 | 20.37 | | |
| 5 | HQAM | 12 | 0 | 19.37 | 19.38 | 19.33 | | |
| 5 | HQAM | 12 | 7 | 19.32 | 19.35 | 19.30 | 21 | 3 |
| 5 | HQAM | 12 | 13 | 19.42 | 19.49 | 19.49 | | |
| 5 | HQAM | 25 | 0 | 19.36 | 19.41 | 19.36 | | |
| 5 | SBSQAM | 1 | 0 | 17.74 | 17.70 | 17.70 | | |
| 5 | SBSQAM | 1 | 12 | 17.59 | 17.68 | 17.60 | 19 | 5 |
| 5 | SBSQAM | 1 | 24 | 17.68 | 17.67 | 17.69 | | |
| 5 | SBSQAM | 12 | 0 | 17.68 | 17.73 | 17.61 | | |
| 5 | SBSQAM | 12 | 7 | 17.65 | 17.71 | 17.60 | | |
| 5 | SBSQAM | 12 | 13 | 17.63 | 17.72 | 17.70 | 19 | 5 |
| 5 | SBSQAM | 25 | 0 | 17.67 | 17.67 | 17.67 | | |



Band 42 FCC Part27Q Ant8

| Bit (Hz) | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mid Ch / Freq | Power High Ch / Freq | Tune-up Unit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|--------------------|----------|
| Channel | | | | 42190 | 42990 | 42990 | | |
| Frequency (MHz) | | | | 3440 | 3660 | 3440 | | |
| 20 | QPSK | 1 | 0 | 22.91 | 22.92 | 22.94 | 24 | 0 |
| 20 | QPSK | 1 | 48 | 22.75 | 22.78 | 22.79 | | |
| 20 | QPSK | 1 | 96 | 22.81 | 22.83 | 22.79 | | |
| 20 | QPSK | 50 | 0 | 22.02 | 22.03 | 22.02 | | |
| 20 | QPSK | 50 | 24 | 22.04 | 22.06 | 22.02 | 23 | 1 |
| 20 | QPSK | 50 | 60 | 21.90 | 22.01 | 21.93 | | |
| 20 | QPSK | 100 | 0 | 22.01 | 22.11 | 22.03 | | |
| 20 | HQAM | 1 | 0 | 22.05 | 22.05 | 22.06 | | |
| 20 | HQAM | 1 | 48 | 21.99 | 22.04 | 22.00 | 23 | 1 |
| 20 | HQAM | 1 | 96 | 22.03 | 22.05 | 21.98 | | |
| 20 | HQAM | 50 | 0 | 20.89 | 20.90 | 20.90 | | |
| 20 | HQAM | 50 | 24 | 20.85 | 20.91 | 20.84 | 22 | 2 |
| 20 | HQAM | 50 | 50 | 20.80 | 20.81 | 20.83 | | |
| 20 | HQAM | 100 | 0 | 20.81 | 20.86 | 20.86 | | |
| 20 | HQAM | 1 | 0 | 20.57 | 20.57 | 20.54 | | |
| 20 | HQAM | 1 | 48 | 20.90 | 20.95 | 20.92 | 22 | 2 |
| 20 | HQAM | 1 | 96 | 20.92 | 20.95 | 20.92 | | |
| 20 | HQAM | 50 | 0 | 19.87 | 19.97 | 19.89 | | |
| 20 | HQAM | 50 | 24 | 19.89 | 19.99 | 19.89 | 21 | 3 |
| 20 | HQAM | 50 | 50 | 19.94 | 19.97 | 19.95 | | |
| 20 | HQAM | 100 | 0 | 19.89 | 19.90 | 19.82 | | |
| 20 | SBSAM | 1 | 0 | 17.90 | 17.83 | 17.90 | | |
| 20 | SBSAM | 1 | 48 | 17.91 | 17.83 | 17.85 | 19 | 5 |
| 20 | SBSAM | 1 | 96 | 17.81 | 17.82 | 17.88 | | |
| 20 | SBSAM | 50 | 0 | 17.84 | 17.86 | 17.82 | | |
| 20 | SBSAM | 50 | 24 | 17.98 | 17.99 | 17.94 | 19 | 5 |
| 20 | SBSAM | 50 | 50 | 17.88 | 17.87 | 17.87 | | |
| 20 | SBSAM | 100 | 0 | 17.93 | 17.98 | 17.94 | | |
| Channel | | | | 42195 | 42990 | 43015 | | |
| Frequency (MHz) | | | | 3457.5 | 3500 | 3457.5 | | |
| 15 | QPSK | 1 | 0 | 22.73 | 22.72 | 22.71 | 24 | 0 |
| 15 | QPSK | 1 | 47 | 22.73 | 22.70 | 22.61 | | |
| 15 | QPSK | 1 | 74 | 22.80 | 22.80 | 22.73 | | |
| 15 | QPSK | 36 | 0 | 22.01 | 21.97 | 21.94 | | |
| 15 | QPSK | 36 | 20 | 21.95 | 21.98 | 21.95 | 23 | 1 |
| 15 | QPSK | 36 | 36 | 21.89 | 21.91 | 21.98 | | |
| 15 | QPSK | 75 | 0 | 21.98 | 22.09 | 22.01 | | |
| 15 | HQAM | 1 | 0 | 22.04 | 22.04 | 22.04 | | |
| 15 | HQAM | 1 | 37 | 21.95 | 22.01 | 21.98 | 23 | 1 |
| 15 | HQAM | 1 | 74 | 21.94 | 22.01 | 21.93 | | |
| 15 | HQAM | 36 | 0 | 20.88 | 20.98 | 20.92 | | |
| 15 | HQAM | 36 | 30 | 20.74 | 20.83 | 20.82 | 22 | 2 |
| 15 | HQAM | 36 | 59 | 20.71 | 20.83 | 20.81 | | |
| 15 | HQAM | 75 | 0 | 20.83 | 20.88 | 20.81 | | |
| 15 | HQAM | 1 | 0 | 20.79 | 20.84 | 20.85 | 22 | 2 |
| 15 | HQAM | 1 | 37 | 20.83 | 20.91 | 20.82 | | |
| 15 | HQAM | 1 | 74 | 20.84 | 20.86 | 20.77 | | |
| 15 | HQAM | 36 | 3 | 19.82 | 19.85 | 19.83 | | |
| 15 | HQAM | 36 | 20 | 19.79 | 19.88 | 19.85 | 21 | 3 |
| 15 | HQAM | 36 | 39 | 19.69 | 19.81 | 19.87 | | |
| 15 | HQAM | 75 | 0 | 19.84 | 19.93 | 19.75 | | |
| 15 | SBSAM | 1 | 0 | 17.89 | 17.87 | 17.83 | 19 | 5 |
| 15 | SBSAM | 1 | 37 | 17.88 | 17.84 | 17.78 | | |
| 15 | SBSAM | 1 | 74 | 17.78 | 17.83 | 17.81 | | |
| 15 | SBSAM | 36 | 0 | 17.92 | 17.87 | 17.83 | | |
| 15 | SBSAM | 36 | 20 | 17.90 | 17.89 | 17.88 | 19 | 5 |
| 15 | SBSAM | 36 | 39 | 17.83 | 17.86 | 17.83 | | |
| 15 | SBSAM | 75 | 0 | 17.86 | 17.86 | 17.84 | | |
| Channel | | | | 42195 | 42990 | 43015 | | |
| Frequency (MHz) | | | | 3465 | 3500 | 3465 | | |
| 10 | QPSK | 1 | 0 | 22.83 | 22.84 | 22.83 | 24 | 0 |
| 10 | QPSK | 1 | 25 | 22.88 | 22.88 | 22.88 | | |
| 10 | QPSK | 1 | 49 | 22.75 | 22.80 | 22.78 | | |
| 10 | QPSK | 36 | 0 | 22.00 | 22.05 | 21.98 | | |
| 10 | QPSK | 25 | 12 | 21.90 | 21.98 | 22.00 | 23 | 1 |
| 10 | QPSK | 25 | 25 | 21.81 | 21.92 | 21.91 | | |
| 10 | QPSK | 50 | 0 | 21.97 | 22.04 | 21.98 | | |
| 10 | HQAM | 1 | 0 | 21.98 | 22.01 | 22.04 | | |
| 10 | HQAM | 1 | 25 | 21.99 | 22.03 | 21.98 | 23 | 1 |
| 10 | HQAM | 1 | 49 | 21.94 | 22.00 | 21.99 | | |
| 10 | HQAM | 25 | 0 | 20.81 | 20.90 | 20.87 | | |
| 10 | HQAM | 25 | 12 | 20.74 | 20.90 | 20.82 | 22 | 2 |
| 10 | HQAM | 25 | 25 | 20.74 | 20.83 | 20.81 | | |
| 10 | HQAM | 50 | 0 | 20.86 | 20.83 | 20.82 | | |
| 10 | HQAM | 1 | 0 | 20.84 | 20.87 | 20.98 | | |
| 10 | HQAM | 1 | 25 | 20.89 | 20.85 | 20.89 | 22 | 2 |
| 10 | HQAM | 25 | 0 | 19.79 | 19.90 | 19.81 | | |
| 10 | HQAM | 25 | 12 | 19.79 | 19.91 | 19.83 | 21 | 3 |
| 10 | HQAM | 25 | 25 | 19.90 | 19.85 | 19.91 | | |
| 10 | HQAM | 50 | 0 | 19.79 | 19.82 | 19.75 | | |
| 10 | SBSAM | 1 | 0 | 17.85 | 17.84 | 17.81 | | |
| 10 | SBSAM | 1 | 25 | 17.88 | 17.81 | 17.74 | 19 | 5 |
| 10 | SBSAM | 1 | 49 | 17.71 | 17.87 | 17.83 | | |
| 10 | SBSAM | 25 | 0 | 17.90 | 17.84 | 17.84 | | |
| 10 | SBSAM | 25 | 13 | 17.88 | 17.86 | 17.87 | 19 | 5 |
| 10 | SBSAM | 25 | 25 | 17.83 | 17.85 | 17.77 | | |
| 10 | SBSAM | 50 | 0 | 17.91 | 17.90 | 17.88 | | |
| Channel | | | | 42195 | 42990 | 43015 | | |
| Frequency (MHz) | | | | 3462.5 | 3500 | 3462.5 | | |
| 5 | QPSK | 1 | 0 | 22.83 | 22.82 | 22.84 | 24 | 0 |
| 5 | QPSK | 1 | 15 | 22.89 | 22.87 | 22.84 | | |
| 5 | QPSK | 1 | 24 | 22.71 | 22.74 | 22.72 | | |
| 5 | QPSK | 12 | 0 | 21.98 | 22.04 | 21.98 | | |
| 5 | QPSK | 12 | 7 | 21.99 | 21.97 | 21.91 | 23 | 1 |
| 5 | QPSK | 12 | 13 | 21.89 | 21.92 | 21.91 | | |
| 5 | QPSK | 25 | 0 | 21.97 | 22.02 | 21.98 | | |
| 5 | HQAM | 1 | 0 | 21.97 | 22.08 | 21.95 | | |
| 5 | HQAM | 1 | 12 | 21.96 | 22.01 | 21.90 | 23 | 1 |
| 5 | HQAM | 1 | 24 | 22.00 | 22.01 | 21.94 | | |
| 5 | HQAM | 12 | 0 | 20.83 | 20.97 | 20.89 | | |
| 5 | HQAM | 12 | 7 | 20.84 | 20.83 | 20.79 | 22 | 2 |
| 5 | HQAM | 12 | 13 | 20.77 | 20.89 | 20.76 | | |
| 5 | HQAM | 25 | 0 | 20.82 | 20.88 | 20.85 | | |
| 5 | HQAM | 1 | 0 | 20.81 | 20.88 | 20.85 | | |
| 5 | HQAM | 1 | 12 | 20.88 | 20.84 | 20.90 | 22 | 2 |
| 5 | HQAM | 1 | 24 | 20.83 | 20.91 | 20.79 | | |
| 5 | HQAM | 12 | 0 | 19.76 | 19.86 | 19.87 | | |
| 5 | HQAM | 12 | 7 | 19.80 | 19.92 | 19.83 | 21 | 3 |
| 5 | HQAM | 25 | 0 | 19.84 | 19.81 | 19.90 | | |
| 5 | SBSAM | 1 | 0 | 17.89 | 17.84 | 17.85 | | |
| 5 | SBSAM | 1 | 12 | 17.81 | 17.84 | 17.79 | 19 | 5 |
| 5 | SBSAM | 1 | 24 | 17.78 | 17.84 | 17.80 | | |
| 5 | SBSAM | 12 | 0 | 17.83 | 17.88 | 17.81 | | |
| 5 | SBSAM | 12 | 7 | 17.94 | 17.87 | 17.85 | 19 | 5 |
| 5 | SBSAM | 12 | 13 | 17.85 | 17.91 | 17.79 | | |
| 5 | SBSAM | 25 | 0 | 17.89 | 17.91 | 17.84 | | |



Reduced Power Mode for ECI 2

| GSM/DCI Art 0 | Base Average Power (dBm) | | | Frame Average Power (dBm) | | |
|-----------------|--------------------------|-------|-------|---------------------------|-------|-------|
| | 942 | 948 | 954 | 1412 | 1418 | 1424 |
| TX Channel | 300 | 306 | 312 | 308 | 314 | 320 |
| Frequency (MHz) | 824.2 | 830.4 | 836.6 | 824.2 | 830.4 | 836.6 |
| OPRS 1 Tx level | 31.83 | 31.69 | 31.60 | 33.00 | 22.61 | 22.00 |
| OPRS 2 Tx level | 33.57 | 33.61 | 33.54 | 33.50 | 22.91 | 22.84 |
| OPRS 3 Tx level | 30.47 | 30.50 | 30.45 | 32.00 | 24.47 | 24.43 |
| OPRS 4 Tx level | 28.44 | 28.50 | 28.42 | 30.00 | 24.16 | 24.16 |
| OPRS 4 Tx level | 27.33 | 27.30 | 27.31 | 29.00 | 24.33 | 24.31 |

| GSM/DCI Art 0 | Base Average Power (dBm) | | | Frame Average Power (dBm) | | |
|-----------------|--------------------------|-------|--------|---------------------------|-------|--------|
| | 942 | 948 | 954 | 1412 | 1418 | 1424 |
| TX Channel | 512 | 961 | 910 | 512 | 961 | 910 |
| Frequency (MHz) | 1102.2 | 1102 | 1102.2 | 1102.2 | 1102 | 1102.2 |
| OPRS 1 Tx level | 27.80 | 27.61 | 27.81 | 29.00 | 18.93 | 18.93 |
| OPRS 2 Tx level | 27.91 | 27.62 | 27.80 | 29.00 | 18.91 | 18.86 |
| OPRS 3 Tx level | 24.50 | 24.50 | 24.50 | 26.00 | 20.71 | 20.83 |
| OPRS 4 Tx level | 23.83 | 23.92 | 23.86 | 25.00 | 20.83 | 20.88 |

| Base | WCDMA 3.1 Art 0 | | | WCDMA 3.1 Art 0 | | | WCDMA 3.1 Art 0 | | |
|-----------------|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|
| | 942 | 948 | 954 | 1412 | 1418 | 1424 | 1412 | 1418 | 1424 |
| TX Channel | 942 | 948 | 954 | 1412 | 1418 | 1424 | 4152 | 4162 | 4153 |
| Frequency (MHz) | 1862.2 | 1868 | 1874 | 1112.2 | 1118 | 1124 | 4262 | 4267 | 4268 |
| SCPP (dBm) | 22.09 | 22.27 | 22.15 | 23.00 | 22.01 | 22.12 | 23.00 | 24.30 | 24.31 |



Band 66 Ant 0 EC12

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Turn-up | MPE |
|-----------------|------------|---------|-----------|-------------|-------------|-------------|------------|------|
| | | | | Low | Mid | High | | |
| Channel | | | | Ch. / Freq. | Ch. / Freq. | Ch. / Freq. | Test (dBm) | (dB) |
| Frequency (MHz) | | | | 1790 | 1745 | 1770 | | |
| 20 | QPSK | 1 | 0 | 23.14 | 23.27 | 23.15 | 24 | 0 |
| 20 | QPSK | 1 | -69 | 23.07 | 23.12 | 23.08 | | |
| 20 | QPSK | 1 | 99 | 23.13 | 23.18 | 23.10 | | |
| 20 | QPSK | 50 | 0 | 22.14 | 22.25 | 22.12 | 23 | 1 |
| 20 | QPSK | 50 | -24 | 22.16 | 22.12 | 22.07 | | |
| 20 | QPSK | 50 | 50 | 22.13 | 22.16 | 22.13 | | |
| 20 | QPSK | 100 | 0 | 22.05 | 22.24 | 22.09 | | |



Band 38 Ant 0 ECI2

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mode Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|----------------------|----------------------|---------------------|----------|
| Channel | | | | 37850 | 38050 | 38150 | | |
| Frequency (MHz) | | | | 2440 | 2440 | 2430 | | |
| 20 | QPSK | 1 | 0 | 23.55 | 23.57 | 23.45 | 25 | 0 |
| 20 | QPSK | 1 | 40 | 23.44 | 23.45 | 23.35 | | |
| 20 | QPSK | 1 | 80 | 23.41 | 23.40 | 23.37 | | |
| 20 | QPSK | 50 | 0 | 22.43 | 22.52 | 22.60 | | |
| 20 | QPSK | 50 | 24 | 22.48 | 22.53 | 22.42 | 24 | 1 |
| 20 | QPSK | 50 | 60 | 22.48 | 22.53 | 22.45 | | |
| 20 | QPSK | 100 | 0 | 22.39 | 22.52 | 22.39 | | |

Band 41 Ant 0 ECI2

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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 | 2411.5 | 2463 | 2369.5 | 2460 | | |
| 20 | QPSK | 1 | 0 | 24.41 | 24.38 | 24.43 | 24.30 | 24.37 | 25 | 0 |
| 20 | QPSK | 1 | 40 | 24.42 | 24.27 | 24.48 | 24.17 | 24.18 | | |
| 20 | QPSK | 1 | 80 | 24.21 | 24.31 | 24.39 | 24.21 | 24.24 | | |
| 20 | QPSK | 50 | 0 | 23.38 | 23.42 | 23.57 | 23.28 | 23.34 | | |
| 20 | QPSK | 50 | 24 | 23.43 | 23.37 | 23.48 | 23.29 | 23.29 | 24 | 1 |
| 20 | QPSK | 50 | 50 | 23.32 | 23.40 | 23.44 | 23.32 | 23.38 | | |
| 20 | QPSK | 100 | 0 | 23.38 | 23.38 | 23.42 | 23.33 | 23.31 | | |

Band 41 HPUE Ant 0 ECI2

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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 | 2411.5 | 2463 | 2369.5 | 2460 | | |
| 20 | QPSK | 1 | 0 | 25.79 | 25.77 | 25.81 | 25.71 | 25.80 | 28 | 0 |
| 20 | QPSK | 1 | 40 | 25.73 | 25.65 | 25.86 | 25.61 | 25.52 | | |
| 20 | QPSK | 1 | 80 | 25.72 | 25.66 | 25.80 | 25.60 | 25.59 | | |
| 20 | QPSK | 50 | 0 | 25.83 | 25.80 | 25.95 | 25.72 | 25.73 | | |
| 20 | QPSK | 50 | 24 | 25.79 | 25.71 | 25.89 | 25.70 | 25.68 | 27 | 1 |
| 20 | QPSK | 50 | 50 | 25.69 | 25.83 | 25.82 | 25.74 | 25.73 | | |
| 20 | QPSK | 100 | 0 | 25.74 | 25.79 | 25.80 | 25.70 | 25.69 | | |



| GEMMEL AVE 1 | | Rx Average Power (dBm) | | | Tx Channel | | Tx Power (dBm) | | |
|-----------------|-------|------------------------|-------|-------|------------|-------|----------------|-------|-------|
| | 198 | 199 | 201 | 198 | 199 | 201 | 198 | 199 | 201 |
| Frequency (MHz) | 824.2 | 836.4 | 848.6 | 824.2 | 836.4 | 848.6 | 824.2 | 836.4 | 848.6 |
| OPRS 1 Tx (dB) | 31.52 | 31.51 | 31.53 | 33.50 | 32.52 | 32.51 | 32.53 | 34.50 | 33.52 |
| OPRS 2 Tx (dB) | 30.02 | 30.03 | 30.04 | 32.00 | 31.02 | 31.03 | 31.04 | 33.00 | 32.02 |
| OPRS 3 Tx (dB) | 29.48 | 29.51 | 29.49 | 30.00 | 29.20 | 29.25 | 29.22 | 31.00 | 30.18 |
| OPRS 4 Tx (dB) | 27.38 | 27.39 | 27.32 | 29.00 | 28.38 | 28.39 | 28.32 | 30.00 | 29.00 |

| Band | | WCDMA 8 AVE 1 | | | WCDMA 8 AVE 2 | | | WCDMA 8 AVE 3 | | |
|-----------------|-------|---------------|-------|-------|---------------|-------|-------|---------------|-------|--|
| | 5902 | 5900 | 5908 | 5912 | 5915 | 5913 | 4132 | 4132 | 4233 | |
| TX Channel | 5902 | 5900 | 5908 | 5912 | 5915 | 5913 | 4132 | 4132 | 4233 | |
| Frequency (MHz) | 932.4 | 930.0 | 937.6 | 937.2 | 939.0 | 938.8 | 457.4 | 457.4 | 466.8 | |
| SCPP Rx (dB) | 21.33 | 21.41 | 21.32 | 23.00 | 21.31 | 21.54 | 21.43 | 23.00 | 24.11 | |



| GSM 1900 Ant 2 | Total Average Power (dBm) | | | Tune-up Limit (dBm) | Flame-Average Power (dBm) | | | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
| | 512 | 861 | 819 | | 512 | 861 | 819 | |
| Frequency (MHz) | 1990.2 | 1990 | 1990.8 | | 1990.2 | 1990 | 1990.8 | |
| OPRR 1 Tx site | 23.24 | 23.13 | 23.22 | 25.00 | 14.70 | 14.83 | 14.73 | 15.00 |
| OPRR 2 Tx site | 21.24 | 21.34 | 21.36 | 22.00 | 15.24 | 15.34 | 15.36 | 15.00 |
| OPRR 3 Tx site | 19.81 | 19.50 | 19.56 | 20.00 | 15.30 | 15.24 | 15.30 | 15.00 |
| OPRR 4 Tx site | 17.55 | 17.71 | 17.67 | 19.00 | 14.50 | 14.71 | 14.67 | 15.00 |

| Band | ISCDMA-E Ant 2 | | | Tune-up Limit (dBm) | ISCDMA-E Ant 2 | | | Tune-up Limit (dBm) |
|-----------------|----------------|------|-------|---------------------|----------------|-------|-------|---------------------|
| | 9520 | 9500 | 9538 | | 1512 | 1413 | 1513 | |
| TX Channel | 9520 | 9500 | 9538 | | 1512 | 1413 | 1513 | |
| Frequency (MHz) | 892.4 | 890 | 897.8 | 15.00 | 15.42 | 15.50 | 15.56 | 15.80 |
| SCPP Band 68 | BNC 12.2025p | | | | | | | |



| Band | WCDMA II AX 3 | | | Time- slot | WCDMA IV AX 3 | | | Time- slot | |
|-----------------|---------------|-------|--------|---------------|---------------|--------|--------|---------------|-------|
| TX Channel | 9452 | 9450 | 9538 | 1812 | 1413 | 1513 | 1812 | | |
| RS Channel | 9452 | 9450 | 9538 | 1812 | 1413 | 1513 | 1812 | | |
| Frequency (MHz) | 1852.4 | 1850 | 1907.8 | 1712.8 | 1712.8 | 1712.8 | 1712.8 | | |
| SCPF for W | RNC 12 Phase | 14.91 | 15.03 | 14.92 | 16.10 | 15.81 | 15.05 | 15.54 | 16.70 |



Band 66 Ant 1 EC12

| ISW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up test (dBm) | MPE (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|--------------------|----------|
| Channel | | | | 1.50000 | 1.50000 | 1.50000 | | |
| Frequency (MHz) | | | | 1750 | 1745 | 1750 | | |
| 20 | QPSK | 1 | 0 | 22.95 | 23.11 | 22.99 | | |
| 20 | QPSK | 1 | -48 | 22.92 | 23.00 | 22.91 | 24 | 0 |
| 20 | QPSK | 1 | 99 | 22.91 | 22.97 | 22.91 | | |
| 20 | QPSK | 50 | 0 | 21.97 | 22.00 | 21.96 | | |
| 20 | QPSK | 50 | -24 | 21.95 | 22.03 | 21.93 | 23 | 1 |
| 20 | QPSK | 50 | 50 | 22.04 | 22.02 | 21.92 | | |
| 20 | QPSK | 100 | 0 | 22.00 | 22.02 | 21.99 | | |



Band 38 Ant 1 EC12

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Med Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|
| Channel | | | | 37850 | 38050 | 38150 | | |
| Frequency (MHz) | | | | 2490 | 2505 | 2520 | | |
| 20 | QPSK | 1 | 0 | 23.50 | 23.55 | 23.53 | 25 | 0 |
| 20 | QPSK | 1 | 48 | 23.54 | 23.59 | 23.48 | | |
| 20 | QPSK | 1 | 96 | 23.58 | 23.64 | 23.38 | | |
| 20 | QPSK | 50 | 0 | 22.39 | 22.59 | 22.55 | | |
| 20 | QPSK | 50 | 24 | 22.48 | 22.47 | 22.47 | 24 | 1 |
| 20 | QPSK | 50 | 60 | 22.52 | 22.45 | 22.41 | | |
| 20 | QPSK | 100 | 0 | 22.52 | 22.55 | 22.52 | | |

Band 41 Ant 1 EC12

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | 2505 | 2493.5 | 2483 | 2496.5 | 2490 | | |
| 20 | QPSK | 1 | 0 | 23.58 | 23.59 | 23.57 | 23.65 | 23.54 | 25 | 0 |
| 20 | QPSK | 1 | 48 | 23.49 | 23.61 | 23.55 | 23.45 | 23.41 | | |
| 20 | QPSK | 1 | 96 | 23.45 | 23.52 | 23.63 | 23.53 | 23.48 | | |
| 20 | QPSK | 50 | 0 | 22.55 | 22.54 | 22.73 | 22.69 | 22.50 | | |
| 20 | QPSK | 50 | 24 | 22.54 | 22.49 | 22.58 | 22.47 | 22.47 | 24 | 1 |
| 20 | QPSK | 50 | 50 | 22.43 | 22.40 | 22.52 | 22.50 | 22.52 | | |
| 20 | QPSK | 100 | 0 | 22.52 | 22.58 | 22.67 | 22.65 | 22.60 | | |

Band 41 HPUE Ant 1 EC12

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | 2505 | 2493.5 | 2483 | 2496.5 | 2490 | | |
| 20 | QPSK | 1 | 0 | 25.68 | 25.68 | 25.71 | 25.67 | 25.65 | 27 | 0 |
| 20 | QPSK | 1 | 48 | 25.59 | 25.55 | 25.63 | 25.61 | 25.51 | | |
| 20 | QPSK | 1 | 96 | 25.51 | 25.55 | 25.67 | 25.60 | 25.59 | | |
| 20 | QPSK | 50 | 0 | 24.71 | 24.64 | 24.77 | 24.70 | 24.64 | | |
| 20 | QPSK | 50 | 24 | 24.49 | 24.55 | 24.60 | 24.58 | 24.53 | 26 | 1 |
| 20 | QPSK | 50 | 50 | 24.47 | 24.50 | 24.74 | 24.50 | 24.58 | | |
| 20 | QPSK | 100 | 0 | 24.70 | 24.83 | 24.78 | 24.65 | 24.61 | | |



| Band 2 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) | MRR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 10.87 | 10.89 | 10.88 | 12.1 | 0 | |
| 20 | QPSK | 1 | 49 | 10.82 | 10.81 | 10.82 | | | |
| 20 | QPSK | 1 | 99 | 10.83 | 10.83 | 10.87 | | | |
| 20 | QPSK | 50 | 0 | 10.86 | 10.72 | 10.81 | | | |
| 20 | QPSK | 50 | 24 | 10.84 | 10.71 | 10.88 | | | |
| 20 | QPSK | 50 | 50 | 10.59 | 10.57 | 10.83 | | | |
| 20 | QPSK | 100 | 0 | 10.81 | 10.72 | 10.87 | | | |

| Band 4 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) | MRR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 12.37 | 12.40 | 12.25 | 13.5 | 0 | |
| 20 | QPSK | 1 | 49 | 12.21 | 12.25 | 12.28 | | | |
| 20 | QPSK | 1 | 99 | 12.35 | 12.34 | 12.24 | | | |
| 20 | QPSK | 50 | 0 | 12.24 | 12.35 | 12.13 | | | |
| 20 | QPSK | 50 | 24 | 12.33 | 12.33 | 12.32 | | | |
| 20 | QPSK | 50 | 50 | 12.35 | 12.28 | 12.21 | | | |
| 20 | QPSK | 100 | 0 | 12.27 | 12.25 | 12.24 | | | |

| Band 7 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) | MRR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 14.20 | 14.20 | 14.17 | 15.4 | 0 | |
| 20 | QPSK | 1 | 49 | 14.09 | 14.22 | 14.13 | | | |
| 20 | QPSK | 1 | 99 | 14.05 | 14.27 | 14.14 | | | |
| 20 | QPSK | 50 | 0 | 14.10 | 14.21 | 14.16 | | | |
| 20 | QPSK | 50 | 24 | 14.18 | 14.11 | 14.12 | | | |
| 20 | QPSK | 50 | 50 | 14.12 | 14.16 | 14.13 | | | |
| 20 | QPSK | 100 | 0 | 14.08 | 14.18 | 14.12 | | | |



| Band 25 Ant 2 EC12 | | | | | | | | |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Time-up limit (dbr) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 10.73 | 10.75 | 10.76 | 12.1 | 0 |
| 20 | QPSK | 1 | 49 | 10.84 | 10.75 | 10.73 | | |
| 20 | QPSK | 1 | 99 | 10.84 | 10.71 | 10.82 | | |
| 20 | QPSK | 50 | 0 | 10.71 | 10.71 | 10.84 | | |
| 20 | QPSK | 50 | 24 | 10.73 | 10.75 | 10.74 | | |
| 20 | QPSK | 50 | 50 | 10.86 | 10.72 | 10.70 | 12.1 | 0 |
| 20 | QPSK | 100 | 0 | 10.88 | 10.75 | 10.70 | | |

| Band 66 Ant 2 EC12 | | | | | | | | |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Time-up limit (dbr) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 12.37 | 12.41 | 12.37 | 13.5 | 0 |
| 20 | QPSK | 1 | 49 | 12.34 | 12.38 | 12.29 | | |
| 20 | QPSK | 1 | 99 | 12.33 | 12.40 | 12.31 | | |
| 20 | QPSK | 50 | 0 | 12.35 | 12.41 | 12.19 | | |
| 20 | QPSK | 50 | 24 | 12.37 | 12.38 | 12.34 | | |
| 20 | QPSK | 50 | 50 | 12.34 | 12.40 | 12.22 | 13.5 | 0 |
| 20 | QPSK | 100 | 0 | 12.31 | 12.38 | 12.33 | | |



Band 38 Ant 2 ECI2

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mode Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|----------------------|----------------------|---------------------|----------|
| Channel | | | | 37650 | 38050 | 38150 | | |
| Frequency (MHz) | | | | 2490 | 2500 | 2610 | | |
| 20 | QPSK | 1 | 0 | 14.37 | 14.74 | 14.66 | 15.5 | 0 |
| 20 | QPSK | 1 | 49 | 14.08 | 14.67 | 14.60 | | |
| 20 | QPSK | 1 | 99 | 14.48 | 14.67 | 14.47 | | |
| 20 | QPSK | 50 | 0 | 14.54 | 14.70 | 14.63 | | |
| 20 | QPSK | 50 | 24 | 14.57 | 14.54 | 14.58 | 15.5 | 0 |
| 20 | QPSK | 50 | 50 | 14.62 | 14.64 | 14.59 | | |
| 20 | QPSK | 100 | 0 | 14.45 | 14.64 | 14.62 | | |

Band 41 Ant 2 ECI2

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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 | 2493.5 | 2503 | 2506.5 | 2493 | | |
| 20 | QPSK | 1 | 0 | 14.63 | 14.71 | 14.70 | 14.74 | 14.68 | 15.5 | 0 |
| 20 | QPSK | 1 | 49 | 14.59 | 14.70 | 14.68 | 14.74 | 14.84 | | |
| 20 | QPSK | 1 | 99 | 14.52 | 14.60 | 14.74 | 14.68 | 14.68 | | |
| 20 | QPSK | 50 | 0 | 14.53 | 14.61 | 14.73 | 14.69 | 14.54 | | |
| 20 | QPSK | 50 | 24 | 14.62 | 14.67 | 14.67 | 14.67 | 14.67 | 15.5 | 0 |
| 20 | QPSK | 50 | 50 | 14.62 | 14.63 | 14.65 | 14.61 | 14.61 | | |
| 20 | QPSK | 100 | 0 | 14.56 | 14.61 | 14.66 | 14.58 | 14.58 | | |

Band 41 HPUE Ant 2 ECI2

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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 | 2493.5 | 2503 | 2506.5 | 2493 | | |
| 20 | QPSK | 1 | 0 | 15.79 | 15.86 | 15.93 | 15.81 | 15.89 | 17.1 | 0 |
| 20 | QPSK | 1 | 49 | 15.80 | 15.76 | 15.84 | 15.84 | 15.82 | | |
| 20 | QPSK | 1 | 99 | 15.71 | 15.74 | 15.84 | 15.78 | 15.79 | | |
| 20 | QPSK | 50 | 0 | 15.76 | 15.87 | 15.91 | 15.78 | 15.73 | | |
| 20 | QPSK | 50 | 24 | 15.76 | 15.72 | 15.87 | 15.78 | 15.78 | 17.1 | 0 |
| 20 | QPSK | 50 | 50 | 15.70 | 15.74 | 15.83 | 15.78 | 15.73 | | |
| 20 | QPSK | 100 | 0 | 15.72 | 15.75 | 15.86 | 15.71 | 15.81 | | |



| Band 2 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) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 15.97 | 15.45 | 15.39 | 16.7 | 0 |
| 20 | QPSK | 1 | 40 | 15.16 | 15.35 | 15.24 | | |
| 20 | QPSK | 1 | 99 | 15.26 | 15.37 | 15.33 | | |
| 20 | QPSK | 50 | 0 | 15.31 | 15.44 | 15.33 | 16.7 | 0 |
| 20 | QPSK | 50 | 24 | 15.29 | 15.24 | 15.28 | | |
| 20 | QPSK | 50 | 50 | 15.29 | 15.32 | 15.26 | | |
| 20 | QPSK | 100 | 0 | 15.23 | 15.30 | 15.25 | | |

| Band 4 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) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 14.11 | 14.37 | 14.22 | 15.5 | 0 |
| 20 | QPSK | 1 | 40 | 14.10 | 14.10 | 14.11 | | |
| 20 | QPSK | 1 | 99 | 14.15 | 14.17 | 14.01 | | |
| 20 | QPSK | 50 | 0 | 14.10 | 14.26 | 14.07 | 15.5 | 0 |
| 20 | QPSK | 50 | 24 | 14.04 | 14.10 | 14.06 | | |
| 20 | QPSK | 50 | 50 | 14.04 | 14.17 | 14.15 | | |
| 20 | QPSK | 100 | 0 | 14.08 | 14.25 | 14.07 | | |

| Band 7 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) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 15.26 | 15.29 | 15.28 | 16.3 | 0 |
| 20 | QPSK | 1 | 40 | 15.11 | 15.21 | 15.14 | | |
| 20 | QPSK | 1 | 99 | 15.15 | 15.24 | 15.23 | | |
| 20 | QPSK | 50 | 0 | 15.07 | 15.26 | 15.20 | 16.3 | 0 |
| 20 | QPSK | 50 | 24 | 15.18 | 15.31 | 15.24 | | |
| 20 | QPSK | 50 | 50 | 15.15 | 15.22 | 15.20 | | |
| 20 | QPSK | 100 | 0 | 15.09 | 15.26 | 15.14 | | |



| Band 25 Ant 3 EC12 | | | | | | | | | |
|--------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dBm) | MFR (dB) | |
| Channel | | | | 18140 | 18240 | 18340 | | | |
| Frequency (MHz) | | | | 1860 | 1880 | 1900 | | | |
| 20 | QPSK | 1 | 0 | 15.43 | 15.42 | 15.42 | | | |
| 20 | QPSK | 1 | 48 | 15.27 | 15.42 | 15.31 | 16.7 | 0 | |
| 20 | QPSK | 1 | 99 | 15.38 | 15.38 | 15.40 | | | |
| 20 | QPSK | 50 | 0 | 15.37 | 15.42 | 15.34 | | | |
| 20 | QPSK | 50 | 24 | 15.29 | 15.37 | 15.40 | | | |
| 20 | QPSK | 50 | 50 | 15.25 | 15.32 | 15.32 | 16.7 | 0 | |
| 20 | QPSK | 100 | 0 | 15.29 | 15.35 | 15.35 | | | |

| Band 66 Ant 3 EC12 | | | | | | | | | |
|--------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dBm) | MFR (dB) | |
| Channel | | | | 13200 | 13300 | 13400 | | | |
| Frequency (MHz) | | | | 1720 | 1745 | 1770 | | | |
| 20 | QPSK | 1 | 0 | 14.19 | 14.31 | 14.21 | | | |
| 20 | QPSK | 1 | 48 | 14.15 | 14.26 | 14.23 | 15.5 | 0 | |
| 20 | QPSK | 1 | 99 | 14.18 | 14.27 | 14.12 | | | |
| 20 | QPSK | 50 | 0 | 14.15 | 14.30 | 14.20 | | | |
| 20 | QPSK | 50 | 24 | 14.22 | 14.27 | 14.21 | | | |
| 20 | QPSK | 50 | 50 | 14.10 | 14.17 | 14.18 | 15.5 | 0 | |
| 20 | QPSK | 100 | 0 | 14.17 | 14.24 | 14.18 | | | |



| Band 38 Ant 3 ECI2 | | | | | | | | | |
|--------------------|------------|---------|-----------|------------------------|-----------------------|-----------------------|--------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Line Ch. / Freq. | Power Mid Ch. / Freq. | Power Hgt Ch. / Freq. | Tune-up limit (dB) | MPS (dB) | |
| Channel | | | | 38780 | 38900 | 38160 | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 17.86 | 18.05 | 18.03 | 18.7 | 0 | |
| 20 | QPSK | 1 | 49 | 17.87 | 17.85 | 17.83 | | | |
| 20 | QPSK | 1 | 99 | 17.86 | 17.87 | 17.84 | | | |
| 20 | QPSK | 50 | 0 | 17.75 | 18.01 | 17.80 | | | |
| 20 | QPSK | 50 | 24 | 17.87 | 17.85 | 17.82 | | | |
| 20 | QPSK | 50 | 50 | 17.85 | 17.82 | 17.87 | | | |
| 20 | QPSK | 100 | 0 | 17.84 | 18.04 | 17.82 | | | |

| Band 41 Ant 3 ECI2 | | | | | | | | | | |
|--------------------|------------|---------|-----------|-----------------------|---------------------------|-----------------------|----------------------------|-----------------------|--------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low-Mid Ch. / Freq. | Power Mid Ch. / Freq. | Power High-Mid Ch. / Freq. | Power Hgt Ch. / Freq. | Tune-up limit (dB) | MPS (dB) |
| Channel | | | | 38760 | 40185 | 40620 | 41055 | 41490 | | |
| Frequency (MHz) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 18.13 | 18.21 | 18.14 | 18.06 | 18.07 | 18.7 | 0 |
| 20 | QPSK | 1 | 49 | 18.09 | 18.04 | 18.07 | 17.94 | 18.00 | | |
| 20 | QPSK | 1 | 99 | 17.95 | 17.89 | 18.09 | 17.96 | 17.99 | | |
| 20 | QPSK | 50 | 0 | 18.05 | 17.95 | 18.11 | 17.96 | 17.94 | | |
| 20 | QPSK | 50 | 24 | 17.87 | 17.89 | 18.07 | 18.01 | 17.95 | | |
| 20 | QPSK | 50 | 50 | 17.87 | 18.01 | 17.99 | 18.00 | 18.04 | | |
| 20 | QPSK | 100 | 0 | 18.01 | 17.92 | 18.04 | 17.88 | 17.88 | | |



Band 42 FCC Part27Q Ant4 EC12

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------|-----------------|----------------|---------------------|----------|
| | | | | Low Ch / Freq | Midst Ch / Freq | High Ch / Freq | | |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | 3490 | 3590 | 3645 | | |
| 20 | QPSK | 1 | 0 | 14.25 | 14.25 | 14.21 | 15.1 | 0 |
| 20 | QPSK | 1 | 49 | 14.26 | 14.29 | 13.88 | | |
| 20 | QPSK | 1 | 99 | 13.84 | 13.85 | 13.83 | | |
| 20 | QPSK | 50 | 0 | 14.21 | 14.23 | 14.13 | 15.1 | 0 |
| 20 | QPSK | 50 | 24 | 13.99 | 13.99 | 13.90 | | |
| 20 | QPSK | 50 | 49 | 13.81 | 13.85 | 13.81 | | |
| 20 | HQAM | 1 | 0 | 14.20 | 14.20 | 14.18 | 15.1 | 0 |
| 20 | HQAM | 1 | 49 | 14.02 | 14.04 | 13.90 | | |
| 20 | HQAM | 1 | 99 | 13.84 | 13.85 | 13.75 | | |
| 20 | HQAM | 50 | 0 | 14.19 | 14.23 | 14.15 | 15.1 | 0 |
| 20 | HQAM | 50 | 24 | 13.99 | 13.99 | 13.73 | | |
| 20 | HQAM | 50 | 50 | 14.23 | 14.26 | 14.16 | | |
| 20 | HQAM | 100 | 0 | 14.20 | 14.20 | 14.20 | 15.1 | 0 |
| 20 | HQAM | 100 | 0 | 13.85 | 13.85 | 13.74 | | |
| 20 | HQAM | 100 | 0 | 13.85 | 13.93 | 13.74 | | |
| 20 | SRSSAM | 1 | 0 | 14.23 | 14.20 | 14.12 | 15.1 | 0 |
| 20 | SRSSAM | 1 | 49 | 14.01 | 14.00 | 13.92 | | |
| 20 | SRSSAM | 1 | 99 | 13.85 | 13.85 | 13.72 | | |
| 20 | SRSSAM | 50 | 0 | 14.19 | 14.26 | 14.11 | 15.1 | 0 |
| 20 | SRSSAM | 50 | 24 | 14.15 | 14.23 | 14.17 | | |
| 20 | SRSSAM | 50 | 50 | 13.99 | 14.08 | 13.93 | | |
| 20 | SRSSAM | 100 | 0 | 13.83 | 13.88 | 13.78 | | |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | 3675 | 3705 | 3642.5 | | |
| 15 | QPSK | 1 | 0 | 14.15 | 14.20 | 14.13 | 15.1 | 0 |
| 15 | QPSK | 1 | 37 | 14.01 | 13.99 | 13.90 | | |
| 15 | QPSK | 1 | 74 | 13.87 | 13.88 | 13.75 | | |
| 15 | QPSK | 36 | 0 | 14.12 | 14.22 | 14.10 | 15.1 | 0 |
| 15 | QPSK | 36 | 20 | 13.96 | 13.95 | 13.82 | | |
| 15 | QPSK | 36 | 36 | 13.85 | 13.83 | 13.72 | | |
| 15 | QPSK | 75 | 0 | 14.16 | 14.23 | 14.09 | 15.1 | 0 |
| 15 | HQAM | 1 | 0 | 13.97 | 13.99 | 13.81 | | |
| 15 | HQAM | 1 | 37 | 13.74 | 13.82 | 13.75 | | |
| 15 | HQAM | 1 | 74 | 14.14 | 14.22 | 14.09 | 15.1 | 0 |
| 15 | HQAM | 36 | 0 | 13.86 | 13.95 | 13.86 | | |
| 15 | HQAM | 36 | 36 | 13.77 | 13.81 | 13.69 | | |
| 15 | HQAM | 36 | 36 | 14.17 | 14.23 | 14.09 | 15.1 | 0 |
| 15 | HQAM | 75 | 0 | 13.96 | 14.02 | 13.88 | | |
| 15 | HQAM | 1 | 0 | 13.84 | 13.85 | 13.65 | | |
| 15 | HQAM | 1 | 37 | 14.15 | 14.13 | 14.11 | 15.1 | 0 |
| 15 | HQAM | 1 | 74 | 13.96 | 13.96 | 13.91 | | |
| 15 | HQAM | 36 | 3 | 13.78 | 13.82 | 13.72 | | |
| 15 | HQAM | 36 | 20 | 14.07 | 14.12 | 14.10 | 15.1 | 0 |
| 15 | HQAM | 36 | 36 | 13.88 | 13.89 | 13.82 | | |
| 15 | HQAM | 75 | 0 | 13.81 | 13.85 | 13.85 | | |
| 15 | SRSSAM | 1 | 0 | 14.19 | 14.12 | 14.03 | 15.1 | 0 |
| 15 | SRSSAM | 1 | 37 | 13.98 | 13.83 | 13.87 | | |
| 15 | SRSSAM | 1 | 74 | 13.76 | 13.78 | 13.64 | | |
| 15 | SRSSAM | 36 | 0 | 14.18 | 14.15 | 14.05 | 15.1 | 0 |
| 15 | SRSSAM | 36 | 20 | 14.07 | 14.20 | 14.12 | | |
| 15 | SRSSAM | 36 | 36 | 13.93 | 14.02 | 13.90 | | |
| 15 | SRSSAM | 75 | 0 | 13.77 | 13.85 | 13.76 | | |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | 3655 | 3690 | 3645 | | |
| 10 | QPSK | 1 | 0 | 14.19 | 14.20 | 14.13 | 15.1 | 0 |
| 10 | QPSK | 1 | 25 | 14.04 | 14.04 | 13.96 | | |
| 10 | QPSK | 1 | 49 | 13.87 | 13.88 | 13.73 | | |
| 10 | QPSK | 36 | 0 | 14.14 | 14.21 | 14.08 | 15.1 | 0 |
| 10 | QPSK | 25 | 12 | 13.90 | 13.94 | 13.85 | | |
| 10 | QPSK | 25 | 25 | 13.88 | 13.84 | 13.72 | | |
| 10 | HQAM | 1 | 0 | 14.12 | 14.20 | 14.12 | 15.1 | 0 |
| 10 | HQAM | 1 | 0 | 13.95 | 13.98 | 13.84 | | |
| 10 | HQAM | 1 | 25 | 13.80 | 13.84 | 13.66 | | |
| 10 | HQAM | 1 | 49 | 14.16 | 14.21 | 14.09 | 15.1 | 0 |
| 10 | HQAM | 25 | 0 | 13.87 | 13.99 | 13.88 | | |
| 10 | HQAM | 25 | 12 | 13.68 | 13.63 | 13.53 | | |
| 10 | HQAM | 25 | 25 | 14.17 | 14.23 | 14.13 | 15.1 | 0 |
| 10 | HQAM | 50 | 0 | 13.99 | 13.98 | 13.92 | | |
| 10 | HQAM | 1 | 0 | 13.85 | 13.85 | 13.67 | | |
| 10 | HQAM | 1 | 25 | 14.18 | 14.17 | 14.05 | 15.1 | 0 |
| 10 | HQAM | 1 | 49 | 13.91 | 13.98 | 13.80 | | |
| 10 | HQAM | 25 | 0 | 13.77 | 13.82 | 13.69 | | |
| 10 | HQAM | 25 | 12 | 14.12 | 14.16 | 14.09 | 15.1 | 0 |
| 10 | HQAM | 25 | 25 | 13.90 | 13.95 | 13.80 | | |
| 10 | HQAM | 50 | 0 | 13.79 | 13.85 | 13.71 | | |
| 10 | SRSSAM | 1 | 0 | 14.20 | 14.16 | 14.03 | 15.1 | 0 |
| 10 | SRSSAM | 1 | 25 | 13.95 | 13.95 | 13.85 | | |
| 10 | SRSSAM | 1 | 49 | 13.80 | 13.79 | 13.65 | | |
| 10 | SRSSAM | 25 | 0 | 14.13 | 14.22 | 14.07 | 15.1 | 0 |
| 10 | SRSSAM | 25 | 13 | 14.11 | 14.17 | 14.13 | | |
| 10 | SRSSAM | 25 | 25 | 13.81 | 14.03 | 13.87 | | |
| 10 | SRSSAM | 50 | 0 | 13.74 | 13.80 | 13.75 | | |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | 3635.5 | 3630 | 3647.5 | | |
| 5 | QPSK | 1 | 0 | 14.18 | 14.23 | 14.14 | 15.1 | 0 |
| 5 | QPSK | 1 | 12 | 13.98 | 14.00 | 13.90 | | |
| 5 | QPSK | 1 | 24 | 13.87 | 13.88 | 13.80 | | |
| 5 | QPSK | 12 | 0 | 14.14 | 14.20 | 14.08 | 15.1 | 0 |
| 5 | QPSK | 12 | 7 | 13.97 | 13.92 | 13.85 | | |
| 5 | QPSK | 12 | 13 | 13.83 | 13.81 | 13.71 | | |
| 5 | QPSK | 25 | 0 | 14.11 | 14.16 | 14.09 | 15.1 | 0 |
| 5 | HQAM | 1 | 0 | 13.92 | 13.94 | 13.82 | | |
| 5 | HQAM | 1 | 12 | 13.78 | 13.84 | 13.71 | | |
| 5 | HQAM | 1 | 24 | 14.13 | 14.23 | 14.10 | 15.1 | 0 |
| 5 | HQAM | 12 | 0 | 13.89 | 13.97 | 13.86 | | |
| 5 | HQAM | 12 | 7 | 13.77 | 13.80 | 13.64 | | |
| 5 | HQAM | 12 | 13 | 14.16 | 14.13 | 14.13 | 15.1 | 0 |
| 5 | HQAM | 25 | 0 | 13.98 | 14.00 | 13.91 | | |
| 5 | HQAM | 1 | 0 | 13.81 | 13.84 | 13.67 | | |
| 5 | HQAM | 1 | 12 | 14.14 | 14.19 | 14.13 | 15.1 | 0 |
| 5 | HQAM | 1 | 24 | 13.88 | 13.99 | 13.86 | | |
| 5 | HQAM | 12 | 0 | 13.68 | 13.62 | 13.56 | | |
| 5 | HQAM | 12 | 7 | 14.05 | 14.13 | 14.06 | 15.1 | 0 |
| 5 | HQAM | 12 | 13 | 13.90 | 13.98 | 13.79 | | |
| 5 | HQAM | 25 | 0 | 13.77 | 13.85 | 13.68 | | |
| 5 | SRSSAM | 1 | 0 | 14.17 | 14.14 | 14.05 | 15.1 | 0 |
| 5 | SRSSAM | 1 | 12 | 13.97 | 13.95 | 13.88 | | |
| 5 | SRSSAM | 1 | 24 | 13.77 | 13.79 | 13.63 | | |
| 5 | SRSSAM | 12 | 0 | 14.09 | 14.18 | 14.03 | 15.1 | 0 |
| 5 | SRSSAM | 12 | 7 | 14.12 | 14.17 | 14.08 | | |
| 5 | SRSSAM | 12 | 13 | 13.97 | 13.99 | 13.89 | | |
| 5 | SRSSAM | 25 | 0 | 13.76 | 13.80 | 13.72 | | |



| Band 42 FCC Part27Q Ant6 EC12 | | | | | | | | | |
|-------------------------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mid Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | 3425 | 3500 | 3575 | | | |
| 20 | QPSK | 1 | 0 | 15.21 | 15.32 | 15.37 | 16.3 | 0 | |
| 20 | QPSK | 1 | 49 | 15.24 | 15.34 | 15.25 | | | |
| 20 | QPSK | 1 | 99 | 15.28 | 15.40 | 15.29 | | | |
| 20 | QPSK | 50 | 0 | 15.19 | 15.37 | 15.25 | | | |
| 20 | QPSK | 50 | 24 | 15.20 | 15.25 | 15.15 | 16.3 | 0 | |
| 20 | QPSK | 50 | 49 | 15.27 | 15.25 | 15.28 | | | |
| 20 | QPSK | 100 | 0 | 15.21 | 15.38 | 15.26 | | | |
| 20 | HQAM | 1 | 0 | 15.17 | 15.29 | 15.21 | | | |
| 20 | HQAM | 1 | 49 | 15.30 | 15.33 | 15.26 | 16.3 | 0 | |
| 20 | HQAM | 1 | 99 | 15.19 | 15.38 | 15.34 | | | |
| 20 | HQAM | 50 | 0 | 15.17 | 15.32 | 15.16 | | | |
| 20 | HQAM | 50 | 24 | 15.20 | 15.32 | 15.28 | | | |
| 20 | HQAM | 50 | 50 | 15.20 | 15.31 | 15.30 | 16.3 | 0 | |
| 20 | HQAM | 100 | 0 | 15.17 | 15.28 | 15.23 | | | |
| 20 | HQAM | 1 | 0 | 15.33 | 15.35 | 15.25 | | | |
| 20 | HQAM | 1 | 49 | 15.29 | 15.33 | 15.29 | 16.3 | 0 | |
| 20 | HQAM | 1 | 99 | 15.24 | 15.34 | 15.34 | | | |
| 20 | HQAM | 50 | 0 | 15.14 | 15.29 | 15.22 | | | |
| 20 | HQAM | 50 | 24 | 15.33 | 15.35 | 15.28 | 16.3 | 0 | |
| 20 | HQAM | 50 | 50 | 15.23 | 15.28 | 15.29 | | | |
| 20 | HQAM | 100 | 0 | 15.17 | 15.30 | 15.14 | | | |
| 20 | ZBQAM | 1 | 0 | 15.33 | 15.37 | 15.23 | | | |
| 20 | ZBQAM | 1 | 49 | 15.21 | 15.33 | 15.22 | 16.3 | 0 | |
| 20 | ZBQAM | 1 | 99 | 15.22 | 15.31 | 15.21 | | | |
| 20 | ZBQAM | 50 | 0 | 15.35 | 15.37 | 15.24 | | | |
| 20 | ZBQAM | 50 | 24 | 15.21 | 15.31 | 15.35 | 16.3 | 0 | |
| 20 | ZBQAM | 50 | 50 | 15.19 | 15.28 | 15.18 | | | |
| 20 | ZBQAM | 100 | 0 | 15.14 | 15.34 | 15.27 | | | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | 3425 | 3500 | 3575 | | | |
| 15 | QPSK | 1 | 0 | 15.21 | 15.37 | 15.32 | | | |
| 15 | QPSK | 1 | 47 | 15.16 | 15.28 | 15.18 | 16.3 | 0 | |
| 15 | QPSK | 1 | 74 | 15.31 | 15.32 | 15.22 | | | |
| 15 | QPSK | 36 | 0 | 15.13 | 15.31 | 15.24 | | | |
| 15 | QPSK | 36 | 20 | 15.16 | 15.18 | 15.10 | 16.3 | 0 | |
| 15 | QPSK | 36 | 39 | 15.20 | 15.31 | 15.24 | | | |
| 15 | QPSK | 75 | 0 | 15.13 | 15.27 | 15.20 | | | |
| 15 | HQAM | 1 | 0 | 15.10 | 15.26 | 15.12 | | | |
| 15 | HQAM | 1 | 37 | 15.22 | 15.27 | 15.21 | 16.3 | 0 | |
| 15 | HQAM | 1 | 74 | 15.14 | 15.34 | 15.27 | | | |
| 15 | HQAM | 36 | 0 | 15.09 | 15.28 | 15.09 | | | |
| 15 | HQAM | 36 | 39 | 15.27 | 15.22 | 15.22 | 16.3 | 0 | |
| 15 | HQAM | 36 | 39 | 15.18 | 15.28 | 15.20 | | | |
| 15 | HQAM | 75 | 0 | 15.14 | 15.19 | 15.15 | | | |
| 15 | HQAM | 1 | 0 | 15.30 | 15.35 | 15.20 | | | |
| 15 | HQAM | 1 | 37 | 15.28 | 15.29 | 15.25 | 16.3 | 0 | |
| 15 | HQAM | 1 | 74 | 15.22 | 15.34 | 15.26 | | | |
| 15 | HQAM | 36 | 3 | 15.09 | 15.22 | 15.17 | | | |
| 15 | HQAM | 36 | 20 | 15.24 | 15.33 | 15.25 | 16.3 | 0 | |
| 15 | HQAM | 36 | 39 | 15.21 | 15.28 | 15.18 | | | |
| 15 | HQAM | 75 | 0 | 15.12 | 15.25 | 15.10 | | | |
| 15 | ZBQAM | 1 | 0 | 15.23 | 15.30 | 15.19 | 16.3 | 0 | |
| 15 | ZBQAM | 1 | 37 | 15.14 | 15.27 | 15.28 | | | |
| 15 | ZBQAM | 1 | 74 | 15.18 | 15.25 | 15.18 | | | |
| 15 | ZBQAM | 36 | 0 | 15.28 | 15.34 | 15.20 | | | |
| 15 | ZBQAM | 36 | 20 | 15.15 | 15.23 | 15.27 | 16.3 | 0 | |
| 15 | ZBQAM | 36 | 39 | 15.16 | 15.19 | 15.15 | | | |
| 15 | ZBQAM | 75 | 0 | 15.20 | 15.25 | 15.40 | | | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | 3425 | 3500 | 3575 | | | |
| 10 | QPSK | 1 | 0 | 15.19 | 15.30 | 15.26 | | | |
| 10 | QPSK | 1 | 25 | 15.17 | 15.30 | 15.22 | 16.3 | 0 | |
| 10 | QPSK | 1 | 49 | 15.31 | 15.33 | 15.20 | | | |
| 10 | QPSK | 36 | 0 | 15.08 | 15.32 | 15.19 | | | |
| 10 | QPSK | 25 | 12 | 15.16 | 15.19 | 15.12 | 16.3 | 0 | |
| 10 | QPSK | 25 | 25 | 15.22 | 15.31 | 15.24 | | | |
| 10 | QPSK | 50 | 0 | 15.13 | 15.30 | 15.18 | | | |
| 10 | HQAM | 1 | 0 | 15.12 | 15.20 | 15.15 | | | |
| 10 | HQAM | 1 | 25 | 15.21 | 15.27 | 15.19 | 16.3 | 0 | |
| 10 | HQAM | 1 | 49 | 15.10 | 15.29 | 15.20 | | | |
| 10 | HQAM | 25 | 0 | 15.14 | 15.25 | 15.12 | | | |
| 10 | HQAM | 25 | 12 | 15.22 | 15.25 | 15.19 | 16.3 | 0 | |
| 10 | HQAM | 25 | 25 | 15.17 | 15.27 | 15.25 | | | |
| 10 | HQAM | 50 | 0 | 15.12 | 15.19 | 15.15 | | | |
| 10 | HQAM | 1 | 0 | 15.27 | 15.37 | 15.17 | | | |
| 10 | HQAM | 1 | 25 | 15.22 | 15.24 | 15.23 | 16.3 | 0 | |
| 10 | HQAM | 25 | 0 | 15.21 | 15.25 | 15.28 | | | |
| 10 | HQAM | 25 | 12 | 15.27 | 15.30 | 15.24 | 16.3 | 0 | |
| 10 | HQAM | 25 | 25 | 15.16 | 15.23 | 15.23 | | | |
| 10 | HQAM | 50 | 0 | 15.10 | 15.21 | 15.07 | | | |
| 10 | ZBQAM | 1 | 0 | 15.31 | 15.30 | 15.18 | | | |
| 10 | ZBQAM | 1 | 25 | 15.14 | 15.26 | 15.24 | 16.3 | 0 | |
| 10 | ZBQAM | 1 | 49 | 15.16 | 15.28 | 15.14 | | | |
| 10 | ZBQAM | 25 | 0 | 15.28 | 15.29 | 15.16 | | | |
| 10 | ZBQAM | 25 | 12 | 15.15 | 15.28 | 15.27 | 16.3 | 0 | |
| 10 | ZBQAM | 25 | 25 | 15.11 | 15.22 | 15.15 | | | |
| 10 | ZBQAM | 50 | 0 | 15.31 | 15.32 | 15.22 | | | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | 3425 | 3500 | 3575 | | | |
| 5 | QPSK | 1 | 0 | 15.19 | 15.32 | 15.30 | | | |
| 5 | QPSK | 1 | 15 | 15.18 | 15.28 | 15.18 | 16.3 | 0 | |
| 5 | QPSK | 1 | 24 | 15.30 | 15.32 | 15.28 | | | |
| 5 | QPSK | 12 | 0 | 15.13 | 15.32 | 15.19 | | | |
| 5 | QPSK | 12 | 7 | 15.13 | 15.32 | 15.08 | 16.3 | 0 | |
| 5 | QPSK | 12 | 13 | 15.18 | 15.32 | 15.26 | | | |
| 5 | QPSK | 25 | 0 | 15.12 | 15.31 | 15.18 | | | |
| 5 | HQAM | 1 | 0 | 15.10 | 15.23 | 15.15 | | | |
| 5 | HQAM | 1 | 12 | 15.22 | 15.27 | 15.17 | 16.3 | 0 | |
| 5 | HQAM | 1 | 24 | 15.16 | 15.33 | 15.27 | | | |
| 5 | HQAM | 12 | 0 | 15.14 | 15.29 | 15.11 | | | |
| 5 | HQAM | 12 | 7 | 15.24 | 15.25 | 15.19 | 16.3 | 0 | |
| 5 | HQAM | 12 | 13 | 15.11 | 15.25 | 15.24 | | | |
| 5 | HQAM | 25 | 0 | 15.10 | 15.20 | 15.16 | | | |
| 5 | HQAM | 1 | 0 | 15.24 | 15.31 | 15.21 | 16.3 | 0 | |
| 5 | HQAM | 1 | 12 | 15.23 | 15.25 | 15.26 | | | |
| 5 | HQAM | 1 | 24 | 15.19 | 15.31 | 15.26 | | | |
| 5 | HQAM | 12 | 0 | 15.08 | 15.19 | 15.17 | | | |
| 5 | HQAM | 12 | 7 | 15.24 | 15.31 | 15.19 | 16.3 | 0 | |
| 5 | HQAM | 12 | 13 | 15.19 | 15.38 | 15.20 | | | |
| 5 | HQAM | 25 | 0 | 15.10 | 15.22 | 15.12 | | | |
| 5 | ZBQAM | 1 | 0 | 15.24 | 15.33 | 15.18 | | | |
| 5 | ZBQAM | 1 | 12 | 15.11 | 15.28 | 15.27 | 16.3 | 0 | |
| 5 | ZBQAM | 1 | 24 | 15.16 | 15.28 | 15.11 | | | |
| 5 | ZBQAM | 12 | 0 | 15.30 | 15.32 | 15.17 | | | |
| 5 | ZBQAM | 12 | 7 | 15.12 | 15.25 | 15.30 | 16.3 | 0 | |
| 5 | ZBQAM | 12 | 13 | 15.13 | 15.25 | 15.14 | | | |
| 5 | ZBQAM | 25 | 0 | 15.32 | 15.25 | 15.17 | | | |



Band 42 FCC Part27Q Ant8 EC12

| Bit (Hz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Mid Ch. / Freq | Power High Ch. / Freq | Tune-up Int. (dBm) | MFR (dB) |
|------------------------|------------|---------|-----------|----------------------|----------------------|-----------------------|--------------------|----------|
| Channel | | | | 42190 | 42990 | 42990 | | |
| Frequency (MHz) | | | | 3460 | 3650 | 3640 | | |
| 20 | QPSK | 1 | 0 | 21.40 | 21.40 | 21.43 | 22.2 | 0 |
| 20 | QPSK | 1 | 48 | 21.21 | 21.28 | 21.22 | | |
| 20 | QPSK | 1 | 96 | 21.31 | 21.28 | 21.27 | | |
| 20 | QPSK | 50 | 0 | 21.34 | 21.42 | 21.41 | | |
| 20 | QPSK | 50 | 24 | 21.18 | 21.29 | 21.14 | 22.2 | 0 |
| 20 | QPSK | 50 | 60 | 21.25 | 21.31 | 21.28 | | |
| 20 | QPSK | 100 | 0 | 21.32 | 21.41 | 21.40 | | |
| 20 | HQAM | 1 | 0 | 21.11 | 21.16 | 21.19 | 22.2 | 0 |
| 20 | HQAM | 1 | 48 | 21.02 | 21.30 | 21.22 | | |
| 20 | HQAM | 1 | 96 | 21.37 | 21.45 | 21.40 | | |
| 20 | HQAM | 50 | 0 | 20.89 | 20.90 | 20.90 | 22 | 0.2 |
| 20 | HQAM | 50 | 24 | 20.85 | 20.91 | 20.84 | | |
| 20 | HQAM | 50 | 50 | 20.80 | 20.91 | 20.83 | | |
| 20 | HQAM | 100 | 0 | 20.91 | 20.90 | 20.89 | | |
| 20 | HQAM | 1 | 0 | 20.57 | 20.57 | 20.54 | 22 | 0.2 |
| 20 | HQAM | 1 | 48 | 20.90 | 20.95 | 20.92 | | |
| 20 | HQAM | 1 | 96 | 20.92 | 20.95 | 20.92 | | |
| 20 | HQAM | 50 | 0 | 19.87 | 19.97 | 19.89 | 20 | 2.2 |
| 20 | HQAM | 50 | 24 | 19.89 | 19.99 | 19.89 | | |
| 20 | HQAM | 50 | 50 | 19.94 | 19.97 | 19.92 | | |
| 20 | HQAM | 100 | 0 | 19.89 | 19.90 | 19.82 | | |
| 20 | SRSSAM | 1 | 0 | 17.90 | 17.83 | 17.90 | 19 | 3.2 |
| 20 | SRSSAM | 1 | 48 | 17.91 | 17.83 | 17.85 | | |
| 20 | SRSSAM | 1 | 96 | 17.81 | 17.82 | 17.88 | | |
| 20 | SRSSAM | 50 | 0 | 17.84 | 17.86 | 17.82 | 19 | 3.2 |
| 20 | SRSSAM | 50 | 24 | 17.98 | 17.99 | 17.94 | | |
| 20 | SRSSAM | 50 | 50 | 17.88 | 17.87 | 17.87 | | |
| 20 | SRSSAM | 100 | 0 | 17.93 | 17.98 | 17.94 | | |
| Channel | | | | 42190 | 42990 | 43010 | | |
| Frequency (MHz) | | | | 3462.5 | 3500 | 3542.5 | | |
| 15 | QPSK | 1 | 0 | 18.29 | 18.43 | 18.31 | 22.2 | 0 |
| 15 | QPSK | 1 | 37 | 18.19 | 18.20 | 18.18 | | |
| 15 | QPSK | 1 | 74 | 18.24 | 18.20 | 18.19 | | |
| 15 | QPSK | 36 | 0 | 18.25 | 18.32 | 18.33 | 22.2 | 0 |
| 15 | QPSK | 36 | 20 | 18.16 | 18.13 | 18.08 | | |
| 15 | QPSK | 36 | 39 | 18.16 | 18.20 | 18.19 | | |
| 15 | QPSK | 75 | 0 | 18.27 | 18.40 | 18.30 | | |
| 15 | HQAM | 1 | 0 | 18.02 | 18.09 | 18.10 | 22.2 | 0 |
| 15 | HQAM | 1 | 37 | 18.11 | 18.20 | 18.17 | | |
| 15 | HQAM | 1 | 74 | 18.31 | 18.30 | 18.32 | | |
| 15 | HQAM | 36 | 0 | 20.88 | 20.98 | 20.92 | 22 | 0.2 |
| 15 | HQAM | 36 | 39 | 20.74 | 20.83 | 20.82 | | |
| 15 | HQAM | 36 | 59 | 20.71 | 20.83 | 20.81 | | |
| 15 | HQAM | 75 | 0 | 20.83 | 20.88 | 20.81 | 22 | 0.2 |
| 15 | HQAM | 75 | 0 | 20.79 | 20.84 | 20.85 | | |
| 15 | HQAM | 1 | 37 | 20.83 | 20.81 | 20.82 | | |
| 15 | HQAM | 1 | 74 | 20.84 | 20.86 | 20.77 | 20 | 2.2 |
| 15 | HQAM | 36 | 0 | 19.82 | 19.85 | 19.83 | | |
| 15 | HQAM | 36 | 20 | 19.79 | 19.88 | 19.85 | | |
| 15 | HQAM | 36 | 39 | 19.88 | 19.85 | 19.87 | | |
| 15 | HQAM | 75 | 0 | 19.84 | 19.93 | 19.78 | | |
| 15 | SRSSAM | 1 | 0 | 17.89 | 17.87 | 17.83 | 19 | 3.2 |
| 15 | SRSSAM | 1 | 37 | 17.88 | 17.84 | 17.78 | | |
| 15 | SRSSAM | 1 | 74 | 17.78 | 17.83 | 17.81 | | |
| 15 | SRSSAM | 36 | 0 | 17.92 | 17.87 | 17.83 | 19 | 3.2 |
| 15 | SRSSAM | 36 | 20 | 17.90 | 17.89 | 17.88 | | |
| 15 | SRSSAM | 36 | 39 | 17.83 | 17.86 | 17.83 | | |
| 15 | SRSSAM | 75 | 0 | 17.86 | 17.86 | 17.84 | | |
| Channel | | | | 42190 | 42990 | | | |
| Frequency (MHz) | | | | 3465 | 3500 | 3545 | | |
| 10 | QPSK | 1 | 0 | 18.31 | 18.44 | 18.41 | 22.2 | 0 |
| 10 | QPSK | 1 | 25 | 18.13 | 18.18 | 18.16 | | |
| 10 | QPSK | 1 | 49 | 18.26 | 18.29 | 18.17 | | |
| 10 | QPSK | 36 | 0 | 18.27 | 18.34 | 18.33 | 22.2 | 0 |
| 10 | QPSK | 25 | 12 | 18.15 | 18.10 | 18.05 | | |
| 10 | QPSK | 25 | 25 | 18.24 | 18.23 | 18.13 | | |
| 10 | QPSK | 50 | 0 | 18.30 | 18.30 | 18.30 | 22 | 0.2 |
| 10 | HQAM | 1 | 0 | 18.03 | 18.09 | 18.18 | | |
| 10 | HQAM | 1 | 25 | 18.21 | 18.19 | 18.14 | | |
| 10 | HQAM | 1 | 49 | 18.27 | 18.24 | 18.31 | 22 | 0.2 |
| 10 | HQAM | 25 | 0 | 20.81 | 20.90 | 20.87 | | |
| 10 | HQAM | 25 | 12 | 20.74 | 20.90 | 20.82 | | |
| 10 | HQAM | 50 | 0 | 20.86 | 20.83 | 20.82 | 22 | 0.2 |
| 10 | HQAM | 50 | 0 | 20.84 | 20.87 | 20.98 | | |
| 10 | HQAM | 1 | 25 | 20.89 | 20.85 | 20.89 | | |
| 10 | HQAM | 1 | 49 | 20.85 | 20.89 | 20.83 | 20 | 2.2 |
| 10 | HQAM | 25 | 0 | 19.79 | 19.89 | 19.81 | | |
| 10 | HQAM | 25 | 12 | 19.79 | 19.91 | 19.83 | | |
| 10 | HQAM | 25 | 25 | 19.90 | 19.85 | 19.91 | | |
| 10 | HQAM | 50 | 0 | 19.79 | 19.82 | 19.75 | | |
| 10 | SRSSAM | 1 | 0 | 17.85 | 17.84 | 17.81 | 19 | 3.2 |
| 10 | SRSSAM | 1 | 25 | 17.88 | 17.81 | 17.74 | | |
| 10 | SRSSAM | 1 | 49 | 17.71 | 17.87 | 17.83 | | |
| 10 | SRSSAM | 25 | 0 | 17.90 | 17.84 | 17.84 | 19 | 3.2 |
| 10 | SRSSAM | 25 | 13 | 17.84 | 17.86 | 17.87 | | |
| 10 | SRSSAM | 25 | 25 | 17.83 | 17.85 | 17.77 | | |
| 10 | SRSSAM | 50 | 0 | 17.91 | 17.90 | 17.88 | | |
| Channel | | | | 42190 | 42990 | 43010 | | |
| Frequency (MHz) | | | | 3462.5 | 3500 | 3547.5 | | |
| 5 | QPSK | 1 | 0 | 18.35 | 18.44 | 18.32 | 22.2 | 0 |
| 5 | QPSK | 1 | 15 | 18.15 | 18.20 | 18.20 | | |
| 5 | QPSK | 1 | 24 | 18.21 | 18.33 | 18.20 | | |
| 5 | QPSK | 12 | 0 | 18.20 | 18.21 | 18.21 | 22.2 | 0 |
| 5 | QPSK | 12 | 7 | 18.08 | 18.13 | 18.09 | | |
| 5 | QPSK | 12 | 13 | 18.20 | 18.30 | 18.15 | | |
| 5 | QPSK | 25 | 0 | 18.29 | 18.34 | 18.39 | 22.2 | 0 |
| 5 | HQAM | 1 | 0 | 18.05 | 18.08 | 18.11 | | |
| 5 | HQAM | 1 | 12 | 18.16 | 18.24 | 18.14 | | |
| 5 | HQAM | 1 | 24 | 18.26 | 18.30 | 18.31 | 22 | 0.2 |
| 5 | HQAM | 12 | 0 | 20.83 | 20.97 | 20.89 | | |
| 5 | HQAM | 12 | 7 | 20.84 | 20.83 | 20.79 | | |
| 5 | HQAM | 12 | 13 | 20.77 | 20.89 | 20.76 | 22 | 0.2 |
| 5 | HQAM | 25 | 0 | 20.82 | 20.88 | 20.85 | | |
| 5 | HQAM | 1 | 0 | 20.81 | 20.88 | 20.89 | | |
| 5 | HQAM | 1 | 12 | 20.88 | 20.84 | 20.90 | 20 | 2.2 |
| 5 | HQAM | 1 | 24 | 20.83 | 20.91 | 20.79 | | |
| 5 | HQAM | 12 | 0 | 19.76 | 19.86 | 19.87 | | |
| 5 | HQAM | 12 | 7 | 19.80 | 19.92 | 19.83 | 20 | 2.2 |
| 5 | HQAM | 12 | 13 | 19.91 | 19.87 | 19.89 | | |
| 5 | HQAM | 25 | 0 | 19.84 | 19.81 | 19.90 | | |
| 5 | SRSSAM | 1 | 0 | 17.89 | 17.84 | 17.85 | 19 | 3.2 |
| 5 | SRSSAM | 1 | 12 | 17.81 | 17.84 | 17.79 | | |
| 5 | SRSSAM | 1 | 24 | 17.78 | 17.84 | 17.80 | | |
| 5 | SRSSAM | 12 | 0 | 17.83 | 17.88 | 17.81 | 19 | 3.2 |
| 5 | SRSSAM | 12 | 7 | 17.94 | 17.87 | 17.85 | | |
| 5 | SRSSAM | 12 | 13 | 17.85 | 17.91 | 17.79 | | |
| 5 | SRSSAM | 25 | 0 | 17.89 | 17.91 | 17.84 | | |



Reduced Power Mode for ECI 3

| GSM-RD Ant 0 | Base Average Power (dBm) | | | Frame Average Power (dBm) | | |
|-----------------|--------------------------|-------|-------|---------------------------|-------|-------|
| | 942 | 962 | 982 | 1412 | 1432 | 1452 |
| TX Channel | 942 | 962 | 982 | 1412 | 1432 | 1452 |
| Frequency (MHz) | 824.2 | 836.4 | 848.6 | 824.2 | 836.4 | 848.6 |
| OPRS 1 Tx level | 31.83 | 31.69 | 31.69 | 33.00 | 22.61 | 22.60 |
| OPRS 2 Tx level | 33.57 | 31.61 | 31.64 | 33.50 | 22.91 | 22.84 |
| OPRS 3 Tx level | 30.47 | 30.50 | 30.45 | 32.00 | 24.47 | 24.43 |
| OPRS 4 Tx level | 28.44 | 28.50 | 28.42 | 30.00 | 24.16 | 24.16 |
| OPRS 4 Tx level | 27.33 | 27.30 | 27.31 | 29.00 | 24.33 | 24.31 |

| GSM-RD Ant 0 | Base Average Power (dBm) | | | Frame Average Power (dBm) | | |
|-----------------|--------------------------|-------|--------|---------------------------|-------|--------|
| | 942 | 962 | 982 | 1412 | 1432 | 1452 |
| TX Channel | 942 | 962 | 982 | 1412 | 1432 | 1452 |
| Frequency (MHz) | 1102.2 | 1102 | 1102.2 | 1102.2 | 1102 | 1102.2 |
| OPRS 1 Tx level | 27.80 | 27.81 | 27.81 | 29.00 | 18.93 | 18.94 |
| OPRS 2 Tx level | 27.91 | 27.92 | 27.80 | 29.00 | 18.91 | 18.86 |
| OPRS 3 Tx level | 24.50 | 24.50 | 24.50 | 26.00 | 20.71 | 20.63 |
| OPRS 4 Tx level | 23.83 | 23.82 | 23.86 | 25.00 | 20.83 | 20.82 |

| Base | SCPP Port 0 | WCDMA 3.1 Ant 0 | | | WCDMA 3.1 Ant 0 | | | WCDMA 3.1 Ant 0 | | |
|-----------------|---------------|-----------------|-------|--------|-----------------|--------|--------|-----------------|-------|-------|
| | | 9402 | 9400 | 9408 | 1412 | 1413 | 1413 | 4152 | 4152 | 4153 |
| TX Channel | | 9402 | 9400 | 9408 | 1412 | 1413 | 1413 | 4152 | 4152 | 4153 |
| Frequency (MHz) | | 1862.1 | 1860 | 1860.5 | 1712.4 | 1712.6 | 1712.6 | 4304 | 4302 | 4306 |
| SCPP Port 0 | RNC 15_200bps | 18.04 | 18.00 | 17.99 | 19.30 | 21.10 | 21.07 | 22.70 | 24.20 | 24.31 |



| GSM 1900 Ant 2 | Total Average Power (dBm) | | | Tune-up Limit (dBm) | Flame-Average Power (dBm) | | | Tune-up Limit (dBm) |
|-----------------|---------------------------|--------|--------|---------------------|---------------------------|--------|--------|---------------------|
| | 512 | 661 | 810 | | 512 | 661 | 810 | |
| TX Channel | 1862 | 1880 | 1900 | | 1862 | 1880 | 1900 | |
| Frequency (MHz) | 192.2 | 193.9 | 195.6 | 22.50 | 192.2 | 193.9 | 195.6 | 22.50 |
| OPRR 1 Tx site | -28.85 | -28.75 | -28.65 | -29.65 | -19.60 | -19.75 | -19.85 | -20.00 |
| OPRR 2 Tx site | -28.23 | -28.32 | -28.21 | -28.90 | -20.21 | -20.32 | -20.21 | -20.00 |
| OPRR 3 Tx site | -28.65 | -28.52 | -28.55 | -29.10 | -20.21 | -20.26 | -20.24 | -20.00 |
| OPRR 4 Tx site | -22.72 | -22.79 | -22.75 | -23.90 | -19.72 | -19.79 | -19.75 | -20.00 |

| Band | NOCMA 19 Ant 2 | | | Tune-up Limit (dBm) | NOCMA 19 Ant 2 | | | Tune-up Limit (dBm) |
|-----------------|----------------|-------|-------|---------------------|----------------|-------|--------|---------------------|
| | 5650 | 5660 | 5658 | | 1512 | 1413 | 1513 | |
| TX Channel | 5650 | 5650 | 5658 | | 1512 | 1413 | 1513 | |
| TX Channel | 5650 | 5650 | 5658 | | 1512 | 1413 | 1513 | |
| Frequency (MHz) | 865.2 | 866 | 867.8 | 18.50 | 172.6 | 172.9 | 1729.8 | 17.50 |
| SCPP Band 66 | 17.24 | 17.28 | 17.21 | 18.50 | 18.61 | 18.71 | 18.64 | 17.50 |



| Band | WCDMA II AX 3 | | | Time-up Limit (min) | WCDMA IV AX 3 | | | Time-up Limit (min) |
|-----------------|---------------|-------|--------|---------------------------|---------------|--------|-------|---------------------------|
| TX Channel | 9452 | 9450 | 9538 | | 9452 | 9453 | 9518 | |
| RX Channel | 9452 | 9450 | 9538 | 9452 | 9453 | 9518 | | |
| Frequency (MHz) | 1852.4 | 1850 | 1857.8 | 1752.8 | 1752.8 | 1752.8 | | |
| SCPF for W | RNC 12 Phases | 16.83 | 16.83 | 16.84 | 16.78 | 16.83 | 16.84 | |



Band 66 Ant 0 EC13

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up freq. (GHz) | MFR (dB) |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------------|-------------|
| | | | | Low Ch. J. Freq. | Mid Ch. J. Freq. | High Ch. J. Freq. | | |
| Carrier | | | | 130.92 | 130.92 | 130.92 | | |
| Frequency (MHz) | | | | 1720 | 1745 | 1770 | | |
| 20 | QPSK | 1 | 0 | 20.89 | 20.72 | 20.61 | 22 | 0 |
| 20 | QPSK | 1 | 49 | 20.97 | 20.70 | 20.61 | | |
| 20 | QPSK | 1 | 99 | 20.88 | 20.63 | 20.55 | | |
| 20 | QPSK | 50 | 0 | 20.81 | 20.66 | 20.61 | 22 | 0 |
| 20 | QPSK | 50 | 54 | 20.66 | 20.55 | 20.45 | | |
| 20 | QPSK | 50 | 50 | 20.55 | 20.65 | 20.50 | | |
| 20 | QPSK | 100 | 0 | 20.54 | 20.65 | 20.55 | | |



Band 38 Ant 0 ECI3

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Med Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|
| Channel | | | | | | | | |
| | | | | 37850 | 38050 | 38150 | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 22.23 | 22.23 | 22.24 | 23.2 | 0 |
| 20 | QPSK | 1 | 48 | 22.10 | 22.18 | 22.22 | | |
| 20 | QPSK | 1 | 96 | 22.20 | 22.13 | 22.10 | | |
| 20 | QPSK | 50 | 0 | 22.10 | 22.25 | 22.21 | | |
| 20 | QPSK | 50 | 24 | 22.18 | 22.12 | 22.09 | 23.2 | 0 |
| 20 | QPSK | 50 | 60 | 22.20 | 22.20 | 22.11 | | |
| 20 | QPSK | 100 | 0 | 22.17 | 22.18 | 22.05 | | |

Band 41 Ant 0 ECI3

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 22.21 | 22.22 | 22.23 | 22.25 | 22.26 | 23.2 | 0 |
| 20 | QPSK | 1 | 48 | 22.20 | 22.16 | 22.25 | 22.28 | 22.21 | | |
| 20 | QPSK | 1 | 96 | 22.20 | 22.30 | 22.23 | 22.20 | 22.17 | | |
| 20 | QPSK | 50 | 0 | 22.23 | 22.28 | 22.35 | 22.20 | 22.15 | | |
| 20 | QPSK | 50 | 24 | 22.18 | 22.19 | 22.27 | 22.23 | 22.26 | 23.2 | 0 |
| 20 | QPSK | 50 | 50 | 22.17 | 22.17 | 22.20 | 22.20 | 22.18 | | |
| 20 | QPSK | 100 | 0 | 22.18 | 22.22 | 22.28 | 22.20 | 22.24 | | |

Band 41 HPUE Ant 0 ECI3

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 23.51 | 23.51 | 23.54 | 23.58 | 23.49 | 24.8 | 0 |
| 20 | QPSK | 1 | 48 | 23.45 | 23.41 | 23.49 | 23.42 | 23.47 | | |
| 20 | QPSK | 1 | 96 | 23.46 | 23.55 | 23.39 | 23.45 | 23.42 | | |
| 20 | QPSK | 50 | 0 | 23.38 | 23.58 | 23.07 | 23.50 | 23.45 | | |
| 20 | QPSK | 50 | 24 | 23.39 | 23.57 | 23.48 | 23.58 | 23.35 | 24.8 | 0 |
| 20 | QPSK | 50 | 50 | 23.38 | 23.52 | 23.20 | 23.54 | 23.51 | | |
| 20 | QPSK | 100 | 0 | 23.44 | 23.44 | 23.53 | 23.47 | 23.52 | | |



Band 66 Ant 1 EC13

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Turn-up | MPE |
|-----------------|------------|---------|-----------|-------------|-------------|-------------|---------|------|
| | | | | Low | Mid | High | | |
| Channel | | | | Ch. / Freq. | Ch. / Freq. | Ch. / Freq. | (dBm) | (dB) |
| Frequency (MHz) | | | | 1750 | 1745 | 1730 | | |
| 20 | QPSK | 1 | 0 | 19.94 | 19.93 | 19.95 | 21.1 | 0 |
| 20 | QPSK | 1 | -49 | 19.96 | 19.92 | 19.91 | | |
| 20 | QPSK | 1 | 99 | 19.89 | 19.81 | 19.85 | | |
| 20 | QPSK | 50 | 0 | 19.76 | 19.92 | 19.84 | 21.1 | 0 |
| 20 | QPSK | 50 | -24 | 19.81 | 19.79 | 19.85 | | |
| 20 | QPSK | 50 | 50 | 19.83 | 19.89 | 19.80 | | |
| 20 | QPSK | 100 | 0 | 19.94 | 19.90 | 19.84 | | |



Band 38 Ant 1 ECI3

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Med Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|
| Channel | | | | 37850 | 38050 | 38150 | | |
| Frequency (MHz) | | | | 2490 | 2490 | 2490 | | |
| 20 | QPSK | 1 | 0 | 21.23 | 21.21 | 21.23 | 22.1 | 0 |
| 20 | QPSK | 1 | 48 | 21.25 | 21.28 | 21.09 | | |
| 20 | QPSK | 1 | 96 | 21.17 | 21.21 | 21.16 | | |
| 20 | QPSK | 50 | 0 | 21.22 | 21.20 | 21.03 | | |
| 20 | QPSK | 50 | 24 | 21.09 | 21.21 | 21.09 | 22.1 | 0 |
| 20 | QPSK | 50 | 60 | 21.12 | 21.18 | 21.09 | | |
| 20 | QPSK | 100 | 0 | 21.12 | 21.17 | 21.07 | | |

Band 41 Ant 1 ECI3

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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 | 2493.5 | 2493 | 2493.5 | 2493 | | |
| 20 | QPSK | 1 | 0 | 21.26 | 21.26 | 21.03 | 21.22 | 21.27 | 22.1 | 0 |
| 20 | QPSK | 1 | 48 | 21.10 | 21.28 | 21.29 | 21.29 | 21.25 | | |
| 20 | QPSK | 1 | 96 | 21.17 | 21.27 | 21.28 | 21.18 | 21.22 | | |
| 20 | QPSK | 50 | 0 | 21.14 | 21.20 | 21.31 | 21.10 | 21.21 | | |
| 20 | QPSK | 50 | 24 | 21.28 | 21.26 | 21.25 | 21.18 | 21.20 | 22.1 | 0 |
| 20 | QPSK | 50 | 50 | 21.11 | 21.20 | 21.23 | 21.17 | 21.22 | | |
| 20 | QPSK | 100 | 0 | 21.15 | 21.23 | 21.32 | 21.25 | 21.18 | | |

Band 41 HPUE Ant 1 ECI3

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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 | 2493.5 | 2493 | 2493.5 | 2493 | | |
| 20 | QPSK | 1 | 0 | 22.55 | 22.58 | 22.61 | 22.58 | 22.56 | 23.7 | 0 |
| 20 | QPSK | 1 | 48 | 22.60 | 22.44 | 22.57 | 22.48 | 22.51 | | |
| 20 | QPSK | 1 | 96 | 22.55 | 22.47 | 22.51 | 22.48 | 22.53 | | |
| 20 | QPSK | 50 | 0 | 22.48 | 22.48 | 22.50 | 22.48 | 22.48 | | |
| 20 | QPSK | 50 | 24 | 22.49 | 22.42 | 22.47 | 22.58 | 22.44 | 23.7 | 0 |
| 20 | QPSK | 50 | 50 | 22.49 | 22.51 | 22.51 | 22.51 | 22.48 | | |
| 20 | QPSK | 100 | 0 | 22.50 | 22.49 | 22.57 | 22.53 | 22.43 | | |



| Band 2 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) | MRR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 15.26 | 15.26 | 15.17 | | | |
| 20 | QPSK | 1 | 49 | 15.19 | 15.21 | 15.09 | 16.4 | 0 | |
| 20 | QPSK | 1 | 99 | 15.00 | 15.15 | 15.08 | | | |
| 20 | QPSK | 50 | 0 | 15.13 | 15.25 | 15.16 | | | |
| 20 | QPSK | 50 | 24 | 15.18 | 15.25 | 15.15 | 16.4 | 0 | |
| 20 | QPSK | 50 | 50 | 15.15 | 15.15 | 15.08 | | | |
| 20 | QPSK | 100 | 0 | 15.16 | 15.24 | 15.13 | | | |

| Band 4 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) | MRR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 15.10 | 15.20 | 15.08 | | | |
| 20 | QPSK | 1 | 49 | 14.99 | 15.16 | 15.02 | 16.2 | 0 | |
| 20 | QPSK | 1 | 99 | 14.04 | 15.04 | 14.97 | | | |
| 20 | QPSK | 50 | 0 | 14.98 | 15.13 | 14.99 | | | |
| 20 | QPSK | 50 | 24 | 15.04 | 15.09 | 15.04 | 16.2 | 0 | |
| 20 | QPSK | 50 | 50 | 14.99 | 14.98 | 15.03 | | | |
| 20 | QPSK | 100 | 0 | 15.03 | 15.10 | 15.08 | | | |

| Band 7 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) | MRR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 16.75 | 16.83 | 16.81 | | | |
| 20 | QPSK | 1 | 49 | 16.65 | 16.83 | 16.81 | 18 | 0 | |
| 20 | QPSK | 1 | 99 | 16.73 | 16.80 | 16.69 | | | |
| 20 | QPSK | 50 | 0 | 16.66 | 16.79 | 16.72 | | | |
| 20 | QPSK | 50 | 24 | 16.70 | 16.69 | 16.76 | 18 | 0 | |
| 20 | QPSK | 50 | 50 | 16.72 | 16.73 | 16.71 | | | |
| 20 | QPSK | 100 | 0 | 16.69 | 16.79 | 16.67 | | | |



| Band 25 Ant 2 EC13 | | | | | | | | | |
|--------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dbr) | MFR (dB) | |
| Channel | | | | 18140 | 18240 | 18340 | | | |
| Frequency (MHz) | | | | 1860 | 1880 | 1905 | | | |
| 20 | QPSK | 1 | 0 | 15.31 | 15.32 | 15.27 | | | |
| 20 | QPSK | 1 | 48 | 15.25 | 15.26 | 15.12 | 16.4 | 0 | |
| 20 | QPSK | 1 | 99 | 15.23 | 15.20 | 15.23 | | | |
| 20 | QPSK | 50 | 0 | 15.21 | 15.23 | 15.14 | | | |
| 20 | QPSK | 50 | 24 | 15.20 | 15.24 | 15.19 | | | |
| 20 | QPSK | 50 | 50 | 15.20 | 15.20 | 15.20 | 16.4 | 0 | |
| 20 | QPSK | 100 | 0 | 15.28 | 15.25 | 15.24 | | | |

| Band 66 Ant 2 EC13 | | | | | | | | | |
|--------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dbr) | MFR (dB) | |
| Channel | | | | 17000 | 17020 | 17020 | | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1770 | | | |
| 20 | QPSK | 1 | 0 | 15.20 | 15.24 | 15.15 | | | |
| 20 | QPSK | 1 | 48 | 15.05 | 15.19 | 15.15 | 16.2 | 0 | |
| 20 | QPSK | 1 | 99 | 15.02 | 15.09 | 15.08 | | | |
| 20 | QPSK | 50 | 0 | 15.04 | 15.20 | 15.16 | | | |
| 20 | QPSK | 50 | 24 | 15.10 | 15.17 | 15.07 | | | |
| 20 | QPSK | 50 | 50 | 15.13 | 15.14 | 15.18 | 16.2 | 0 | |
| 20 | QPSK | 100 | 0 | 15.14 | 15.18 | 15.13 | | | |



Band 38 Ant 2 EC13

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Med Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|
| Channel | | | | | | | | |
| 37850 | | | | 38000 | 38150 | 38300 | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 17.34 | 18.11 | 18.55 | 18.9 | 0 |
| 20 | QPSK | 1 | 48 | 17.87 | 17.94 | 18.05 | | |
| 20 | QPSK | 1 | 96 | 17.97 | 17.95 | 18.10 | | |
| 20 | QPSK | 50 | 0 | 17.95 | 18.10 | 17.90 | | |
| 20 | QPSK | 50 | 24 | 17.88 | 18.03 | 17.84 | 18.9 | 0 |
| 20 | QPSK | 50 | 50 | 18.02 | 17.80 | 17.88 | | |
| 20 | QPSK | 100 | 0 | 17.96 | 18.02 | 17.99 | | |

Band 41 Ant 2 EC13

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 18.06 | 18.06 | 18.17 | 18.04 | 18.04 | 18.9 | 0 |
| 20 | QPSK | 1 | 48 | 18.05 | 18.00 | 18.02 | 17.99 | 18.04 | | |
| 20 | QPSK | 1 | 96 | 18.10 | 18.00 | 18.00 | 18.00 | 17.94 | | |
| 20 | QPSK | 50 | 0 | 18.08 | 18.06 | 18.11 | 18.00 | 18.03 | | |
| 20 | QPSK | 50 | 24 | 18.08 | 18.04 | 18.10 | 18.02 | 18.01 | 18.9 | 0 |
| 20 | QPSK | 50 | 50 | 18.02 | 17.97 | 18.06 | 18.01 | 18.03 | | |
| 20 | QPSK | 100 | 0 | 18.03 | 17.93 | 18.07 | 18.01 | 18.02 | | |

EC13Band 41 HPUE Ant 2

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 19.37 | 19.16 | 19.41 | 19.34 | 19.33 | 20.5 | 0 |
| 20 | QPSK | 1 | 48 | 19.38 | 19.32 | 19.29 | 19.29 | 19.24 | | |
| 20 | QPSK | 1 | 96 | 19.33 | 19.36 | 19.31 | 19.40 | 19.22 | | |
| 20 | QPSK | 50 | 0 | 19.26 | 19.38 | 19.41 | 19.38 | 19.30 | | |
| 20 | QPSK | 50 | 24 | 19.34 | 19.31 | 19.31 | 19.38 | 19.22 | 20.5 | 0 |
| 20 | QPSK | 50 | 50 | 19.30 | 19.32 | 19.30 | 19.34 | 19.28 | | |
| 20 | QPSK | 100 | 0 | 19.28 | 19.22 | 19.32 | 19.24 | 19.23 | | |



| Band 2 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) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 18.75 | 18.77 | 18.89 | 20.2 | 0 |
| 20 | QPSK | 1 | 40 | 18.85 | 18.89 | 18.98 | | |
| 20 | QPSK | 1 | 99 | 18.85 | 18.88 | 18.81 | | |
| 20 | QPSK | 50 | 0 | 18.86 | 18.75 | 18.83 | | |
| 20 | QPSK | 50 | 24 | 18.82 | 18.85 | 18.86 | | |
| 20 | QPSK | 50 | 50 | 18.82 | 18.79 | 18.58 | 20.2 | 0 |
| 20 | QPSK | 100 | 0 | 18.56 | 18.63 | 18.60 | | |

| Band 4 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) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 19.08 | 19.17 | 19.05 | 20.3 | 0 |
| 20 | QPSK | 1 | 40 | 19.02 | 19.02 | 19.00 | | |
| 20 | QPSK | 1 | 99 | 18.95 | 19.04 | 19.02 | | |
| 20 | QPSK | 50 | 0 | 19.02 | 19.05 | 19.07 | | |
| 20 | QPSK | 50 | 24 | 19.01 | 18.93 | 19.04 | | |
| 20 | QPSK | 50 | 50 | 18.98 | 18.69 | 19.02 | 20.3 | 0 |
| 20 | QPSK | 100 | 0 | 19.03 | 19.05 | 18.87 | | |

| Band 7 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) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 18.29 | 18.37 | 18.31 | 19.8 | 0 |
| 20 | QPSK | 1 | 40 | 18.25 | 18.28 | 18.25 | | |
| 20 | QPSK | 1 | 99 | 18.25 | 18.26 | 18.32 | | |
| 20 | QPSK | 50 | 0 | 18.30 | 18.31 | 18.27 | | |
| 20 | QPSK | 50 | 24 | 18.25 | 18.23 | 18.20 | | |
| 20 | QPSK | 50 | 50 | 18.22 | 18.26 | 18.25 | 19.8 | 0 |
| 20 | QPSK | 100 | 0 | 18.23 | 18.31 | 18.26 | | |



| Band 25 Ant 3 EC13 | | | | | | | | | |
|--------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|---|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dbr) | MFR (dB) | |
| Channel | | | | 18140 | 18240 | 18340 | | | |
| Frequency (MHz) | | | | 1860 | 1860 | 1905 | | | |
| 20 | QPSK | 1 | 0 | 18.83 | 18.82 | 18.74 | | | |
| 20 | QPSK | 1 | 48 | 18.82 | 18.77 | 18.71 | 20.2 | | 0 |
| 20 | QPSK | 1 | 99 | 18.76 | 18.79 | 18.72 | | | |
| 20 | QPSK | 50 | 0 | 18.71 | 18.82 | 18.73 | | | |
| 20 | QPSK | 50 | 24 | 18.76 | 18.78 | 18.78 | | | |
| 20 | QPSK | 50 | 50 | 18.72 | 18.77 | 18.82 | 20.2 | | 0 |
| 20 | QPSK | 100 | 0 | 18.84 | 18.74 | 18.71 | | | |

| Band 66 Ant 3 EC13 | | | | | | | | | |
|--------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|---|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dbr) | MFR (dB) | |
| Channel | | | | 17400 | 17500 | 17600 | | | |
| Frequency (MHz) | | | | 1790 | 1745 | 1770 | | | |
| 20 | QPSK | 1 | 0 | 19.17 | 19.19 | 19.09 | | | |
| 20 | QPSK | 1 | 48 | 19.11 | 19.10 | 19.11 | 20.3 | | 0 |
| 20 | QPSK | 1 | 99 | 19.09 | 19.12 | 19.02 | | | |
| 20 | QPSK | 50 | 0 | 19.06 | 19.18 | 19.06 | | | |
| 20 | QPSK | 50 | 24 | 19.02 | 19.13 | 19.09 | | | |
| 20 | QPSK | 50 | 50 | 19.08 | 19.01 | 19.10 | 20.3 | | 0 |
| 20 | QPSK | 100 | 0 | 19.05 | 19.08 | 18.98 | | | |



| Band 38 Ant 3 ECI3 | | | | | | | | | |
|--------------------|------------|---------|-----------|------------------------|-----------------------|-----------------------|--------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Line Ch. / Freq. | Power Mid Ch. / Freq. | Power Hgt Ch. / Freq. | Tune-up limit (dB) | MPR (dB) | |
| Channel | | | | 37850 | 38000 | 38150 | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 20.65 | 20.73 | 20.57 | | | |
| 20 | QPSK | 1 | 49 | 20.55 | 20.56 | 20.58 | 21.4 | 0 | |
| 20 | QPSK | 1 | 99 | 20.65 | 20.64 | 20.66 | | | |
| 20 | QPSK | 50 | 0 | 20.58 | 20.57 | 20.57 | | | |
| 20 | QPSK | 50 | 24 | 20.52 | 20.52 | 20.58 | 21.4 | 0 | |
| 20 | QPSK | 50 | 50 | 20.49 | 20.52 | 20.50 | | | |
| 20 | QPSK | 100 | 0 | 20.56 | 20.52 | 20.53 | | | |

| Band 41 Ant 3 ECI3 | | | | | | | | | | |
|--------------------|------------|---------|-----------|-----------------------|---------------------------|-----------------------|----------------------------|------------------------|--------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low-Mid Ch. / Freq. | Power Mid Ch. / Freq. | Power High-Mid Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dB) | MPR (dB) |
| Channel | | | | 38750 | 40185 | 40620 | 41055 | 41490 | | |
| Frequency (MHz) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 20.58 | 20.73 | 20.73 | 20.69 | 20.56 | | |
| 20 | QPSK | 1 | 49 | 20.59 | 20.64 | 20.68 | 20.63 | 20.63 | 21.4 | 0 |
| 20 | QPSK | 1 | 99 | 20.61 | 20.65 | 20.73 | 20.60 | 20.62 | | |
| 20 | QPSK | 50 | 0 | 20.60 | 20.60 | 20.70 | 20.61 | 20.57 | | |
| 20 | QPSK | 50 | 24 | 20.56 | 20.65 | 20.64 | 20.67 | 20.57 | 21.4 | 0 |
| 20 | QPSK | 50 | 50 | 20.61 | 20.63 | 20.63 | 20.59 | 20.56 | | |
| 20 | QPSK | 100 | 0 | 20.59 | 20.60 | 20.64 | 20.62 | 20.61 | | |



Reduced Power Mode for ECI 5

| GSM-RD Ant 0 | Base Average Power (dBm) | | | Turn-up Limit (dBm) | Frame Average Power (dBm) | | | Turn-up Limit (dBm) |
|-----------------|--------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
| | 824.2 | 836.4 | 848.8 | | 824.2 | 836.4 | 848.8 | |
| TX Channel | 31.83 | 31.69 | 31.69 | 33.00 | 22.61 | 22.09 | 22.09 | 24.00 |
| Frequency (MHz) | 31.83 | 31.69 | 31.69 | 33.00 | 22.61 | 22.09 | 22.09 | 24.00 |
| OPRS 1 Tx level | 30.47 | 30.50 | 30.45 | 32.00 | 24.47 | 24.56 | 24.43 | 26.00 |
| OPRS 3 Tx level | 28.44 | 28.50 | 28.42 | 30.00 | 24.16 | 24.24 | 24.16 | 25.14 |
| OPRS 4 Tx level | 27.33 | 27.30 | 27.31 | 29.00 | 24.33 | 24.30 | 24.31 | 25.00 |

| GSM-RD Ant 0 | Base Average Power (dBm) | | | Turn-up Limit (dBm) | Frame Average Power (dBm) | | | Turn-up Limit (dBm) |
|-----------------|--------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
| | 812 | 861 | 810 | | 812 | 861 | 810 | |
| TX Channel | 19.92 | 19.92 | 19.92 | 20.00 | 19.92 | 19.92 | 19.92 | 20.00 |
| Frequency (MHz) | 19.92 | 19.92 | 19.92 | 20.00 | 19.92 | 19.92 | 19.92 | 20.00 |
| OPRS 1 Tx level | 22.80 | 22.80 | 22.80 | 23.00 | 18.93 | 18.93 | 18.94 | 20.00 |
| OPRS 2 Tx level | 22.91 | 22.92 | 22.89 | 23.00 | 18.91 | 18.92 | 18.86 | 20.00 |
| OPRS 3 Tx level | 24.50 | 24.50 | 24.50 | 25.00 | 20.66 | 20.71 | 20.63 | 21.14 |
| OPRS 4 Tx level | 23.83 | 23.92 | 23.86 | 25.00 | 20.83 | 20.92 | 20.88 | 22.00 |

| Base | WCDMA 3. And 0 | | | Turn-up Limit (dBm) | WCDMA 3. And 0 | | | Turn-up Limit (dBm) | WCDMA 3. And 0 | | | Turn-up Limit (dBm) |
|-----------------|----------------|-------|-------|---------------------|----------------|-------|-------|---------------------|----------------|-------|-------|---------------------|
| | 9452 | 9450 | 9458 | | 1412 | 1413 | 1413 | | 4152 | 4162 | 4233 | |
| TX Channel | 19.92 | 19.92 | 19.92 | 20.00 | 19.92 | 19.92 | 19.92 | 19.92 | 19.92 | 19.92 | 19.92 | 20.00 |
| Frequency (MHz) | 19.92 | 19.92 | 19.92 | 20.00 | 19.92 | 19.92 | 19.92 | 19.92 | 19.92 | 19.92 | 19.92 | 20.00 |
| SCPP (dBm) | 19.94 | 19.40 | 19.95 | 20.50 | 20.18 | 20.25 | 20.19 | 21.00 | 23.84 | 23.87 | 23.79 | 24.90 |



| GEMMEL AVE 1 | | Rx Average Power (dBm) | | | Tx Power | Tx Power | | | Tx Power | | |
|-----------------|-------|------------------------|-------|-------|----------|----------|-------|-------|----------|-------|-------|
| | | 198 | 199 | 201 | 198 | 199 | 201 | 198 | 199 | 201 | 198 |
| Frequency (MHz) | 824.2 | 824.4 | 824.8 | 824.8 | 824.2 | 824.4 | 824.8 | 824.2 | 824.4 | 824.8 | 824.8 |
| OPRS 1 Tx (dB) | 31.52 | 31.51 | 31.53 | 31.53 | 31.52 | 31.51 | 31.53 | 31.52 | 31.51 | 31.53 | 31.53 |
| OPRS 2 Tx (dB) | 30.82 | 30.83 | 30.84 | 30.80 | 30.82 | 30.83 | 30.84 | 30.82 | 30.83 | 30.84 | 30.80 |
| OPRS 3 Tx (dB) | 29.48 | 29.51 | 29.49 | 29.50 | 29.48 | 29.51 | 29.49 | 29.48 | 29.51 | 29.49 | 29.50 |
| OPRS 4 Tx (dB) | 27.38 | 27.39 | 27.32 | 29.00 | 27.38 | 27.39 | 27.32 | 29.00 | 27.38 | 27.39 | 27.32 |

| Base | | WCDMA 8 AVE 1 | | | WCDMA 8 AVE 2 | | | WCDMA 8 AVE 3 | | | WCDMA 8 AVE 4 | | |
|-----------------|-------|---------------|-------|-------|---------------|-------|-------|---------------|-------|-------|---------------|-------|-------|
| | | 1502 | 1500 | 1508 | 1512 | 1515 | 1513 | 1512 | 1515 | 1513 | 1512 | 1515 | 1513 |
| Frequency (MHz) | 852.4 | 852.4 | 852.4 | 852.4 | 852.4 | 852.4 | 852.4 | 852.4 | 852.4 | 852.4 | 852.4 | 852.4 | 852.4 |
| SCPP Rx (dB) | 17.63 | 17.78 | 17.67 | 19.30 | 17.68 | 18.10 | 18.01 | 19.30 | 17.68 | 18.10 | 18.01 | 19.30 | 17.68 |



| GSM 1900-A12 | | Total Average Power (dBm) | | | Tune-up | Frame-Average Power (dBm) | | | Tune-up |
|-----------------|--|---------------------------|-------|--------|---------|---------------------------|-------|--------|---------|
| TX Channel | | 952 | 961 | 959 | Line | 952 | 961 | 959 | Line |
| Frequency (MHz) | | 1930.2 | 1930 | 1930.8 | (dBm) | 1930.2 | 1930 | 1930.8 | (dBm) |
| OPRS 1 Tx site | | 17.82 | 23.10 | 22.69 | 22.10 | 18.20 | 19.10 | 18.20 | 18.10 |
| OPRS 2 Tx site | | 22.92 | 27.89 | 27.73 | 26.10 | 18.62 | 18.88 | 18.73 | 18.10 |
| OPRS 3 Tx site | | 25.23 | 26.48 | 26.30 | 26.10 | 19.31 | 19.48 | 19.50 | 20.10 |
| OPRS 4 Tx site | | 21.63 | 23.00 | 23.66 | 24.20 | 19.31 | 19.54 | 19.30 | 19.44 |
| OPRS 4 Tx site | | 21.99 | 22.07 | 21.99 | 23.10 | 18.60 | 19.07 | 18.60 | 20.10 |

| Band | | WCDMA 1920-A12 | | | Tune-up | WCDMA 1920-A12 | | | Tune-up |
|-----------------|--|----------------|-------|-------|---------|----------------|-------|-------|---------|
| TX Channel | | 9520 | 9500 | 9538 | Line | 1512 | 1413 | 1513 | Line |
| Frequency (MHz) | | 962.4 | 960 | 957.6 | (dBm) | 1512 | 1413 | 1513 | (dBm) |
| SCPP Band 66 | | 18.40 | 18.57 | 18.40 | 19.50 | 20.48 | 20.57 | 20.48 | 21.80 |



| Band | WCDMA II AX 3 | | | Time-to-Settle (ms) | WCDMA IV AX 3 | | | Time-to-Settle (ms) | | | |
|-----------------|---------------|--------|--------|---------------------|---------------|--------|--------|---------------------|-------|-------|-------|
| | Start | End | Center | | Start | End | Center | | | | |
| TX Channel | 9450 | 9450 | 9450 | 20.00 | 1712.8 | 1712.8 | 1712.8 | 22.00 | | | |
| RS Channel | 9450 | 9450 | 9450 | 20.00 | 1712.8 | 1712.8 | 1712.8 | 22.00 | | | |
| Frequency (MHz) | 1852.4 | 1852.4 | 1852.4 | 20.00 | 21.19 | 21.20 | 21.21 | 22.00 | | | |
| SCPF for W | RNC 12 Phases | | | 18.84 | 18.87 | 18.88 | 20.00 | 21.19 | 21.20 | 21.21 | 22.00 |



| Band 66 Ant 0 ECI5 | | | | | | | | | |
|--------------------|------------|---------|-----------|---------------------|------------------------|----------------------|--------------------|----------|--|
| ISW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up Inst (dBm) | MPE (dB) | |
| Channel | | | | 130000 | 130000 | 130000 | | | |
| Frequency (MHz) | | | | 1750 | 1745 | 1750 | | | |
| 20 | QPSK | 1 | 0 | 19.59 | 19.79 | 19.62 | | | |
| 20 | QPSK | 1 | -69 | 19.60 | 19.67 | 19.63 | 21.3 | 0 | |
| 20 | QPSK | 1 | 99 | 19.80 | 19.69 | 19.60 | | | |
| 20 | QPSK | 50 | 0 | 19.65 | 19.76 | 19.64 | | | |
| 20 | QPSK | 50 | -24 | 19.65 | 19.67 | 19.65 | 21.3 | 0 | |
| 20 | QPSK | 50 | 50 | 19.80 | 19.59 | 19.62 | | | |
| 20 | QPSK | 100 | 0 | 19.68 | 19.69 | 19.64 | | | |



Band 38 Ant 0 ECI5

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Med Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|
| Channel | | | | 37850 | 38000 | 38150 | | |
| Frequency (MHz) | | | | 2240 | 2245 | 2250 | | |
| 20 | QPSK | 1 | 0 | 22.72 | 22.50 | 22.71 | 23.9 | 0 |
| 20 | QPSK | 1 | 48 | 22.70 | 22.77 | 22.50 | | |
| 20 | QPSK | 1 | 96 | 22.68 | 22.70 | 22.61 | | |
| 20 | QPSK | 50 | 0 | 22.55 | 22.75 | 22.55 | | |
| 20 | QPSK | 50 | 24 | 22.57 | 22.55 | 22.48 | 23.9 | 0 |
| 20 | QPSK | 50 | 48 | 22.55 | 22.53 | 22.55 | | |
| 20 | QPSK | 100 | 0 | 22.44 | 22.53 | 22.53 | | |

Band 41 Ant 0 ECI5

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line Middle Ch / Freq | Power Med 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) | | | | 2250 | 2253 | 2253 | 2263.5 | 2265 | | |
| 20 | QPSK | 1 | 0 | 22.87 | 22.84 | 22.85 | 22.82 | 22.86 | 23.9 | 0 |
| 20 | QPSK | 1 | 48 | 22.89 | 22.83 | 22.83 | 22.89 | 22.70 | | |
| 20 | QPSK | 1 | 96 | 22.79 | 22.84 | 22.84 | 22.73 | 22.75 | | |
| 20 | QPSK | 50 | 0 | 22.62 | 22.75 | 22.80 | 22.65 | 22.65 | | |
| 20 | QPSK | 50 | 24 | 22.68 | 22.83 | 22.73 | 22.64 | 22.50 | 23.9 | 0 |
| 20 | QPSK | 50 | 48 | 22.62 | 22.75 | 22.74 | 22.60 | 22.71 | | |
| 20 | QPSK | 100 | 0 | 22.38 | 22.68 | 22.76 | 22.67 | 22.81 | | |

Band 41 HPUE Ant 0 ECI5

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line Middle Ch / Freq | Power Med 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) | | | | 2400 | 2403 | 2403 | 2403.5 | 2405 | | |
| 20 | QPSK | 1 | 0 | 24.07 | 24.03 | 24.02 | 24.05 | 24.15 | 25.5 | 0 |
| 20 | QPSK | 1 | 48 | 24.12 | 24.01 | 24.18 | 23.80 | 23.79 | | |
| 20 | QPSK | 1 | 96 | 23.95 | 23.90 | 24.04 | 23.60 | 23.68 | | |
| 20 | QPSK | 50 | 0 | 24.11 | 24.12 | 24.01 | 24.02 | 24.03 | | |
| 20 | QPSK | 50 | 24 | 24.18 | 23.99 | 24.15 | 23.95 | 23.88 | 25.5 | 0 |
| 20 | QPSK | 50 | 48 | 24.02 | 24.10 | 24.10 | 23.95 | 24.01 | | |
| 20 | QPSK | 100 | 0 | 24.02 | 24.08 | 24.14 | 24.04 | 23.97 | | |



Band 66 Ant 1 EC15

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Turn-up limit (dBm) | MPE (dB) |
|-----------------|------------|---------|-----------|--------------------|--------------------|---------------------|---------------------------|-------------|
| | | | | Low Ch. / Freq. | Mid Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 130000 | 130000 | 130000 | | |
| Frequency (MHz) | | | | 1790 | 1745 | 1770 | | |
| 20 | QPSK | 1 | 0 | 18.55 | 18.67 | 18.59 | | |
| 20 | QPSK | 1 | -69 | 18.55 | 18.58 | 18.41 | 19.9 | 0 |
| 20 | QPSK | 1 | 99 | 18.36 | 18.53 | 18.25 | | |
| 20 | QPSK | 50 | 0 | 18.55 | 18.61 | 18.49 | | |
| 20 | QPSK | 50 | -24 | 18.57 | 18.58 | 18.50 | 19.9 | 0 |
| 20 | QPSK | 50 | 50 | 18.57 | 18.52 | 18.58 | | |
| 20 | QPSK | 100 | 0 | 18.62 | 18.65 | 18.59 | | |



Band 38 Ant 1 ECI5

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Med Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|
| Channel | | | | 37850 | 38000 | 38150 | | |
| Frequency (MHz) | | | | 2490 | 2505 | 2520 | | |
| 20 | QPSK | 1 | 0 | 22.25 | 22.35 | 22.45 | 23.6 | 0 |
| 20 | QPSK | 1 | 48 | 22.22 | 22.28 | 22.37 | | |
| 20 | QPSK | 1 | 96 | 22.11 | 22.11 | 22.15 | | |
| 20 | QPSK | 50 | 0 | 22.08 | 22.23 | 22.15 | | |
| 20 | QPSK | 50 | 24 | 22.14 | 22.14 | 22.12 | 23.6 | 0 |
| 20 | QPSK | 50 | 60 | 22.08 | 22.15 | 22.10 | | |
| 20 | QPSK | 100 | 0 | 22.07 | 22.19 | 22.10 | | |

Band 41 Ant 1 ECI5

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | 2505 | 2519.5 | 2534 | 2548.5 | 2563 | | |
| 20 | QPSK | 1 | 0 | 22.30 | 22.25 | 22.34 | 22.33 | 22.25 | 23.6 | 0 |
| 20 | QPSK | 1 | 48 | 22.29 | 22.28 | 22.29 | 22.19 | 22.18 | | |
| 20 | QPSK | 1 | 96 | 22.28 | 22.21 | 22.25 | 22.17 | 22.20 | | |
| 20 | QPSK | 50 | 0 | 22.27 | 22.24 | 22.31 | 22.21 | 22.13 | | |
| 20 | QPSK | 50 | 24 | 22.34 | 22.26 | 22.27 | 22.27 | 22.27 | 23.6 | 0 |
| 20 | QPSK | 50 | 50 | 22.23 | 22.10 | 22.24 | 22.18 | 22.21 | | |
| 20 | QPSK | 100 | 0 | 22.15 | 22.17 | 22.31 | 22.23 | 22.17 | | |

Band 41 HPUE Ant 1 ECI5

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | 2505 | 2519.5 | 2534 | 2548.5 | 2563 | | |
| 20 | QPSK | 1 | 0 | 23.76 | 23.72 | 23.80 | 23.70 | 23.68 | 25.2 | 0 |
| 20 | QPSK | 1 | 48 | 23.65 | 23.68 | 23.70 | 23.71 | 23.69 | | |
| 20 | QPSK | 1 | 96 | 23.58 | 23.50 | 23.64 | 23.60 | 23.62 | | |
| 20 | QPSK | 50 | 0 | 23.62 | 23.66 | 23.73 | 23.61 | 23.59 | | |
| 20 | QPSK | 50 | 24 | 23.71 | 23.69 | 23.70 | 23.68 | 23.66 | 25.2 | 0 |
| 20 | QPSK | 50 | 50 | 23.63 | 23.71 | 23.69 | 23.61 | 23.61 | | |
| 20 | QPSK | 100 | 0 | 23.68 | 23.69 | 23.71 | 23.70 | 23.61 | | |



| Band 2 Ant 2 ECI5 | | | | | | | | | |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MRR (dB) | |
| Channel | | | | | | | | | |
| | | | | 18700 | 18900 | 19100 | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 15.16 | 15.25 | 15.14 | 16.4 | 0 | |
| 20 | QPSK | 1 | 49 | 15.15 | 15.04 | 15.17 | | | |
| 20 | QPSK | 1 | 99 | 15.17 | 15.09 | 15.08 | | | |
| 20 | QPSK | 50 | 0 | 15.10 | 15.24 | 15.04 | | | |
| 20 | QPSK | 50 | 24 | 15.07 | 15.10 | 15.07 | | | |
| 20 | QPSK | 50 | 50 | 15.13 | 15.19 | 15.01 | | | |
| 20 | QPSK | 100 | 0 | 15.04 | 15.18 | 15.01 | | | |

| Band 4 Ant 2 ECI5 | | | | | | | | | |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MRR (dB) | |
| Channel | | | | | | | | | |
| | | | | 20950 | 21175 | 21400 | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 17.08 | 17.12 | 17.06 | 19.2 | 0 | |
| 20 | QPSK | 1 | 49 | 17.00 | 16.85 | 17.05 | | | |
| 20 | QPSK | 1 | 99 | 17.05 | 17.91 | 16.84 | | | |
| 20 | QPSK | 50 | 0 | 17.07 | 16.85 | 17.02 | | | |
| 20 | QPSK | 50 | 24 | 17.06 | 16.81 | 17.08 | | | |
| 20 | QPSK | 50 | 50 | 17.05 | 17.91 | 17.83 | | | |
| 20 | QPSK | 100 | 0 | 17.07 | 16.84 | 17.89 | | | |

| Band 7 Ant 2 ECI5 | | | | | | | | | |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MRR (dB) | |
| Channel | | | | | | | | | |
| | | | | 24450 | 24700 | 24950 | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 18.17 | 18.27 | 18.22 | 19.5 | 0 | |
| 20 | QPSK | 1 | 49 | 18.12 | 18.20 | 18.08 | | | |
| 20 | QPSK | 1 | 99 | 18.07 | 18.12 | 18.05 | | | |
| 20 | QPSK | 50 | 0 | 18.01 | 18.10 | 18.05 | | | |
| 20 | QPSK | 50 | 24 | 18.14 | 18.15 | 18.15 | | | |
| 20 | QPSK | 50 | 50 | 18.09 | 18.14 | 18.07 | | | |
| 20 | QPSK | 100 | 0 | 18.09 | 18.14 | 18.08 | | | |



| Band 25 Ant 2 ECI5 | | | | | | | | | |
|--------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dBm) | MFR (dB) | |
| Channel | | | | 26140 | 26240 | 26340 | | | |
| Frequency (MHz) | | | | 1860 | 1880 | 1900 | | | |
| 20 | QPSK | 1 | 0 | 15.26 | 15.30 | 15.21 | | | |
| 20 | QPSK | 1 | 49 | 15.18 | 15.12 | 15.18 | 16.4 | 0 | |
| 20 | QPSK | 1 | 99 | 15.19 | 15.24 | 15.07 | | | |
| 20 | QPSK | 50 | 0 | 15.09 | 15.24 | 15.11 | | | |
| 20 | QPSK | 50 | 24 | 15.11 | 15.20 | 15.21 | | | |
| 20 | QPSK | 50 | 50 | 15.16 | 15.20 | 15.13 | 16.4 | 0 | |
| 20 | QPSK | 100 | 0 | 15.21 | 15.25 | 15.19 | | | |

| Band 66 Ant 2 ECI5 | | | | | | | | | |
|--------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dBm) | MFR (dB) | |
| Channel | | | | 13000 | 13020 | 13020 | | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1770 | | | |
| 20 | QPSK | 1 | 0 | 18.08 | 18.16 | 18.04 | | | |
| 20 | QPSK | 1 | 49 | 18.08 | 18.09 | 18.04 | 19.2 | 0 | |
| 20 | QPSK | 1 | 99 | 18.06 | 18.06 | 18.08 | | | |
| 20 | QPSK | 50 | 0 | 18.00 | 18.10 | 17.99 | | | |
| 20 | QPSK | 50 | 24 | 17.99 | 18.09 | 18.05 | | | |
| 20 | QPSK | 50 | 50 | 18.05 | 18.03 | 17.99 | 19.2 | 0 | |
| 20 | QPSK | 100 | 0 | 18.04 | 18.12 | 18.02 | | | |



Band 38 Ant 2 ECI5

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Med Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|
| Channel | | | | 37650 | 38050 | 38150 | | |
| Frequency (MHz) | | | | 7410 | 7575 | 7575 | | |
| 20 | QPSK | 1 | 0 | 19.52 | 19.52 | 19.52 | 20.8 | 0 |
| 20 | QPSK | 1 | 48 | 19.53 | 19.52 | 19.46 | | |
| 20 | QPSK | 1 | 96 | 19.55 | 19.46 | 19.25 | | |
| 20 | QPSK | 50 | 0 | 19.45 | 19.25 | 19.32 | | |
| 20 | QPSK | 50 | 24 | 19.44 | 19.40 | 19.42 | 20.8 | 0 |
| 20 | QPSK | 50 | 50 | 19.44 | 19.43 | 19.29 | | |
| 20 | QPSK | 100 | 0 | 19.40 | 19.25 | 19.33 | | |

Band 41 Ant 2 ECI5

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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 | 40200 | 41055 | 41490 | | |
| Frequency (MHz) | | | | 3556 | 3613.5 | 3615 | 3696.5 | 3800 | | |
| 20 | QPSK | 1 | 0 | 19.56 | 19.50 | 19.53 | 19.61 | 19.55 | 20.8 | 0 |
| 20 | QPSK | 1 | 48 | 19.49 | 19.61 | 19.58 | 19.53 | 19.45 | | |
| 20 | QPSK | 1 | 96 | 19.44 | 19.52 | 19.58 | 19.54 | 19.49 | | |
| 20 | QPSK | 50 | 0 | 19.52 | 19.50 | 19.50 | 19.51 | 19.55 | | |
| 20 | QPSK | 50 | 24 | 19.43 | 19.49 | 19.53 | 19.52 | 19.56 | 20.8 | 0 |
| 20 | QPSK | 50 | 50 | 19.53 | 19.50 | 19.54 | 19.45 | 19.52 | | |
| 20 | QPSK | 100 | 0 | 19.42 | 19.52 | 19.50 | 19.48 | 19.53 | | |

Band 41 HPUE Ant 2 ECI5

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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 | 40200 | 41055 | 41490 | | |
| Frequency (MHz) | | | | 3556 | 3613.5 | 3615 | 3696.5 | 3800 | | |
| 20 | QPSK | 1 | 0 | 20.87 | 20.87 | 20.85 | 20.87 | 20.85 | 22.4 | 0 |
| 20 | QPSK | 1 | 48 | 20.75 | 20.81 | 20.88 | 20.83 | 20.75 | | |
| 20 | QPSK | 1 | 96 | 20.72 | 20.79 | 20.83 | 20.72 | 20.69 | | |
| 20 | QPSK | 50 | 0 | 20.70 | 20.60 | 20.60 | 20.61 | 20.70 | | |
| 20 | QPSK | 50 | 24 | 20.76 | 20.65 | 20.65 | 20.78 | 20.65 | 22.4 | 0 |
| 20 | QPSK | 50 | 50 | 20.69 | 20.70 | 20.79 | 20.71 | 20.74 | | |
| 20 | QPSK | 100 | 0 | 20.70 | 20.75 | 20.65 | 20.74 | 20.78 | | |



| Band 2 Ant 3 ECI5 | | | | | | | | |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 21.22 | 21.25 | 21.24 | 22.6 | 0 |
| 20 | QPSK | 1 | 40 | 21.23 | 21.18 | 21.20 | | |
| 20 | QPSK | 1 | 99 | 21.16 | 21.17 | 21.15 | | |
| 20 | QPSK | 50 | 0 | 21.16 | 21.21 | 21.14 | 22.6 | 0 |
| 20 | QPSK | 50 | 24 | 21.17 | 21.21 | 21.14 | | |
| 20 | QPSK | 50 | 50 | 21.12 | 21.27 | 21.22 | | |
| 20 | QPSK | 100 | 0 | 21.14 | 21.25 | 21.16 | | |

| Band 4 Ant 3 ECI5 | | | | | | | | |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 22.90 | 22.85 | 22.93 | 24 | 0 |
| 20 | QPSK | 1 | 40 | 22.81 | 22.93 | 22.87 | | |
| 20 | QPSK | 1 | 99 | 22.82 | 22.83 | 22.83 | | |
| 20 | QPSK | 50 | 0 | 21.82 | 21.87 | 21.83 | 23 | 1 |
| 20 | QPSK | 50 | 24 | 21.89 | 21.89 | 21.85 | | |
| 20 | QPSK | 50 | 50 | 21.83 | 21.89 | 21.90 | | |
| 20 | QPSK | 100 | 0 | 21.87 | 21.97 | 21.88 | | |

| Band 7 Ant 3 ECI5 | | | | | | | | |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 19.67 | 19.81 | 19.72 | 21.1 | 0 |
| 20 | QPSK | 1 | 40 | 19.85 | 19.82 | 19.82 | | |
| 20 | QPSK | 1 | 99 | 19.83 | 19.76 | 19.87 | | |
| 20 | QPSK | 50 | 0 | 19.56 | 19.77 | 19.62 | 21.1 | 0 |
| 20 | QPSK | 50 | 24 | 19.83 | 19.74 | 19.68 | | |
| 20 | QPSK | 50 | 50 | 19.83 | 19.69 | 19.68 | | |
| 20 | QPSK | 100 | 0 | 19.68 | 19.71 | 19.62 | | |



| Band 25 Ant 3 ECI5 | | | | | | | | | |
|--------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dBm) | MFR (dB) | |
| Channel | | | | 21540 | 21540 | 21600 | | | |
| Frequency (MHz) | | | | 1860 | 1860 | 1905 | | | |
| 20 | QPSK | 1 | 0 | 21.33 | 21.30 | 21.33 | | | |
| 20 | QPSK | 1 | 48 | 21.32 | 21.29 | 21.37 | 22.6 | 0 | |
| 20 | QPSK | 1 | 99 | 21.24 | 21.31 | 21.36 | | | |
| 20 | QPSK | 50 | 0 | 21.23 | 21.30 | 21.28 | | | |
| 20 | QPSK | 50 | 24 | 21.22 | 21.29 | 21.28 | | | |
| 20 | QPSK | 50 | 50 | 21.25 | 21.33 | 21.29 | 22.6 | 0 | |
| 20 | QPSK | 100 | 0 | 21.30 | 21.30 | 21.33 | | | |

| Band 66 Ant 3 ECI5 | | | | | | | | | |
|--------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dBm) | MFR (dB) | |
| Channel | | | | 17600 | 17600 | 18072 | | | |
| Frequency (MHz) | | | | 1700 | 1745 | 1770 | | | |
| 20 | QPSK | 1 | 0 | 22.93 | 23.06 | 22.99 | | | |
| 20 | QPSK | 1 | 48 | 22.93 | 23.04 | 22.95 | 24 | 0 | |
| 20 | QPSK | 1 | 99 | 22.86 | 22.96 | 23.00 | | | |
| 20 | QPSK | 50 | 0 | 21.92 | 22.07 | 22.00 | | | |
| 20 | QPSK | 50 | 24 | 21.94 | 22.05 | 21.98 | | | |
| 20 | QPSK | 50 | 50 | 21.85 | 21.95 | 22.02 | 23 | 1 | |
| 20 | QPSK | 100 | 0 | 21.90 | 22.00 | 22.01 | | | |



| Band 38 Ant 3 ECIS | | | | | | | | | |
|--------------------|------------|---------|-----------|------------------------|-----------------------|-----------------------|--------------------|----------|---|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Line Ch. / Freq. | Power Mid Ch. / Freq. | Power Hgt Ch. / Freq. | Tune-up limit (dB) | MPS (dB) | |
| Channel | | | | 38750 | 39000 | 38150 | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 21.85 | 21.91 | 21.81 | | | |
| 20 | QPSK | 1 | 49 | 21.87 | 21.90 | 21.70 | 22.0 | | 0 |
| 20 | QPSK | 1 | 99 | 21.79 | 21.87 | 21.76 | | | |
| 20 | QPSK | 50 | 0 | 21.89 | 21.91 | 21.89 | | | |
| 20 | QPSK | 50 | 24 | 21.90 | 21.89 | 21.74 | 22.0 | | 0 |
| 20 | QPSK | 50 | 50 | 21.82 | 21.90 | 21.84 | | | |
| 20 | QPSK | 100 | 0 | 21.76 | 21.82 | 21.88 | | | |

| Band 41 Ant 3 ECIS | | | | | | | | | | |
|--------------------|------------|---------|-----------|-----------------------|---------------------------|-----------------------|----------------------------|-----------------------|--------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low-Mid Ch. / Freq. | Power Mid Ch. / Freq. | Power High-Mid Ch. / Freq. | Power Hgt Ch. / Freq. | Tune-up limit (dB) | MPS (dB) |
| Channel | | | | 38750 | 40185 | 40620 | 41055 | 41490 | | |
| Frequency (MHz) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 21.94 | 22.00 | 21.93 | 21.85 | 21.99 | | |
| 20 | QPSK | 1 | 49 | 21.91 | 21.90 | 21.90 | 21.88 | 22.02 | 22.0 | 0 |
| 20 | QPSK | 1 | 99 | 22.01 | 21.99 | 21.97 | 21.90 | 21.89 | | |
| 20 | QPSK | 50 | 0 | 21.93 | 21.90 | 22.00 | 21.89 | 21.87 | | |
| 20 | QPSK | 50 | 24 | 21.85 | 21.94 | 21.95 | 21.82 | 21.83 | 22.0 | 0 |
| 20 | QPSK | 50 | 50 | 21.85 | 21.85 | 21.84 | 21.80 | 21.82 | | |
| 20 | QPSK | 100 | 0 | 21.85 | 21.89 | 21.95 | 21.92 | 21.92 | | |



Reduced Power Mode for ECI 6

| GSM/DCI Art 0 | Base Average Power (dBm) | | | Turn-up Limit (dBm) | Frame Average Power (dBm) | | | Turn-up Limit (dBm) |
|-----------------|--------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
| | 824.2 | 836.4 | 848.6 | | 824.2 | 836.4 | 848.6 | |
| TX Channel | 31.0 | 31.0 | 31.0 | 33.0 | 33.0 | 33.0 | 33.0 | 33.0 |
| Frequency (MHz) | 824.2 | 836.4 | 848.6 | | 824.2 | 836.4 | 848.6 | |
| OPRS 1 Tx level | 31.0 | 31.0 | 31.0 | 33.0 | 22.51 | 22.09 | 22.00 | 24.00 |
| OPRS 2 Tx level | 31.07 | 31.05 | 31.04 | 33.00 | 22.97 | 22.61 | 22.54 | 24.00 |
| OPRS 3 Tx level | 30.47 | 30.50 | 30.45 | 32.00 | 24.47 | 24.06 | 24.43 | 26.00 |
| OPRS 4 Tx level | 29.44 | 29.50 | 29.42 | 30.00 | 24.16 | 24.24 | 24.16 | 25.14 |
| OPRS 4 Tx level | 27.33 | 27.30 | 27.31 | 29.00 | 24.33 | 24.30 | 24.31 | 25.00 |

| GSM/DCI Art 0 | Base Average Power (dBm) | | | Turn-up Limit (dBm) | Frame Average Power (dBm) | | | Turn-up Limit (dBm) |
|-----------------|--------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
| | 512 | 661 | 810 | | 512 | 661 | 810 | |
| TX Channel | 170.2 | 170.2 | 170.2 | 170.2 | 170.2 | 170.2 | 170.2 | 170.2 |
| Frequency (MHz) | 170.2 | 170.2 | 170.2 | | 170.2 | 170.2 | 170.2 | |
| OPRS 1 Tx level | 22.80 | 22.81 | 22.81 | 23.00 | 18.93 | 18.93 | 18.94 | 20.00 |
| OPRS 2 Tx level | 22.91 | 22.92 | 22.89 | 23.00 | 18.91 | 18.92 | 18.86 | 20.00 |
| OPRS 3 Tx level | 24.50 | 24.50 | 24.50 | 25.00 | 20.93 | 20.93 | 20.95 | 22.00 |
| OPRS 4 Tx level | 24.50 | 24.50 | 24.50 | 25.00 | 20.96 | 20.93 | 20.93 | 21.14 |
| OPRS 4 Tx level | 23.83 | 23.92 | 23.86 | 25.00 | 20.83 | 20.92 | 20.88 | 22.00 |

| Base | TX Channel | WCDMA 3.1 Art 0 | | | Turn-up Limit (dBm) | WCDMA 3.1 Art 0 | | | Turn-up Limit (dBm) | WCDMA 3.1 Art 0 | | | Turn-up Limit (dBm) |
|--------------|----------------|-----------------|-------|-------|---------------------|-----------------|-------|-------|---------------------|-----------------|-------|-------|---------------------|
| | | 9452 | 9450 | 9458 | | 1412 | 1413 | 1413 | | 4152 | 4162 | 4233 | |
| SCPP (Art 0) | RVNC 15_200bps | 22.09 | 22.27 | 22.15 | 23.00 | 22.01 | 22.12 | 22.11 | 23.00 | 24.20 | 24.31 | 24.27 | 25.00 |



| GEMMEL AVE 1 | | Rx Average Power (dBm) | | | Tx Channel | | Tx Power (dBm) | | |
|-----------------|-------|------------------------|-------|-------|------------|-------|----------------|-------|-------|
| | 198 | 199 | 201 | 198 | 199 | 201 | 198 | 199 | 201 |
| Frequency (MHz) | 824.2 | 836.4 | 848.6 | 824.2 | 836.4 | 848.6 | 824.2 | 836.4 | 848.6 |
| OPRS 1 Tx (dB) | 31.52 | 31.51 | 31.53 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 |
| OPRS 2 Tx (dB) | 30.02 | 30.03 | 30.04 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 |
| OPRS 3 Tx (dB) | 29.48 | 29.51 | 29.49 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 |
| OPRS 4 Tx (dB) | 27.38 | 27.39 | 27.32 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 |

| Beam | | WCDMA 8 AVE 1 | | | WCDMA 17 AVE 1 | | | WCDMA 17 AVE 1 | | |
|-----------------|--------|---------------|--------|--------|----------------|--------|--------|----------------|-------|--|
| | 5002 | 5000 | 5008 | 5112 | 5115 | 5113 | 4132 | 4182 | 4233 | |
| TX Channel | 5002 | 5000 | 5008 | 5112 | 5115 | 5113 | 4132 | 4182 | 4233 | |
| Frequency (MHz) | 9352.4 | 9360 | 9377.6 | 9752.4 | 9759.9 | 9767.4 | 9552.4 | 9564 | 9580 | |
| ISPP Rx (dB) | 21.33 | 21.41 | 21.32 | 22.40 | 21.31 | 21.54 | 21.43 | 24.11 | 24.23 | |
| | | | | | | | | 24.15 | 25.00 | |



| GSM 1900 Ant 2 | Total Average Power (dBm) | | | Tune-up Limit (dBm) | Flame-Average Power (dBm) | | | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
| | 512 | 661 | 819 | | 512 | 661 | 819 | |
| TX Channel | 1890.2 | 1890 | 1909.8 | | 1900.2 | 1899 | 1909.8 | |
| Frequency (MHz) | 192.2 | 191.5 | 192.8 | 20.50 | 192.2 | 191.5 | 192.8 | 21.50 |
| OPRR 1 Tx site | 25.28 | 25.32 | 25.21 | 30.65 | 25.28 | 25.32 | 25.21 | 21.80 |
| OPRR 2 Tx site | 25.35 | 25.37 | 25.36 | 29.00 | 25.35 | 25.37 | 25.36 | 23.00 |
| OPRR 3 Tx site | 25.33 | 25.34 | 25.35 | 27.00 | 25.33 | 25.34 | 25.35 | 25.74 |
| OPRR 4 Tx site | 25.27 | 25.33 | 25.24 | 28.00 | 25.27 | 25.33 | 25.24 | 23.00 |

| Band | ISCDMA-E Ant 2 | | | Tune-up Limit (dBm) | ISCDMA-E Ant 2 | | | Tune-up Limit (dBm) |
|-----------------|----------------|-------|-------|---------------------|----------------|-------|-------|---------------------|
| | 5620 | 5600 | 5638 | | 1512 | 1413 | 1513 | |
| TX Channel | 5650 | 5650 | 5650 | | 1537 | 1536 | 1536 | |
| Frequency (MHz) | 192.4 | 190 | 197.8 | 172.6 | 172.2 | 172.6 | 172.6 | 21.50 |
| ISCDMA-E Ant 2 | 20.66 | 20.78 | 20.65 | 21.80 | 20.37 | 20.40 | 20.38 | 21.50 |



| Band | WCDMA II AX 3 | | | Time-to-Lock (s) | WCDMA IV AX 3 | | | Time-to-Lock (s) |
|-----------------|---------------|-------|--------|------------------|---------------|-------|-------|------------------|
| | 9450 | 9450 | 9450 | | 1412 | 1413 | 1413 | |
| TX Channel | 9450 | 9450 | 9450 | 19.85 | 19.85 | 19.85 | 19.85 | |
| TS Channel | 9450 | 9450 | 9450 | 19.85 | 19.85 | 19.85 | 19.85 | |
| Frequency (MHz) | 1852.4 | 1850 | 1857.8 | 20.70 | 19.85 | 19.85 | 21.00 | |
| SCPF for W | RNC 12 Phases | 19.85 | 19.87 | 20.70 | 19.85 | 19.85 | 21.00 | |



Band 66 Ant 0 EC16

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Turn-up | MPE |
|-----------------|------------|---------|-----------|-------------|-------------|-------------|---------|------|
| | | | | Low | Mid | High | | |
| Channel | | | | Ch. / Freq. | Ch. / Freq. | Ch. / Freq. | Test | (dB) |
| Frequency (MHz) | | | | 130072 | 130072 | 130072 | | |
| 20 | QPSK | 1 | 0 | 22.25 | 22.32 | 22.25 | 23.0 | 0 |
| 20 | QPSK | 1 | -68 | 22.13 | 22.20 | 22.21 | | |
| 20 | QPSK | 1 | 99 | 22.13 | 22.28 | 22.24 | | |
| 20 | QPSK | 50 | 0 | 21.37 | 21.41 | 21.35 | 23 | 0.9 |
| 20 | QPSK | 50 | -24 | 21.22 | 21.25 | 21.20 | | |
| 20 | QPSK | 50 | 50 | 21.20 | 21.27 | 21.32 | | |
| 20 | QPSK | 100 | 0 | 21.31 | 21.45 | 21.34 | | |



Band 38 Ant 0 ECI6

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mode Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|----------------------|----------------------|---------------------|----------|
| Channel | | | | 37850 | 38050 | 38150 | | |
| Frequency (MHz) | | | | 2440 | 2440 | 2430 | | |
| 20 | QPSK | 1 | 0 | 23.55 | 23.57 | 23.45 | 25 | 0 |
| 20 | QPSK | 1 | 48 | 23.44 | 23.45 | 23.35 | | |
| 20 | QPSK | 1 | 96 | 23.44 | 23.48 | 23.37 | | |
| 20 | QPSK | 50 | 0 | 22.43 | 22.52 | 22.50 | | |
| 20 | QPSK | 50 | 24 | 22.48 | 22.53 | 22.42 | 24 | 1 |
| 20 | QPSK | 50 | 50 | 22.48 | 22.53 | 22.45 | | |
| 20 | QPSK | 100 | 0 | 22.39 | 22.52 | 22.39 | | |

Band 41 Ant 0 ECI6

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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 | 2491.5 | 2476 | 2460.5 | 2445 | | |
| 20 | QPSK | 1 | 0 | 24.41 | 24.42 | 24.40 | 24.28 | 24.30 | 25 | 0 |
| 20 | QPSK | 1 | 48 | 24.38 | 24.27 | 24.47 | 24.19 | 24.21 | | |
| 20 | QPSK | 1 | 96 | 24.31 | 24.32 | 24.37 | 24.23 | 24.22 | | |
| 20 | QPSK | 50 | 0 | 23.40 | 23.43 | 23.50 | 23.31 | 23.31 | | |
| 20 | QPSK | 50 | 24 | 23.40 | 23.38 | 23.46 | 23.34 | 23.37 | 24 | 1 |
| 20 | QPSK | 50 | 50 | 23.32 | 23.43 | 23.43 | 23.33 | 23.37 | | |
| 20 | QPSK | 100 | 0 | 23.36 | 23.33 | 23.43 | 23.29 | 23.28 | | |

Band 41 HPUE Ant 0 ECI6

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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 | 2491.5 | 2476 | 2460.5 | 2445 | | |
| 20 | QPSK | 1 | 0 | 25.22 | 25.14 | 25.07 | 24.87 | 24.93 | 28 | 0 |
| 20 | QPSK | 1 | 48 | 25.14 | 25.03 | 25.28 | 24.80 | 24.87 | | |
| 20 | QPSK | 1 | 96 | 25.05 | 25.01 | 25.17 | 24.80 | 24.87 | | |
| 20 | QPSK | 50 | 0 | 25.22 | 25.23 | 25.35 | 25.14 | 25.11 | | |
| 20 | QPSK | 50 | 24 | 25.25 | 25.15 | 25.22 | 25.11 | 25.05 | 27 | 1 |
| 20 | QPSK | 50 | 50 | 25.09 | 25.27 | 25.18 | 25.10 | 25.00 | | |
| 20 | QPSK | 100 | 0 | 25.08 | 25.13 | 25.19 | 25.10 | 25.08 | | |



Band 66 Ant 1 EC16

| ISW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Tune-up test (dBm) | MPE (dB) |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|--------------------|----------|
| Channel | | | | 130000 | 130000 | 130000 | | |
| Frequency (MHz) | | | | 1790 | 1745 | 1770 | | |
| 20 | QPSK | 1 | 0 | 21.84 | 21.85 | 21.85 | | |
| 20 | QPSK | 1 | -69 | 21.87 | 21.78 | 21.73 | 23 | 0 |
| 20 | QPSK | 1 | 99 | 21.76 | 21.79 | 21.76 | | |
| 20 | QPSK | 50 | 0 | 21.78 | 21.83 | 21.77 | | |
| 20 | QPSK | 50 | -24 | 21.88 | 21.77 | 21.77 | 23 | 0 |
| 20 | QPSK | 50 | 50 | 21.76 | 21.74 | 21.72 | | |
| 20 | QPSK | 100 | 0 | 21.88 | 21.75 | 21.73 | | |



Band 38 Ant 1 ECI6

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Med Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|
| Channel | | | | | | | | |
| 37650 | | | | 38050 | 38150 | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 22.49 | 22.50 | 22.51 | | |
| 20 | QPSK | 1 | 48 | 23.54 | 23.55 | 23.53 | 25 | 0 |
| 20 | QPSK | 1 | 48 | 23.54 | 23.55 | 23.46 | | |
| 20 | QPSK | 1 | 96 | 23.55 | 23.44 | 23.38 | | |
| 20 | QPSK | 50 | 0 | 22.39 | 22.50 | 22.55 | | |
| 20 | QPSK | 50 | 24 | 22.46 | 22.47 | 22.47 | 24 | 1 |
| 20 | QPSK | 50 | 60 | 22.52 | 22.45 | 22.41 | | |
| 20 | QPSK | 100 | 0 | 22.52 | 22.55 | 22.52 | | |

Band 41 Ant 1 ECI6

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 22.56 | 22.57 | 22.63 | 22.65 | 22.65 | | |
| 20 | QPSK | 1 | 48 | 23.58 | 23.58 | 23.57 | 23.65 | 23.54 | 25 | 0 |
| 20 | QPSK | 1 | 48 | 23.49 | 23.61 | 23.55 | 23.45 | 23.41 | | |
| 20 | QPSK | 1 | 96 | 23.49 | 23.52 | 23.63 | 23.63 | 23.48 | | |
| 20 | QPSK | 50 | 0 | 22.55 | 22.54 | 22.73 | 22.69 | 22.50 | | |
| 20 | QPSK | 50 | 24 | 22.54 | 22.49 | 22.58 | 22.47 | 22.47 | 24 | 1 |
| 20 | QPSK | 50 | 50 | 22.43 | 22.40 | 22.52 | 22.50 | 22.52 | | |
| 20 | QPSK | 100 | 0 | 22.52 | 22.58 | 22.67 | 22.65 | 22.60 | | |

Band 41 HPUE Ant 1 ECI6

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 25.68 | 24.63 | 25.67 | 24.64 | 24.63 | | |
| 20 | QPSK | 1 | 48 | 25.85 | 25.55 | 25.63 | 25.61 | 25.61 | 27 | 0 |
| 20 | QPSK | 1 | 96 | 25.61 | 25.55 | 25.67 | 25.60 | 25.59 | | |
| 20 | QPSK | 50 | 0 | 24.71 | 24.64 | 24.77 | 24.70 | 24.64 | | |
| 20 | QPSK | 50 | 24 | 24.49 | 24.55 | 24.60 | 24.68 | 24.53 | 26 | 1 |
| 20 | QPSK | 50 | 50 | 24.67 | 24.50 | 24.74 | 24.50 | 24.58 | | |
| 20 | QPSK | 100 | 0 | 24.70 | 24.63 | 24.78 | 24.65 | 24.61 | | |



| Band 2 Ant 2 ECI6 | | | | | | | | | |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Time-up limit (d/m) | MRR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 18.72 | 18.74 | 18.71 | | | |
| 20 | QPSK | 1 | 49 | 18.58 | 18.55 | 18.50 | 20.2 | 0 | |
| 20 | QPSK | 1 | 99 | 18.53 | 18.59 | 18.63 | | | |
| 20 | QPSK | 50 | 0 | 18.88 | 18.89 | 18.85 | | | |
| 20 | QPSK | 50 | 24 | 18.53 | 18.60 | 18.69 | 20.2 | 0 | |
| 20 | QPSK | 50 | 50 | 18.58 | 18.68 | 18.88 | | | |
| 20 | QPSK | 100 | 0 | 18.81 | 18.84 | 18.89 | | | |

| Band 4 Ant 2 ECI6 | | | | | | | | | |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Time-up limit (d/m) | MRR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 18.51 | 18.50 | 18.51 | | | |
| 20 | QPSK | 1 | 49 | 18.46 | 18.50 | 18.39 | 19.7 | 0 | |
| 20 | QPSK | 1 | 99 | 18.44 | 18.40 | 18.39 | | | |
| 20 | QPSK | 50 | 0 | 18.41 | 18.51 | 18.38 | | | |
| 20 | QPSK | 50 | 24 | 18.38 | 18.39 | 18.38 | 19.7 | 0 | |
| 20 | QPSK | 50 | 50 | 18.44 | 18.48 | 18.32 | | | |
| 20 | QPSK | 100 | 0 | 18.43 | 18.50 | 18.45 | | | |

| Band 7 Ant 2 ECI6 | | | | | | | | | |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Time-up limit (d/m) | MRR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 19.94 | 19.96 | 19.91 | | | |
| 20 | QPSK | 1 | 49 | 19.88 | 19.93 | 19.92 | 21.2 | 0 | |
| 20 | QPSK | 1 | 99 | 19.84 | 19.91 | 19.93 | | | |
| 20 | QPSK | 50 | 0 | 19.89 | 19.94 | 19.93 | | | |
| 20 | QPSK | 50 | 24 | 19.91 | 19.89 | 19.79 | 21.2 | 0 | |
| 20 | QPSK | 50 | 50 | 19.89 | 19.91 | 19.82 | | | |
| 20 | QPSK | 100 | 0 | 19.87 | 19.90 | 19.82 | | | |



| Band 25 Ant 2 ECI6 | | | | | | | | | |
|--------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|---|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dBm) | MFR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 18.74 | 18.75 | 18.87 | | | |
| 20 | QPSK | 1 | 48 | 18.81 | 18.83 | 18.93 | 20.2 | | 0 |
| 20 | QPSK | 1 | 99 | 18.87 | 18.88 | 18.89 | | | |
| 20 | QPSK | 50 | 0 | 18.80 | 18.75 | 18.84 | | | |
| 20 | QPSK | 50 | 24 | 18.99 | 18.71 | 18.97 | | | |
| 20 | QPSK | 50 | 50 | 18.83 | 18.70 | 18.82 | 20.2 | | 0 |
| 20 | QPSK | 100 | 0 | 18.81 | 18.71 | 18.87 | | | |

| Band 66 Ant 2 ECI6 | | | | | | | | | |
|--------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|---|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dBm) | MFR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 18.57 | 18.60 | 18.65 | | | |
| 20 | QPSK | 1 | 48 | 18.57 | 18.57 | 18.53 | 19.7 | | 0 |
| 20 | QPSK | 1 | 99 | 18.35 | 18.61 | 18.48 | | | |
| 20 | QPSK | 50 | 0 | 18.44 | 18.62 | 18.47 | | | |
| 20 | QPSK | 50 | 24 | 18.55 | 18.49 | 18.46 | | | |
| 20 | QPSK | 50 | 50 | 18.53 | 18.59 | 18.53 | 19.7 | | 0 |
| 20 | QPSK | 100 | 0 | 18.59 | 18.61 | 18.47 | | | |



Band 38 Ant 2 ECI6

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Med Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|
| Channel | | | | | | | | |
| Channel | | | | 37850 | 38050 | 38150 | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 21.37 | 21.43 | 21.51 | | |
| 20 | QPSK | 1 | 48 | 21.33 | 21.23 | 21.34 | 23 | 0 |
| 20 | QPSK | 1 | 96 | 21.26 | 21.28 | 21.23 | | |
| 20 | QPSK | 50 | 0 | 21.31 | 21.43 | 21.25 | | |
| 20 | QPSK | 50 | 24 | 21.38 | 21.29 | 21.35 | 23 | 0 |
| 20 | QPSK | 50 | 96 | 21.27 | 21.25 | 21.25 | | |
| 20 | QPSK | 100 | 0 | 21.30 | 21.25 | 21.25 | | |

Band 41 Ant 2 ECI6

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-Middle Ch / Freq | Power Middle Ch / Freq | Power High-Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|-----------------------------|------------------------|-----------------------------|----------------------|---------------------|----------|
| Channel | | | | | | | | | | |
| Channel | | | | 39750 | 40185 | 40620 | 41055 | 41490 | | |
| Frequency (MHz) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 21.46 | 21.45 | 21.43 | 21.42 | 21.42 | | |
| 20 | QPSK | 1 | 48 | 21.40 | 21.35 | 21.38 | 21.35 | 21.28 | 23 | 0 |
| 20 | QPSK | 1 | 96 | 21.32 | 21.42 | 21.34 | 21.33 | 21.32 | | |
| 20 | QPSK | 50 | 0 | 21.27 | 21.41 | 21.51 | 21.30 | 21.33 | | |
| 20 | QPSK | 50 | 24 | 21.37 | 21.46 | 21.40 | 21.38 | 21.33 | 23 | 0 |
| 20 | QPSK | 50 | 96 | 21.32 | 21.37 | 21.39 | 21.33 | 21.28 | | |
| 20 | QPSK | 100 | 0 | 21.36 | 21.35 | 21.43 | 21.33 | 21.34 | | |

Band 41 HPUE Ant 2 ECI6

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-Middle Ch / Freq | Power Middle Ch / Freq | Power High-Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|-----------------------------|------------------------|-----------------------------|----------------------|---------------------|----------|
| Channel | | | | | | | | | | |
| Channel | | | | 39750 | 40185 | 40620 | 41055 | 41490 | | |
| Frequency (MHz) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 23.81 | 23.76 | 23.83 | 23.82 | 23.79 | | |
| 20 | QPSK | 1 | 48 | 23.85 | 23.74 | 23.88 | 23.83 | 23.70 | 24.6 | 0 |
| 20 | QPSK | 1 | 96 | 23.79 | 23.72 | 23.82 | 23.69 | 23.66 | | |
| 20 | QPSK | 50 | 0 | 23.72 | 23.74 | 23.87 | 23.68 | 23.61 | | |
| 20 | QPSK | 50 | 24 | 23.77 | 23.70 | 23.78 | 23.61 | 23.69 | 24.6 | 0 |
| 20 | QPSK | 50 | 96 | 23.81 | 23.72 | 23.80 | 23.71 | 23.62 | | |
| 20 | QPSK | 100 | 0 | 23.75 | 23.68 | 23.76 | 23.66 | 23.68 | | |



| Band 2 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) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 20.86 | 20.85 | 20.84 | 21.8 | 0 |
| 20 | QPSK | 1 | 40 | 20.36 | 20.39 | 20.43 | | |
| 20 | QPSK | 1 | 99 | 20.42 | 20.44 | 20.38 | | |
| 20 | QPSK | 50 | 0 | 20.40 | 20.55 | 20.40 | | |
| 20 | QPSK | 50 | 24 | 20.40 | 20.47 | 20.49 | | |
| 20 | QPSK | 50 | 50 | 20.48 | 20.38 | 20.51 | 21.8 | 0 |
| 20 | QPSK | 100 | 0 | 20.43 | 20.50 | 20.42 | | |

| Band 4 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) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 19.00 | 19.05 | 19.00 | 20.6 | 0 |
| 20 | QPSK | 1 | 40 | 19.00 | 19.00 | 19.00 | | |
| 20 | QPSK | 1 | 99 | 19.01 | 18.98 | 19.00 | | |
| 20 | QPSK | 50 | 0 | 18.92 | 19.02 | 19.06 | | |
| 20 | QPSK | 50 | 24 | 18.94 | 18.99 | 19.02 | | |
| 20 | QPSK | 50 | 50 | 19.05 | 18.99 | 18.92 | 20.6 | 0 |
| 20 | QPSK | 100 | 0 | 18.93 | 19.00 | 18.98 | | |

| Band 7 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) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 18.43 | 18.56 | 18.50 | 19.9 | 0 |
| 20 | QPSK | 1 | 40 | 18.34 | 18.47 | 18.40 | | |
| 20 | QPSK | 1 | 99 | 18.35 | 18.43 | 18.43 | | |
| 20 | QPSK | 50 | 0 | 18.36 | 18.53 | 18.42 | | |
| 20 | QPSK | 50 | 24 | 18.38 | 18.42 | 18.38 | | |
| 20 | QPSK | 50 | 50 | 18.36 | 18.43 | 18.42 | 19.9 | 0 |
| 20 | QPSK | 100 | 0 | 18.48 | 18.51 | 18.45 | | |



| Band 25 Ant 3 ECI6 | | | | | | | | | |
|--------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dBm) | MFR (dB) | |
| Channel | | | | 20540 | 20540 | 20600 | | | |
| Frequency (MHz) | | | | 1860 | 1860 | 1905 | | | |
| 20 | QPSK | 1 | 0 | 20.53 | 20.62 | 20.61 | | | |
| 20 | QPSK | 1 | 48 | 20.47 | 20.52 | 20.51 | 21.8 | 0 | |
| 20 | QPSK | 1 | 99 | 20.47 | 20.48 | 20.52 | | | |
| 20 | QPSK | 50 | 0 | 20.48 | 20.62 | 20.47 | | | |
| 20 | QPSK | 50 | 24 | 20.38 | 20.54 | 20.51 | | | |
| 20 | QPSK | 50 | 50 | 20.55 | 20.51 | 20.58 | 21.8 | 0 | |
| 20 | QPSK | 100 | 0 | 20.54 | 20.55 | 20.52 | | | |

| Band 66 Ant 3 ECI6 | | | | | | | | | |
|--------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dBm) | MFR (dB) | |
| Channel | | | | 13002 | 13002 | 13072 | | | |
| Frequency (MHz) | | | | 1720 | 1745 | 1770 | | | |
| 20 | QPSK | 1 | 0 | 19.17 | 19.23 | 19.18 | | | |
| 20 | QPSK | 1 | 48 | 19.16 | 19.14 | 19.05 | 20.6 | 0 | |
| 20 | QPSK | 1 | 99 | 19.09 | 19.11 | 19.04 | | | |
| 20 | QPSK | 50 | 0 | 19.01 | 19.17 | 19.08 | | | |
| 20 | QPSK | 50 | 24 | 19.08 | 19.02 | 19.09 | | | |
| 20 | QPSK | 50 | 50 | 19.09 | 19.07 | 19.07 | 20.6 | 0 | |
| 20 | QPSK | 100 | 0 | 19.02 | 19.13 | 19.11 | | | |



| Band 38 Ant 3 ECI6 | | | | | | | | | |
|--------------------|------------|---------|-----------|------------------------|---------------------------|------------------------|--------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Line Ch. / Freq. | Power Midline Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dB) | MPS (dB) | |
| Channel | | | | 387850 | 389000 | 387150 | | | |
| Frequency (MHz) | | | | 2046 | 2046 | 2046 | | | |
| 20 | QPSK | 1 | 0 | 20.42 | 20.44 | 20.41 | | | |
| 20 | QPSK | 1 | 49 | 20.41 | 20.41 | 20.33 | 22.2 | 0 | |
| 20 | QPSK | 1 | 99 | 20.33 | 20.37 | 20.36 | | | |
| 20 | QPSK | 50 | 0 | 20.28 | 20.34 | 20.30 | | | |
| 20 | QPSK | 50 | 24 | 20.28 | 20.31 | 20.30 | | | |
| 20 | QPSK | 50 | 50 | 20.22 | 20.32 | 20.28 | 22.2 | 0 | |
| 20 | QPSK | 100 | 0 | 20.32 | 20.37 | 20.29 | | | |

| Band 41 Ant 3 ECI6 | | | | | | | | | | |
|--------------------|------------|---------|-----------|-----------------------|-------------------------------|---------------------------|--------------------------------|------------------------|--------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low-Midline Ch. / Freq. | Power Midline Ch. / Freq. | Power High-Midline Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dB) | MPS (dB) |
| Channel | | | | 387150 | 40185 | 40620 | 41055 | 41490 | | |
| Frequency (MHz) | | | | 2046 | 2046 | 2046 | 2046 | 2046 | | |
| 20 | QPSK | 1 | 0 | 20.47 | 20.47 | 20.56 | 20.48 | 20.45 | | |
| 20 | QPSK | 1 | 49 | 20.38 | 20.41 | 20.43 | 20.48 | 20.48 | 22.2 | 0 |
| 20 | QPSK | 1 | 99 | 20.34 | 20.41 | 20.47 | 20.41 | 20.39 | | |
| 20 | QPSK | 50 | 0 | 20.30 | 20.48 | 20.49 | 20.44 | 20.34 | | |
| 20 | QPSK | 50 | 24 | 20.41 | 20.37 | 20.37 | 20.40 | 20.33 | 22.2 | 0 |
| 20 | QPSK | 50 | 50 | 20.29 | 20.31 | 20.41 | 20.30 | 20.32 | | |
| 20 | QPSK | 100 | 0 | 20.37 | 20.41 | 20.44 | 20.38 | 20.41 | | |



Reduced Power Mode for ECI 9

| GSM/DCI Act 0 | Base Average Power (dBm) | | | Turn-up | | | Frame Average Power (dBm) | | | Turn-up | | |
|-----------------|--------------------------|-------|-------|---------|-------|-------|---------------------------|-------|-------|---------|-------|-------|
| | 180 | 360 | 540 | 180 | 360 | 540 | 180 | 360 | 540 | 180 | 360 | 540 |
| TX Channel | 824.2 | 836.4 | 848.6 | | | | 824.2 | 836.4 | 848.6 | | | |
| Frequency (MHz) | 3133 | 3145 | 3157 | 3133 | 3145 | 3157 | 3133 | 3145 | 3157 | 3133 | 3145 | 3157 |
| OPRR 1 Tx level | 33.57 | 33.65 | 33.64 | 33.55 | 33.57 | 33.51 | 33.54 | 33.54 | 33.50 | 33.54 | 33.50 | 33.50 |
| OPRR 2 Tx level | 30.47 | 30.50 | 30.45 | 30.00 | 29.47 | 29.46 | 29.46 | 29.43 | 29.43 | 29.43 | 29.43 | 29.43 |
| OPRR 3 Tx level | 28.44 | 28.50 | 28.42 | 30.00 | 29.18 | 29.24 | 29.24 | 29.18 | 29.14 | 29.14 | 29.14 | 29.14 |
| OPRR 4 Tx level | 27.33 | 27.30 | 27.31 | 29.00 | 24.93 | 24.30 | 24.31 | 24.31 | 25.00 | | | |

| GSM/DCI Act 0 | Base Average Power (dBm) | | | Turn-up | | | Frame Average Power (dBm) | | | Turn-up | | |
|-----------------|--------------------------|-------|-------|---------|-------|-------|---------------------------|-------|-------|---------|-------|-------|
| | 512 | 687 | 810 | 512 | 687 | 810 | 512 | 687 | 810 | 512 | 687 | 810 |
| TX Channel | 824.2 | 836.4 | 848.6 | | | | 824.2 | 836.4 | 848.6 | | | |
| Frequency (MHz) | 3133 | 3145 | 3157 | 3133 | 3145 | 3157 | 3133 | 3145 | 3157 | 3133 | 3145 | 3157 |
| OPRR 1 Tx level | 27.86 | 27.90 | 27.87 | 29.00 | 18.93 | 18.06 | 18.87 | 20.00 | | | | |
| OPRR 2 Tx level | 24.99 | 24.98 | 24.92 | 21.81 | 19.99 | 20.00 | 19.99 | 21.04 | 21.04 | 21.04 | 21.04 | 21.04 |
| OPRR 3 Tx level | 24.24 | 24.31 | 24.21 | 25.30 | 19.06 | 20.07 | 19.06 | 21.04 | 21.04 | 21.04 | 21.04 | 21.04 |
| OPRR 4 Tx level | 22.00 | 23.00 | 22.88 | 24.10 | 19.92 | 20.02 | 19.98 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |

| Base | WCDMA 3.1 Act 0 | | | WCDMA 3.1 Act 0 | | | WCDMA 3.1 Act 0 | | | WCDMA 3.1 Act 0 | | |
|-----------------|-----------------|-------|-------|-----------------|--------|--------|-----------------|--------|--------|-----------------|-------|-------|
| | 9452 | 9450 | 9458 | 1412 | 1413 | 1413 | 1412 | 1413 | 1413 | 4152 | 4162 | 4233 |
| TX Channel | 9452 | 9450 | 9458 | 1412 | 1413 | 1413 | 1412 | 1413 | 1413 | 4152 | 4162 | 4233 |
| Frequency (MHz) | 1852.1 | 1850 | 1858 | 1112.4 | 1112.5 | 1112.5 | 1112.4 | 1112.5 | 1112.5 | 4267 | 4267 | 4268 |
| SCPP (dBm) | 15.82 | 15.84 | 15.78 | 17.00 | 18.52 | 18.04 | 18.48 | 19.70 | 24.20 | 24.31 | 24.27 | 25.00 |



| GEMMEL AVE 1 | | Rx Average Power (dBm) | | | Tx Average Power (dBm) | | | Tx Power (dBm) | | |
|-----------------|--|------------------------|-------|-------|------------------------|-------|-------|----------------|-------|-------|
| | | 198 | 199 | 201 | 198 | 199 | 201 | 198 | 199 | 201 |
| TX Channel | | 824.2 | 836.4 | 848.6 | 824.2 | 836.4 | 848.6 | 824.2 | 836.4 | 848.6 |
| Frequency (MHz) | | 815.0 | 815.1 | 815.2 | 815.0 | 815.1 | 815.2 | 815.0 | 815.1 | 815.2 |
| OPRS 1 Tx (dB) | | 31.89 | 31.65 | 31.53 | 33.59 | 32.92 | 32.65 | 32.53 | 34.50 | 34.50 |
| OPRS 2 Tx (dB) | | 30.82 | 30.63 | 30.54 | 32.00 | 31.82 | 31.63 | 31.54 | 33.00 | 33.00 |
| OPRS 3 Tx (dB) | | 29.46 | 29.31 | 29.43 | 30.00 | 29.20 | 29.25 | 29.25 | 30.75 | 30.75 |
| OPRS 4 Tx (dB) | | 27.38 | 27.39 | 27.32 | 29.00 | 28.38 | 28.39 | 28.32 | 29.00 | 29.00 |

| Band | | WCDMA 8 AVE 1 | | | WCDMA 8 AVE 2 | | | WCDMA 8 AVE 3 | | | | | |
|-----------------|---------------|---------------|-------|--------|---------------|--------|--------|---------------|-------|-------|-------|-------|-------|
| | | 5982 | 5980 | 5938 | 5932 | 5938 | 5938 | 4152 | 4182 | 4203 | | | |
| TX Channel | | 5982 | 5980 | 5938 | 5932 | 5938 | 5938 | 4152 | 4182 | 4203 | | | |
| Frequency (MHz) | | 9352.4 | 9380 | 9377.2 | 9372.4 | 9379.9 | 9379.8 | 895.4 | 896.4 | 896.8 | | | |
| SCPP Rx (dB) | RWCD 15_2400p | 17.67 | 17.69 | 17.69 | 18.30 | 17.89 | 17.94 | 17.85 | 19.10 | 24.11 | 24.22 | 24.15 | 25.00 |



| GSM 1900 Ant 2 | Total Average Power (dBm) | | | Turn-up Limit (dBm) | Flame-Dimming Power (dBm) | | | Turn-up Limit (dBm) |
|-----------------|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
| | 512 | 641 | 819 | | 512 | 641 | 819 | |
| Frequency (MHz) | 1990.2 | 1990 | 1990.8 | | 1990.2 | 1990 | 1990.8 | |
| OPRS 1 Tx site | 22.67 | 22.79 | 22.70 | 22.50 | 13.62 | 13.70 | 13.50 | 14.00 |
| OPRS 2 Tx site | 22.74 | 22.77 | 22.58 | 23.00 | 13.74 | 13.77 | 13.58 | 14.00 |
| OPRS 3 Tx site | 20.13 | 20.27 | 20.16 | 20.00 | 14.11 | 14.27 | 14.16 | 14.00 |
| OPRS 4 Tx site | 18.92 | 18.95 | 18.30 | 19.10 | 14.20 | 14.19 | 14.12 | 14.00 |
| OPRS 4 Tx site | 16.66 | 16.67 | 16.62 | 17.00 | 13.60 | 13.67 | 13.62 | 14.00 |

| Band | ISCDMA-E Ant 2 | | | Turn-up Limit (dBm) | ISCDMA-E Ant 2 | | | Turn-up Limit (dBm) |
|-----------------|----------------|-------|-------|---------------------|----------------|-------|-------|---------------------|
| | 9500 | 9500 | 9538 | | 1312 | 1413 | 1513 | |
| TX Channel | 9500 | 9500 | 9538 | | 1312 | 1413 | 1513 | |
| Frequency (MHz) | 892.4 | 890 | 907.8 | 14.00 | 13.50 | 13.43 | 13.50 | 14.50 |
| ISCDMA-E Ant 2 | 13.53 | 13.58 | 13.47 | | 13.50 | 13.43 | 13.50 | 14.50 |



| Band | WCDMA II AX 3 | | | Time- slot | WCDMA IV AX 3 | | | Time- slot |
|-----------------|---------------|-------|--------|---------------|---------------|--------|--------|---------------|
| TX Channel | 9452 | 9450 | 9538 | 1812 | 1413 | 1513 | 1812 | |
| RB Channel | 9452 | 9450 | 9538 | 1812 | 1413 | 1513 | 1812 | |
| Frequency (MHz) | 1852.4 | 1850 | 1907.8 | 1712.8 | 1712.8 | 1712.8 | 1712.8 | |
| SCPF for W | 15.96 | 15.96 | 15.96 | 17.30 | 14.83 | 14.83 | 14.84 | |



Band 66 Ant 0 ECI 9

| BW [MHz] | Modulation | RB Size | RB Offset | Power | | | Turn-up limit [dBm] | MPE [dB] |
|-----------------|------------|---------|-----------|--------------------|--------------------|---------------------|---------------------------|-------------|
| | | | | Low Ch. / Freq. | Mid Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 1.50000 | 1.50000 | 1.50000 | | |
| Frequency [MHz] | | | | 1750 | 1745 | 1750 | | |
| 20 | QPSK | 1 | 0 | 21.13 | 21.10 | 21.16 | | |
| 20 | QPSK | 1 | -69 | 21.05 | 21.09 | 21.04 | 22.5 | 0 |
| 20 | QPSK | 1 | 99 | 20.98 | 21.11 | 21.11 | | |
| 20 | QPSK | 50 | 0 | 21.06 | 21.11 | 21.03 | | |
| 20 | QPSK | 50 | -24 | 21.09 | 21.03 | 21.07 | 22.5 | 0 |
| 20 | QPSK | 50 | 50 | 21.05 | 21.09 | 21.10 | | |
| 20 | QPSK | 100 | 0 | 21.05 | 21.11 | 21.02 | | |



Band 38 Ant 0 ECI 9

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Med Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|
| Channel | | | | | | | | |
| 37650 | | | | 38050 | 38150 | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 21.65 | 21.71 | 21.81 | | |
| 20 | QPSK | 1 | 48 | 21.60 | 21.63 | 21.52 | 22.6 | 0 |
| 20 | QPSK | 1 | 96 | 21.55 | 21.57 | 21.60 | | |
| 20 | QPSK | 50 | 0 | 21.58 | 21.57 | 21.54 | | |
| 20 | QPSK | 50 | 24 | 21.60 | 21.57 | 21.56 | 22.6 | 0 |
| 20 | QPSK | 50 | 50 | 21.55 | 21.53 | 21.58 | | |
| 20 | QPSK | 100 | 0 | 21.54 | 21.57 | 21.55 | | |

Band 41 Ant 0 ECI 9

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 21.74 | 21.77 | 21.73 | 21.74 | 21.69 | | |
| 20 | QPSK | 1 | 48 | 21.70 | 21.67 | 21.77 | 21.67 | 21.66 | 22.6 | 0 |
| 20 | QPSK | 1 | 96 | 21.64 | 21.67 | 21.66 | 21.68 | 21.58 | | |
| 20 | QPSK | 50 | 0 | 21.65 | 21.61 | 21.75 | 21.63 | 21.65 | | |
| 20 | QPSK | 50 | 24 | 21.68 | 21.59 | 21.70 | 21.61 | 21.64 | 22.6 | 0 |
| 20 | QPSK | 50 | 50 | 21.67 | 21.72 | 21.63 | 21.69 | 21.65 | | |
| 20 | QPSK | 100 | 0 | 21.69 | 21.66 | 21.72 | 21.63 | 21.61 | | |

Band 41 HPUE Ant 0 ECI 9

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 22.94 | 22.90 | 23.02 | 22.91 | 23.00 | | |
| 20 | QPSK | 1 | 48 | 22.88 | 22.90 | 22.95 | 22.86 | 22.81 | 24.2 | 0 |
| 20 | QPSK | 1 | 96 | 22.82 | 22.80 | 22.87 | 22.80 | 22.83 | | |
| 20 | QPSK | 50 | 0 | 22.85 | 22.80 | 22.95 | 22.82 | 22.90 | | |
| 20 | QPSK | 50 | 24 | 22.87 | 22.79 | 22.81 | 22.87 | 22.85 | 24.2 | 0 |
| 20 | QPSK | 50 | 50 | 22.81 | 22.80 | 22.84 | 22.80 | 22.80 | | |
| 20 | QPSK | 100 | 0 | 22.84 | 22.85 | 22.95 | 22.85 | 22.88 | | |



Band 66 Ant 1 ECI 9

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Turn-up | MPE |
|-----------------|------------|---------|-----------|-------------|-------------|-------------|---------|------|
| | | | | Low | Mid | High | | |
| Channel | | | | Ch. / Freq. | Ch. / Freq. | Ch. / Freq. | (dBm) | (dB) |
| Frequency (MHz) | | | | 1790 | 1745 | 1770 | | |
| 20 | QPSK | 1 | 0 | 18.52 | 18.56 | 18.55 | 19.8 | 0 |
| 20 | QPSK | 1 | -49 | 18.50 | 18.50 | 18.51 | | |
| 20 | QPSK | 1 | 99 | 18.41 | 18.56 | 18.51 | | |
| 20 | QPSK | 50 | 0 | 18.46 | 18.57 | 18.42 | 19.8 | 0 |
| 20 | QPSK | 50 | -24 | 18.52 | 18.50 | 18.45 | | |
| 20 | QPSK | 50 | 50 | 18.47 | 18.49 | 18.49 | | |
| 20 | QPSK | 100 | 0 | 18.44 | 18.49 | 18.47 | | |



Band 38 Ant 1 ECI 9

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Med Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|
| Channel | | | | 37650 | 38050 | 38150 | | |
| Frequency (MHz) | | | | 7410 | 7560 | 7610 | | |
| 20 | QPSK | 1 | 0 | 19.52 | 19.72 | 19.65 | 20.9 | 0 |
| 20 | QPSK | 1 | 48 | 19.49 | 19.51 | 19.55 | | |
| 20 | QPSK | 1 | 96 | 19.54 | 19.56 | 19.45 | | |
| 20 | QPSK | 50 | 0 | 19.60 | 19.67 | 19.45 | | |
| 20 | QPSK | 50 | 24 | 19.49 | 19.63 | 19.52 | 20.9 | 0 |
| 20 | QPSK | 50 | 60 | 19.55 | 19.62 | 19.52 | | |
| 20 | QPSK | 100 | 0 | 19.49 | 19.61 | 19.55 | | |

Band 41 Ant 1 ECI 9

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | 3506 | 3613 | 3723 | 3826.5 | 3930 | | |
| 20 | QPSK | 1 | 0 | 19.65 | 19.71 | 19.74 | 19.65 | 19.65 | 20.9 | 0 |
| 20 | QPSK | 1 | 48 | 19.67 | 19.63 | 19.65 | 19.59 | 19.60 | | |
| 20 | QPSK | 1 | 96 | 19.61 | 19.60 | 19.61 | 19.60 | 19.60 | | |
| 20 | QPSK | 50 | 0 | 19.59 | 19.65 | 19.72 | 19.67 | 19.61 | | |
| 20 | QPSK | 50 | 24 | 19.54 | 19.60 | 19.68 | 19.65 | 19.58 | 20.9 | 0 |
| 20 | QPSK | 50 | 50 | 19.57 | 19.61 | 19.62 | 19.60 | 19.62 | | |
| 20 | QPSK | 100 | 0 | 19.54 | 19.55 | 19.70 | 19.61 | 19.63 | | |

Band 41 HPUE Ant 1 ECI 9

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | 3506 | 3613 | 3723 | 3826.5 | 3930 | | |
| 20 | QPSK | 1 | 0 | 21.00 | 20.97 | 21.02 | 20.94 | 21.02 | 22.5 | 0 |
| 20 | QPSK | 1 | 48 | 20.88 | 20.88 | 20.84 | 20.84 | 20.89 | | |
| 20 | QPSK | 1 | 96 | 21.01 | 20.94 | 21.01 | 20.95 | 20.93 | | |
| 20 | QPSK | 50 | 0 | 20.91 | 20.92 | 21.03 | 20.97 | 20.95 | | |
| 20 | QPSK | 50 | 24 | 20.99 | 20.88 | 20.94 | 20.88 | 20.92 | 22.5 | 0 |
| 20 | QPSK | 50 | 50 | 20.94 | 20.87 | 20.92 | 20.85 | 21.01 | | |
| 20 | QPSK | 100 | 0 | 20.90 | 20.84 | 20.95 | 20.95 | 20.88 | | |



| Band 2 Ant 2 ECI 9 | | | | | | | | | |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Time-up limit (d/m) | MFR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 11.76 | 11.84 | 11.78 | | | |
| 20 | QPSK | 1 | 49 | 11.76 | 11.73 | 11.68 | 13.1 | 0 | |
| 20 | QPSK | 1 | 99 | 11.67 | 11.78 | 11.77 | | | |
| 20 | QPSK | 50 | 0 | 11.81 | 11.83 | 11.73 | | | |
| 20 | QPSK | 50 | 24 | 11.69 | 11.72 | 11.79 | 13.1 | 0 | |
| 20 | QPSK | 50 | 50 | 11.62 | 11.77 | 11.79 | | | |
| 20 | QPSK | 100 | 0 | 11.62 | 11.76 | 11.67 | | | |

| Band 4 Ant 2 ECI 9 | | | | | | | | | |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Time-up limit (d/m) | MFR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 9.89 | 10.02 | 9.96 | | | |
| 20 | QPSK | 1 | 49 | 9.84 | 9.97 | 9.93 | 11.3 | 0 | |
| 20 | QPSK | 1 | 99 | 9.84 | 9.85 | 9.88 | | | |
| 20 | QPSK | 50 | 0 | 9.91 | 10.00 | 9.91 | | | |
| 20 | QPSK | 50 | 24 | 9.85 | 9.93 | 9.88 | 11.3 | 0 | |
| 20 | QPSK | 50 | 50 | 9.80 | 9.84 | 9.91 | | | |
| 20 | QPSK | 100 | 0 | 9.88 | 9.94 | 9.79 | | | |

| Band 7 Ant 2 ECI 9 | | | | | | | | | |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Time-up limit (d/m) | MFR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 13.61 | 13.68 | 13.64 | | | |
| 20 | QPSK | 1 | 49 | 13.62 | 13.61 | 13.54 | 15 | 0 | |
| 20 | QPSK | 1 | 99 | 13.51 | 13.58 | 13.62 | | | |
| 20 | QPSK | 50 | 0 | 13.51 | 13.66 | 13.52 | | | |
| 20 | QPSK | 50 | 24 | 13.58 | 13.58 | 13.61 | 15 | 0 | |
| 20 | QPSK | 50 | 50 | 13.51 | 13.57 | 13.62 | | | |
| 20 | QPSK | 100 | 0 | 13.58 | 13.62 | 13.58 | | | |



| Band 25 Ant 2 ECI 9 | | | | | | | | | |
|---------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dBm) | MFR (dB) | |
| Channel | | | | 26140 | 26240 | 26340 | | | |
| Frequency (MHz) | | | | 1860 | 1860 | 1905 | | | |
| 20 | QPSK | 1 | 0 | 11.86 | 11.62 | 11.86 | | | |
| 20 | QPSK | 1 | 49 | 11.73 | 11.68 | 11.78 | 13.1 | 0 | |
| 20 | QPSK | 1 | 99 | 11.74 | 11.88 | 11.84 | | | |
| 20 | QPSK | 50 | 0 | 11.71 | 11.60 | 11.87 | | | |
| 20 | QPSK | 50 | 24 | 11.80 | 11.60 | 11.75 | | | |
| 20 | QPSK | 50 | 50 | 11.74 | 11.67 | 11.88 | 13.1 | 0 | |
| 20 | QPSK | 100 | 0 | 11.77 | 11.65 | 11.75 | | | |

| Band 66 Ant 2 ECI 9 | | | | | | | | | |
|---------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dBm) | MFR (dB) | |
| Channel | | | | 130072 | 130122 | 130172 | | | |
| Frequency (MHz) | | | | 1790 | 1745 | 1770 | | | |
| 20 | QPSK | 1 | 0 | 10.00 | 10.50 | 9.99 | | | |
| 20 | QPSK | 1 | 49 | 10.00 | 9.97 | 9.93 | 11.3 | 0 | |
| 20 | QPSK | 1 | 99 | 9.99 | 9.95 | 9.90 | | | |
| 20 | QPSK | 50 | 0 | 9.95 | 10.02 | 9.92 | | | |
| 20 | QPSK | 50 | 24 | 9.91 | 10.01 | 9.90 | | | |
| 20 | QPSK | 50 | 50 | 9.89 | 9.99 | 9.93 | 11.3 | 0 | |
| 20 | QPSK | 100 | 0 | 9.87 | 10.00 | 9.89 | | | |



Band 38 Ant 2 ECI 9

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Med Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|
| Channel | | | | 37650 | 38050 | 38150 | | |
| Frequency (MHz) | | | | 7410 | 7510 | 7510 | | |
| 20 | QPSK | 1 | 0 | 16.45 | 16.51 | 16.37 | 17.3 | 0 |
| 20 | QPSK | 1 | 49 | 16.41 | 16.43 | 16.37 | | |
| 20 | QPSK | 1 | 99 | 16.46 | 16.48 | 16.38 | | |
| 20 | QPSK | 50 | 0 | 16.37 | 16.45 | 16.46 | | |
| 20 | QPSK | 50 | 24 | 16.46 | 16.43 | 16.41 | 17.3 | 0 |
| 20 | QPSK | 50 | 50 | 16.43 | 16.40 | 16.42 | | |
| 20 | QPSK | 100 | 0 | 16.39 | 16.43 | 16.35 | | |

Band 41 Ant 2 ECI 9

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | 7950 | 7975 | 7975 | 7975 | 7975 | | |
| 20 | QPSK | 1 | 0 | 16.51 | 16.55 | 16.53 | 16.52 | 16.54 | 17.3 | 0 |
| 20 | QPSK | 1 | 49 | 16.44 | 16.48 | 16.49 | 16.47 | 16.47 | | |
| 20 | QPSK | 1 | 99 | 16.40 | 16.47 | 16.55 | 16.40 | 16.42 | | |
| 20 | QPSK | 50 | 0 | 16.41 | 16.44 | 16.52 | 16.45 | 16.47 | | |
| 20 | QPSK | 50 | 24 | 16.40 | 16.40 | 16.47 | 16.44 | 16.46 | 17.3 | 0 |
| 20 | QPSK | 50 | 50 | 16.41 | 16.41 | 16.44 | 16.49 | 16.45 | | |
| 20 | QPSK | 100 | 0 | 16.44 | 16.46 | 16.51 | 16.40 | 16.46 | | |

Band 41 HPUE Ant 2 ECI 9

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | 7950 | 7975 | 7975 | 7975 | 7975 | | |
| 20 | QPSK | 1 | 0 | 17.71 | 17.74 | 17.62 | 17.77 | 17.80 | 18.9 | 0 |
| 20 | QPSK | 1 | 49 | 17.81 | 17.69 | 17.74 | 17.68 | 17.71 | | |
| 20 | QPSK | 1 | 99 | 17.73 | 17.74 | 17.74 | 17.75 | 17.72 | | |
| 20 | QPSK | 50 | 0 | 17.69 | 17.64 | 17.70 | 17.78 | 17.68 | | |
| 20 | QPSK | 50 | 24 | 17.68 | 17.67 | 17.70 | 17.78 | 17.73 | 18.9 | 0 |
| 20 | QPSK | 50 | 50 | 17.68 | 17.70 | 17.75 | 17.65 | 17.73 | | |
| 20 | QPSK | 100 | 0 | 17.83 | 17.71 | 17.74 | 17.73 | 17.72 | | |



| Band 2 Ant 3 ECI 9 | | | | | | | | |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 16.85 | 16.89 | 16.81 | 18.1 | 0 |
| 20 | QPSK | 1 | 40 | 16.81 | 16.89 | 16.83 | | |
| 20 | QPSK | 1 | 99 | 16.80 | 16.84 | 16.86 | | |
| 20 | QPSK | 50 | 0 | 16.84 | 16.89 | 16.92 | | |
| 20 | QPSK | 50 | 24 | 16.91 | 16.87 | 16.77 | | |
| 20 | QPSK | 50 | 50 | 16.79 | 16.84 | 16.78 | 18.1 | 0 |
| 20 | QPSK | 100 | 0 | 16.83 | 16.89 | 16.78 | | |

| Band 4 Ant 3 ECI 9 | | | | | | | | |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 17.06 | 17.12 | 17.07 | 18.3 | 0 |
| 20 | QPSK | 1 | 40 | 17.01 | 17.10 | 17.06 | | |
| 20 | QPSK | 1 | 99 | 17.03 | 16.97 | 17.03 | | |
| 20 | QPSK | 50 | 0 | 17.00 | 17.12 | 17.00 | | |
| 20 | QPSK | 50 | 24 | 17.01 | 17.05 | 17.01 | | |
| 20 | QPSK | 50 | 50 | 16.93 | 17.09 | 16.97 | 18.3 | 0 |
| 20 | QPSK | 100 | 0 | 17.05 | 17.12 | 16.95 | | |

| Band 7 Ant 3 ECI 9 | | | | | | | | |
|--------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MFR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 13.72 | 13.76 | 13.72 | 15.2 | 0 |
| 20 | QPSK | 1 | 40 | 13.81 | 13.69 | 13.64 | | |
| 20 | QPSK | 1 | 99 | 13.86 | 13.84 | 13.68 | | |
| 20 | QPSK | 50 | 0 | 13.64 | 13.72 | 13.64 | | |
| 20 | QPSK | 50 | 24 | 13.84 | 13.69 | 13.68 | | |
| 20 | QPSK | 50 | 50 | 13.81 | 13.83 | 13.67 | 15.2 | 0 |
| 20 | QPSK | 100 | 0 | 13.81 | 13.68 | 13.65 | | |



| Band 25 Ant 3 ECI 9 | | | | | | | | | |
|---------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|---|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dBm) | MFR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 18.95 | 18.97 | 18.98 | | 18.1 | 0 |
| 20 | QPSK | 1 | 48 | 18.95 | 18.98 | 18.99 | | | |
| 20 | QPSK | 1 | 99 | 18.86 | 18.91 | 18.93 | | | |
| 20 | QPSK | 50 | 0 | 18.92 | 18.95 | 18.91 | | | |
| 20 | QPSK | 50 | 24 | 18.91 | 18.89 | 18.85 | | | |
| 20 | QPSK | 50 | 50 | 18.88 | 18.84 | 18.84 | | 18.1 | 0 |
| 20 | QPSK | 100 | 0 | 18.91 | 18.92 | 18.88 | | | |

| Band 66 Ant 3 ECI 9 | | | | | | | | | |
|---------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|---|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dBm) | MFR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 17.17 | 17.20 | 17.12 | | | |
| 20 | QPSK | 1 | 48 | 17.09 | 17.17 | 17.05 | | 18.3 | 0 |
| 20 | QPSK | 1 | 99 | 17.10 | 17.09 | 17.14 | | | |
| 20 | QPSK | 50 | 0 | 17.11 | 17.18 | 17.10 | | | |
| 20 | QPSK | 50 | 24 | 17.08 | 17.10 | 17.05 | | | |
| 20 | QPSK | 50 | 50 | 17.07 | 17.14 | 17.04 | | 18.3 | 0 |
| 20 | QPSK | 100 | 0 | 17.13 | 17.15 | 17.02 | | | |



| Band 38 Ant 3 ECI 9 | | | | | | | | | |
|---------------------|------------|---------|-----------|------------------------|---------------------------|------------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Line Ch. / Freq. | Power Midline Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPS (dB) | |
| Channel | | | | 387850 | 389000 | 387150 | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 15.93 | 15.95 | 15.99 | 16.0 | 0 | |
| 20 | QPSK | 1 | 49 | 15.96 | 16.02 | 15.98 | 16.0 | 0 | |
| 20 | QPSK | 1 | 99 | 15.99 | 16.03 | 15.94 | 16.0 | 0 | |
| 20 | QPSK | 50 | 0 | 15.92 | 16.04 | 15.98 | 16.0 | 0 | |
| 20 | QPSK | 50 | 24 | 15.83 | 15.92 | 15.93 | 16.0 | 0 | |
| 20 | QPSK | 50 | 50 | 15.72 | 15.97 | 16.02 | 16.0 | 0 | |
| 20 | QPSK | 100 | 0 | 15.88 | 15.91 | 15.85 | 16.0 | 0 | |

| Band 41 Ant 3 ECI 9 | | | | | | | | | | |
|---------------------|------------|---------|-----------|-----------------------|-------------------------------|---------------------------|--------------------------------|------------------------|---------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low-Midline Ch. / Freq. | Power Midline Ch. / Freq. | Power High-Midline Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPS (dB) |
| Channel | | | | 387150 | 40185 | 40620 | 41055 | 41490 | | |
| Frequency (MHz) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 16.05 | 16.02 | 16.03 | 16.01 | 16.02 | 16.0 | 0 |
| 20 | QPSK | 1 | 49 | 16.05 | 15.98 | 16.06 | 16.08 | 16.01 | 16.0 | 0 |
| 20 | QPSK | 1 | 99 | 16.09 | 16.01 | 15.99 | 16.01 | 16.09 | 16.0 | 0 |
| 20 | QPSK | 50 | 0 | 15.93 | 16.01 | 16.07 | 15.99 | 15.99 | 16.0 | 0 |
| 20 | QPSK | 50 | 24 | 15.98 | 16.09 | 16.02 | 16.01 | 15.98 | 16.0 | 0 |
| 20 | QPSK | 50 | 50 | 15.98 | 16.05 | 16.02 | 16.04 | 15.91 | 16.0 | 0 |
| 20 | QPSK | 100 | 0 | 15.98 | 16.02 | 16.03 | 16.08 | 15.94 | 16.0 | 0 |



Band 42 FCC Part27Q Ant6 ECI 9

| Band (MHz) | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mid Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MRR (dB) |
|------------------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 15.73 | 15.85 | 15.81 | 17.2 | 0 |
| 20 | QPSK | 1 | 49 | 15.75 | 15.84 | 15.76 | | |
| 20 | QPSK | 1 | 99 | 15.80 | 15.80 | 15.82 | | |
| 20 | QPSK | 50 | 0 | 15.89 | 15.93 | 15.89 | | |
| 20 | QPSK | 50 | 24 | 15.88 | 15.81 | 15.84 | | |
| 20 | QPSK | 50 | 49 | 15.79 | 15.81 | 15.77 | | |
| 20 | QPSK | 100 | 0 | 15.84 | 15.87 | 15.88 | | |
| 20 | HQAM | 1 | 0 | 15.83 | 15.83 | 15.73 | 17.2 | 0 |
| 20 | HQAM | 1 | 49 | 15.79 | 15.79 | 15.72 | | |
| 20 | HQAM | 1 | 99 | 15.89 | 15.85 | 15.74 | | |
| 20 | HQAM | 50 | 0 | 15.89 | 15.74 | 15.74 | | |
| 20 | HQAM | 50 | 24 | 15.84 | 15.82 | 15.73 | | |
| 20 | HQAM | 50 | 50 | 15.88 | 15.80 | 15.89 | | |
| 20 | HQAM | 100 | 0 | 15.88 | 15.78 | 15.89 | | |
| 20 | HQAM | 1 | 0 | 15.81 | 15.85 | 15.83 | 17.2 | 0 |
| 20 | HQAM | 1 | 49 | 15.84 | 15.85 | 15.74 | | |
| 20 | HQAM | 1 | 99 | 15.83 | 15.85 | 15.72 | | |
| 20 | HQAM | 50 | 0 | 15.89 | 15.71 | 15.85 | | |
| 20 | HQAM | 50 | 24 | 15.83 | 15.77 | 15.70 | | |
| 20 | HQAM | 50 | 50 | 15.81 | 15.79 | 15.78 | | |
| 20 | HQAM | 100 | 0 | 15.85 | 15.88 | 15.71 | | |
| 20 | HQAM | 1 | 0 | 15.85 | 15.80 | 15.82 | 17.2 | 0 |
| 20 | HQAM | 1 | 49 | 15.85 | 15.80 | 15.70 | | |
| 20 | HQAM | 1 | 99 | 15.88 | 15.80 | 15.87 | | |
| 20 | HQAM | 50 | 0 | 15.79 | 15.77 | 15.78 | | |
| 20 | HQAM | 50 | 24 | 15.89 | 15.86 | 15.73 | | |
| 20 | HQAM | 50 | 50 | 15.89 | 15.70 | 15.72 | | |
| 20 | HQAM | 100 | 0 | 15.81 | 15.87 | 15.78 | | |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 15 | QPSK | 1 | 0 | 15.83 | 15.80 | 15.73 | 17.2 | 0 |
| 15 | QPSK | 1 | 47 | 15.71 | 15.72 | 15.68 | | |
| 15 | QPSK | 1 | 74 | 15.87 | 15.76 | 15.80 | | |
| 15 | QPSK | 36 | 0 | 15.85 | 15.83 | 15.89 | | |
| 15 | QPSK | 36 | 20 | 15.85 | 15.78 | 15.88 | | |
| 15 | QPSK | 36 | 39 | 15.75 | 15.74 | 15.89 | | |
| 15 | QPSK | 75 | 0 | 15.81 | 15.77 | 15.88 | | |
| 15 | HQAM | 1 | 0 | 15.81 | 15.88 | 15.86 | 17.2 | 0 |
| 15 | HQAM | 1 | 37 | 15.85 | 15.80 | 15.88 | | |
| 15 | HQAM | 1 | 74 | 15.85 | 15.82 | 15.71 | | |
| 15 | HQAM | 36 | 0 | 15.84 | 15.80 | 15.87 | | |
| 15 | HQAM | 36 | 39 | 15.79 | 15.88 | 15.89 | | |
| 15 | HQAM | 36 | 59 | 15.84 | 15.78 | 15.86 | | |
| 15 | HQAM | 75 | 0 | 15.89 | 15.80 | 15.88 | | |
| 15 | HQAM | 1 | 0 | 15.87 | 15.80 | 15.85 | | |
| 15 | HQAM | 1 | 37 | 15.81 | 15.73 | 15.87 | | |
| 15 | HQAM | 1 | 74 | 15.89 | 15.82 | 15.83 | | |
| 15 | HQAM | 36 | 0 | 15.87 | 15.80 | 15.80 | | |
| 15 | HQAM | 36 | 20 | 15.79 | 15.72 | 15.86 | | |
| 15 | HQAM | 36 | 39 | 15.87 | 15.80 | 15.85 | | |
| 15 | HQAM | 75 | 0 | 15.89 | 15.77 | 15.80 | | |
| 15 | HQAM | 1 | 0 | 15.85 | 15.87 | 15.48 | | |
| 15 | HQAM | 1 | 37 | 15.81 | 15.79 | 15.86 | | |
| 15 | HQAM | 1 | 74 | 15.89 | 15.74 | 15.85 | | |
| 15 | HQAM | 36 | 0 | 15.72 | 15.72 | 15.86 | | |
| 15 | HQAM | 36 | 20 | 15.88 | 15.78 | 15.83 | | |
| 15 | HQAM | 36 | 39 | 15.85 | 15.87 | 15.82 | | |
| 15 | HQAM | 75 | 0 | 15.74 | 15.77 | 15.89 | | |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 10 | QPSK | 1 | 0 | 15.89 | 15.82 | 15.85 | 17.2 | 0 |
| 10 | QPSK | 1 | 25 | 15.84 | 15.77 | 15.88 | | |
| 10 | QPSK | 1 | 49 | 15.78 | 15.83 | 15.71 | | |
| 10 | QPSK | 25 | 0 | 15.87 | 15.87 | 15.89 | | |
| 10 | QPSK | 25 | 12 | 15.85 | 15.78 | 15.84 | | |
| 10 | QPSK | 25 | 25 | 15.88 | 15.73 | 15.83 | | |
| 10 | QPSK | 50 | 0 | 15.89 | 15.79 | 15.87 | | |
| 10 | HQAM | 1 | 0 | 15.84 | 15.72 | 15.88 | 17.2 | 0 |
| 10 | HQAM | 1 | 25 | 15.72 | 15.73 | 15.82 | | |
| 10 | HQAM | 1 | 49 | 15.89 | 15.79 | 15.87 | | |
| 10 | HQAM | 25 | 0 | 15.87 | 15.84 | 15.71 | | |
| 10 | HQAM | 25 | 12 | 15.79 | 15.78 | 15.88 | | |
| 10 | HQAM | 25 | 25 | 15.84 | 15.83 | 15.89 | | |
| 10 | HQAM | 50 | 0 | 15.84 | 15.73 | 15.87 | | |
| 10 | HQAM | 1 | 0 | 15.75 | 15.77 | 15.84 | | |
| 10 | HQAM | 1 | 25 | 15.74 | 15.77 | 15.83 | | |
| 10 | HQAM | 25 | 0 | 15.85 | 15.73 | 15.83 | | |
| 10 | HQAM | 25 | 12 | 15.76 | 15.86 | 15.84 | | |
| 10 | HQAM | 25 | 25 | 15.78 | 15.84 | 15.71 | | |
| 10 | HQAM | 50 | 0 | 15.89 | 15.77 | 15.88 | | |
| 10 | HQAM | 1 | 0 | 15.83 | 15.87 | 15.84 | | |
| 10 | HQAM | 1 | 25 | 15.73 | 15.76 | 15.88 | | |
| 10 | HQAM | 1 | 49 | 15.85 | 15.78 | 15.83 | | |
| 10 | HQAM | 25 | 0 | 15.77 | 15.84 | 15.71 | | |
| 10 | HQAM | 25 | 12 | 15.84 | 15.77 | 15.88 | | |
| 10 | HQAM | 25 | 25 | 15.81 | 15.85 | 15.84 | | |
| 10 | HQAM | 50 | 0 | 15.89 | 15.82 | 15.70 | | |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 5 | QPSK | 1 | 0 | 15.87 | 15.82 | 15.71 | 17.2 | 0 |
| 5 | QPSK | 1 | 15 | 15.88 | 15.72 | 15.71 | | |
| 5 | QPSK | 1 | 24 | 15.83 | 15.83 | 15.79 | | |
| 5 | QPSK | 12 | 0 | 15.88 | 15.88 | 15.98 | | |
| 5 | QPSK | 12 | 7 | 15.83 | 15.88 | 15.83 | | |
| 5 | QPSK | 12 | 13 | 15.75 | 15.78 | 15.74 | | |
| 5 | QPSK | 25 | 0 | 15.88 | 15.74 | 15.89 | | |
| 5 | HQAM | 1 | 0 | 15.81 | 15.87 | 15.81 | 17.2 | 0 |
| 5 | HQAM | 1 | 12 | 15.72 | 15.84 | 15.81 | | |
| 5 | HQAM | 1 | 24 | 15.81 | 15.78 | 15.88 | | |
| 5 | HQAM | 12 | 0 | 15.87 | 15.81 | 15.84 | | |
| 5 | HQAM | 12 | 7 | 15.81 | 15.75 | 15.87 | | |
| 5 | HQAM | 12 | 13 | 15.84 | 15.77 | 15.82 | | |
| 5 | HQAM | 25 | 0 | 15.83 | 15.84 | 15.87 | | |
| 5 | HQAM | 1 | 0 | 15.73 | 15.80 | 15.88 | | |
| 5 | HQAM | 1 | 12 | 15.78 | 15.78 | 15.86 | | |
| 5 | HQAM | 1 | 24 | 15.83 | 15.72 | 15.86 | | |
| 5 | HQAM | 12 | 0 | 15.88 | 15.78 | 15.82 | | |
| 5 | HQAM | 12 | 7 | 15.75 | 15.73 | 15.82 | | |
| 5 | HQAM | 12 | 13 | 15.77 | 15.75 | 15.72 | | |
| 5 | HQAM | 25 | 0 | 15.84 | 15.78 | 15.83 | | |
| 5 | HQAM | 1 | 0 | 15.81 | 15.77 | 15.84 | | |
| 5 | HQAM | 1 | 12 | 15.75 | 15.80 | 15.86 | | |
| 5 | HQAM | 1 | 24 | 15.85 | 15.70 | 15.81 | | |
| 5 | HQAM | 12 | 0 | 15.78 | 15.88 | 15.72 | | |
| 5 | HQAM | 12 | 7 | 15.89 | 15.72 | 15.87 | | |
| 5 | HQAM | 12 | 13 | 15.82 | 15.80 | 15.82 | | |
| 5 | HQAM | 25 | 0 | 15.74 | 15.75 | 15.88 | | |



Band 42 FCC Part27Q Ant8 ECI 9

| BitV (MHz) | Modulation | RB Sca | RB Offset | Power Low Ch / Freq | Power Mid Ch / Freq | Power High Ch / Freq | Tune-up Int (dBm) | MRR (dB) |
|------------------------|------------|--------|-----------|---------------------|---------------------|----------------------|-------------------|----------|
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 20.46 | 20.46 | 20.46 | 21.6 | 0 |
| 20 | QPSK | 1 | 49 | 20.24 | 20.24 | 20.18 | | |
| 20 | QPSK | 1 | 99 | 20.26 | 20.27 | 20.34 | | |
| 20 | QPSK | 50 | 0 | 20.45 | 20.45 | 20.37 | | |
| 20 | QPSK | 50 | 24 | 20.18 | 20.19 | 20.11 | 21.6 | 0 |
| 20 | QPSK | 50 | 49 | 20.18 | 20.20 | 20.30 | | |
| 20 | QPSK | 100 | 0 | 20.43 | 20.44 | 20.38 | | |
| 20 | HQAM | 1 | 0 | 20.44 | 20.45 | 20.34 | 21.6 | 0 |
| 20 | HQAM | 1 | 49 | 20.19 | 20.13 | 20.12 | | |
| 20 | HQAM | 1 | 99 | 20.18 | 20.34 | 20.29 | | |
| 20 | HQAM | 50 | 0 | 20.59 | 20.36 | 20.34 | | |
| 20 | HQAM | 50 | 24 | 20.17 | 20.15 | 20.11 | 21.6 | 0 |
| 20 | HQAM | 50 | 50 | 20.20 | 20.20 | 20.27 | | |
| 20 | HQAM | 100 | 0 | 20.43 | 20.44 | 20.32 | | |
| 20 | HQAM | 1 | 0 | 20.44 | 20.35 | 20.35 | | |
| 20 | HQAM | 1 | 49 | 20.20 | 20.16 | 20.12 | 21.6 | 0 |
| 20 | HQAM | 1 | 99 | 20.18 | 20.27 | 20.28 | | |
| 20 | HQAM | 50 | 0 | 19.87 | 19.97 | 19.89 | | |
| 20 | HQAM | 50 | 24 | 19.89 | 19.99 | 19.89 | 21 | 0.6 |
| 20 | HQAM | 50 | 50 | 19.94 | 19.97 | 19.95 | | |
| 20 | HQAM | 100 | 0 | 19.89 | 19.90 | 19.82 | | |
| 20 | SBSQAM | 1 | 0 | 17.90 | 17.83 | 17.90 | | |
| 20 | SBSQAM | 1 | 49 | 17.91 | 17.83 | 17.85 | 19 | 2.6 |
| 20 | SBSQAM | 1 | 99 | 17.81 | 17.82 | 17.88 | | |
| 20 | SBSQAM | 50 | 0 | 17.84 | 17.86 | 17.82 | | |
| 20 | SBSQAM | 50 | 24 | 17.98 | 17.99 | 17.94 | 19 | 2.6 |
| 20 | SBSQAM | 50 | 50 | 17.86 | 17.87 | 17.87 | | |
| 20 | SBSQAM | 100 | 0 | 17.93 | 17.88 | 17.94 | | |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 15 | QPSK | 1 | 0 | 20.43 | 20.43 | 20.42 | 21.6 | 0 |
| 15 | QPSK | 1 | 47 | 20.17 | 20.18 | 20.13 | | |
| 15 | QPSK | 1 | 74 | 20.19 | 20.22 | 20.26 | | |
| 15 | QPSK | 36 | 0 | 20.42 | 20.31 | 20.35 | 21.6 | 0 |
| 15 | QPSK | 36 | 20 | 20.09 | 20.13 | 20.03 | | |
| 15 | QPSK | 36 | 39 | 20.10 | 20.10 | 20.20 | | |
| 15 | QPSK | 75 | 0 | 20.35 | 20.38 | 20.35 | | |
| 15 | HQAM | 1 | 0 | 20.36 | 20.30 | 20.30 | 21.6 | 0 |
| 15 | HQAM | 1 | 37 | 20.14 | 20.08 | 20.04 | | |
| 15 | HQAM | 1 | 74 | 20.17 | 20.33 | 20.21 | | |
| 15 | HQAM | 36 | 0 | 20.52 | 20.33 | 20.33 | 21.6 | 0 |
| 15 | HQAM | 36 | 39 | 20.06 | 20.12 | 20.05 | | |
| 15 | HQAM | 36 | 59 | 20.15 | 20.26 | 20.24 | | |
| 15 | HQAM | 75 | 0 | 20.37 | 20.37 | 20.24 | | |
| 15 | HQAM | 1 | 0 | 20.38 | 20.33 | 20.32 | 21.6 | 0 |
| 15 | HQAM | 1 | 37 | 20.14 | 20.12 | 20.01 | | |
| 15 | HQAM | 1 | 74 | 20.14 | 20.16 | 20.24 | | |
| 15 | HQAM | 36 | 0 | 19.82 | 19.88 | 19.83 | 19 | 0.6 |
| 15 | HQAM | 36 | 20 | 19.79 | 19.88 | 19.85 | | |
| 15 | HQAM | 36 | 39 | 19.89 | 19.88 | 19.87 | | |
| 15 | HQAM | 75 | 0 | 19.84 | 19.93 | 19.75 | | |
| 15 | SBSQAM | 1 | 0 | 17.89 | 17.87 | 17.83 | 19 | 2.6 |
| 15 | SBSQAM | 1 | 37 | 17.88 | 17.84 | 17.78 | | |
| 15 | SBSQAM | 1 | 74 | 17.78 | 17.83 | 17.81 | | |
| 15 | SBSQAM | 36 | 0 | 17.92 | 17.87 | 17.83 | 19 | 2.6 |
| 15 | SBSQAM | 36 | 20 | 17.90 | 17.89 | 17.88 | | |
| 15 | SBSQAM | 36 | 39 | 17.83 | 17.86 | 17.83 | | |
| 15 | SBSQAM | 75 | 0 | 17.86 | 17.86 | 17.84 | | |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 10 | QPSK | 1 | 0 | 20.41 | 20.41 | 20.36 | 21.6 | 0 |
| 10 | QPSK | 1 | 25 | 20.18 | 20.16 | 20.12 | | |
| 10 | QPSK | 1 | 49 | 20.19 | 20.33 | 20.31 | | |
| 10 | QPSK | 36 | 0 | 20.35 | 20.35 | 20.29 | 21.6 | 0 |
| 10 | QPSK | 25 | 12 | 20.09 | 20.10 | 20.09 | | |
| 10 | QPSK | 25 | 25 | 20.09 | 20.22 | 20.21 | | |
| 10 | QPSK | 50 | 0 | 20.38 | 20.40 | 20.28 | | |
| 10 | HQAM | 1 | 0 | 20.42 | 20.30 | 20.29 | 21.6 | 0 |
| 10 | HQAM | 1 | 25 | 20.14 | 20.08 | 20.06 | | |
| 10 | HQAM | 1 | 49 | 20.10 | 20.24 | 20.25 | | |
| 10 | HQAM | 25 | 0 | 20.34 | 20.32 | 20.24 | 21.6 | 0 |
| 10 | HQAM | 25 | 12 | 20.12 | 20.09 | 20.04 | | |
| 10 | HQAM | 25 | 25 | 20.15 | 20.23 | 20.19 | | |
| 10 | HQAM | 50 | 0 | 20.32 | 20.38 | 20.28 | | |
| 10 | HQAM | 1 | 0 | 20.42 | 20.29 | 20.28 | 21.6 | 0 |
| 10 | HQAM | 1 | 25 | 20.14 | 20.07 | 20.10 | | |
| 10 | HQAM | 1 | 49 | 20.10 | 20.20 | 20.25 | | |
| 10 | HQAM | 25 | 0 | 19.79 | 19.89 | 19.81 | 21 | 0.6 |
| 10 | HQAM | 25 | 12 | 19.79 | 19.91 | 19.83 | | |
| 10 | HQAM | 25 | 25 | 19.90 | 19.85 | 19.91 | | |
| 10 | HQAM | 50 | 0 | 19.79 | 19.82 | 19.75 | | |
| 10 | SBSQAM | 1 | 0 | 17.85 | 17.84 | 17.81 | | |
| 10 | SBSQAM | 1 | 25 | 17.88 | 17.81 | 17.74 | 19 | 2.6 |
| 10 | SBSQAM | 1 | 49 | 17.71 | 17.87 | 17.83 | | |
| 10 | SBSQAM | 25 | 0 | 17.90 | 17.84 | 17.84 | | |
| 10 | SBSQAM | 25 | 12 | 17.84 | 17.86 | 17.87 | 19 | 2.6 |
| 10 | SBSQAM | 25 | 25 | 17.83 | 17.85 | 17.77 | | |
| 10 | SBSQAM | 50 | 0 | 17.91 | 17.90 | 17.88 | | |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 5 | QPSK | 1 | 0 | 20.43 | 20.37 | 20.34 | 21.6 | 0 |
| 5 | QPSK | 1 | 15 | 20.13 | 20.15 | 20.15 | | |
| 5 | QPSK | 1 | 24 | 20.18 | 20.28 | 20.29 | | |
| 5 | QPSK | 12 | 0 | 20.43 | 20.21 | 20.89 | 21.6 | 0 |
| 5 | QPSK | 12 | 7 | 20.12 | 20.19 | 20.03 | | |
| 5 | QPSK | 12 | 13 | 20.11 | 20.26 | 20.19 | | |
| 5 | QPSK | 25 | 0 | 20.41 | 20.34 | 20.27 | | |
| 5 | HQAM | 1 | 0 | 20.42 | 20.33 | 20.25 | 21.6 | 0 |
| 5 | HQAM | 1 | 12 | 20.15 | 20.09 | 20.08 | | |
| 5 | HQAM | 1 | 24 | 20.14 | 20.33 | 20.26 | | |
| 5 | HQAM | 12 | 0 | 20.31 | 20.38 | 20.30 | | |
| 5 | HQAM | 12 | 7 | 20.15 | 20.05 | 20.08 | 21.6 | 0 |
| 5 | HQAM | 12 | 13 | 20.11 | 20.21 | 20.21 | | |
| 5 | HQAM | 25 | 0 | 20.36 | 20.39 | 20.23 | | |
| 5 | HQAM | 1 | 0 | 20.34 | 20.31 | 20.33 | 21.6 | 0 |
| 5 | HQAM | 1 | 12 | 20.12 | 20.12 | 20.06 | | |
| 5 | HQAM | 1 | 24 | 20.09 | 20.21 | 20.27 | | |
| 5 | HQAM | 12 | 0 | 19.76 | 19.86 | 19.87 | 21 | 0.6 |
| 5 | HQAM | 12 | 7 | 19.80 | 19.90 | 19.83 | | |
| 5 | HQAM | 12 | 13 | 19.91 | 19.87 | 19.89 | | |
| 5 | HQAM | 25 | 0 | 19.84 | 19.83 | 19.90 | | |
| 5 | SBSQAM | 1 | 0 | 17.89 | 17.84 | 17.85 | | |
| 5 | SBSQAM | 1 | 12 | 17.81 | 17.84 | 17.79 | 19 | 2.6 |
| 5 | SBSQAM | 1 | 24 | 17.78 | 17.84 | 17.80 | | |
| 5 | SBSQAM | 12 | 0 | 17.83 | 17.88 | 17.81 | | |
| 5 | SBSQAM | 12 | 7 | 17.84 | 17.87 | 17.85 | 19 | 2.6 |
| 5 | SBSQAM | 12 | 13 | 17.85 | 17.81 | 17.79 | | |
| 5 | SBSQAM | 25 | 0 | 17.89 | 17.91 | 17.84 | | |



| GEMMEL AVE 1 | | Rx Average Power (dBm) | | | Tx Channel | | Tx Power (dBm) | | |
|-----------------|-------|------------------------|-------|-------|------------|-------|----------------|-------|-------|
| | 198 | 199 | 201 | 198 | 199 | 201 | 198 | 199 | 201 |
| Frequency (MHz) | 824.2 | 836.4 | 848.6 | 824.2 | 836.4 | 848.6 | 824.2 | 836.4 | 848.6 |
| OPRS 1 Tx (dB) | 31.52 | 31.52 | 31.52 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 |
| OPRS 2 Tx (dB) | 30.02 | 30.02 | 30.02 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 |
| OPRS 3 Tx (dB) | 29.48 | 29.48 | 29.48 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 |
| OPRS 4 Tx (dB) | 27.38 | 27.38 | 27.32 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 |

| Beam | WCDMA 8 AVE 1 | | | WCDMA 8 AVE 2 | | | WCDMA 8 AVE 3 | | |
|-----------------|---------------|-------|-------|---------------|-------|-------|---------------|-------|-------|
| | 1982 | 1990 | 1998 | 1912 | 1915 | 1913 | 4132 | 4182 | 4233 |
| Tx Channel | 1982 | 1990 | 1998 | 1912 | 1915 | 1913 | 4132 | 4182 | 4233 |
| Frequency (MHz) | 932.4 | 938 | 947.2 | 932.4 | 938 | 947.2 | 932.4 | 938 | 947.2 |
| SCPP Rx (dB) | 16.15 | 16.17 | 16.13 | 17.00 | 16.41 | 16.43 | 16.36 | 17.00 | 24.17 |



| GSM 1900 Ant 2 | Total Average Power (dBm) | | | Tune-up Limit (dBm) | Flame-Average Power (dBm) | | | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|--------|---------------------|---------------------------|------------|--------|---------------------|
| | TX Channel | 812 | 845 | | 878 | TX Channel | 812 | |
| Frequency (MHz) | 1990.2 | 1990 | 1990.8 | | 1990.2 | 1990 | 1990.8 | |
| OPRS 1 Tx site | 23.23 | 23.19 | 23.26 | 24.50 | 14.62 | 14.14 | 14.28 | 15.30 |
| OPRS 2 Tx site | 23.81 | 23.14 | 23.52 | 24.35 | 14.61 | 14.14 | 14.62 | 15.30 |
| OPRS 3 Tx site | 20.84 | 20.89 | 20.95 | 21.30 | 14.64 | 14.69 | 14.55 | 15.30 |
| OPRS 4 Tx site | 18.79 | 18.81 | 18.75 | 19.00 | 14.53 | 14.27 | 14.51 | 15.24 |
| OPRS 4 Tx site | 17.24 | 17.28 | 17.27 | 18.30 | 14.24 | 14.28 | 14.27 | 15.30 |

| Band | NOCMA 19 Ant 2 | | | Tune-up Limit (dBm) | NOCMA 19 Ant 2 | | | Tune-up Limit (dBm) |
|-----------------|----------------|-------|-------|---------------------|----------------|------------|-------|---------------------|
| | TX Channel | 9520 | 9500 | | 9538 | TX Channel | 1312 | |
| TX Channel | 9520 | 9500 | 9538 | | 1312 | 1413 | 1513 | |
| Frequency (MHz) | 952.4 | 950.4 | 953.8 | 13.00 | 14.71 | 14.79 | 14.78 | 15.12 |
| SCPP Band 68 | ENC 19 200kps | 12.88 | 12.98 | 12.90 | 13.00 | 14.71 | 14.79 | 14.78 |



| Band | WCDMA II AX 3 | | | Time-to-Lock (s) | WCDMA IV AX 3 | | | Time-to-Lock (s) |
|-----------------|---------------|-------|--------|------------------|---------------|--------|-------|------------------|
| TX Channel | 9452 | 9450 | 9538 | | 9452 | 9453 | 9518 | |
| RX Channel | 9452 | 9450 | 9538 | 9452 | 9453 | 9518 | | |
| Frequency (MHz) | 1852.4 | 1850 | 1857.8 | 1752.8 | 1752.8 | 1762.8 | | |
| SCPF for W | RNC 12 Phases | 18.36 | 18.36 | 17.40 | 18.89 | 18.94 | 18.50 | |



| Band 66 Ant 0 ECI10 | | | | | | | | | |
|---------------------|------------|---------|-----------|---------------------|------------------------|----------------------|--------------------|----------|--|
| ISW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up Inst (dBm) | MPE (dB) | |
| Channel | | | | 130000 | 130000 | 130000 | | | |
| Frequency (MHz) | | | | 1790 | 1745 | 1770 | | | |
| 20 | QPSK | 1 | 0 | 16.14 | 16.19 | 16.17 | | | |
| 20 | QPSK | 1 | -69 | 16.04 | 16.14 | 16.12 | 17.3 | 0 | |
| 20 | QPSK | 1 | 99 | 16.00 | 16.16 | 16.08 | | | |
| 20 | QPSK | 50 | 0 | 16.03 | 16.16 | 16.10 | | | |
| 20 | QPSK | 50 | -24 | 16.11 | 16.11 | 16.10 | 17.3 | 0 | |
| 20 | QPSK | 50 | 50 | 16.03 | 16.07 | 16.13 | | | |
| 20 | QPSK | 100 | 0 | 16.07 | 16.15 | 16.10 | | | |



Band 38 Ant 0 ECI10

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Mode Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|----------------------|----------------------|---------------------|----------|
| Channel | | | | | | | | |
| 37850 | | | | 38000 | 38150 | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 22.12 | 22.13 | 22.14 | | |
| 20 | QPSK | 1 | 48 | 21.95 | 22.07 | 21.97 | 22.8 | 0 |
| 20 | QPSK | 1 | 96 | 22.00 | 22.05 | 22.00 | | |
| 20 | QPSK | 50 | 0 | 22.04 | 22.17 | 22.07 | | |
| 20 | QPSK | 50 | 24 | 22.03 | 22.16 | 22.05 | 22.8 | 0 |
| 20 | QPSK | 50 | 60 | 22.01 | 22.08 | 22.06 | | |
| 20 | QPSK | 100 | 0 | 22.02 | 22.17 | 22.05 | | |

Band 41 Ant 0 ECI10

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 22.06 | 22.13 | 22.13 | 22.15 | 22.23 | | |
| 20 | QPSK | 1 | 48 | 22.14 | 22.05 | 22.17 | 22.09 | 22.12 | 22.8 | 0 |
| 20 | QPSK | 1 | 96 | 22.16 | 22.01 | 22.14 | 22.00 | 22.17 | | |
| 20 | QPSK | 50 | 0 | 22.21 | 22.08 | 22.23 | 22.10 | 22.11 | | |
| 20 | QPSK | 50 | 24 | 22.17 | 22.04 | 22.21 | 22.10 | 22.15 | 22.8 | 0 |
| 20 | QPSK | 50 | 50 | 22.15 | 22.11 | 22.14 | 22.12 | 22.11 | | |
| 20 | QPSK | 100 | 0 | 22.14 | 22.11 | 22.19 | 22.08 | 22.15 | | |

Band 41 HPUE Ant 0 ECI10

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line-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) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 23.43 | 23.46 | 23.50 | 23.45 | 23.48 | | |
| 20 | QPSK | 1 | 48 | 23.37 | 23.39 | 23.42 | 23.43 | 23.42 | 24.4 | 0 |
| 20 | QPSK | 1 | 96 | 23.37 | 23.37 | 23.40 | 23.40 | 23.37 | | |
| 20 | QPSK | 50 | 0 | 23.34 | 23.41 | 23.45 | 23.41 | 23.35 | | |
| 20 | QPSK | 50 | 24 | 23.35 | 23.33 | 23.38 | 23.33 | 23.43 | 24.4 | 0 |
| 20 | QPSK | 50 | 50 | 23.31 | 23.42 | 23.41 | 23.41 | 23.34 | | |
| 20 | QPSK | 100 | 0 | 23.37 | 23.37 | 23.38 | 23.32 | 23.35 | | |



| Band 66 Ant 1 ECI10 | | | | | | | | | |
|---------------------|------------|---------|-----------|--------------------|---------------------|---------------------|---------------------|---------------------------|-------------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power | | Power | | Tune-up freq. (GHz) | MPE (dB) |
| | | | | Low Ch. / Freq. | High Ch. / Freq. | High Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 130000 | 130000 | 130000 | | | |
| Frequency (MHz) | | | | 1750 | 1745 | 1750 | | | |
| 20 | QPSK | 1 | 0 | 16.53 | 16.57 | 16.52 | | | |
| 20 | QPSK | 1 | -69 | 16.56 | 16.43 | 16.41 | 17.8 | | 0 |
| 20 | QPSK | 1 | 99 | 16.46 | 16.47 | 16.37 | | | |
| 20 | QPSK | 50 | 0 | 16.41 | 16.40 | 16.43 | | | |
| 20 | QPSK | 50 | -24 | 16.42 | 16.46 | 16.46 | 17.8 | | 0 |
| 20 | QPSK | 50 | 50 | 16.43 | 16.41 | 16.44 | | | |
| 20 | QPSK | 100 | 0 | 16.38 | 16.46 | 16.39 | | | |



Band 38 Ant 1 ECI10

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Med Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|----------|
| Channel | | | | | | | | |
| Frequency [MHz] | | | | 37850 | 38050 | 38150 | | |
| 20 | QPSK | 1 | 0 | 18.73 | 18.88 | 18.93 | 20.4 | 0 |
| 20 | QPSK | 1 | 49 | 18.69 | 18.82 | 18.72 | | |
| 20 | QPSK | 1 | 99 | 18.65 | 18.85 | 18.75 | | |
| 20 | QPSK | 50 | 0 | 18.75 | 18.77 | 18.83 | | |
| 20 | QPSK | 50 | 24 | 18.72 | 18.89 | 18.68 | 20.4 | 0 |
| 20 | QPSK | 50 | 50 | 18.65 | 18.73 | 18.78 | | |
| 20 | QPSK | 100 | 0 | 18.72 | 18.77 | 18.72 | | |

Band 41 Ant 1 ECI10

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line Middle Ch / Freq | Power Med Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|-----------------------------|---------------------|-----------------------------|----------------------|---------------------|----------|
| Channel | | | | | | | | | | |
| Frequency [MHz] | | | | 39750 | 40185 | 40620 | 41055 | 41490 | | |
| 20 | QPSK | 1 | 0 | 18.74 | 18.85 | 18.93 | 18.85 | 18.86 | 20.4 | 0 |
| 20 | QPSK | 1 | 49 | 18.69 | 18.79 | 18.79 | 18.80 | 18.78 | | |
| 20 | QPSK | 1 | 99 | 18.74 | 18.70 | 18.89 | 18.89 | 18.78 | | |
| 20 | QPSK | 50 | 0 | 18.74 | 18.83 | 18.89 | 18.77 | 18.80 | | |
| 20 | QPSK | 50 | 24 | 18.72 | 18.74 | 18.82 | 18.89 | 18.72 | 20.4 | 0 |
| 20 | QPSK | 50 | 50 | 18.69 | 18.80 | 18.80 | 18.82 | 18.72 | | |
| 20 | QPSK | 100 | 0 | 18.77 | 18.79 | 18.89 | 18.77 | 18.78 | | |

Band 41 HPUE Ant 1 ECI10

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line Middle Ch / Freq | Power Med Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|-----------------------------|---------------------|-----------------------------|----------------------|---------------------|----------|
| Channel | | | | | | | | | | |
| Frequency [MHz] | | | | 39750 | 40185 | 40620 | 41055 | 41490 | | |
| 20 | QPSK | 1 | 0 | 20.02 | 20.05 | 20.02 | 20.02 | 20.04 | 22 | 0 |
| 20 | QPSK | 1 | 49 | 20.04 | 20.02 | 20.00 | 20.01 | 20.05 | | |
| 20 | QPSK | 1 | 99 | 20.03 | 20.05 | 20.03 | 20.03 | 20.02 | | |
| 20 | QPSK | 50 | 0 | 20.01 | 20.00 | 20.05 | 20.02 | 20.02 | | |
| 20 | QPSK | 50 | 24 | 20.03 | 20.00 | 20.02 | 20.02 | 20.01 | 22 | 0 |
| 20 | QPSK | 50 | 50 | 20.02 | 20.03 | 20.02 | 20.01 | 20.02 | | |
| 20 | QPSK | 100 | 0 | 20.01 | 20.03 | 20.04 | 20.03 | 20.02 | | |



Band 2 Ant 2 ECI10

| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MRR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | | | | | |
| | | | | 18700 | 18900 | 19100 | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 12.23 | 12.31 | 12.39 | 13.3 | 0 |
| 20 | QPSK | 1 | 49 | 12.15 | 12.18 | 12.22 | | |
| 20 | QPSK | 1 | 99 | 12.17 | 12.18 | 12.15 | | |
| 20 | QPSK | 50 | 0 | 12.13 | 12.23 | 12.19 | | |
| 20 | QPSK | 50 | 24 | 12.10 | 12.15 | 12.15 | | |
| 20 | QPSK | 50 | 50 | 12.11 | 12.22 | 12.19 | | |
| 20 | QPSK | 100 | 0 | 12.12 | 12.25 | 12.21 | | |

Band 4 Ant 2 ECI10

| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MRR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | | | | | |
| | | | | 20050 | 20175 | 20300 | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 12.49 | 12.61 | 12.43 | 13.8 | 0 |
| 20 | QPSK | 1 | 49 | 12.45 | 12.39 | 12.35 | | |
| 20 | QPSK | 1 | 99 | 12.46 | 12.29 | 12.40 | | |
| 20 | QPSK | 50 | 0 | 12.37 | 12.47 | 12.42 | | |
| 20 | QPSK | 50 | 24 | 12.34 | 12.41 | 12.37 | | |
| 20 | QPSK | 50 | 50 | 12.37 | 12.38 | 12.35 | | |
| 20 | QPSK | 100 | 0 | 12.31 | 12.35 | 12.34 | | |

Band 7 Ant 2 ECI10

| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MRR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | | | | | |
| | | | | 24450 | 24500 | 24550 | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 13.10 | 13.16 | 13.09 | 14.2 | 0 |
| 20 | QPSK | 1 | 49 | 13.10 | 13.13 | 13.09 | | |
| 20 | QPSK | 1 | 99 | 13.05 | 13.05 | 13.07 | | |
| 20 | QPSK | 50 | 0 | 13.08 | 13.11 | 13.05 | | |
| 20 | QPSK | 50 | 24 | 13.02 | 13.09 | 13.05 | | |
| 20 | QPSK | 50 | 50 | 12.98 | 13.08 | 13.03 | | |
| 20 | QPSK | 100 | 0 | 13.03 | 13.09 | 13.03 | | |



| Band 25 Ant 2 ECI10 | | | | | | | | | |
|---------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dBm) | MFR (dB) | |
| Channel | | | | 26140 | 26240 | 26340 | | | |
| Frequency (MHz) | | | | 1860 | 1860 | 1905 | | | |
| 20 | QPSK | 1 | 0 | 12.29 | 12.30 | 12.30 | | | |
| 20 | QPSK | 1 | 48 | 12.24 | 12.25 | 12.26 | 13.3 | 0 | |
| 20 | QPSK | 1 | 99 | 12.26 | 12.24 | 12.21 | | | |
| 20 | QPSK | 50 | 0 | 12.22 | 12.20 | 12.29 | | | |
| 20 | QPSK | 50 | 24 | 12.19 | 12.21 | 12.22 | | | |
| 20 | QPSK | 50 | 50 | 12.26 | 12.20 | 12.23 | 13.3 | 0 | |
| 20 | QPSK | 100 | 0 | 12.21 | 12.22 | 12.27 | | | |

| Band 66 Ant 2 ECI10 | | | | | | | | | |
|---------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Time-up limit (dBm) | MFR (dB) | |
| Channel | | | | 130072 | 130172 | 130272 | | | |
| Frequency (MHz) | | | | 1750 | 1745 | 1770 | | | |
| 20 | QPSK | 1 | 0 | 12.52 | 12.53 | 12.50 | | | |
| 20 | QPSK | 1 | 48 | 12.49 | 12.49 | 12.44 | 13.8 | 0 | |
| 20 | QPSK | 1 | 99 | 12.50 | 12.46 | 12.48 | | | |
| 20 | QPSK | 50 | 0 | 12.43 | 12.52 | 12.45 | | | |
| 20 | QPSK | 50 | 24 | 12.48 | 12.49 | 12.41 | | | |
| 20 | QPSK | 50 | 50 | 12.51 | 12.41 | 12.45 | 13.8 | 0 | |
| 20 | QPSK | 100 | 0 | 12.39 | 12.53 | 12.49 | | | |



Band 38 Ant 2 ECI10

| 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 | | | | | | | | |
| | | | | 37650 | 38050 | 38150 | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 0 | 14.92 | 15.08 | 14.98 | 16.2 | 0 |
| 20 | QPSK | 1 | 49 | 14.98 | 15.02 | 14.86 | | |
| 20 | QPSK | 1 | 99 | 14.92 | 14.91 | 15.05 | | |
| 20 | QPSK | 50 | 0 | 14.99 | 15.05 | 14.95 | | |
| 20 | QPSK | 50 | 24 | 14.98 | 15.01 | 14.87 | 16.2 | 0 |
| 20 | QPSK | 50 | 50 | 14.96 | 14.85 | 14.95 | | |
| 20 | QPSK | 100 | 0 | 14.88 | 15.04 | 14.93 | | |

Band 41 Ant 2 ECI10

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line 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 | 40200 | 41055 | 41490 | | |
| Frequency (MHz) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 15.04 | 15.10 | 15.15 | 15.05 | 15.09 | 16.2 | 0 |
| 20 | QPSK | 1 | 49 | 15.04 | 15.05 | 15.04 | 14.85 | 15.02 | | |
| 20 | QPSK | 1 | 99 | 14.99 | 15.02 | 15.00 | 15.03 | 15.07 | | |
| 20 | QPSK | 50 | 0 | 14.99 | 15.06 | 15.09 | 15.04 | 15.02 | | |
| 20 | QPSK | 50 | 24 | 15.06 | 15.01 | 15.01 | 14.87 | 15.05 | 16.2 | 0 |
| 20 | QPSK | 50 | 50 | 14.92 | 15.03 | 15.01 | 14.82 | 15.01 | | |
| 20 | QPSK | 100 | 0 | 14.90 | 14.95 | 15.05 | 14.98 | 15.00 | | |

Band 41 HPUE Ant 2 ECI10

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Line 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 | 40200 | 41055 | 41490 | | |
| Frequency (MHz) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 15.33 | 15.33 | 15.24 | 15.24 | 15.24 | 17.8 | 0 |
| 20 | QPSK | 1 | 49 | 15.24 | 15.20 | 15.25 | 15.22 | 15.18 | | |
| 20 | QPSK | 1 | 99 | 15.20 | 15.20 | 15.25 | 15.22 | 15.15 | | |
| 20 | QPSK | 50 | 0 | 15.25 | 15.23 | 15.20 | 15.25 | 15.25 | | |
| 20 | QPSK | 50 | 24 | 15.28 | 15.28 | 15.26 | 15.15 | 15.16 | 17.8 | 0 |
| 20 | QPSK | 50 | 50 | 15.20 | 15.25 | 15.25 | 15.21 | 15.24 | | |
| 20 | QPSK | 100 | 0 | 15.20 | 15.21 | 15.28 | 15.14 | 15.20 | | |



Band 2 Ant 3 ECI10

| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MFR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | | | | | |
| Frequency (MHz) | | | | 1870 | 1890 | 1900 | | |
| 20 | QPSK | 1 | 0 | 18.24 | 18.35 | 18.29 | | |
| 20 | QPSK | 1 | 40 | 18.14 | 18.28 | 18.19 | 19.5 | 0 |
| 20 | QPSK | 1 | 99 | 18.19 | 18.39 | 18.19 | | |
| 20 | QPSK | 50 | 0 | 18.23 | 18.27 | 18.30 | | |
| 20 | QPSK | 50 | 24 | 18.26 | 18.21 | 18.23 | 19.5 | 0 |
| 20 | QPSK | 50 | 50 | 18.19 | 18.18 | 18.23 | | |
| 20 | QPSK | 100 | 0 | 18.12 | 18.24 | 18.11 | | |

Band 4 Ant 3 ECI10

| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MFR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | | | | | |
| Frequency (MHz) | | | | 1790 | 1793.5 | 1745 | | |
| 20 | QPSK | 1 | 0 | 19.07 | 19.70 | 19.88 | | |
| 20 | QPSK | 1 | 40 | 19.09 | 19.59 | 19.52 | 21.2 | 0 |
| 20 | QPSK | 1 | 99 | 19.59 | 19.61 | 19.59 | | |
| 20 | QPSK | 50 | 0 | 19.56 | 19.69 | 19.60 | | |
| 20 | QPSK | 50 | 24 | 19.54 | 19.58 | 19.54 | 21.2 | 0 |
| 20 | QPSK | 50 | 50 | 19.56 | 19.63 | 19.60 | | |
| 20 | QPSK | 100 | 0 | 19.58 | 19.67 | 19.57 | | |

Band 7 Ant 3 ECI10

| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MFR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | | | | | |
| Frequency (MHz) | | | | 2095 | 2100 | 2050 | | |
| 20 | QPSK | 1 | 0 | 15.73 | 15.92 | 15.75 | | |
| 20 | QPSK | 1 | 40 | 15.88 | 15.78 | 15.68 | 18.8 | 0 |
| 20 | QPSK | 1 | 99 | 15.71 | 15.88 | 15.70 | | |
| 20 | QPSK | 50 | 0 | 15.69 | 15.76 | 15.69 | | |
| 20 | QPSK | 50 | 24 | 15.87 | 15.79 | 15.71 | 18.8 | 0 |
| 20 | QPSK | 50 | 50 | 15.69 | 15.71 | 15.69 | | |
| 20 | QPSK | 100 | 0 | 15.69 | 15.74 | 15.67 | | |



| Band 25 Ant 3 ECI10 | | | | | | | |
|---------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | MFR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 0 | 18.36 | 18.37 | 18.38 | 19.5 |
| 20 | QPSK | 1 | 49 | 18.28 | 18.30 | 18.34 | |
| 20 | QPSK | 1 | 99 | 18.21 | 18.28 | 18.30 | |
| 20 | QPSK | 50 | 0 | 18.26 | 18.32 | 18.24 | |
| 20 | QPSK | 50 | 24 | 18.30 | 18.29 | 18.25 | |
| 20 | QPSK | 50 | 50 | 18.31 | 18.29 | 18.32 | 19.5 |
| 20 | QPSK | 100 | 0 | 18.21 | 18.32 | 18.24 | |

| Band 66 Ant 3 ECI10 | | | | | | | |
|---------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | MFR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 0 | 19.66 | 19.70 | 19.73 | 21.2 |
| 20 | QPSK | 1 | 49 | 19.52 | 19.73 | 19.58 | |
| 20 | QPSK | 1 | 99 | 19.86 | 19.74 | 19.69 | |
| 20 | QPSK | 50 | 0 | 19.54 | 19.70 | 19.66 | |
| 20 | QPSK | 50 | 24 | 19.65 | 19.67 | 19.65 | |
| 20 | QPSK | 50 | 50 | 19.65 | 19.65 | 19.68 | 21.2 |
| 20 | QPSK | 100 | 0 | 19.59 | 19.64 | 19.63 | |



| Band 38 Ant 3 ECI10 | | | | | | | | | |
|---------------------|------------|---------|-----------|------------------------|---------------------------|------------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Line Ch. / Freq. | Power Midline Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPS (dB) | |
| Channel | | | | 387850 | 389000 | 387150 | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 17.41 | 17.45 | 17.41 | 18.8 | 0 | |
| 20 | QPSK | 1 | 49 | 17.23 | 17.45 | 17.30 | | | |
| 20 | QPSK | 1 | 99 | 17.25 | 17.37 | 17.40 | | | |
| 20 | QPSK | 50 | 0 | 17.34 | 17.47 | 17.38 | | | |
| 20 | QPSK | 50 | 24 | 17.28 | 17.27 | 17.41 | | | |
| 20 | QPSK | 50 | 50 | 17.28 | 17.31 | 17.45 | 18.8 | 0 | |
| 20 | QPSK | 100 | 0 | 17.28 | 17.40 | 17.35 | | | |

| Band 41 Ant 3 ECI10 | | | | | | | | | | |
|---------------------|------------|---------|-----------|-----------------------|-------------------------------|---------------------------|--------------------------------|------------------------|---------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low-Midline Ch. / Freq. | Power Midline Ch. / Freq. | Power High-Midline Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPS (dB) |
| Channel | | | | 387150 | 40185 | 40620 | 41055 | 41490 | | |
| Frequency (MHz) | | | | | | | | | | |
| 20 | QPSK | 1 | 0 | 17.49 | 17.52 | 17.53 | 17.54 | 17.54 | | |
| 20 | QPSK | 1 | 49 | 17.42 | 17.38 | 17.54 | 17.41 | 17.39 | 18.8 | 0 |
| 20 | QPSK | 1 | 99 | 17.41 | 17.40 | 17.47 | 17.41 | 17.39 | | |
| 20 | QPSK | 50 | 0 | 17.49 | 17.35 | 17.52 | 17.47 | 17.43 | | |
| 20 | QPSK | 50 | 24 | 17.45 | 17.38 | 17.41 | 17.51 | 17.53 | 18.8 | 0 |
| 20 | QPSK | 50 | 50 | 17.41 | 17.43 | 17.43 | 17.40 | 17.43 | | |
| 20 | QPSK | 100 | 0 | 17.45 | 17.39 | 17.54 | 17.48 | 17.41 | | |

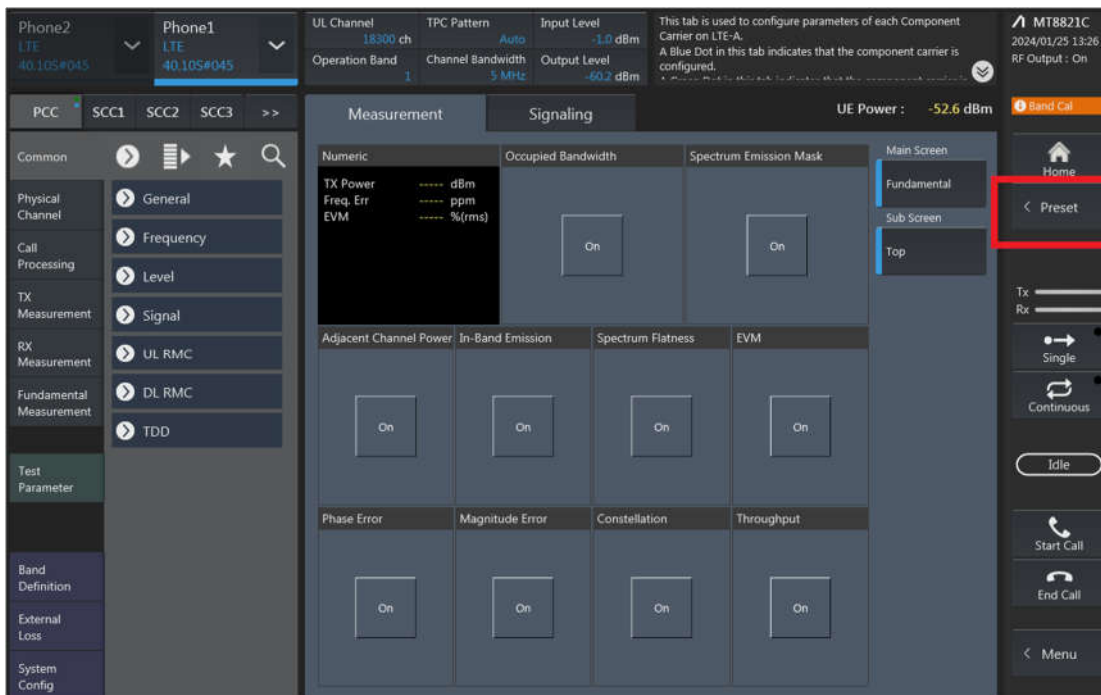


Band 42 FCC Part27Q Ant8 ECH10

| Blk (MHz) | Modulation | RF Spo | RF Other | Power Low Ch / Freq | Power Mdnk Ch / Freq | Power High Ch / Freq | Tune-up Unit (dBm) | MPR (dB) |
|-----------------|------------|--------|----------|---------------------|----------------------|----------------------|--------------------|----------|
| Channel | | | | 42190 | 42990 | 42990 | | |
| Frequency (MHz) | | | | 3440 | 3660 | 3440 | | |
| 20 | QPSK | 1 | 0 | 19.44 | 19.45 | 19.46 | | |
| 20 | QPSK | 1 | 49 | 19.28 | 19.25 | 19.14 | 20.8 | 0 |
| 20 | QPSK | 1 | 99 | 19.28 | 19.30 | 19.29 | | |
| 20 | QPSK | 50 | 0 | 19.31 | 19.42 | 19.34 | | |
| 20 | QPSK | 50 | 24 | 19.18 | 19.21 | 19.12 | 20.8 | 0 |
| 20 | QPSK | 50 | 50 | 19.25 | 19.20 | 19.35 | | |
| 20 | QPSK | 100 | 0 | 19.38 | 19.41 | 19.38 | | |
| 20 | HQAM | 1 | 0 | 19.24 | 19.25 | 19.09 | | |
| 20 | HQAM | 1 | 49 | 19.24 | 19.19 | 19.16 | 20.8 | 0 |
| 20 | HQAM | 1 | 99 | 19.31 | 19.45 | 19.35 | | |
| 20 | HQAM | 50 | 0 | 19.19 | 19.14 | 19.00 | | |
| 20 | HQAM | 50 | 24 | 19.14 | 19.24 | 19.24 | 20.8 | 0 |
| 20 | HQAM | 50 | 50 | 19.39 | 19.40 | 19.32 | | |
| 20 | HQAM | 100 | 0 | 19.25 | 19.26 | 19.41 | | |
| 20 | HQAM | 1 | 0 | 19.42 | 19.35 | 19.41 | | |
| 20 | HQAM | 1 | 49 | 19.21 | 19.20 | 19.03 | 20.8 | 0 |
| 20 | HQAM | 1 | 99 | 19.14 | 19.23 | 19.19 | | |
| 20 | HQAM | 50 | 0 | 19.31 | 19.32 | 19.35 | | |
| 20 | HQAM | 50 | 24 | 19.40 | 19.38 | 19.33 | 20.8 | 0 |
| 20 | HQAM | 50 | 50 | 19.19 | 19.19 | 19.00 | | |
| 20 | HQAM | 100 | 0 | 19.19 | 19.22 | 19.24 | | |
| 20 | SSBGM | 1 | 0 | 17.90 | 17.93 | 17.90 | | |
| 20 | SSBGM | 1 | 49 | 17.91 | 17.93 | 17.85 | 19 | 1.8 |
| 20 | SSBGM | 1 | 99 | 17.81 | 17.92 | 17.88 | | |
| 20 | SSBGM | 50 | 0 | 17.94 | 17.86 | 17.82 | | |
| 20 | SSBGM | 50 | 24 | 17.98 | 17.99 | 17.94 | 19 | 1.8 |
| 20 | SSBGM | 50 | 50 | 17.86 | 17.87 | 17.87 | | |
| 20 | SSBGM | 100 | 0 | 17.93 | 17.98 | 17.94 | | |
| Channel | | | | 42195 | 42990 | 43015 | | |
| Frequency (MHz) | | | | 3467.5 | 3673 | 3467.5 | | |
| 15 | QPSK | 1 | 0 | 19.33 | 19.43 | 19.41 | | |
| 15 | QPSK | 1 | 37 | 19.16 | 19.18 | 19.10 | 20.8 | 0 |
| 15 | QPSK | 1 | 74 | 19.18 | 19.20 | 19.17 | | |
| 15 | QPSK | 36 | 0 | 19.17 | 19.27 | 19.27 | | |
| 15 | QPSK | 36 | 20 | 19.08 | 19.18 | 19.10 | 20.8 | 0 |
| 15 | QPSK | 36 | 39 | 19.18 | 19.28 | 19.07 | | |
| 15 | QPSK | 75 | 0 | 19.30 | 19.33 | 19.28 | | |
| 15 | HQAM | 1 | 0 | 19.21 | 19.15 | 19.02 | | |
| 15 | HQAM | 1 | 37 | 19.13 | 19.28 | 19.09 | 20.8 | 0 |
| 15 | HQAM | 1 | 74 | 19.27 | 19.43 | 19.25 | | |
| 15 | HQAM | 36 | 0 | 19.19 | 19.03 | 19.07 | | |
| 15 | HQAM | 36 | 39 | 19.02 | 19.15 | 19.10 | 20.8 | 0 |
| 15 | HQAM | 36 | 39 | 19.24 | 19.32 | 19.19 | | |
| 15 | HQAM | 75 | 0 | 19.22 | 19.22 | 19.37 | | |
| 15 | HQAM | 1 | 0 | 19.33 | 19.29 | 19.39 | 20.8 | 0 |
| 15 | HQAM | 1 | 37 | 19.18 | 19.11 | 18.98 | | |
| 15 | HQAM | 1 | 74 | 19.11 | 19.14 | 19.19 | | |
| 15 | HQAM | 36 | 3 | 19.20 | 19.28 | 19.30 | 20.8 | 0 |
| 15 | HQAM | 36 | 20 | 19.32 | 19.28 | 19.21 | | |
| 15 | HQAM | 36 | 39 | 19.12 | 19.09 | 19.08 | | |
| 15 | HQAM | 75 | 0 | 19.09 | 19.15 | 19.14 | | |
| 15 | SSBGM | 1 | 0 | 17.89 | 17.87 | 17.83 | 19 | 1.8 |
| 15 | SSBGM | 1 | 37 | 17.88 | 17.84 | 17.78 | | |
| 15 | SSBGM | 1 | 74 | 17.78 | 17.83 | 17.81 | | |
| 15 | SSBGM | 36 | 0 | 17.92 | 17.87 | 17.83 | 19 | 1.8 |
| 15 | SSBGM | 36 | 20 | 17.90 | 17.88 | 17.88 | | |
| 15 | SSBGM | 36 | 39 | 17.83 | 17.86 | 17.83 | | |
| 15 | SSBGM | 75 | 0 | 17.86 | 17.86 | 17.84 | | |
| Channel | | | | 42440 | 42990 | | | |
| Frequency (MHz) | | | | 3465 | 3670 | 3465 | | |
| 10 | QPSK | 1 | 0 | 19.41 | 19.44 | 19.44 | | |
| 10 | QPSK | 1 | 25 | 19.24 | 19.20 | 19.08 | 20.8 | 0 |
| 10 | QPSK | 1 | 49 | 19.20 | 19.18 | 19.22 | | |
| 10 | QPSK | 36 | 0 | 19.24 | 19.35 | 19.31 | | |
| 10 | QPSK | 25 | 12 | 19.06 | 19.16 | 19.06 | 20.8 | 0 |
| 10 | QPSK | 25 | 25 | 19.16 | 19.18 | 19.12 | | |
| 10 | QPSK | 50 | 0 | 19.31 | 19.35 | 19.31 | | |
| 10 | HQAM | 1 | 0 | 19.20 | 19.19 | 19.01 | 20.8 | 0 |
| 10 | HQAM | 1 | 25 | 19.19 | 19.11 | 19.10 | | |
| 10 | HQAM | 1 | 49 | 19.21 | 19.28 | 19.29 | | |
| 10 | HQAM | 25 | 0 | 19.11 | 19.03 | 18.92 | | |
| 10 | HQAM | 25 | 12 | 19.00 | 19.13 | 19.18 | 20.8 | 0 |
| 10 | HQAM | 25 | 25 | 19.30 | 19.35 | 19.23 | | |
| 10 | HQAM | 50 | 0 | 19.20 | 19.31 | 19.32 | | |
| 10 | HQAM | 1 | 0 | 19.38 | 19.33 | 19.28 | | |
| 10 | HQAM | 1 | 25 | 19.17 | 19.17 | 18.98 | 20.8 | 0 |
| 10 | HQAM | 25 | 0 | 19.21 | 19.24 | 19.22 | | |
| 10 | HQAM | 25 | 12 | 19.26 | 19.32 | 19.22 | 20.8 | 0 |
| 10 | HQAM | 25 | 25 | 19.02 | 19.05 | 18.86 | | |
| 10 | HQAM | 50 | 0 | 19.08 | 19.08 | 19.12 | | |
| 10 | SSBGM | 1 | 0 | 17.85 | 17.84 | 17.81 | | |
| 10 | SSBGM | 1 | 25 | 17.88 | 17.81 | 17.74 | 19 | 1.8 |
| 10 | SSBGM | 1 | 49 | 17.71 | 17.82 | 17.83 | | |
| 10 | SSBGM | 25 | 0 | 17.90 | 17.84 | 17.84 | | |
| 10 | SSBGM | 25 | 12 | 17.88 | 17.86 | 17.87 | 19 | 1.8 |
| 10 | SSBGM | 25 | 25 | 17.83 | 17.85 | 17.77 | | |
| 10 | SSBGM | 50 | 0 | 17.91 | 17.90 | 17.88 | | |
| Channel | | | | 42415 | 42990 | 43015 | | |
| Frequency (MHz) | | | | 3462.5 | 3670 | 3462.5 | | |
| 5 | QPSK | 1 | 0 | 19.37 | 19.35 | 19.43 | | |
| 5 | QPSK | 1 | 19 | 19.24 | 19.13 | 19.05 | 20.8 | 0 |
| 5 | QPSK | 1 | 24 | 19.17 | 19.28 | 19.17 | | |
| 5 | QPSK | 12 | 0 | 19.17 | 19.26 | 19.31 | | |
| 5 | QPSK | 12 | 7 | 19.07 | 19.14 | 19.10 | 20.8 | 0 |
| 5 | QPSK | 12 | 13 | 19.16 | 19.11 | 19.04 | | |
| 5 | QPSK | 25 | 0 | 19.28 | 19.20 | 19.26 | | |
| 5 | HQAM | 1 | 0 | 19.16 | 19.11 | 19.00 | | |
| 5 | HQAM | 1 | 12 | 19.11 | 19.08 | 19.08 | 20.8 | 0 |
| 5 | HQAM | 1 | 24 | 19.25 | 19.42 | 19.24 | | |
| 5 | HQAM | 12 | 0 | 19.07 | 19.03 | 18.90 | | |
| 5 | HQAM | 12 | 7 | 19.01 | 19.13 | 19.14 | 20.8 | 0 |
| 5 | HQAM | 12 | 13 | 19.31 | 19.29 | 19.25 | | |
| 5 | HQAM | 25 | 0 | 19.20 | 19.29 | 19.32 | | |
| 5 | HQAM | 1 | 0 | 19.39 | 19.35 | 19.38 | 20.8 | 0 |
| 5 | HQAM | 1 | 12 | 19.11 | 19.10 | 19.06 | | |
| 5 | HQAM | 1 | 24 | 19.04 | 19.19 | 19.16 | | |
| 5 | HQAM | 12 | 0 | 19.26 | 19.26 | 19.24 | | |
| 5 | HQAM | 12 | 7 | 19.36 | 19.35 | 19.31 | 20.8 | 0 |
| 5 | HQAM | 12 | 13 | 19.06 | 19.07 | 18.87 | | |
| 5 | HQAM | 25 | 0 | 19.01 | 19.19 | 19.19 | | |
| 5 | SSBGM | 1 | 0 | 17.89 | 17.84 | 17.85 | | |
| 5 | SSBGM | 1 | 12 | 17.81 | 17.84 | 17.79 | 19 | 1.8 |
| 5 | SSBGM | 1 | 24 | 17.78 | 17.84 | 17.80 | | |
| 5 | SSBGM | 12 | 0 | 17.83 | 17.88 | 17.81 | | |
| 5 | SSBGM | 12 | 7 | 17.94 | 17.97 | 17.85 | 19 | 1.8 |
| 5 | SSBGM | 12 | 13 | 17.85 | 17.91 | 17.79 | | |
| 5 | SSBGM | 25 | 0 | 17.89 | 17.91 | 17.84 | | |

LTE Uplink and Downlink Carrier Aggregation configurations:

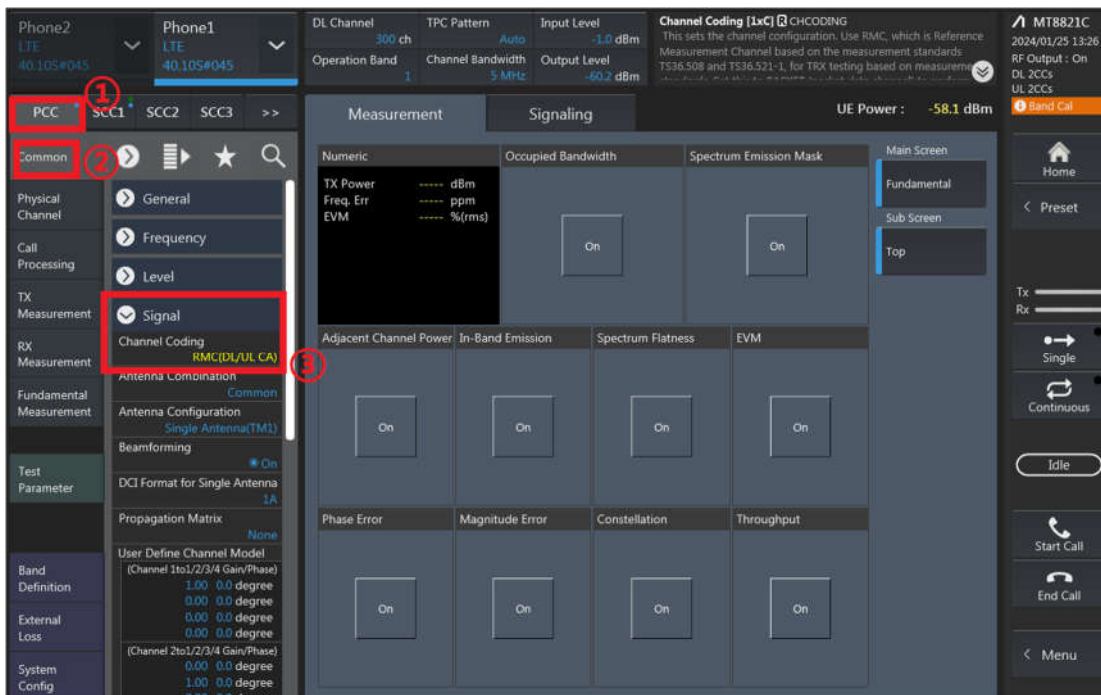
1. Change the Scenario in the Configuration of LTE Signaling and Preset.



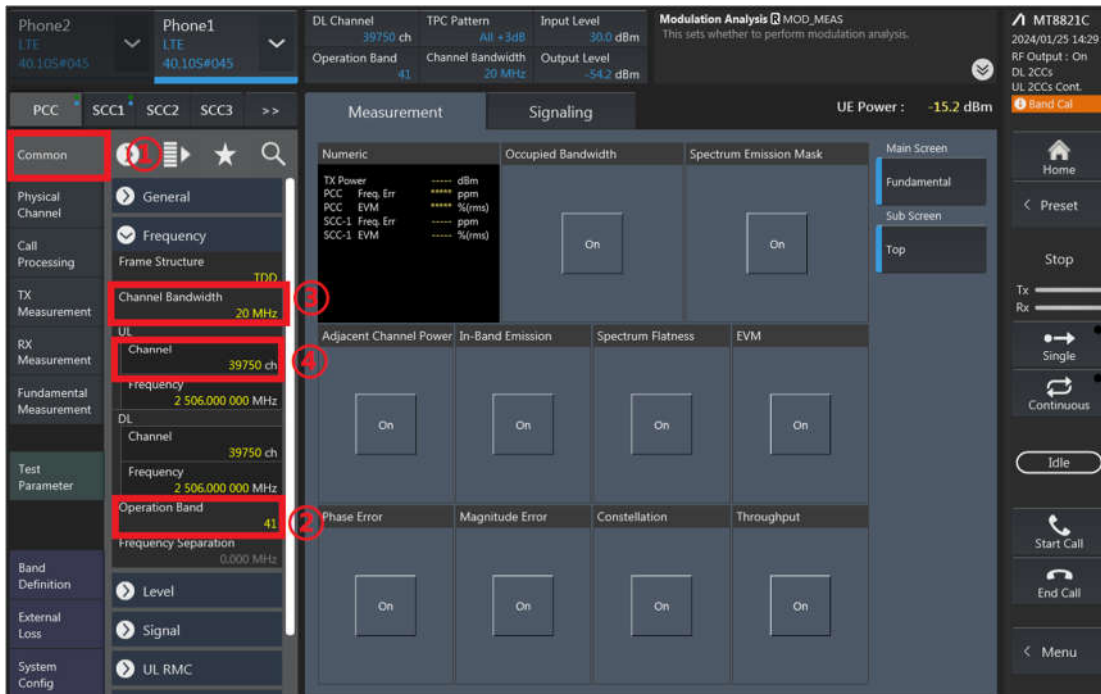
2. If Select "RMC (DL/UL CA)" for Uplink Carrier Aggregation;
If Select "RMC (DL CA)" for Downlink Carrier Aggregation.

For example, Uplink Carrier Aggregation:

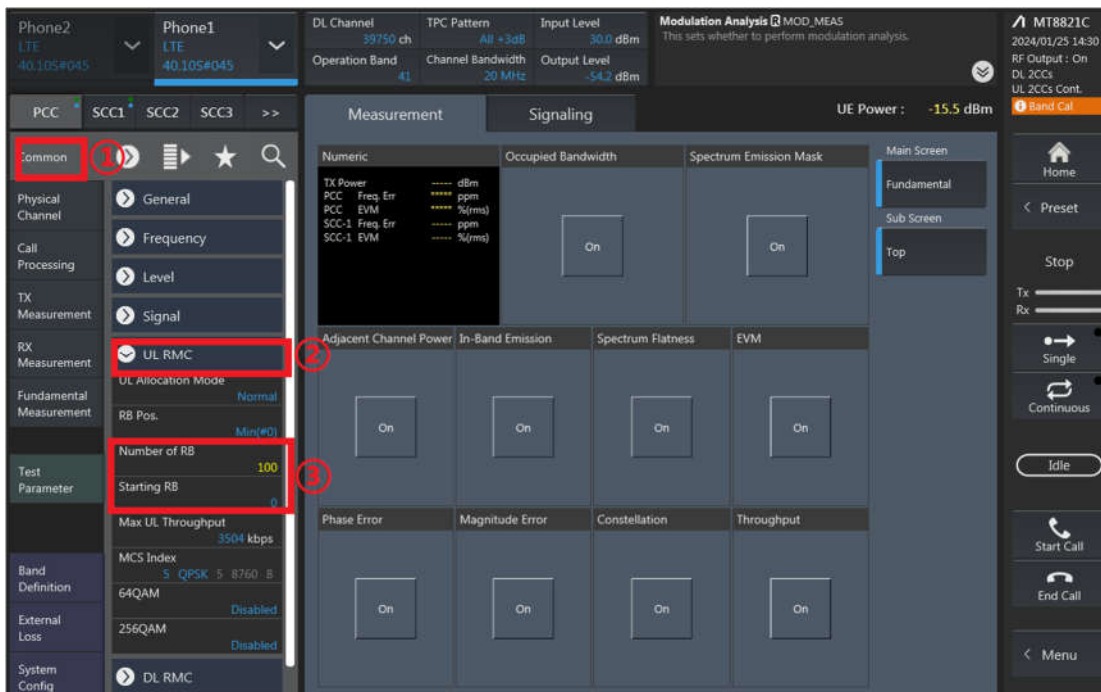
Detailed operation: PCC → Common → Signal → Channel Coding → Select 【RMC (DL/UL CA)】



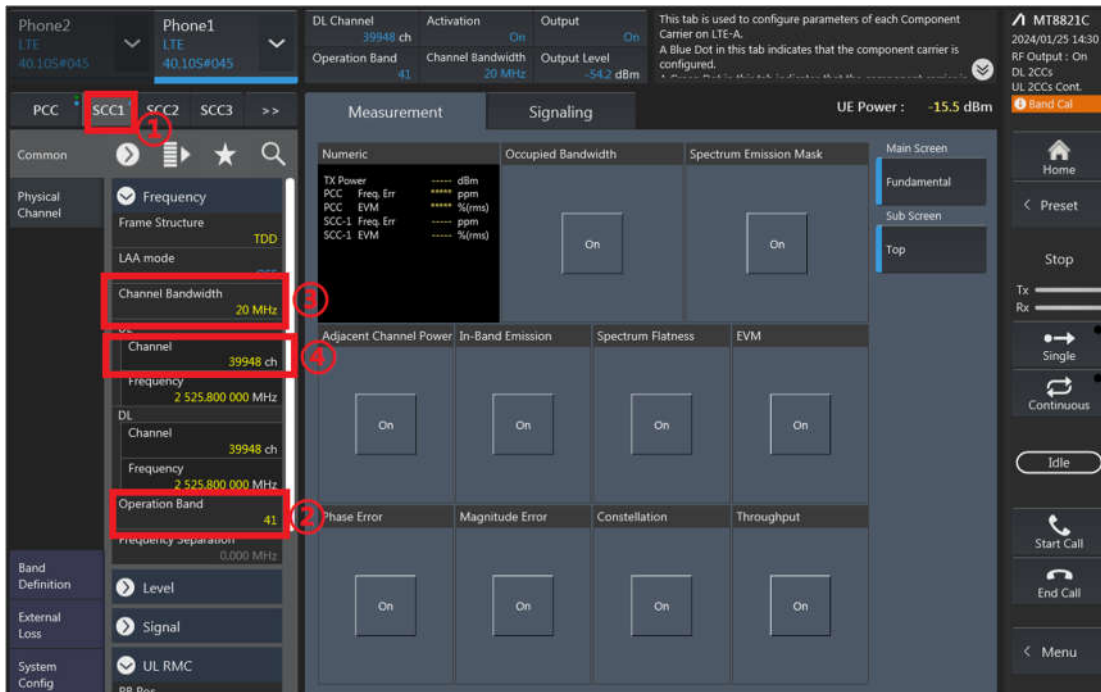
- PCC parameter Settings: on the screen, and then select the PCC tab and Set operating band, BW, channel and RB configurations for PCC;



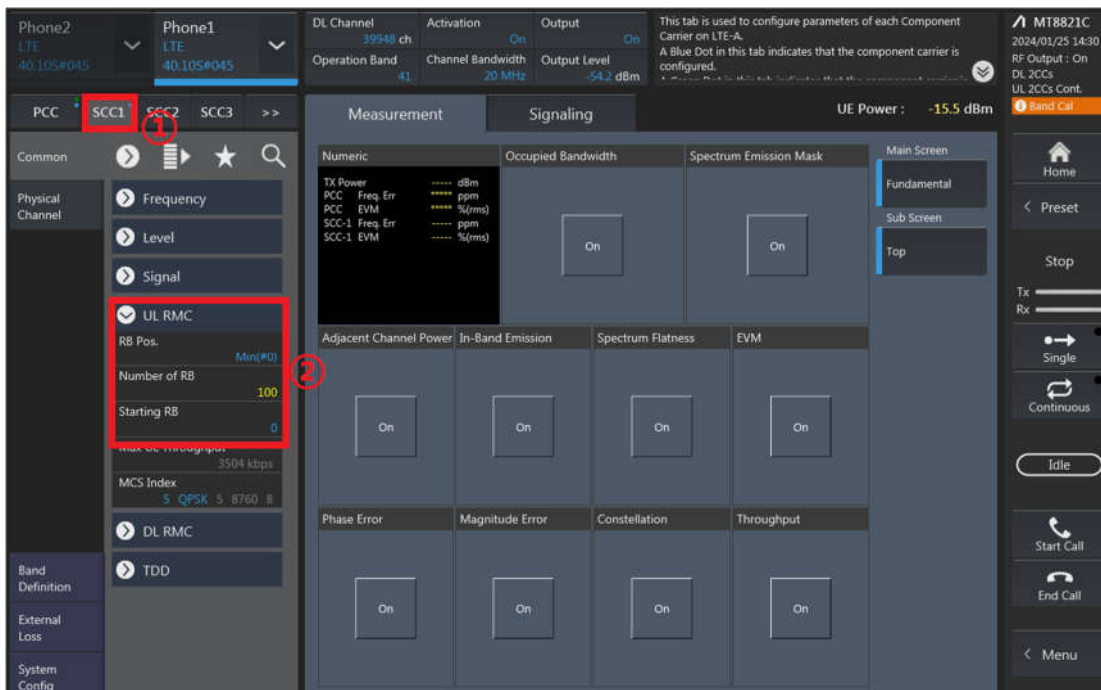
RB configurations (Number of RB / Starting RB) for PCC;



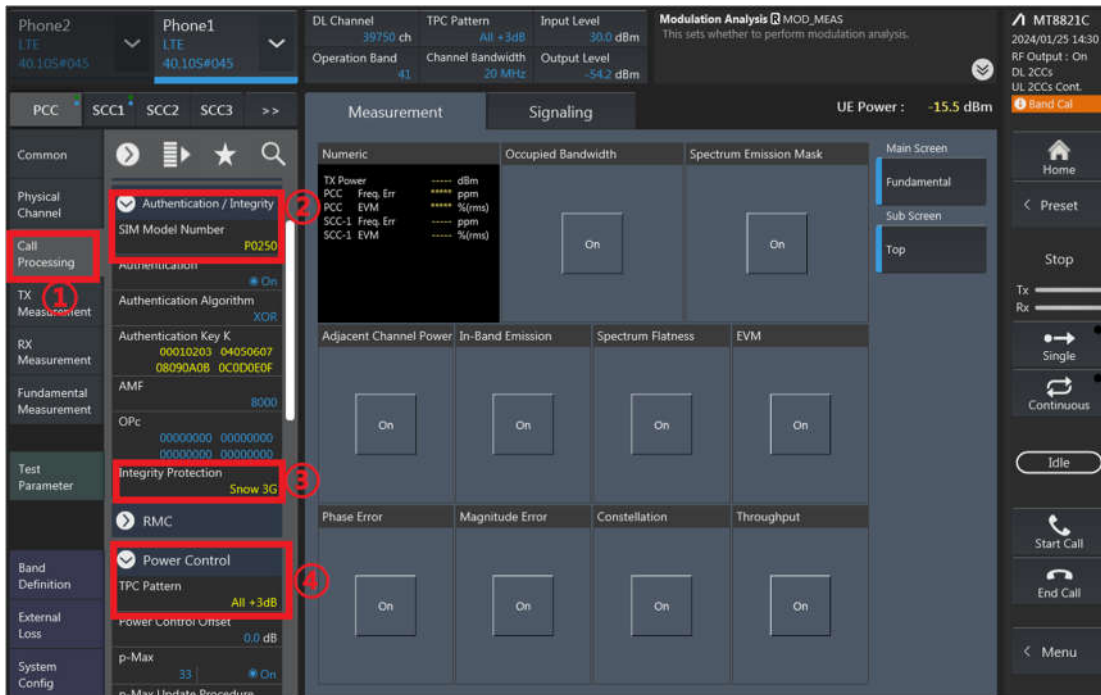
4. SCC parameter Settings: Select the SCC1 tab, Set operating band, BW, channel, and RB configurations for SCC1;



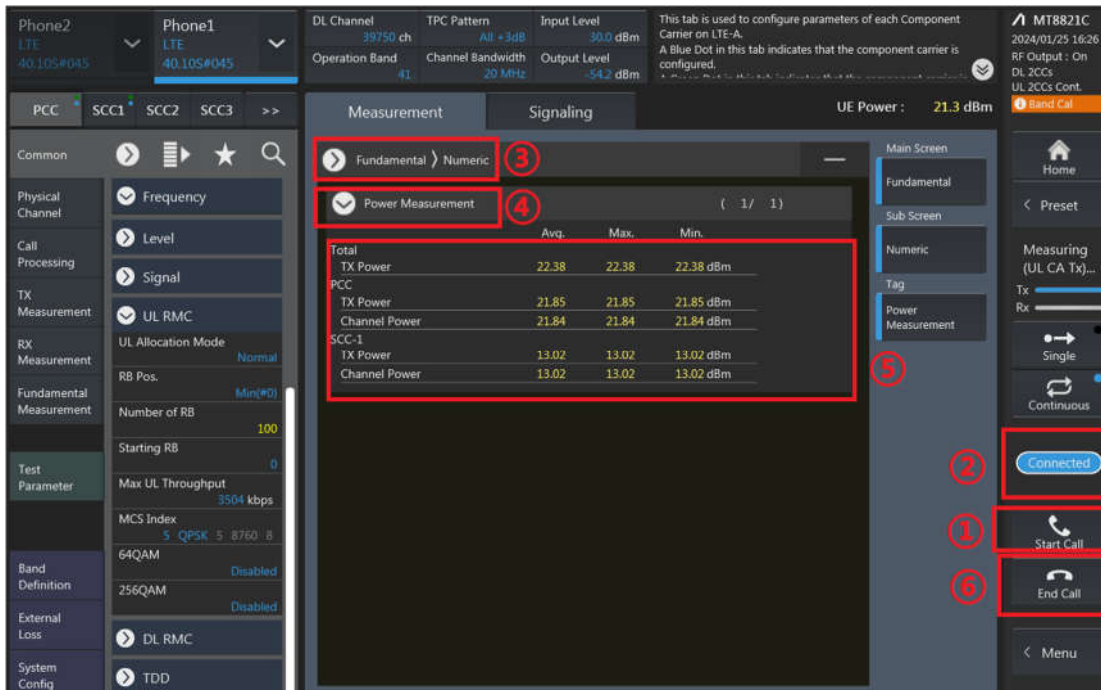
RB configurations (Number of RB / Starting RB) for SCC1;



- Select the PCC tab, then set “SIM Model Number” and select max power;



- Click the “Connect” button at the Right of the screen, if necessary, turn the Airplane mode on/off in the DUT



- The inter-band ULCA test method is similar to intra-band ULCA, and DLCA test method is similar to intra-band ULCA too.



Uplink CA Power

Full&Default& ECI4 Power Mode

| CA_7C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 22.92 | 24.00 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 23.02 | 24.00 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 22.93 | 24.00 |

| CA_38C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 23.3 | 25.00 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 23.35 | 25.00 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 23.24 | 25.00 |

| CA_7C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 22.71 | 24.00 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 22.7 | 24.00 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 22.71 | 24.00 |

| CA_38C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 22.62 | 24.00 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 22.69 | 24.00 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 22.65 | 24.00 |

| CA_7C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 22.59 | 24.00 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 22.59 | 24.00 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 22.48 | 24.00 |

| CA_38C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 23.11 | 25.00 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 23.21 | 25.00 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 23.08 | 25.00 |

| CA_7C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 22.44 | 24.00 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 22.5 | 24.00 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 22.48 | 24.00 |

| CA_38C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 22.7 | 25.00 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 22.78 | 25.00 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 22.69 | 25.00 |

| CA_41C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 23.1 | 25.00 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 23.25 | 25.00 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 23.35 | 25.00 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 23.27 | 25.00 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 23.23 | 25.00 |

| CA_41C HPUE Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 26.07 | 28.00 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 26.20 | 28.00 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 26.32 | 28.00 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 26.1 | 28.00 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 26.16 | 28.00 |

| CA_41C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 22.41 | 24.00 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 22.54 | 24.00 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 22.76 | 24.00 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 22.57 | 24.00 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 22.65 | 24.00 |

| CA_41C HPUE Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 25.5 | 27.00 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 25.51 | 27.00 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 25.64 | 27.00 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 25.54 | 27.00 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 25.43 | 27.00 |

| CA_41C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 23.03 | 25.00 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 23.1 | 25.00 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 23.26 | 25.00 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 23.21 | 25.00 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 23.11 | 25.00 |

| CA_41C HPUE Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 25.91 | 28.00 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 25.92 | 28.00 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 26.03 | 28.00 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 25.81 | 28.00 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 25.97 | 28.00 |

| CA_41C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 22.63 | 25.00 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 22.64 | 25.00 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 22.86 | 25.00 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 22.76 | 25.00 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 22.71 | 25.00 |

| CA_41C HPUE Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 25.79 | 27.00 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 25.77 | 27.00 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 25.87 | 27.00 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 25.69 | 27.00 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 25.65 | 27.00 |

| CA_42C Ant 4 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 22.69 | 24.00 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 22.83 | 24.00 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 22.75 | 24.00 |

| CA_42C Ant 6 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 22.34 | 24.00 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 22.46 | 24.00 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 22.41 | 24.00 |

| CA_42C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 23.49 | 24.00 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 23.61 | 24.00 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 23.42 | 24.00 |

| CA_42C Ant 8 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 22.58 | 24.00 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 22.71 | 24.00 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 22.57 | 24.00 |

Reduced Power Mode for ECI2

| CA_7C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 13.91 | 15.40 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 13.95 | 15.40 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 13.92 | 15.40 |

| CA_38C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 14.46 | 15.50 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 14.51 | 15.50 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 14.4 | 15.50 |

| CA_7C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 15.15 | 16.30 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 15.19 | 16.30 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 15.04 | 16.30 |

| CA_38C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 17.82 | 18.70 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 17.85 | 18.70 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 17.81 | 18.70 |

| CA_7C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 22.59 | 24.00 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 22.59 | 24.00 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 22.48 | 24.00 |

| CA_38C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 23.11 | 25.00 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 23.21 | 25.00 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 23.08 | 25.00 |

| CA_7C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 22.44 | 24.00 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 22.5 | 24.00 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 22.48 | 24.00 |

| CA_38C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 22.7 | 25.00 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 22.78 | 25.00 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 22.69 | 25.00 |

| CA_41C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 14.45 | 15.50 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 14.53 | 15.50 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 14.62 | 15.50 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 14.56 | 15.50 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 14.48 | 15.50 |

| CA_41C HPUE Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 15.47 | 17.10 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 15.53 | 17.10 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 15.65 | 17.10 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 15.41 | 17.10 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 15.57 | 17.10 |

| CA_41C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 17.79 | 18.70 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 17.77 | 18.70 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 17.92 | 18.70 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 17.87 | 18.70 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 17.73 | 18.70 |

| CA_41C HPUE Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 19 | 20.30 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 19.03 | 20.30 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 19.03 | 20.30 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 18.97 | 20.30 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 18.94 | 20.30 |

| CA_41C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 23.03 | 25.00 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 23.1 | 25.00 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 23.26 | 25.00 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 23.21 | 25.00 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 23.11 | 25.00 |

| CA_41C HPUE Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 25.91 | 28.00 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 25.92 | 28.00 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 26.03 | 28.00 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 25.81 | 28.00 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 25.97 | 28.00 |

| CA_41C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 22.63 | 25.00 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 22.64 | 25.00 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 22.86 | 25.00 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 22.76 | 25.00 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 22.71 | 25.00 |

| CA_41C HPUE Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 25.79 | 27.00 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 25.77 | 27.00 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 25.87 | 27.00 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 25.69 | 27.00 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 25.65 | 27.00 |

| CA_42C Ant 4 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 14.15 | 15.10 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 14.2 | 15.10 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 14.04 | 15.10 |

| CA_42C Ant 6 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 15.03 | 16.30 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 15.04 | 16.30 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 14.95 | 16.30 |

| CA_42C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 15.24 | 16.70 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 15.39 | 16.70 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 15.35 | 16.70 |

| CA_42C Ant 8 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 20.95 | 22.20 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 21.06 | 22.20 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 20.99 | 22.20 |

Reduced Power Mode for ECI3

| CA_7C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 16.56 | 18.00 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 16.66 | 18.00 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 16.65 | 18.00 |

| CA_38C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 17.88 | 18.90 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 17.98 | 18.90 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 17.95 | 18.90 |

| CA_7C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 18.24 | 19.60 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 18.25 | 19.60 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 18.16 | 19.60 |

| CA_38C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 20.51 | 21.40 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 20.54 | 21.40 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 20.41 | 21.40 |

| CA_7C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 20.77 | 22.20 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 20.88 | 22.20 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 20.85 | 22.20 |

| CA_38C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 22.04 | 23.20 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 22.14 | 23.20 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 22.11 | 23.20 |

| CA_7C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 20.62 | 22.00 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 20.75 | 22.00 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 20.72 | 22.00 |

| CA_38C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 21.07 | 22.10 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 21.11 | 22.10 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 21.1 | 22.10 |



| CA_41C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 17.57 | 18.90 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 17.62 | 18.90 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 17.71 | 18.90 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 17.58 | 18.90 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 17.68 | 18.90 |

| CA_41C HPUE Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 18.92 | 20.50 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 18.92 | 20.50 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 18.96 | 20.50 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 19.02 | 20.50 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 18.92 | 20.50 |

| CA_41C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 20.26 | 21.40 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 20.18 | 21.40 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 20.34 | 21.40 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 20.31 | 21.40 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 20.24 | 21.40 |

| CA_41C HPUE Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 21.4 | 23.00 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 21.52 | 23.00 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 21.6 | 23.00 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 21.48 | 23.00 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 21.5 | 23.00 |

| CA_41C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 21.63 | 23.20 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 21.61 | 23.20 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 21.76 | 23.20 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 21.59 | 23.20 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 21.53 | 23.20 |

| CA_41C HPUE Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 23.01 | 24.80 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 23.11 | 24.80 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 23.19 | 24.80 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 23.1 | 24.80 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 23.07 | 24.80 |

| CA_41C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 20.98 | 22.10 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 20.97 | 22.10 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 21.1 | 22.10 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 20.95 | 22.10 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 20.95 | 22.10 |

| CA_41C HPUE Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 22.19 | 23.70 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 22.20 | 23.70 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 22.42 | 23.70 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 22.29 | 23.70 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 22.15 | 23.70 |

| CA_42C Ant 4 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 16.31 | 17.80 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 16.48 | 17.80 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 16.44 | 17.80 |

| CA_42C Ant 6 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 22.16 | 23.70 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 22.3 | 23.70 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 22.2 | 23.70 |

| CA_42C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 17.52 | 19.00 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 17.59 | 19.00 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 17.57 | 19.00 |

| CA_42C Ant 8 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 21.26 | 22.80 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 21.32 | 22.80 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 21.23 | 22.80 |



Reduced Power Mode for EC19

| CA_7C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 13.44 | 15.00 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 13.45 | 15.00 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 13.38 | 15.00 |

| CA_38C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 16.21 | 17.30 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 16.29 | 17.30 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 16.2 | 17.30 |

| CA_7C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 13.47 | 15.20 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 13.59 | 15.20 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 13.47 | 15.20 |

| CA_38C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 15.66 | 16.90 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 15.76 | 16.90 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 15.73 | 16.90 |

| CA_7C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 20.16 | 21.80 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 20.28 | 21.80 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 20.27 | 21.80 |

| CA_38C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 21.41 | 22.60 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 21.51 | 22.60 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 21.42 | 22.60 |

| CA_7C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 19.97 | 21.50 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 20.06 | 21.50 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 20.05 | 21.50 |

| CA_38C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 19.37 | 20.90 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 19.4 | 20.90 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 19.36 | 20.90 |



| CA_41C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 16.11 | 17.30 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 16.17 | 17.30 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 16.27 | 17.30 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 16.22 | 17.30 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 16.22 | 17.30 |

| CA_41C HPUE Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 17.36 | 18.90 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 17.5 | 18.90 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 17.59 | 18.90 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 17.56 | 18.90 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 17.54 | 18.90 |

| CA_41C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 15.63 | 16.90 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 15.81 | 16.90 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 15.87 | 16.90 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 15.68 | 16.90 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 15.77 | 16.90 |

| CA_41C HPUE Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 16.96 | 18.50 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 16.83 | 18.50 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 17.01 | 18.50 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 16.93 | 18.50 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 16.84 | 18.50 |

| CA_41C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 21.38 | 22.60 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 21.54 | 22.60 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 21.57 | 22.60 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 21.51 | 22.60 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 21.42 | 22.60 |

| CA_41C HPUE Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 22.7 | 24.20 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 22.65 | 24.20 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 22.83 | 24.20 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 22.81 | 24.20 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 22.7 | 24.20 |

| CA_41C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 19.32 | 20.90 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 19.38 | 20.90 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 19.5 | 20.90 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 19.45 | 20.90 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 19.47 | 20.90 |

| CA_41C HPUE Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 20.66 | 22.50 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 20.62 | 22.50 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 20.76 | 22.50 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 20.58 | 22.50 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 20.62 | 22.50 |

| CA_42C Ant 4 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 13.89 | 15.30 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 13.99 | 15.30 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 13.9 | 15.30 |

| CA_42C Ant 6 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 15.54 | 17.20 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 15.55 | 17.20 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 15.53 | 17.20 |

| CA_42C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 12.86 | 14.30 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 12.94 | 14.30 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 12.84 | 14.30 |

| CA_42C Ant 8 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 20.2 | 21.60 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 20.3 | 21.60 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 20.25 | 21.60 |

Reduced Power Mode for ECI6

| CA_7C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 19.71 | 21.20 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 19.72 | 21.20 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 19.66 | 21.20 |

| CA_38C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 21.22 | 23.00 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 21.25 | 23.00 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 21.18 | 23.00 |

| CA_7C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 18.22 | 19.90 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 18.3 | 19.90 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 18.23 | 19.90 |

| CA_38C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 20.31 | 22.20 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 20.33 | 22.20 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 20.24 | 22.20 |

| CA_7C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 21.88 | 23.70 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 21.91 | 23.70 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 21.84 | 23.70 |

| CA_38C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 23.11 | 25.00 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 23.21 | 25.00 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 23.08 | 25.00 |

| CA_7C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 22.44 | 23.80 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 22.5 | 23.80 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 22.48 | 23.80 |

| CA_38C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 22.7 | 25.00 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 22.78 | 25.00 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 22.69 | 25.00 |

| CA_41C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 21.14 | 23.00 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 21.16 | 23.00 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 21.35 | 23.00 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 21.32 | 23.00 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 21.25 | 23.00 |

| CA_41C HPUE Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 23.53 | 24.60 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 23.45 | 24.60 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 23.64 | 24.60 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 23.5 | 24.60 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 23.43 | 24.60 |

| CA_41C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 20.04 | 22.20 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 20.14 | 22.20 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 20.27 | 22.20 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 20.16 | 22.20 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 20.08 | 22.20 |

| CA_41C HPUE Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 22.33 | 23.80 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 22.45 | 23.80 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 22.49 | 23.80 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 22.39 | 23.80 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 22.37 | 23.80 |

| CA_41C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 23.03 | 25.00 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 23.1 | 25.00 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 23.26 | 25.00 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 23.21 | 25.00 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 23.11 | 25.00 |

| CA_41C HPUE Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 25.91 | 28.00 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 25.92 | 28.00 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 26.03 | 28.00 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 25.81 | 28.00 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 25.97 | 28.00 |

| CA_41C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 22.63 | 25.00 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 22.64 | 25.00 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 22.86 | 25.00 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 22.76 | 25.00 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 22.71 | 25.00 |

| CA_41C HPUE Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 25.79 | 27.00 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 25.77 | 27.00 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 25.87 | 27.00 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 25.69 | 27.00 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 25.65 | 27.00 |

| CA_42C Ant 4 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 17.92 | 19.40 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 17.97 | 19.40 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 17.94 | 19.40 |

| CA_42C Ant 6 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 22.34 | 24.00 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 22.46 | 24.00 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 22.41 | 24.00 |

| CA_42C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 20.53 | 22.10 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 20.65 | 22.10 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 20.49 | 22.10 |

| CA_42C Ant 8 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 22.58 | 24.00 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 22.71 | 24.00 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 22.57 | 24.00 |

Reduced Power Mode for ECI5

| CA_7C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 18.18 | 19.50 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 18.19 | 19.50 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 18.13 | 19.50 |

| CA_38C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 19.52 | 20.80 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 19.58 | 20.80 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 19.5 | 20.80 |

| CA_7C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 19.51 | 21.10 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 19.66 | 21.10 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 19.59 | 21.10 |

| CA_38C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 21.81 | 22.90 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 21.91 | 22.90 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 21.75 | 22.90 |

| CA_7C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 19.83 | 21.20 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 19.92 | 21.20 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 19.87 | 21.20 |

| CA_38C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 22.62 | 23.90 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 22.71 | 23.90 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 22.68 | 23.90 |

| CA_7C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 19.48 | 21.00 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 19.51 | 21.00 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 19.48 | 21.00 |

| CA_38C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 22.09 | 23.60 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 22.13 | 23.60 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 22.04 | 23.60 |

| CA_41C Ant 2 | | | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|--|--|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) | | |
| | | | RB Size | RB offset | RB Size | RB offset | | | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 19.35 | 20.80 | | |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 19.2 | 20.80 | | |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 19.36 | 20.80 | | |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 19.28 | 20.80 | | |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 19.27 | 20.80 | | |

| CA_41C HPUE Ant 2 | | | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|--|--|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) | | |
| | | | RB Size | RB offset | RB Size | RB offset | | | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 20.47 | 22.40 | | |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 20.5 | 22.40 | | |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 20.55 | 22.40 | | |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 20.52 | 22.40 | | |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 20.6 | 22.40 | | |

| CA_41C Ant 3 | | | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|--|--|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) | | |
| | | | RB Size | RB offset | RB Size | RB offset | | | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 21.85 | 22.90 | | |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 21.71 | 22.90 | | |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 21.92 | 22.90 | | |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 21.8 | 22.90 | | |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 21.69 | 22.90 | | |

| CA_41C HPUE Ant 3 | | | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|--|--|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) | | |
| | | | RB Size | RB offset | RB Size | RB offset | | | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 22.95 | 24.50 | | |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 22.89 | 24.50 | | |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 23.05 | 24.50 | | |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 22.94 | 24.50 | | |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 23.04 | 24.50 | | |

| CA_41C Ant 0 | | | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|--|--|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) | | |
| | | | RB Size | RB offset | RB Size | RB offset | | | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 22.28 | 23.90 | | |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 22.3 | 23.90 | | |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 22.46 | 23.90 | | |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 22.39 | 23.90 | | |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 22.41 | 23.90 | | |

| CA_41C HPUE Ant 0 | | | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|--|--|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) | | |
| | | | RB Size | RB offset | RB Size | RB offset | | | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 23.53 | 25.50 | | |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 23.6 | 25.50 | | |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 23.74 | 25.50 | | |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 23.66 | 25.50 | | |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 23.7 | 25.50 | | |

| CA_41C Ant 1 | | | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|--|--|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) | | |
| | | | RB Size | RB offset | RB Size | RB offset | | | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 21.98 | 23.60 | | |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 21.97 | 23.60 | | |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 22.06 | 23.60 | | |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 21.99 | 23.60 | | |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 21.92 | 23.60 | | |

| CA_41C HPUE Ant 1 | | | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|--|--|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) | | |
| | | | RB Size | RB offset | RB Size | RB offset | | | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 23.61 | 25.20 | | |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 23.63 | 25.20 | | |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 23.65 | 25.20 | | |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 23.59 | 25.20 | | |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 23.59 | 25.20 | | |

| CA_42C Ant 4 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 20.48 | 21.80 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 20.57 | 21.80 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 20.49 | 21.80 |

| CA_42C Ant 6 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 19.14 | 20.60 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 19.22 | 20.60 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 19.21 | 20.60 |

| CA_42C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 18.39 | 20.00 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 18.53 | 20.00 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 18.46 | 20.00 |

| CA_42C Ant 8 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 22.58 | 24.00 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 22.71 | 24.00 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 22.57 | 24.00 |

Reduced Power Mode for ECI10

| CA_7C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 13.02 | 14.20 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 13.07 | 14.20 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 12.97 | 14.20 |

| CA_38C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 14.9 | 16.20 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 15.02 | 16.20 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 14.97 | 16.20 |

| CA_7C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 15.67 | 16.80 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 15.72 | 16.80 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 15.67 | 16.80 |

| CA_38C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 17.32 | 18.80 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 17.35 | 18.80 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 17.31 | 18.80 |

| CA_7C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 19.21 | 20.60 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 19.3 | 20.60 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 19.16 | 20.60 |

| CA_38C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 22.05 | 22.80 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 22.06 | 22.80 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 21.99 | 22.80 |

| CA_7C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 20850 | 21048 | QPSK | 1 | 99 | 1 | 0 | 17.55 | 18.70 |
| 21100 | 21298 | QPSK | 1 | 99 | 1 | 0 | 17.63 | 18.70 |
| 21350 | 21152 | QPSK | 1 | 99 | 1 | 0 | 17.58 | 18.70 |

| CA_38C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 37850 | 38048 | QPSK | 1 | 99 | 1 | 0 | 18.57 | 20.40 |
| 37901 | 38099 | QPSK | 1 | 99 | 1 | 0 | 18.61 | 20.40 |
| 38150 | 37952 | QPSK | 1 | 99 | 1 | 0 | 18.58 | 20.40 |

| CA_41C Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 14.85 | 16.20 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 14.95 | 16.20 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 15.05 | 16.20 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 14.98 | 16.20 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 14.82 | 16.20 |

| CA_41C HPUE Ant 2 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 16.06 | 17.80 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 16.01 | 17.80 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 16.09 | 17.80 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 16.02 | 17.80 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 16.01 | 17.80 |

| CA_41C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 17.31 | 18.80 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 17.13 | 18.80 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 17.37 | 18.80 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 17.22 | 18.80 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 17.25 | 18.80 |

| CA_41C HPUE Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 18.47 | 20.40 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 18.43 | 20.40 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 18.58 | 20.40 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 18.52 | 20.40 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 18.47 | 20.40 |

| CA_41C Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 22.06 | 22.80 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 21.94 | 22.80 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 22.16 | 22.80 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 22.05 | 22.80 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 21.93 | 22.80 |

| CA_41C HPUE Ant 0 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 23.16 | 24.40 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 23.07 | 24.40 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 23.2 | 24.40 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 23.17 | 24.40 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 23.15 | 24.40 |

| CA_41C Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 18.6 | 20.40 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 18.58 | 20.40 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 18.66 | 20.40 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 18.59 | 20.40 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 18.56 | 20.40 |

| CA_41C HPUE Ant 1 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 39750 | 39948 | QPSK | 1 | 99 | 1 | 0 | 19.87 | 22.00 |
| 40185 | 40383 | QPSK | 1 | 99 | 1 | 0 | 19.84 | 22.00 |
| 40620 | 40818 | QPSK | 1 | 99 | 1 | 0 | 20.03 | 22.00 |
| 41055 | 41253 | QPSK | 1 | 99 | 1 | 0 | 19.97 | 22.00 |
| 41490 | 41292 | QPSK | 1 | 0 | 1 | 99 | 19.95 | 22.00 |

| CA_42C Ant 4 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 12.9 | 14.40 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 13.05 | 14.40 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 13.01 | 14.40 |

| CA_42C Ant 6 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 16.15 | 17.30 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 16.23 | 17.30 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 16.19 | 17.30 |

| CA_42C Ant 3 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 17.49 | 19.00 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 17.6 | 19.00 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 17.48 | 19.00 |

| CA_42C Ant 8 | | | | | | | | |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) | | | | | | | | |
| PCC Channel | SCC Channel | Modulation | PCC | | SCC | | Measured Power (dBm) | Tune up Power (dBm) |
| | | | RB Size | RB offset | RB Size | RB offset | | |
| 42190 | 42388 | QPSK | 1 | 99 | 1 | 0 | 19.32 | 20.80 |
| 42590 | 42788 | QPSK | 1 | 99 | 1 | 0 | 19.43 | 20.80 |
| 42990 | 42792 | QPSK | 1 | 0 | 1 | 99 | 19.3 | 20.80 |



Full&Default& ECI4 Power Mode_Other PA

| n7 Ant 3 | | | | | | | | |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
| | | | | Low Ch. / Freq. 505000 | Middle Ch. / Freq. 507000 | High Ch. / Freq. 509000 | | |
| Channel | | | | 2325 | 2335 | 2345 | | |
| Frequency (MHz) | | | | | | | | |
| 50 | QPSK | 1 | 1 | 23.52 | 23.60 | 23.68 | | |
| 50 | QPSK | 1 | 135 | 23.49 | 23.47 | 23.39 | 24.0 | 0.0 |
| 50 | QPSK | 1 | 268 | 23.25 | 23.47 | 23.28 | | |
| 50 | QPSK | 135 | 0 | 22.34 | 22.34 | 22.18 | 23.0 | 1.0 |
| 50 | QPSK | 135 | 68 | 23.29 | 23.24 | 23.38 | 24.0 | 0.0 |
| 50 | QPSK | 135 | 135 | 22.44 | 22.43 | 22.18 | | |
| 50 | QPSK | 270 | 0 | 22.30 | 22.48 | 22.35 | 23.0 | 1.0 |



n41 Ant 3

| Band | 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 | | | | 2566.01 | 2592.99 | 2640 | | |
| | Frequency (MHz) | | | | | | | | |
| 100 | QPSK | 1 | 1 | | 23.16 | 23.25 | 23.15 | | |
| 100 | QPSK | 1 | 137 | | 23.15 | 23.10 | 23.09 | 24.0 | 0.0 |
| 100 | QPSK | 1 | 274 | | 23.07 | 23.16 | 23.11 | | |
| 100 | QPSK | 135 | 0 | | 22.17 | 22.31 | 22.14 | 23.0 | 1.0 |
| 100 | QPSK | 135 | 69 | | 23.10 | 23.21 | 23.12 | 24.0 | 0.0 |
| 100 | QPSK | 135 | 138 | | 22.15 | 22.21 | 22.24 | | |
| 100 | QPSK | 270 | 0 | | 22.24 | 22.33 | 22.18 | 23.0 | 1.0 |



Reduced Power Mode for ECI2_Other PA

| n7 Ant 3 | | | | | | | | |
|-----------------|------------|---------|-----------|--------------------|-----------------------|---------------------|---------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 505000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2325 | 2335 | 2345 | | |
| 50 | QPSK | 1 | 1 | 15.50 | 15.51 | 15.50 | | |
| 50 | QPSK | 1 | 135 | 15.42 | 15.44 | 15.48 | 18.4 | 0.0 |
| 50 | QPSK | 1 | 268 | 15.35 | 15.48 | 15.44 | | |
| 50 | QPSK | 135 | 0 | 15.36 | 15.37 | 15.37 | 18.4 | 0.0 |
| 50 | QPSK | 135 | 68 | 15.40 | 15.45 | 15.32 | 18.4 | 0.0 |
| 50 | QPSK | 135 | 135 | 15.30 | 15.31 | 15.29 | | |
| 50 | QPSK | 270 | 0 | 15.35 | 15.45 | 15.30 | 18.4 | 0.0 |



n41 Ant 3

| Band | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Time-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 259200 | 259500 | 259800 | | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | | |
| 100 | QPSK | 1 | 1 | 13.87 | 13.99 | 13.91 | | |
| 100 | QPSK | 1 | 137 | 13.80 | 13.77 | 13.85 | 14.8 | 0.0 |
| 100 | QPSK | 1 | 271 | 13.88 | 13.87 | 13.70 | | |
| 100 | QPSK | 135 | 0 | 13.80 | 13.86 | 13.76 | 14.8 | 0.0 |
| 100 | QPSK | 135 | 69 | 13.88 | 13.95 | 13.85 | 14.8 | 0.0 |
| 100 | QPSK | 135 | 138 | 13.79 | 13.78 | 13.68 | | |
| 100 | QPSK | 270 | 0 | 13.78 | 13.82 | 13.71 | 14.8 | 0.0 |



Reduced Power Mode for ECI3_Other PA

| n7 Ant 3 | | | | | | | | |
|-----------------|------------|---------|-----------|------------------------|---------------------------|-------------------------|---------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
| | | | | Low Ch. / Freq. 505000 | Middle Ch. / Freq. 507000 | High Ch. / Freq. 509000 | | |
| Channel | | | | 2325 | 2335 | 2345 | | |
| Frequency (MHz) | | | | | | | | |
| 50 | QPSK | 1 | 1 | 18.63 | 18.69 | 18.59 | | |
| 50 | QPSK | 1 | 135 | 18.63 | 18.57 | 18.58 | 19.9 | 0.0 |
| 50 | QPSK | 1 | 268 | 18.55 | 18.61 | 18.58 | | |
| 50 | QPSK | 135 | 0 | 18.44 | 18.54 | 18.47 | 19.9 | 0.0 |
| 50 | QPSK | 135 | 68 | 18.58 | 18.62 | 18.38 | 19.9 | 0.0 |
| 50 | QPSK | 135 | 135 | 18.40 | 18.44 | 18.33 | 19.9 | 0.0 |
| 50 | QPSK | 270 | 0 | 18.46 | 18.58 | 18.42 | | |



n41 Ant 3

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Time-up limit (dBm) | MPR (dB) |
|----------|-----------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| | Channel | | | 256000 | 256000 | 256000 | | |
| | Frequency (MHz) | | | 2546.01 | 2592.99 | 2640 | | |
| 100 | QPSK | 1 | 1 | 17.80 | 17.86 | 17.81 | | |
| 100 | QPSK | 1 | 137 | 17.66 | 17.78 | 17.83 | 19.1 | 0.0 |
| 100 | QPSK | 1 | 271 | 17.70 | 17.83 | 17.88 | | |
| 100 | QPSK | 135 | 0 | 17.76 | 17.72 | 17.75 | 19.1 | 0.0 |
| 100 | QPSK | 135 | 69 | 17.77 | 17.79 | 17.77 | 19.1 | 0.0 |
| 100 | QPSK | 135 | 138 | 17.73 | 17.71 | 17.71 | | |
| 100 | QPSK | 270 | 0 | 17.74 | 17.75 | 17.71 | 19.1 | 0.0 |



Reduced Power Mode for EC15_Other PA

| n7 Ant 3 | | | | | | | | |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
| | | | | Low Ch. / Freq. 505000 | Middle Ch. / Freq. 507000 | High Ch. / Freq. 509000 | | |
| Channel | | | | 2325 | 2335 | 2345 | | |
| Frequency (MHz) | | | | | | | | |
| 50 | QPSK | 1 | 1 | 20.34 | 20.41 | 20.38 | | |
| 50 | QPSK | 1 | 135 | 20.28 | 20.37 | 20.31 | 21.7 | 0.0 |
| 50 | QPSK | 1 | 268 | 20.28 | 20.28 | 20.14 | | |
| 50 | QPSK | 135 | 0 | 20.20 | 20.30 | 20.19 | 21.7 | 0.0 |
| 50 | QPSK | 135 | 68 | 20.19 | 20.29 | 20.29 | 21.7 | 0.0 |
| 50 | QPSK | 135 | 135 | 20.11 | 20.27 | 20.25 | | |
| 50 | QPSK | 270 | 0 | 20.19 | 20.29 | 20.16 | 21.7 | 0.0 |



n41 Ant 3

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Time-up limit (dBm) | MPR (dB) |
|----------|-----------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| | Channel | | | 256292 | 256598 | 256900 | | |
| | Frequency (MHz) | | | 2546.01 | 2562.99 | 2640 | | |
| 100 | QPSK | 1 | 1 | 18.36 | 18.45 | 18.38 | | |
| 100 | QPSK | 1 | 137 | 18.25 | 18.23 | 18.09 | 20.0 | 0.0 |
| 100 | QPSK | 1 | 271 | 18.13 | 18.18 | 18.10 | | |
| 100 | QPSK | 135 | 0 | 18.13 | 18.22 | 18.14 | 20.0 | 0.0 |
| 100 | QPSK | 135 | 69 | 18.30 | 18.39 | 18.32 | 20.0 | 0.0 |
| 100 | QPSK | 135 | 138 | 18.18 | 18.19 | 18.10 | | |
| 100 | QPSK | 270 | 0 | 18.28 | 18.30 | 18.23 | 20.0 | 0.0 |



Reduced Power Mode for ECI6_Other PA

| n7 Ant 3 | | | | | | | | |
|-----------------|------------|---------|-----------|------------------------|---------------------------|-------------------------|---------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
| | | | | Low Ch. / Freq. 505000 | Middle Ch. / Freq. 507000 | High Ch. / Freq. 509000 | | |
| Channel | | | | 2325 | 2335 | 2345 | | |
| Frequency (MHz) | | | | | | | | |
| 50 | QPSK | 1 | 1 | 18.08 | 18.17 | 18.10 | | |
| 50 | QPSK | 1 | 135 | 18.09 | 18.04 | 17.89 | 19.3 | 0.0 |
| 50 | QPSK | 1 | 268 | 17.85 | 18.02 | 17.79 | | |
| 50 | QPSK | 135 | 0 | 17.90 | 18.00 | 17.72 | 19.3 | 0.0 |
| 50 | QPSK | 135 | 68 | 17.88 | 18.08 | 17.95 | 19.3 | 0.0 |
| 50 | QPSK | 135 | 135 | 17.94 | 18.00 | 17.88 | 19.3 | 0.0 |
| 50 | QPSK | 270 | 0 | 17.88 | 18.01 | 17.95 | | |



n41 Ant 3

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Time-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 256000 | 256000 | 256000 | | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | | |
| 100 | QPSK | 1 | 1 | 17.39 | 17.41 | 17.39 | | |
| 100 | QPSK | 1 | 137 | 17.31 | 17.23 | 17.25 | 18.4 | 0.0 |
| 100 | QPSK | 1 | 271 | 17.33 | 17.34 | 17.22 | | |
| 100 | QPSK | 135 | 0 | 17.28 | 17.25 | 17.23 | 18.4 | 0.0 |
| 100 | QPSK | 135 | 69 | 17.38 | 17.40 | 17.31 | 18.4 | 0.0 |
| 100 | QPSK | 135 | 138 | 17.29 | 17.28 | 17.31 | | |
| 100 | QPSK | 270 | 0 | 17.37 | 17.38 | 17.33 | 18.4 | 0.0 |



Reduced Power Mode for ECI9_Other PA

| n7 Ant 3 | | | | | | | | |
|-----------------|------------|---------|-----------|--------------------|-----------------------|---------------------|---------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 2325 | 2335 | 2345 | | |
| Frequency (MHz) | | | | | | | | |
| 50 | QPSK | 1 | 1 | 14.55 | 14.59 | 14.57 | | |
| 50 | QPSK | 1 | 135 | 14.52 | 14.53 | 14.43 | 15.4 | 0.0 |
| 50 | QPSK | 1 | 268 | 14.28 | 14.49 | 14.21 | | |
| 50 | QPSK | 135 | 0 | 14.35 | 14.37 | 14.20 | 15.4 | 0.0 |
| 50 | QPSK | 135 | 68 | 14.37 | 14.29 | 14.49 | 15.4 | 0.0 |
| 50 | QPSK | 135 | 135 | 14.45 | 14.49 | 14.21 | | |
| 50 | QPSK | 270 | 0 | 14.28 | 14.54 | 14.40 | 15.4 | 0.0 |



n41 Ant 3

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Time-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 256000 | 256000 | 256000 | | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | | |
| 100 | QPSK | 1 | 1 | 12.75 | 12.70 | 12.58 | | |
| 100 | QPSK | 1 | 137 | 12.88 | 12.70 | 12.45 | 14.1 | 0.0 |
| 100 | QPSK | 1 | 271 | 12.47 | 12.88 | 12.38 | | |
| 100 | QPSK | 135 | 0 | 12.54 | 12.50 | 12.35 | 14.1 | 0.0 |
| 100 | QPSK | 135 | 69 | 12.45 | 12.67 | 12.38 | 14.1 | 0.0 |
| 100 | QPSK | 135 | 138 | 12.43 | 12.44 | 12.46 | | |
| 100 | QPSK | 270 | 0 | 12.31 | 12.66 | 12.31 | 14.1 | 0.0 |



Reduced Power Mode for EC110_Other PA

n7 Ant 3

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 505000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 16.35 | 16.47 | 16.31 | | |
| 50 | QPSK | 1 | 135 | 16.29 | 16.27 | 16.24 | 17.8 | 0.0 |
| 50 | QPSK | 1 | 268 | 16.11 | 16.34 | 16.08 | | |
| 50 | QPSK | 135 | 0 | 16.14 | 16.24 | 15.97 | 17.8 | 0.0 |
| 50 | QPSK | 135 | 68 | 16.16 | 16.38 | 16.24 | 17.8 | 0.0 |
| 50 | QPSK | 135 | 135 | 16.20 | 16.29 | 16.09 | | |
| 50 | QPSK | 270 | 0 | 16.13 | 16.39 | 16.14 | 17.8 | 0.0 |



n41 Ant 3

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Time-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 256000 | 256000 | 256000 | | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | | |
| 100 | QPSK | 1 | 1 | 13.33 | 13.41 | 13.35 | | |
| 100 | QPSK | 1 | 137 | 13.22 | 13.32 | 13.21 | 14.4 | 0.0 |
| 100 | QPSK | 1 | 271 | 13.26 | 13.22 | 13.24 | | |
| 100 | QPSK | 135 | 0 | 13.23 | 13.24 | 13.31 | 14.4 | 0.0 |
| 100 | QPSK | 135 | 69 | 13.38 | 13.39 | 13.32 | 14.4 | 0.0 |
| 100 | QPSK | 135 | 138 | 13.27 | 13.20 | 13.24 | | |
| 100 | QPSK | 270 | 0 | 13.31 | 13.37 | 13.32 | 14.4 | 0.0 |



Full&Default& EC14 Power Mode

n2 Ant 0

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 37400 | 37600 | 37800 | | |
| Frequency (MHz) | | | | 190 | 180 | 180 | | |
| 40 | QPSK | 1 | 1 | 22.90 | 22.91 | 22.77 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 108 | 22.77 | 22.90 | 22.80 | | |
| 40 | QPSK | 1 | 214 | 22.75 | 22.79 | 22.78 | | |
| 40 | QPSK | 108 | 0 | 21.74 | 21.75 | 21.67 | 23.0 | 1.0 |
| 40 | QPSK | 108 | 54 | 22.73 | 22.85 | 22.70 | 24.0 | 0.0 |
| 40 | QPSK | 108 | 108 | 21.82 | 21.87 | 21.87 | | |
| 40 | QPSK | 216 | 0 | 21.71 | 21.77 | 21.72 | 23.0 | 1.0 |

n5 Ant 0

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 166800 | 167300 | 167900 | | |
| Frequency (MHz) | | | | 834 | 836.5 | 832 | | |
| 20 | Pi/2 BPSK | 1 | 1 | 23.15 | 23.22 | 23.10 | 24.0 | 0.0 |
| 20 | Pi/2 BPSK | 1 | 53 | 23.07 | 23.06 | 23.14 | | |
| 20 | Pi/2 BPSK | 1 | 104 | 23.11 | 23.13 | 22.99 | | |
| 20 | Pi/2 BPSK | 50 | 0 | 22.54 | 22.81 | 22.59 | 23.5 | 0.5 |
| 20 | Pi/2 BPSK | 50 | 28 | 23.09 | 23.15 | 23.10 | 24.0 | 0.0 |
| 20 | Pi/2 BPSK | 50 | 56 | 22.87 | 22.53 | 22.41 | | |
| 20 | Pi/2 BPSK | 100 | 0 | 22.58 | 22.66 | 22.38 | 23.5 | 0.5 |
| 20 | QPSK | 1 | 1 | 23.06 | 23.22 | 22.96 | | |
| 20 | QPSK | 1 | 53 | 23.04 | 23.08 | 22.81 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 23.00 | 23.01 | 22.94 | | |
| 20 | QPSK | 50 | 0 | 21.84 | 21.93 | 21.73 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 23.02 | 23.11 | 22.92 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 21.86 | 22.02 | 21.81 | | |
| 20 | QPSK | 100 | 0 | 21.96 | 21.99 | 21.69 | 23.0 | 1.0 |
| 20 | 16QAM | 1 | 1 | 21.88 | 21.89 | 21.81 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.83 | 20.80 | 20.39 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 19.14 | 19.22 | 19.17 | 19.5 | 4.5 |
| Channel | | | | 166800 | 167300 | 168300 | | |
| Frequency (MHz) | | | | 831.5 | 836.5 | 841.5 | | |
| 15 | QPSK | 1 | 1 | 22.68 | 23.02 | 22.86 | 24.0 | 0.0 |
| Channel | | | | 165500 | 167500 | 169500 | | |
| Frequency (MHz) | | | | 829 | 836.5 | 844 | | |
| 10 | QPSK | 1 | 1 | 22.88 | 23.05 | 22.79 | 24.0 | 0.0 |
| Channel | | | | 165000 | 167300 | 169000 | | |
| Frequency (MHz) | | | | 826.5 | 836.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 22.87 | 23.06 | 22.85 | 24.0 | 0.0 |

n7 Ant 0

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 505000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 23.08 | 23.20 | 23.05 | 24.0 | 0.0 |
| 50 | QPSK | 1 | 135 | 23.07 | 23.19 | 22.94 | | |
| 50 | QPSK | 1 | 268 | 23.01 | 23.01 | 22.91 | | |
| 50 | QPSK | 135 | 0 | 21.92 | 21.97 | 21.81 | 23.0 | 1.0 |
| 50 | QPSK | 135 | 68 | 23.00 | 23.10 | 22.93 | 24.0 | 0.0 |
| 50 | QPSK | 135 | 135 | 21.95 | 21.95 | 21.81 | | |
| 50 | QPSK | 270 | 0 | 21.93 | 22.03 | 21.82 | 23.0 | 1.0 |



n26 Ant 0

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------|------------------|----------------|---------------------|----------|
| | | | | Low Ch / Freq | Middle Ch / Freq | High Ch / Freq | | |
| Channel | | | | 164300 | 166300 | 167800 | | |
| Frequency (MHz) | | | | 821.5 | 831.5 | 841.5 | | |
| 20 | PI2 BPSK | 1 | 1 | 23.01 | 23.05 | 23.09 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 53 | 23.11 | 23.11 | 23.11 | | |
| 20 | PI2 BPSK | 1 | 104 | 23.20 | 23.17 | 23.19 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.77 | 22.76 | 22.77 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 23.20 | 23.12 | 23.15 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 22.80 | 22.75 | 22.75 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 100 | 0 | 22.72 | 22.80 | 22.80 | | |
| 20 | QPSK | 1 | 1 | 23.25 | 23.27 | 23.22 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 53 | 23.11 | 23.21 | 23.19 | | |
| 20 | QPSK | 1 | 104 | 23.12 | 23.19 | 23.17 | | |
| 20 | QPSK | 50 | 0 | 22.12 | 22.21 | 22.16 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 23.17 | 23.22 | 23.14 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 22.32 | 22.33 | 22.26 | 23.0 | 1.0 |
| 20 | QPSK | 100 | 0 | 22.29 | 22.33 | 22.29 | | |
| 20 | 16QAM | 1 | 1 | 21.80 | 21.83 | 21.80 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.52 | 20.58 | 20.48 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 19.05 | 19.16 | 19.14 | 19.5 | 4.5 |
| Channel | | | | 164300 | 166300 | 168300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 821.5 | 831.5 | 841.5 | 24.0 | 0.0 |
| 15 | QPSK | 1 | 1 | 23.15 | 23.26 | 23.20 | 24.0 | 0.0 |
| Channel | | | | 165300 | 167300 | 169300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 819 | 831.5 | 844 | 24.0 | 0.0 |
| 10 | QPSK | 1 | 1 | 23.23 | 23.22 | 23.12 | 24.0 | 0.0 |
| Channel | | | | 163300 | 165300 | 169300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 816.5 | 831.5 | 846.5 | 24.0 | 0.0 |
| 5 | QPSK | 1 | 1 | 23.19 | 23.26 | 23.15 | 24.0 | 0.0 |

n66 Ant 0

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------|------------------|----------------|---------------------|----------|
| | | | | Low Ch / Freq | Middle Ch / Freq | High Ch / Freq | | |
| Channel | | | | 346000 | 349000 | 352000 | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1750 | | |
| 40 | QPSK | 1 | 1 | 22.87 | 22.95 | 22.83 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 108 | 22.81 | 22.80 | 22.68 | | |
| 40 | QPSK | 1 | 214 | 22.70 | 22.82 | 22.68 | | |
| 40 | QPSK | 108 | 0 | 21.67 | 21.76 | 21.58 | 23.0 | 1.0 |
| 40 | QPSK | 108 | 54 | 22.68 | 22.89 | 22.62 | 24.0 | 0.0 |
| 40 | QPSK | 108 | 108 | 21.89 | 21.71 | 21.65 | 23.0 | 1.0 |
| 40 | QPSK | 216 | 0 | 21.61 | 21.77 | 21.49 | | |



n38 Ant 0

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------|------------------|----------------|---------------------|----------|
| | | | | Low Ch. Freq. | Middle Ch. Freq. | High Ch. Freq. | | |
| Channel | | | | 518004 | 519000 | 519596 | | |
| Frequency (MHz) | | | | 2590.02 | 2595 | 2599.98 | | |
| 40 | QPSK | 1 | 11 | 23.19 | 23.24 | 23.15 | | |
| 40 | QPSK | 1 | 53 | 23.08 | 23.08 | 22.92 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 104 | 22.85 | 23.06 | 22.94 | | |
| 40 | QPSK | 50 | 0 | 22.00 | 22.05 | 21.78 | 23.0 | 1.0 |
| 40 | QPSK | 50 | 28 | 22.92 | 23.09 | 22.90 | 24.0 | 0.0 |
| 40 | QPSK | 90 | 56 | 21.95 | 21.97 | 21.90 | | |
| 40 | QPSK | 100 | 0 | 21.94 | 22.11 | 21.76 | 23.0 | 1.0 |

n41 Ant 0

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------|------------------|----------------|---------------------|----------|
| | | | | Low Ch. Freq. | Middle Ch. Freq. | High Ch. Freq. | | |
| Channel | | | | 509202 | 518598 | 528000 | | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | | |
| 100 | QPSK | 1 | 1 | 21.61 | 21.71 | 21.84 | | |
| 100 | QPSK | 1 | 137 | 21.64 | 21.65 | 21.61 | 23.0 | 0.0 |
| 100 | QPSK | 1 | 271 | 21.46 | 21.56 | 21.42 | | |
| 100 | QPSK | 135 | 0 | 21.46 | 21.53 | 21.46 | 23.0 | 0.0 |
| 100 | QPSK | 135 | 69 | 21.59 | 21.61 | 21.56 | 23.0 | 0.0 |
| 100 | QPSK | 135 | 138 | 21.37 | 21.45 | 21.33 | | |
| 100 | QPSK | 270 | 0 | 21.45 | 21.60 | 21.55 | 23.0 | 0.0 |



n2 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 | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 1870 | 1880 | 1890 | | |
| 40 | QPSK | 1 | 1 | 23.17 | 23.19 | 23.10 | | |
| 40 | QPSK | 1 | 168 | 22.07 | 22.06 | 22.96 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 214 | 22.93 | 23.08 | 22.95 | | |
| 40 | QPSK | 108 | 0 | 21.95 | 22.02 | 21.83 | 23.0 | 1.0 |
| 40 | QPSK | 108 | 54 | 23.02 | 23.04 | 22.86 | 24.0 | 0.0 |
| 40 | QPSK | 168 | 168 | 21.95 | 21.92 | 21.87 | 23.0 | 1.0 |
| 40 | QPSK | 216 | 0 | 21.89 | 22.08 | 21.73 | | |

n5 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 | | | | 168800 | 167300 | 167800 | | |
| Frequency (MHz) | | | | 834 | 836.5 | 839 | | |
| 20 | PI2 BPSK | 1 | 1 | 22.77 | 22.75 | 22.69 | | |
| 20 | PI2 BPSK | 1 | 50 | 22.80 | 22.83 | 22.74 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 104 | 22.81 | 22.84 | 22.43 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.07 | 22.12 | 22.08 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 22.81 | 22.88 | 22.62 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 21.82 | 22.03 | 21.89 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 100 | 0 | 22.10 | 22.28 | 22.02 | | |
| 20 | QPSK | 1 | 1 | 22.77 | 22.83 | 22.74 | | |
| 20 | QPSK | 1 | 53 | 22.80 | 22.88 | 22.48 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 22.81 | 22.78 | 22.83 | | |
| 20 | QPSK | 50 | 0 | 21.86 | 21.87 | 21.45 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 22.84 | 22.78 | 22.84 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 21.85 | 21.81 | 21.57 | 23.0 | 1.0 |
| 20 | QPSK | 100 | 0 | 21.52 | 21.63 | 21.45 | | |
| 20 | 16QAM | 1 | 1 | 21.48 | 21.55 | 21.47 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.21 | 20.21 | 20.08 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 18.79 | 18.85 | 18.83 | 19.5 | 4.5 |
| Channel | | | | 168300 | 167300 | 168300 | | |
| Frequency (MHz) | | | | 831.5 | 838.5 | 841.5 | | |
| 15 | QPSK | 1 | 1 | 22.64 | 22.85 | 22.64 | 24.0 | 0.0 |
| Channel | | | | 168500 | 167300 | 168800 | | |
| Frequency (MHz) | | | | 836 | 836.5 | 838 | | |
| 10 | QPSK | 1 | 1 | 22.58 | 22.71 | 22.58 | 24.0 | 0.0 |
| Channel | | | | 168300 | 167300 | 168300 | | |
| Frequency (MHz) | | | | 836.5 | 836.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 22.81 | 22.87 | 22.63 | 24.0 | 0.0 |

n7 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 | | | | 558000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 22.87 | 22.86 | 22.78 | | |
| 50 | QPSK | 1 | 135 | 22.74 | 22.68 | 22.58 | 24.0 | 0.0 |
| 50 | QPSK | 1 | 268 | 22.55 | 22.85 | 22.53 | | |
| 50 | QPSK | 135 | 0 | 21.58 | 21.88 | 21.56 | 23.0 | 1.0 |
| 50 | QPSK | 135 | 68 | 22.87 | 22.76 | 22.62 | 24.0 | 0.0 |
| 50 | QPSK | 135 | 135 | 21.67 | 21.83 | 21.61 | 23.0 | 1.0 |
| 50 | QPSK | 270 | 0 | 21.50 | 21.56 | 21.37 | | |



n26 Ant 1

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|--------------------|--------------------|--------------------|---------------------|----------|
| | | | | Ch. / Freq. 164800 | Ch. / Freq. 166300 | Ch. / Freq. 167800 | | |
| Channel | | | | 824 | 831.5 | 839 | | |
| Frequency (MHz) | | | | | | | | |
| 20 | PI2 BPSK | 1 | 1 | 22.71 | 22.77 | 22.69 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 59 | 22.73 | 22.83 | 22.73 | | |
| 20 | PI2 BPSK | 1 | 104 | 22.76 | 22.85 | 22.81 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.36 | 22.41 | 22.32 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 22.80 | 22.85 | 22.83 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 22.32 | 22.41 | 22.31 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 100 | 0 | 22.29 | 22.39 | 22.34 | | |
| 20 | QPSK | 1 | 1 | 22.81 | 22.88 | 22.82 | | |
| 20 | QPSK | 1 | 53 | 22.81 | 22.85 | 22.78 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 22.78 | 22.81 | 22.71 | | |
| 20 | QPSK | 50 | 0 | 21.80 | 21.88 | 21.87 | | |
| 20 | QPSK | 50 | 28 | 22.76 | 22.83 | 22.76 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 56 | 21.89 | 21.95 | 21.90 | 24.0 | 0.0 |
| 20 | QPSK | 100 | 0 | 21.82 | 21.93 | 21.87 | | |
| 20 | QPSK | 1 | 1 | 21.47 | 21.55 | 21.52 | | |
| 20 | 16QAM | 1 | 1 | 20.12 | 20.15 | 20.10 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 18.66 | 18.75 | 18.74 | 19.5 | 4.5 |
| Channel | | | | 164300 | 165300 | 166300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 811.5 | 811.5 | 811.5 | | |
| 15 | QPSK | 1 | 1 | 22.71 | 22.83 | 22.73 | 24.0 | 0.0 |
| Channel | | | | 163800 | 165300 | 166800 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 819 | 831.5 | 844 | | |
| 10 | QPSK | 1 | 1 | 22.72 | 22.83 | 22.76 | 24.0 | 0.0 |
| Channel | | | | 163300 | 165300 | 165300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 816.5 | 831.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 22.78 | 22.87 | 22.78 | 24.0 | 0.0 |

n66 Ant 1

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|--------------------|--------------------|--------------------|---------------------|----------|
| | | | | Ch. / Freq. 346000 | Ch. / Freq. 349000 | Ch. / Freq. 352000 | | |
| Channel | | | | 1730 | 1745 | 1760 | | |
| Frequency (MHz) | | | | | | | | |
| 40 | QPSK | 1 | 1 | 23.30 | 23.38 | 23.25 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 109 | 23.14 | 23.19 | 23.08 | | |
| 40 | QPSK | 1 | 214 | 23.11 | 23.25 | 22.97 | | |
| 40 | QPSK | 108 | 0 | 22.06 | 22.04 | 21.89 | 23.0 | 1.0 |
| 40 | QPSK | 108 | 54 | 23.21 | 23.27 | 23.01 | 24.0 | 0.0 |
| 40 | QPSK | 108 | 108 | 22.18 | 22.12 | 22.01 | 23.0 | 1.0 |
| 40 | QPSK | 216 | 0 | 21.96 | 22.13 | 21.93 | | |



n38 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 | | | | 518004 | 519000 | 519596 | | |
| Frequency (MHz) | | | | 2590.02 | 2595 | 2599.98 | | |
| 40 | QPSK | 1 | 11 | 22.93 | 22.98 | 22.74 | | |
| 40 | QPSK | 1 | 53 | 22.85 | 22.77 | 22.85 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 104 | 22.73 | 22.83 | 22.72 | | |
| 40 | QPSK | 50 | 0 | 21.70 | 21.77 | 21.52 | 23.0 | 1.0 |
| 40 | QPSK | 50 | 28 | 22.79 | 22.88 | 22.64 | 24.0 | 0.0 |
| 40 | QPSK | 50 | 56 | 21.77 | 21.73 | 21.63 | | |
| 40 | QPSK | 100 | 0 | 21.57 | 21.70 | 21.52 | 23.0 | 1.0 |

n41 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 | | | | 509202 | 518598 | 528000 | | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | | |
| 100 | QPSK | 1 | 1 | 21.61 | 21.63 | 21.48 | | |
| 100 | QPSK | 1 | 137 | 21.46 | 21.55 | 21.46 | 23.0 | 0.0 |
| 100 | QPSK | 1 | 271 | 21.33 | 21.51 | 21.33 | | |
| 100 | QPSK | 135 | 0 | 21.36 | 21.45 | 21.38 | 23.0 | 0.0 |
| 100 | QPSK | 135 | 69 | 21.46 | 21.58 | 21.48 | 23.0 | 0.0 |
| 100 | QPSK | 135 | 138 | 21.41 | 21.37 | 21.29 | | |
| 100 | QPSK | 270 | 0 | 21.36 | 21.46 | 21.38 | 23.0 | 0.0 |



n2 Ant 2

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-------------|-------------|-------------|---------------------|----------|
| | | | | Ch. / Freq. | Ch. / Freq. | Ch. / Freq. | | |
| Channel | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 1870 | 1880 | 1890 | | |
| 40 | QPSK | 1 | 1 | 22.92 | 23.03 | 22.84 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 108 | 22.93 | 22.84 | 22.81 | | |
| 40 | QPSK | 1 | 214 | 22.84 | 22.82 | 22.88 | | |
| 40 | QPSK | 108 | 0 | 21.87 | 21.76 | 21.49 | 23.0 | 1.0 |
| 40 | QPSK | 108 | 54 | 22.72 | 22.89 | 22.29 | 24.0 | 0.0 |
| 40 | QPSK | 108 | 108 | 21.71 | 21.71 | 21.84 | 23.0 | 1.0 |
| 40 | QPSK | 216 | 0 | 21.85 | 21.83 | 21.48 | | |

n7 Ant 2

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-------------|-------------|-------------|---------------------|----------|
| | | | | Ch. / Freq. | Ch. / Freq. | Ch. / Freq. | | |
| Channel | | | | 506000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 23.12 | 23.17 | 23.01 | 24.0 | 0.0 |
| 50 | QPSK | 1 | 135 | 23.08 | 22.99 | 22.89 | | |
| 50 | QPSK | 1 | 268 | 22.83 | 22.98 | 22.84 | | |
| 50 | QPSK | 135 | 0 | 21.78 | 21.90 | 21.70 | 23.0 | 1.0 |
| 50 | QPSK | 135 | 68 | 22.98 | 23.06 | 22.85 | 24.0 | 0.0 |
| 50 | QPSK | 135 | 135 | 21.79 | 21.94 | 21.88 | 23.0 | 1.0 |
| 50 | QPSK | 270 | 0 | 21.77 | 21.96 | 21.58 | | |

n66 Ant 2

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-------------|-------------|-------------|---------------------|----------|
| | | | | Ch. / Freq. | Ch. / Freq. | Ch. / Freq. | | |
| Channel | | | | 346000 | 349000 | 352000 | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1760 | | |
| 40 | QPSK | 1 | 1 | 22.93 | 22.97 | 22.84 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 108 | 22.89 | 22.71 | 22.82 | | |
| 40 | QPSK | 1 | 214 | 22.81 | 22.77 | 22.82 | | |
| 40 | QPSK | 108 | 0 | 21.72 | 21.79 | 21.63 | 23.0 | 1.0 |
| 40 | QPSK | 108 | 54 | 22.80 | 22.88 | 22.54 | 24.0 | 0.0 |
| 40 | QPSK | 108 | 108 | 21.81 | 21.72 | 21.53 | 23.0 | 1.0 |
| 40 | QPSK | 216 | 0 | 21.58 | 21.72 | 21.40 | | |



n38 Ant 2

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------|------------------|----------------|---------------------|----------|
| | | | | Low Ch. Freq. | Middle Ch. Freq. | High Ch. Freq. | | |
| Channel | | | | 518004 | 519000 | 519596 | | |
| Frequency (MHz) | | | | 2590.02 | 2595 | 2599.98 | | |
| 40 | QPSK | 1 | 11 | 22.92 | 22.89 | 22.92 | | |
| 40 | QPSK | 1 | 53 | 22.85 | 22.87 | 22.84 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 104 | 22.76 | 22.88 | 22.88 | | |
| 40 | QPSK | 50 | 0 | 21.76 | 21.75 | 21.69 | 23.0 | 1.0 |
| 40 | QPSK | 50 | 28 | 22.76 | 22.88 | 22.71 | 24.0 | 0.0 |
| 40 | QPSK | 50 | 56 | 21.74 | 21.80 | 21.63 | | |
| 40 | QPSK | 100 | 0 | 21.65 | 21.75 | 21.58 | 23.0 | 1.0 |

n41 Ant 2

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------|------------------|----------------|---------------------|----------|
| | | | | Low Ch. Freq. | Middle Ch. Freq. | High Ch. Freq. | | |
| Channel | | | | 509202 | 518598 | 528000 | | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | | |
| 100 | QPSK | 1 | 1 | 23.03 | 23.05 | 23.00 | | |
| 100 | QPSK | 1 | 137 | 22.97 | 22.97 | 22.89 | 24.0 | 0.0 |
| 100 | QPSK | 1 | 271 | 22.89 | 23.03 | 22.93 | | |
| 100 | QPSK | 135 | 0 | 22.82 | 22.93 | 22.84 | 24.0 | 0.0 |
| 100 | QPSK | 135 | 69 | 22.88 | 23.00 | 22.91 | 24.0 | 0.0 |
| 100 | QPSK | 135 | 135 | 22.88 | 22.89 | 22.83 | | |
| 100 | QPSK | 270 | 0 | 22.91 | 22.97 | 22.89 | 24.0 | 0.0 |



n2 Ant 3

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 1870 | 1880 | 1890 | | |
| 40 | QPSK | 1 | 1 | 23.12 | 23.15 | 23.11 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 108 | 23.10 | 23.01 | 22.93 | | |
| 40 | QPSK | 1 | 214 | 22.83 | 22.98 | 22.84 | | |
| 40 | QPSK | 108 | 0 | 21.88 | 21.91 | 21.74 | 23.0 | 1.0 |
| 40 | QPSK | 108 | 54 | 22.97 | 23.12 | 22.92 | 24.0 | 0.0 |
| 40 | QPSK | 108 | 108 | 21.87 | 21.97 | 21.78 | 23.0 | 1.0 |
| 40 | QPSK | 216 | 0 | 21.92 | 22.05 | 21.88 | | |

n7 Ant 3

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 505000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 23.29 | 23.40 | 23.28 | 24.0 | 0.0 |
| 50 | QPSK | 1 | 116 | 23.20 | 23.26 | 23.15 | | |
| 50 | QPSK | 1 | 268 | 23.00 | 23.22 | 22.99 | | |
| 50 | QPSK | 135 | 0 | 22.14 | 22.17 | 21.90 | 23.0 | 1.0 |
| 50 | QPSK | 135 | 68 | 23.12 | 23.31 | 23.20 | 24.0 | 0.0 |
| 50 | QPSK | 135 | 135 | 22.23 | 22.27 | 21.98 | 23.0 | 1.0 |
| 50 | QPSK | 270 | 0 | 22.11 | 22.30 | 22.10 | | |

n66 Ant 3

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 346000 | 349000 | 352000 | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1760 | | |
| 40 | QPSK | 1 | 1 | 23.05 | 23.09 | 22.99 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 108 | 22.99 | 22.93 | 22.81 | | |
| 40 | QPSK | 1 | 214 | 22.75 | 22.97 | 22.86 | | |
| 40 | QPSK | 108 | 0 | 21.87 | 21.89 | 21.70 | 23.0 | 1.0 |
| 40 | QPSK | 108 | 54 | 22.82 | 23.10 | 22.83 | 24.0 | 0.0 |
| 40 | QPSK | 108 | 108 | 21.94 | 21.83 | 21.87 | 23.0 | 1.0 |
| 40 | QPSK | 216 | 0 | 21.79 | 21.95 | 21.68 | | |



| n38 Ant 3 | | | | | | | |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 518004 | Power Middle Ch. / Freq. 519000 | Power High Ch. / Freq. 519996 | MPR (dB) |
| Channel | | | | Power Low | Power Middle | Power High | |
| Frequency (MHz) | | | | 2590.02 | 2595 | 2599.98 | |
| 40 | QPSK | 1 | 1 | 23.28 | 23.42 | 23.23 | |
| 40 | QPSK | 1 | 59 | 23.28 | 23.22 | 23.01 | 24.0 |
| 40 | QPSK | 1 | 104 | 23.10 | 23.31 | 23.12 | |
| 40 | QPSK | 50 | 0 | 22.15 | 22.10 | 22.05 | 23.0 |
| 40 | QPSK | 50 | 28 | 23.18 | 23.31 | 23.07 | 24.0 |
| 40 | QPSK | 50 | 56 | 22.10 | 22.11 | 21.89 | 23.0 |
| 40 | QPSK | 100 | 0 | 22.01 | 22.14 | 21.84 | 1.0 |

| n41 Ant 3 | | | | | | | |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 508202 | Power Middle Ch. / Freq. 518598 | Power High Ch. / Freq. 528000 | MPR (dB) |
| Channel | | | | Power Low | Power Middle | Power High | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | |
| 100 | QPSK | 1 | 1 | 21.05 | 21.10 | 21.09 | |
| 100 | QPSK | 1 | 137 | 20.96 | 21.05 | 20.97 | 22.0 |
| 100 | QPSK | 1 | 271 | 20.89 | 20.96 | 20.95 | |
| 100 | QPSK | 135 | 0 | 20.96 | 21.04 | 20.96 | 22.0 |
| 100 | QPSK | 135 | 69 | 21.01 | 21.12 | 21.05 | 22.0 |
| 100 | QPSK | 135 | 138 | 20.99 | 20.98 | 20.91 | 22.0 |
| 100 | QPSK | 270 | 0 | 20.91 | 21.04 | 20.96 | 0.0 |

| Part270 n77 Ant 3 | | | | | | | |
|-------------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 650000 | Power High Ch. / Freq. 650000 | MPR (dB) |
| Channel | | | | Power Low | Power Middle | Power High | |
| Frequency (MHz) | | | | 3750 | 3840 | 3930 | |
| 100 | PI/2 BPSK | 1 | 1 | 23.66 | 23.62 | 23.49 | |
| 100 | PI/2 BPSK | 1 | 137 | 23.65 | 23.61 | 23.58 | 24.0 |
| 100 | PI/2 BPSK | 1 | 271 | 23.46 | 23.51 | 23.42 | |
| 100 | PI/2 BPSK | 135 | 0 | 23.43 | 23.54 | 23.49 | 24.0 |
| 100 | PI/2 BPSK | 135 | 69 | 23.48 | 23.59 | 23.53 | 24.0 |
| 100 | PI/2 BPSK | 135 | 138 | 23.37 | 23.44 | 23.47 | 24.0 |
| 100 | PI/2 BPSK | 270 | 0 | 23.52 | 23.56 | 23.32 | 24.0 |
| 100 | QPSK | 1 | 1 | 23.68 | 23.74 | 23.69 | |
| 100 | QPSK | 1 | 137 | 23.63 | 23.67 | 23.64 | 24.0 |
| 100 | QPSK | 1 | 271 | 23.44 | 23.62 | 23.58 | |
| 100 | QPSK | 135 | 0 | 23.55 | 23.65 | 23.55 | 24.0 |
| 100 | QPSK | 135 | 69 | 23.63 | 23.71 | 23.58 | 24.0 |
| 100 | QPSK | 135 | 138 | 23.51 | 23.59 | 23.50 | 24.0 |
| 100 | QPSK | 270 | 0 | 23.54 | 23.60 | 23.52 | 24.0 |
| 100 | 16QAM | 1 | 1 | 23.45 | 23.62 | 23.53 | 24.0 |
| 100 | 64QAM | 1 | 1 | 23.44 | 23.48 | 23.44 | 24.0 |
| 100 | 256QAM | 1 | 1 | 22.10 | 22.21 | 22.15 | 22.5 |
| Channel | | | | 649998 | 650000 | 650002 | MPR (dB) |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3935.01 | |
| 90 | QPSK | 1 | 1 | 23.64 | 23.68 | 23.65 | 24.0 |
| Channel | | | | 649334 | 650000 | 650666 | MPR (dB) |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3940.02 | |
| 80 | QPSK | 1 | 1 | 23.69 | 23.72 | 23.65 | 24.0 |
| Channel | | | | 649000 | 650000 | 650000 | MPR (dB) |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | |
| 70 | QPSK | 1 | 1 | 23.62 | 23.65 | 23.66 | 24.0 |
| Channel | | | | 3730.02 | 3840 | 3950.01 | MPR (dB) |
| Frequency (MHz) | | | | 3730.02 | 3840 | 3950.01 | |
| 60 | QPSK | 1 | 1 | 23.64 | 23.65 | 23.68 | 24.0 |
| Channel | | | | 648334 | 650000 | 653666 | MPR (dB) |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3955.02 | |
| 50 | QPSK | 1 | 1 | 23.63 | 23.67 | 23.67 | 24.0 |
| Channel | | | | 648000 | 650000 | 654000 | MPR (dB) |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | |
| 40 | QPSK | 1 | 1 | 23.62 | 23.67 | 23.62 | 24.0 |
| Channel | | | | 647668 | 650000 | 654334 | MPR (dB) |
| Frequency (MHz) | | | | 3715.02 | 3840 | 3965.01 | |
| 30 | QPSK | 1 | 1 | 23.61 | 23.67 | 23.60 | 24.0 |
| Channel | | | | 647334 | 650000 | 654666 | MPR (dB) |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3970.02 | |
| 25 | QPSK | 1 | 1 | 23.61 | 23.66 | 23.65 | 24.0 |
| Channel | | | | 647000 | 650000 | 655000 | MPR (dB) |
| Frequency (MHz) | | | | 647334 | 650000 | 654666 | |
| 20 | QPSK | 1 | 1 | 23.68 | 23.72 | 23.62 | 24.0 |
| Channel | | | | 646668 | 650000 | 654998 | MPR (dB) |
| Frequency (MHz) | | | | 647000 | 650000 | 655000 | |
| 15 | QPSK | 1 | 1 | 23.68 | 23.68 | 23.60 | 24.0 |
| Channel | | | | 646334 | 650000 | 655334 | MPR (dB) |
| Frequency (MHz) | | | | 646668 | 650000 | 655334 | |
| 10 | QPSK | 1 | 1 | 23.62 | 23.63 | 23.66 | 24.0 |



| Part270 n77 HPUE Ant 3 | | | | | | | | | |
|------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|--|
| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. F.Freq. 650000 | Power Middle Ch. F.Freq. 650000 | Power High Ch. F.Freq. 650000 | Tune-up limit (dBm) | MPR (dB) | |
| Channel | | | | 650000 | 3840 | 3900 | | | |
| Frequency (MHz) | | | | 3750 | 3840 | 3900 | | | |
| 100 | PI/2 BPSK | 1 | 1 | 26.47 | 26.57 | 26.47 | | | |
| 100 | PI/2 BPSK | 1 | 137 | 26.39 | 26.41 | 26.41 | 27.5 | 0.0 | |
| 100 | PI/2 BPSK | 1 | 274 | 26.30 | 26.32 | 26.27 | | | |
| 100 | PI/2 BPSK | 135 | 0 | 25.86 | 25.88 | 25.83 | 27.0 | 0.5 | |
| 100 | PI/2 BPSK | 135 | 69 | 26.30 | 26.46 | 26.39 | 27.5 | 0.0 | |
| 100 | PI/2 BPSK | 135 | 138 | 25.81 | 25.78 | 25.72 | | | |
| 100 | PI/2 BPSK | 270 | 0 | 25.89 | 25.96 | 25.78 | 27.0 | 0.5 | |
| 100 | QPSK | 1 | 1 | 26.81 | 26.72 | 26.45 | | | |
| 100 | QPSK | 1 | 137 | 26.47 | 26.49 | 26.40 | 27.5 | 0.0 | |
| 100 | QPSK | 1 | 274 | 26.22 | 26.54 | 26.36 | | | |
| 100 | QPSK | 135 | 0 | 25.31 | 25.46 | 25.21 | 26.5 | 1.0 | |
| 100 | QPSK | 135 | 69 | 26.43 | 26.64 | 26.21 | 27.5 | 0.0 | |
| 100 | QPSK | 135 | 138 | 25.37 | 25.40 | 25.22 | | | |
| 100 | QPSK | 270 | 0 | 25.28 | 25.54 | 25.12 | 26.5 | 1.0 | |
| 100 | 16QAM | 1 | 1 | 25.22 | 25.32 | 25.15 | 26.5 | 1.0 | |
| 100 | 64QAM | 1 | 1 | 23.89 | 23.92 | 23.80 | 25.0 | 2.5 | |
| 100 | 256QAM | 1 | 1 | 21.50 | 21.61 | 21.61 | 23.0 | 4.5 | |
| Channel | | | | 649688 | 650000 | 663334 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3935.01 | | | |
| 90 | QPSK | 1 | 1 | 26.67 | 26.67 | 26.37 | 27.5 | 0.0 | |
| Channel | | | | 649334 | 650000 | 662668 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3940.02 | | | |
| 80 | QPSK | 1 | 1 | 26.53 | 26.71 | 26.35 | 27.5 | 0.0 | |
| Channel | | | | 649000 | 650000 | 663000 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | | | |
| 70 | QPSK | 1 | 1 | 26.59 | 26.62 | 26.41 | 27.5 | 0.0 | |
| Channel | | | | 648668 | 650000 | 663334 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | 3730.02 | 3840 | 3950.01 | | | |
| 60 | QPSK | 1 | 1 | 26.62 | 26.61 | 26.43 | 27.5 | 0.0 | |
| Channel | | | | 648334 | 650000 | 663668 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3955.05 | | | |
| 50 | QPSK | 1 | 1 | 26.54 | 26.67 | 26.43 | 27.5 | 0.0 | |
| Channel | | | | 648000 | 650000 | 664000 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | | | |
| 40 | QPSK | 1 | 1 | 26.59 | 26.54 | 26.44 | 27.5 | 0.0 | |
| Channel | | | | 647668 | 650000 | 664334 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | 3715.02 | 3840 | 3965.01 | | | |
| 30 | QPSK | 1 | 1 | 26.55 | 26.69 | 26.37 | 27.5 | 0.0 | |
| Channel | | | | 647334 | 650000 | 664668 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | 3712.5 | 3840 | 3967.5 | | | |
| 25 | QPSK | 1 | 1 | 26.54 | 26.66 | 26.42 | 27.5 | 0.0 | |
| Channel | | | | 647000 | 650000 | 665000 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3970.02 | | | |
| 20 | QPSK | 1 | 1 | 26.58 | 26.70 | 26.34 | 27.5 | 0.0 | |
| Channel | | | | 646668 | 650000 | 664834 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.51 | | | |
| 15 | QPSK | 1 | 1 | 26.57 | 26.69 | 26.41 | 27.5 | 0.0 | |
| Channel | | | | 646334 | 650000 | 665000 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | | | |
| 10 | QPSK | 1 | 1 | 26.58 | 26.62 | 26.41 | 27.5 | 0.0 | |



| Part270 n78 Ant 3 | | | | | | | |
|-------------------|------------|---------|-----------|-----------------------|---------------------------------|------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. 650000 | Power High Ch. / Freq. | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | | 23.46 | | |
| 100 | PI2 BPSK | 1 | 137 | | 23.50 | | 24.0 |
| 100 | PI2 BPSK | 1 | 271 | | 23.35 | | 24.0 |
| 100 | PI2 BPSK | 135 | 0 | | 23.40 | | 24.0 |
| 100 | PI2 BPSK | 135 | 69 | | 23.55 | | 24.0 |
| 100 | PI2 BPSK | 135 | 138 | | 23.35 | | 24.0 |
| 100 | PI2 BPSK | 270 | 0 | | 23.43 | | 24.0 |
| 100 | QPSK | 1 | 1 | | 23.61 | | |
| 100 | QPSK | 1 | 137 | | 23.56 | | 24.0 |
| 100 | QPSK | 1 | 271 | | 23.46 | | 24.0 |
| 100 | QPSK | 135 | 0 | | 23.51 | | 24.0 |
| 100 | QPSK | 135 | 69 | | 23.53 | | 24.0 |
| 100 | QPSK | 135 | 138 | | 23.47 | | 24.0 |
| 100 | QPSK | 270 | 0 | | 23.55 | | 24.0 |
| 100 | 16QAM | 1 | 1 | | 23.45 | | 24.0 |
| 100 | 64QAM | 1 | 1 | | 23.41 | | 24.0 |
| 100 | 256QAM | 1 | 1 | | 22.20 | | 22.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 23.56 | 23.51 | 23.57 | 24.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 23.53 | 23.54 | 23.58 | 24.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 23.57 | 23.55 | 23.55 | 24.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 23.51 | 23.52 | 23.51 | 24.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 23.58 | 23.58 | 23.60 | 24.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 23.59 | 23.58 | 23.54 | 24.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 23.54 | 23.59 | 23.53 | 24.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 23.52 | 23.58 | 23.51 | 24.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 23.59 | 23.52 | 23.53 | 24.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 23.54 | 23.58 | 23.53 | 24.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 23.52 | 23.56 | 23.60 | 24.0 |

| Part270 n78 HPUE Ant 3 | | | | | | | |
|------------------------|------------|---------|-----------|-----------------------|---------------------------------|------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. 650000 | Power High Ch. / Freq. | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | | 26.43 | | |
| 100 | PI2 BPSK | 1 | 137 | | 26.31 | | 27.5 |
| 100 | PI2 BPSK | 1 | 271 | | 26.22 | | 27.0 |
| 100 | PI2 BPSK | 135 | 0 | | 25.83 | | 27.0 |
| 100 | PI2 BPSK | 135 | 69 | | 26.35 | | 27.5 |
| 100 | PI2 BPSK | 135 | 138 | | 25.74 | | 27.0 |
| 100 | PI2 BPSK | 270 | 0 | | 25.87 | | 27.0 |
| 100 | QPSK | 1 | 1 | | 26.57 | | |
| 100 | QPSK | 1 | 137 | | 26.31 | | 27.5 |
| 100 | QPSK | 1 | 271 | | 26.41 | | 26.5 |
| 100 | QPSK | 135 | 0 | | 25.42 | | 26.5 |
| 100 | QPSK | 135 | 69 | | 26.48 | | 27.5 |
| 100 | QPSK | 135 | 138 | | 25.21 | | 26.5 |
| 100 | QPSK | 270 | 0 | | 25.46 | | 26.5 |
| 100 | 16QAM | 1 | 1 | | 25.19 | | 26.5 |
| 100 | 64QAM | 1 | 1 | | 23.75 | | 25.0 |
| 100 | 256QAM | 1 | 1 | | 21.46 | | 23.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 26.49 | 26.50 | 26.47 | 27.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 26.52 | 26.52 | 26.52 | 27.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 26.52 | 26.51 | 26.43 | 27.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 26.48 | 26.51 | 26.55 | 27.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 26.52 | 26.50 | 26.58 | 27.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 26.52 | 26.44 | 26.53 | 27.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 26.54 | 26.51 | 26.46 | 27.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 26.55 | 26.47 | 26.51 | 27.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 26.50 | 26.54 | 26.55 | 27.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 26.50 | 26.56 | 26.49 | 27.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 26.50 | 26.50 | 26.48 | 27.5 |



| Part270 n77 Ant 4 | | | | | | | |
|-------------------|------------|---------|-----------|----------------------------|-------------------------------|-----------------------------|------------------------------|
| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. Freq. 650000 | Power Middle Ch. Freq. 656000 | Power High Ch. Freq. 662000 | |
| | | | | | | | Tune-up limit (dBm) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | Pl2 BPSK | 1 | 1 | 23.14 | 23.19 | 23.16 | |
| 100 | Pl2 BPSK | 1 | 137 | 23.13 | 23.28 | 23.08 | 24.0 0.0 |
| 100 | Pl2 BPSK | 1 | 271 | 23.08 | 23.08 | 23.01 | |
| 100 | Pl2 BPSK | 135 | 0 | 23.07 | 23.12 | 23.04 | 24.0 0.0 |
| 100 | Pl2 BPSK | 135 | 69 | 23.01 | 23.04 | 22.92 | 24.0 0.0 |
| 100 | Pl2 BPSK | 135 | 138 | 23.08 | 23.08 | 22.96 | |
| 100 | Pl2 BPSK | 270 | 0 | 23.02 | 23.05 | 22.95 | 24.0 0.0 |
| 100 | QPSK | 1 | 1 | 23.21 | 23.32 | 23.27 | |
| 100 | QPSK | 1 | 137 | 23.10 | 23.18 | 23.12 | 24.0 0.0 |
| 100 | QPSK | 1 | 271 | 22.98 | 23.07 | 22.99 | |
| 100 | QPSK | 135 | 0 | 23.08 | 23.12 | 23.05 | 24.0 0.0 |
| 100 | QPSK | 135 | 69 | 23.11 | 23.16 | 23.13 | 24.0 0.0 |
| 100 | QPSK | 135 | 138 | 22.98 | 23.10 | 22.98 | |
| 100 | QPSK | 270 | 0 | 23.07 | 23.10 | 23.02 | 24.0 0.0 |
| 100 | 16QAM | 1 | 1 | 22.92 | 23.11 | 23.00 | 24.0 0.0 |
| 100 | 64QAM | 1 | 1 | 22.88 | 22.96 | 22.94 | 24.0 0.0 |
| 100 | 256QAM | 1 | 1 | 21.73 | 21.81 | 21.83 | 22.5 1.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 23.11 | 23.24 | 23.21 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 3745.01 | 3840 | 3840.02 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 3735 | 3840 | 3945 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 23.13 | 23.28 | 23.26 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 23.18 | 23.27 | 23.20 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 23.14 | 23.24 | 23.20 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 23.18 | 23.28 | 23.20 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 23.17 | 23.27 | 23.21 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 23.11 | 23.23 | 23.20 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 23.15 | 23.22 | 23.18 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 23.16 | 23.21 | 23.23 | 24.0 0.0 |

| Part270 n77 HPUE Ant 4 | | | | | | | |
|------------------------|------------|---------|-----------|----------------------------|-------------------------------|-----------------------------|------------------------------|
| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. Freq. 650000 | Power Middle Ch. Freq. 656000 | Power High Ch. Freq. 662000 | |
| | | | | | | | Tune-up limit (dBm) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | Pl2 BPSK | 1 | 1 | 26.12 | 26.13 | 26.16 | |
| 100 | Pl2 BPSK | 1 | 137 | 25.97 | 25.98 | 26.05 | 27.0 0.0 |
| 100 | Pl2 BPSK | 1 | 271 | 25.93 | 26.05 | 25.94 | |
| 100 | Pl2 BPSK | 135 | 0 | 25.42 | 25.57 | 25.45 | 26.5 0.5 |
| 100 | Pl2 BPSK | 135 | 69 | 26.08 | 26.03 | 25.94 | 27.0 0.0 |
| 100 | Pl2 BPSK | 135 | 138 | 24.88 | 25.81 | 25.46 | |
| 100 | Pl2 BPSK | 270 | 0 | 25.43 | 25.59 | 25.39 | 26.5 0.5 |
| 100 | QPSK | 1 | 1 | 26.23 | 26.37 | 26.18 | |
| 100 | QPSK | 1 | 137 | 26.17 | 26.20 | 25.98 | 27.0 0.0 |
| 100 | QPSK | 1 | 271 | 25.98 | 26.14 | 26.03 | |
| 100 | QPSK | 135 | 0 | 25.92 | 25.95 | 24.92 | 26.0 1.0 |
| 100 | QPSK | 135 | 69 | 25.90 | 26.15 | 26.01 | 27.0 0.0 |
| 100 | QPSK | 135 | 138 | 25.11 | 25.08 | 25.00 | |
| 100 | QPSK | 270 | 0 | 24.88 | 25.15 | 24.86 | 26.0 1.0 |
| 100 | 16QAM | 1 | 1 | 24.94 | 24.97 | 24.88 | 26.0 1.0 |
| 100 | 64QAM | 1 | 1 | 23.58 | 23.63 | 23.51 | 24.5 2.5 |
| 100 | 256QAM | 1 | 1 | 22.23 | 22.26 | 22.31 | 22.5 4.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 26.14 | 26.28 | 26.15 | 27.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 3740.01 | 3840 | 3840.02 | 27.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 26.13 | 26.33 | 26.15 | 27.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 26.17 | 26.29 | 26.08 | 27.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 26.12 | 26.32 | 26.10 | 27.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 23.13 | 26.34 | 26.09 | 27.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 26.20 | 26.29 | 26.12 | 27.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 26.14 | 26.30 | 26.12 | 27.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 26.21 | 26.28 | 26.15 | 27.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 26.18 | 26.28 | 26.14 | 27.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 26.18 | 26.33 | 26.16 | 27.0 0.0 |



| Part270 n78 Ant 4 | | | | | | | |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|-----|
| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 23.23 | 23.23 | | |
| 100 | PI2 BPSK | 1 | 137 | 23.23 | 23.23 | | |
| 100 | PI2 BPSK | 1 | 271 | 23.03 | 23.03 | 24.0 | 0.0 |
| 100 | PI2 BPSK | 135 | 0 | 23.07 | 23.07 | 24.0 | 0.0 |
| 100 | PI2 BPSK | 135 | 69 | 23.08 | 23.08 | 24.0 | 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 23.07 | 23.07 | 24.0 | 0.0 |
| 100 | PI2 BPSK | 270 | 0 | 23.09 | 23.09 | 24.0 | 0.0 |
| 100 | QPSK | 1 | 1 | 23.27 | 23.27 | | |
| 100 | QPSK | 1 | 137 | 23.15 | 23.15 | 24.0 | 0.0 |
| 100 | QPSK | 1 | 271 | 23.14 | 23.14 | | |
| 100 | QPSK | 135 | 0 | 23.15 | 23.15 | 24.0 | 0.0 |
| 100 | QPSK | 135 | 69 | 23.22 | 23.22 | 24.0 | 0.0 |
| 100 | QPSK | 135 | 138 | 23.05 | 23.05 | 24.0 | 0.0 |
| 100 | QPSK | 270 | 0 | 23.11 | 23.11 | 24.0 | 0.0 |
| 100 | 16QAM | 1 | 1 | 23.11 | 23.11 | 24.0 | 0.0 |
| 100 | 64QAM | 1 | 1 | 23.02 | 23.02 | 24.0 | 0.0 |
| 100 | 256QAM | 1 | 1 | 21.77 | 21.77 | 22.5 | 1.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 649688 | 650000 | 650314 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 3745.02 | 3750 | 3755.01 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 649334 | 650000 | 650668 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 3740.01 | 3750 | 3760.02 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 649000 | 650000 | 651000 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 3735 | 3750 | 3765 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 23.23 | 23.25 | 23.26 | 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 649505 | 650000 | 650505 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 3730.02 | 3750 | 3770.01 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 23.17 | 23.19 | 23.20 | 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 648334 | 650000 | 651668 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 3725.01 | 3750 | 3755.02 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 23.17 | 23.25 | 23.17 | 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 648000 | 650000 | 652000 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 3720 | 3750 | 3780 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 23.19 | 23.25 | 23.22 | 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 647668 | 650000 | 652334 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 3715.02 | 3750 | 3765.01 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 23.19 | 23.19 | 23.22 | 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 647334 | 650000 | 652668 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 23.17 | 23.21 | 23.24 | 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 647168 | 650000 | 652834 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 3707.52 | 3750 | 3762.51 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 23.22 | 23.19 | 23.22 | 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 3705 | 3750 | 3795 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 23.18 | 23.19 | 23.18 | 0.0 |

| Part270 n78 HPUE Ant 4 | | | | | | | |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|-----|
| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 26.26 | 26.26 | | |
| 100 | PI2 BPSK | 1 | 137 | 26.17 | 26.17 | 27.0 | 0.0 |
| 100 | PI2 BPSK | 1 | 271 | 26.03 | 26.03 | 27.0 | 0.0 |
| 100 | PI2 BPSK | 135 | 0 | 26.07 | 26.07 | 26.5 | 0.5 |
| 100 | PI2 BPSK | 135 | 69 | 26.11 | 26.11 | 27.0 | 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 26.14 | 26.14 | 26.5 | 0.5 |
| 100 | PI2 BPSK | 270 | 0 | 25.84 | 25.84 | 26.5 | 0.5 |
| 100 | QPSK | 1 | 1 | 26.36 | 26.36 | | |
| 100 | QPSK | 1 | 137 | 26.21 | 26.21 | 27.0 | 0.0 |
| 100 | QPSK | 1 | 271 | 26.27 | 26.27 | | |
| 100 | QPSK | 135 | 0 | 26.20 | 26.20 | 26.0 | 1.0 |
| 100 | QPSK | 135 | 69 | 26.26 | 26.26 | 27.0 | 0.0 |
| 100 | QPSK | 135 | 138 | 25.17 | 25.17 | 26.0 | 1.0 |
| 100 | QPSK | 270 | 0 | 25.21 | 25.21 | 26.0 | 1.0 |
| 100 | 16QAM | 1 | 1 | 25.02 | 25.02 | 26.0 | 1.0 |
| 100 | 64QAM | 1 | 1 | 23.58 | 23.58 | 24.5 | 2.5 |
| 100 | 256QAM | 1 | 1 | 21.98 | 21.98 | 22.5 | 4.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 649688 | 650000 | 650314 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 3745.02 | 3750 | 3755.01 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 649334 | 650000 | 650668 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 3740.01 | 3750 | 3760.02 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 649000 | 650000 | 651000 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 3735 | 3750 | 3765 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 26.26 | 26.29 | 26.32 | 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 649505 | 650000 | 651505 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 3730.02 | 3750 | 3770.01 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 26.32 | 26.25 | 26.35 | 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 648334 | 650000 | 651668 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 3725.01 | 3750 | 3755.02 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 26.29 | 26.30 | 26.25 | 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 647668 | 650000 | 652334 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 3715.02 | 3750 | 3765.01 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 26.30 | 26.25 | 26.31 | 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 647334 | 650000 | 652668 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 3710.01 | 3750 | 3760.02 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 26.33 | 26.29 | 26.29 | 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 647168 | 650000 | 652834 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 3707.52 | 3750 | 3762.51 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 23.33 | 23.29 | 23.29 | 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 3705 | 3750 | 3795 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 26.31 | 26.30 | 26.25 | 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 26.31 | 26.28 | 26.34 | 0.0 |



| Part270 n77 Ant 6 | | | | | | | | |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|
| BW [MHz] | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
| | | | | Low Ch. Freq. 650000 | Middle Ch. Freq. 656000 | High Ch. Freq. 662000 | | |
| Channel | | | | 3750 | 3840 | 3930 | | |
| Frequency (MHz) | | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 23.05 | 23.18 | 23.15 | 24.0 | 0.0 |
| 100 | PI2 BPSK | 1 | 137 | 23.18 | 23.11 | 23.08 | | |
| 100 | PI2 BPSK | 1 | 271 | 23.03 | 23.12 | 23.07 | | |
| 100 | PI2 BPSK | 135 | 0 | 22.63 | 22.70 | 22.69 | 23.5 | 0.5 |
| 100 | PI2 BPSK | 135 | 69 | 23.15 | 23.18 | 23.15 | 24.0 | 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 22.69 | 22.83 | 22.73 | | |
| 100 | PI2 BPSK | 270 | 0 | 22.69 | 22.74 | 22.71 | 23.5 | 0.5 |
| 100 | QPSK | 1 | 1 | 23.14 | 23.19 | 23.12 | | |
| 100 | QPSK | 1 | 137 | 23.09 | 23.16 | 23.11 | 24.0 | 0.0 |
| 100 | QPSK | 1 | 271 | 23.06 | 23.11 | 23.13 | | |
| 100 | QPSK | 135 | 0 | 22.15 | 22.27 | 22.18 | 23.0 | 1.0 |
| 100 | QPSK | 135 | 69 | 23.07 | 23.15 | 23.14 | 24.0 | 0.0 |
| 100 | QPSK | 135 | 138 | 22.20 | 22.28 | 22.19 | 23.0 | 1.0 |
| 100 | QPSK | 270 | 0 | 22.16 | 22.20 | 22.16 | 23.0 | 1.0 |
| 100 | 16QAM | 1 | 1 | 22.15 | 22.19 | 22.24 | 23.0 | 1.0 |
| 100 | 64QAM | 1 | 1 | 20.68 | 20.74 | 20.73 | 21.5 | 2.5 |
| 100 | 256QAM | 1 | 1 | 18.65 | 18.67 | 18.69 | 19.5 | 4.5 |
| Channel | | | | 649334 | 656000 | 662668 | | |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3935.01 | | |
| 90 | QPSK | 1 | 1 | 23.10 | 23.10 | 23.02 | 24.0 | 0.0 |
| Channel | | | | 649334 | 656000 | 662668 | | |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3940.02 | | |
| 80 | QPSK | 1 | 1 | 23.09 | 23.17 | 23.01 | 24.0 | 0.0 |
| Channel | | | | 649300 | 656000 | 663000 | | |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | | |
| 70 | QPSK | 1 | 1 | 23.11 | 23.03 | 23.11 | 24.0 | 0.0 |
| Channel | | | | 3730.02 | 3840 | 3950.01 | | |
| Frequency (MHz) | | | | | | | | |
| 60 | QPSK | 1 | 1 | 23.08 | 23.18 | 23.06 | 24.0 | 0.0 |
| Channel | | | | 649334 | 656000 | 663668 | | |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3955.02 | | |
| 50 | QPSK | 1 | 1 | 23.10 | 23.16 | 23.07 | 24.0 | 0.0 |
| Channel | | | | 648000 | 656000 | 664000 | | |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | | |
| 40 | QPSK | 1 | 1 | 23.05 | 23.09 | 23.11 | 24.0 | 0.0 |
| Channel | | | | 647668 | 656000 | 664334 | | |
| Frequency (MHz) | | | | 3715.02 | 3840 | 3965.01 | | |
| 30 | QPSK | 1 | 1 | 23.13 | 23.12 | 23.03 | 24.0 | 0.0 |
| Channel | | | | 647500 | 656000 | 664500 | | |
| Frequency (MHz) | | | | 3712.5 | 3840 | 3967.5 | | |
| 25 | QPSK | 1 | 1 | 23.03 | 23.16 | 23.10 | 24.0 | 0.0 |
| Channel | | | | 647334 | 656000 | 664668 | | |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3970.02 | | |
| 20 | QPSK | 1 | 1 | 23.11 | 23.17 | 23.07 | 24.0 | 0.0 |
| Channel | | | | 647168 | 656000 | 664834 | | |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.51 | | |
| 15 | QPSK | 1 | 1 | 23.09 | 23.16 | 23.03 | 24.0 | 0.0 |
| Channel | | | | 647000 | 656000 | 665000 | | |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | | |
| 10 | QPSK | 1 | 1 | 23.08 | 23.10 | 23.06 | 24.0 | 0.0 |

| Part270 n77 HPUE Ant 6 | | | | | | | | |
|------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|
| BW [MHz] | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
| | | | | Low Ch. Freq. 650000 | Middle Ch. Freq. 656000 | High Ch. Freq. 662000 | | |
| Channel | | | | 3750 | 3840 | 3930 | | |
| Frequency (MHz) | | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 23.42 | 23.46 | 23.35 | 25.0 | 0.0 |
| 100 | PI2 BPSK | 1 | 137 | 23.32 | 23.29 | 23.26 | | |
| 100 | PI2 BPSK | 1 | 271 | 23.23 | 23.27 | 23.15 | | |
| 100 | PI2 BPSK | 135 | 0 | 22.68 | 22.83 | 22.75 | 24.5 | 0.5 |
| 100 | PI2 BPSK | 135 | 69 | 23.33 | 23.31 | 23.18 | 25.0 | 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 22.57 | 22.75 | 22.66 | | |
| 100 | PI2 BPSK | 270 | 0 | 22.74 | 22.76 | 22.63 | 24.5 | 0.5 |
| 100 | QPSK | 1 | 1 | 23.48 | 23.49 | 23.42 | | |
| 100 | QPSK | 1 | 137 | 23.48 | 23.32 | 23.18 | 25.0 | 0.0 |
| 100 | QPSK | 1 | 271 | 23.18 | 23.34 | 23.22 | | |
| 100 | QPSK | 135 | 0 | 22.21 | 22.29 | 22.07 | 24.0 | 1.0 |
| 100 | QPSK | 135 | 69 | 23.24 | 23.46 | 23.19 | 25.0 | 0.0 |
| 100 | QPSK | 135 | 138 | 22.30 | 22.24 | 22.17 | 24.0 | 1.0 |
| 100 | QPSK | 270 | 0 | 22.16 | 22.29 | 22.03 | 24.0 | 1.0 |
| 100 | 16QAM | 1 | 1 | 22.15 | 22.23 | 22.03 | 24.0 | 1.0 |
| 100 | 64QAM | 1 | 1 | 20.80 | 20.88 | 20.75 | 22.5 | 2.5 |
| 100 | 256QAM | 1 | 1 | 18.93 | 18.96 | 18.86 | 20.5 | 4.5 |
| Channel | | | | 649334 | 656000 | 662334 | | |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3935.01 | | |
| 90 | QPSK | 1 | 1 | 23.42 | 23.36 | 23.28 | 25.0 | 0.0 |
| Channel | | | | 649334 | 656000 | 662668 | | |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3940.02 | | |
| 80 | QPSK | 1 | 1 | 23.41 | 23.43 | 23.28 | 25.0 | 0.0 |
| Channel | | | | 649000 | 656000 | 663000 | | |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | | |
| 70 | QPSK | 1 | 1 | 23.44 | 23.43 | 23.33 | 25.0 | 0.0 |
| Channel | | | | 3730.02 | 3840 | 3950.01 | | |
| Frequency (MHz) | | | | | | | | |
| 60 | QPSK | 1 | 1 | 23.42 | 23.36 | 23.29 | 25.0 | 0.0 |
| Channel | | | | 649334 | 656000 | 663668 | | |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3955.02 | | |
| 50 | QPSK | 1 | 1 | 23.43 | 23.44 | 23.36 | 25.0 | 0.0 |
| Channel | | | | 648000 | 656000 | 664000 | | |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | | |
| 40 | QPSK | 1 | 1 | 23.38 | 23.41 | 23.32 | 25.0 | 0.0 |
| Channel | | | | 647668 | 656000 | 664334 | | |
| Frequency (MHz) | | | | 3715.02 | 3840 | 3965.01 | | |
| 30 | QPSK | 1 | 1 | 23.38 | 23.42 | 23.32 | 25.0 | 0.0 |
| Channel | | | | 647500 | 656000 | 664500 | | |
| Frequency (MHz) | | | | 3712.5 | 3840 | 3967.5 | | |
| 25 | QPSK | 1 | 1 | 23.39 | 23.42 | 23.32 | 25.0 | 0.0 |
| Channel | | | | 647334 | 656000 | 664668 | | |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3970.02 | | |
| 20 | QPSK | 1 | 1 | 23.39 | 23.42 | 23.30 | 25.0 | 0.0 |
| Channel | | | | 647168 | 656000 | 664834 | | |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.51 | | |
| 15 | QPSK | 1 | 1 | 23.41 | 23.44 | 23.33 | 25.0 | 0.0 |
| Channel | | | | 647000 | 656000 | 665000 | | |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | | |
| 10 | QPSK | 1 | 1 | 23.35 | 23.36 | 23.37 | 25.0 | 0.0 |



| Part270 n78 Ant 6 | | | | | | | |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|-------------------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | Pl2 BPSK | 1 | 1 | | 23.43 | | |
| 100 | Pl2 BPSK | 1 | 137 | | 23.50 | | 24.0 |
| 100 | Pl2 BPSK | 1 | 271 | | 23.45 | | |
| 100 | Pl2 BPSK | 135 | 0 | | 23.01 | | 23.5 0.5 |
| 100 | Pl2 BPSK | 135 | 69 | | 23.47 | | 24.0 0.0 |
| 100 | Pl2 BPSK | 135 | 138 | | 23.17 | | 23.5 0.5 |
| 100 | Pl2 BPSK | 270 | 0 | | 23.03 | | |
| 100 | QPSK | 1 | 1 | | 23.52 | | |
| 100 | QPSK | 1 | 137 | | 23.45 | | 24.0 0.0 |
| 100 | QPSK | 1 | 271 | | 23.41 | | |
| 100 | QPSK | 135 | 0 | | 22.60 | | 23.0 1.0 |
| 100 | QPSK | 135 | 69 | | 23.49 | | 24.0 0.0 |
| 100 | QPSK | 135 | 138 | | 22.62 | | 23.0 1.0 |
| 100 | QPSK | 270 | 0 | | 22.62 | | 23.0 1.0 |
| 100 | 16QAM | 1 | 1 | | 22.50 | | 23.0 1.0 |
| 100 | 64QAM | 1 | 1 | | 21.08 | | 21.5 2.5 |
| 100 | 256QAM | 1 | 1 | | 18.94 | | 19.5 4.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 649868 | 650000 | 650334 | Tune-up limit MPR |
| | | | | 3745.02 | 3750 | 3755.01 | (dB) |
| 90 | QPSK | 1 | 1 | 23.49 | 23.45 | 23.50 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 649334 | 650000 | 650668 | Tune-up limit MPR |
| | | | | 3740.01 | 3750 | 3760.02 | (dB) |
| 80 | QPSK | 1 | 1 | 23.52 | 23.50 | 23.49 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 649000 | 650000 | 651000 | Tune-up limit MPR |
| | | | | 3735 | 3750 | 3765 | (dB) |
| 70 | QPSK | 1 | 1 | 23.44 | 23.47 | 23.49 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 648668 | 650000 | 651334 | Tune-up limit MPR |
| | | | | 3730.02 | 3750 | 3770.01 | (dB) |
| 60 | QPSK | 1 | 1 | 23.51 | 23.42 | 23.43 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 648334 | 650000 | 651668 | Tune-up limit MPR |
| | | | | 3725.01 | 3750 | 3755.02 | (dB) |
| 50 | QPSK | 1 | 1 | 23.48 | 23.42 | 23.49 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 648000 | 650000 | 652000 | Tune-up limit MPR |
| | | | | 3720 | 3750 | 3760 | (dB) |
| 40 | QPSK | 1 | 1 | 23.49 | 23.45 | 23.47 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 647668 | 650000 | 652334 | Tune-up limit MPR |
| | | | | 3715.02 | 3750 | 3785.01 | (dB) |
| 30 | QPSK | 1 | 1 | 23.45 | 23.49 | 23.44 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 647334 | 650000 | 652668 | Tune-up limit MPR |
| | | | | 3710.01 | 3750 | 3780.02 | (dB) |
| 25 | QPSK | 1 | 1 | 23.43 | 23.49 | 23.51 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 647000 | 650000 | 653000 | Tune-up limit MPR |
| | | | | 3705 | 3750 | 3795 | (dB) |
| 20 | QPSK | 1 | 1 | 23.47 | 23.41 | 23.42 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 647168 | 650000 | 652834 | Tune-up limit MPR |
| | | | | 3707.52 | 3750 | 3792.51 | (dB) |
| 15 | QPSK | 1 | 1 | 23.50 | 23.44 | 23.42 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 647000 | 650000 | 653000 | Tune-up limit MPR |
| | | | | 3705 | 3750 | 3795 | (dB) |
| 10 | QPSK | 1 | 1 | 23.46 | 23.50 | 23.47 | 24.0 0.0 |

| Part270 n78 HPUE Ant 6 | | | | | | | |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|-------------------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | Pl2 BPSK | 1 | 1 | | 23.72 | | |
| 100 | Pl2 BPSK | 1 | 137 | | 23.68 | | 25.0 |
| 100 | Pl2 BPSK | 1 | 271 | | 23.60 | | |
| 100 | Pl2 BPSK | 135 | 0 | | 23.09 | | 24.5 0.5 |
| 100 | Pl2 BPSK | 135 | 69 | | 23.40 | | 25.0 0.0 |
| 100 | Pl2 BPSK | 135 | 138 | | 23.17 | | 24.5 0.5 |
| 100 | Pl2 BPSK | 270 | 0 | | 23.04 | | |
| 100 | QPSK | 1 | 1 | | 23.75 | | |
| 100 | QPSK | 1 | 137 | | 23.69 | | 25.0 0.0 |
| 100 | QPSK | 1 | 271 | | 23.64 | | |
| 100 | QPSK | 135 | 0 | | 22.66 | | 24.0 1.0 |
| 100 | QPSK | 135 | 69 | | 23.72 | | 25.0 0.0 |
| 100 | QPSK | 135 | 138 | | 22.77 | | 24.0 1.0 |
| 100 | QPSK | 270 | 0 | | 22.79 | | 24.0 1.0 |
| 100 | 16QAM | 1 | 1 | | 22.87 | | 24.0 1.0 |
| 100 | 64QAM | 1 | 1 | | 21.45 | | 22.5 2.5 |
| 100 | 256QAM | 1 | 1 | | 19.28 | | 20.5 4.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 648668 | 650000 | 650334 | Tune-up limit MPR |
| | | | | 3745.02 | 3750 | 3755.01 | (dB) |
| 90 | QPSK | 1 | 1 | 23.71 | 23.68 | 23.73 | 25.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 649334 | 650000 | 650668 | Tune-up limit MPR |
| | | | | 3740.01 | 3750 | 3760.02 | (dB) |
| 80 | QPSK | 1 | 1 | 23.74 | 23.72 | 23.72 | 25.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 649000 | 650000 | 651000 | Tune-up limit MPR |
| | | | | 3735 | 3750 | 3765 | (dB) |
| 70 | QPSK | 1 | 1 | 23.68 | 23.67 | 23.70 | 25.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 648334 | 650000 | 651668 | Tune-up limit MPR |
| | | | | 3730.02 | 3750 | 3770.01 | (dB) |
| 60 | QPSK | 1 | 1 | 23.65 | 23.73 | 23.68 | 25.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 648000 | 650000 | 652000 | Tune-up limit MPR |
| | | | | 3720 | 3750 | 3760 | (dB) |
| 50 | QPSK | 1 | 1 | 23.68 | 23.65 | 23.67 | 25.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 648000 | 650000 | 652000 | Tune-up limit MPR |
| | | | | 3720 | 3750 | 3760 | (dB) |
| 40 | QPSK | 1 | 1 | 23.71 | 23.68 | 23.70 | 25.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 647668 | 650000 | 652334 | Tune-up limit MPR |
| | | | | 3715.02 | 3750 | 3785.01 | (dB) |
| 30 | QPSK | 1 | 1 | 23.67 | 23.69 | 23.70 | 25.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 647334 | 650000 | 652668 | Tune-up limit MPR |
| | | | | 3710.01 | 3750 | 3780.02 | (dB) |
| 25 | QPSK | 1 | 1 | 23.72 | 23.65 | 23.66 | 25.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 647334 | 650000 | 652668 | Tune-up limit MPR |
| | | | | 3710.01 | 3750 | 3780.02 | (dB) |
| 20 | QPSK | 1 | 1 | 23.69 | 23.71 | 23.68 | 25.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 647168 | 650000 | 652834 | Tune-up limit MPR |
| | | | | 3707.52 | 3750 | 3792.51 | (dB) |
| 15 | QPSK | 1 | 1 | 23.68 | 23.72 | 23.65 | 25.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| | | | | 647000 | 650000 | 653000 | Tune-up limit MPR |
| | | | | 3705 | 3750 | 3795 | (dB) |
| 10 | QPSK | 1 | 1 | 23.71 | 23.73 | 23.67 | 25.0 0.0 |



| Part270 n77 Ant 8 | | | | | | | | | |
|-------------------|------------|---------|-----------|----------------------------|-------------------------------|-----------------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. Freq. 650000 | Power Middle Ch. Freq. 650000 | Power High Ch. Freq. 662000 | Tune-up limit (dBm) | MPR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 100 | PI/2 BPSK | 1 | 1 | 22.95 | 23.10 | 23.06 | | | |
| 100 | PI/2 BPSK | 1 | 137 | 23.03 | 23.08 | 23.01 | 24.0 | 0.0 | |
| 100 | PI/2 BPSK | 1 | 271 | 22.94 | 23.04 | 22.98 | | | |
| 100 | PI/2 BPSK | 135 | 0 | 22.58 | 22.84 | 22.57 | 23.5 | 0.5 | |
| 100 | PI/2 BPSK | 135 | 69 | 23.04 | 23.04 | 23.03 | 24.0 | 0.0 | |
| 100 | PI/2 BPSK | 135 | 138 | 22.57 | 22.83 | 22.56 | | | |
| 100 | PI/2 BPSK | 270 | 0 | 22.59 | 22.84 | 22.63 | 23.5 | 0.5 | |
| 100 | QPSK | 1 | 1 | 23.05 | 23.13 | 23.09 | | | |
| 100 | QPSK | 1 | 137 | 22.95 | 23.08 | 23.00 | 24.0 | 0.0 | |
| 100 | QPSK | 1 | 271 | 23.00 | 23.05 | 23.00 | | | |
| 100 | QPSK | 135 | 0 | 22.04 | 22.18 | 22.12 | 23.0 | 1.0 | |
| 100 | QPSK | 135 | 69 | 22.98 | 23.11 | 23.01 | 24.0 | 0.0 | |
| 100 | QPSK | 135 | 138 | 22.07 | 22.13 | 22.11 | | | |
| 100 | QPSK | 270 | 0 | 22.01 | 22.16 | 22.08 | 23.0 | 1.0 | |
| 100 | 16QAM | 1 | 1 | 22.08 | 22.08 | 22.10 | 23.0 | 1.0 | |
| 100 | 64QAM | 1 | 1 | 20.55 | 20.60 | 20.62 | 21.5 | 2.5 | |
| 100 | 256QAM | 1 | 1 | 18.58 | 18.59 | 18.55 | 19.5 | 4.5 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 90 | QPSK | 1 | 1 | 23.01 | 23.05 | 23.00 | 24.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 80 | QPSK | 1 | 1 | 22.04 | 23.05 | 23.00 | 24.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 70 | QPSK | 1 | 1 | 22.08 | 23.02 | 22.97 | 24.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 60 | QPSK | 1 | 1 | 22.84 | 23.10 | 22.97 | 24.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 50 | QPSK | 1 | 1 | 23.02 | 23.05 | 23.02 | 24.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 40 | QPSK | 1 | 1 | 22.02 | 23.03 | 22.99 | 24.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 30 | QPSK | 1 | 1 | 23.02 | 23.04 | 23.05 | 24.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 25 | QPSK | 1 | 1 | 23.00 | 23.05 | 23.04 | 24.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 1 | 22.97 | 23.05 | 22.99 | 24.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 15 | QPSK | 1 | 1 | 22.99 | 23.00 | 23.00 | 24.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 10 | QPSK | 1 | 1 | 22.99 | 23.05 | 22.99 | 24.0 | 0.0 | |

| Part270 n77 HPUE Ant 8 | | | | | | | | | |
|------------------------|------------|---------|-----------|----------------------------|-------------------------------|-----------------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. Freq. 650000 | Power Middle Ch. Freq. 650000 | Power High Ch. Freq. 662000 | Tune-up limit (dBm) | MPR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 100 | PI/2 BPSK | 1 | 1 | 23.38 | 23.46 | 23.33 | | | |
| 100 | PI/2 BPSK | 1 | 137 | 23.21 | 23.29 | 23.23 | 25.0 | 0.0 | |
| 100 | PI/2 BPSK | 1 | 271 | 23.22 | 23.28 | 23.18 | | | |
| 100 | PI/2 BPSK | 135 | 0 | 22.74 | 22.79 | 22.68 | 24.5 | 0.5 | |
| 100 | PI/2 BPSK | 135 | 69 | 23.20 | 23.33 | 23.25 | 25.0 | 0.0 | |
| 100 | PI/2 BPSK | 135 | 138 | 22.53 | 22.74 | 22.60 | | | |
| 100 | PI/2 BPSK | 270 | 0 | 22.69 | 22.78 | 22.61 | 24.5 | 0.5 | |
| 100 | QPSK | 1 | 1 | 23.47 | 23.45 | 23.38 | | | |
| 100 | QPSK | 1 | 137 | 23.34 | 23.39 | 23.15 | 25.0 | 0.0 | |
| 100 | QPSK | 1 | 271 | 23.30 | 23.44 | 23.19 | | | |
| 100 | QPSK | 135 | 0 | 22.29 | 22.30 | 22.10 | 24.0 | 1.0 | |
| 100 | QPSK | 135 | 69 | 23.44 | 23.47 | 23.44 | 25.0 | 0.0 | |
| 100 | QPSK | 135 | 138 | 22.29 | 22.37 | 22.18 | | | |
| 100 | QPSK | 270 | 0 | 22.12 | 22.30 | 22.26 | 24.0 | 1.0 | |
| 100 | 16QAM | 1 | 1 | 22.85 | 22.21 | 22.10 | 24.0 | 1.0 | |
| 100 | 64QAM | 1 | 1 | 20.89 | 20.84 | 20.66 | 22.5 | 2.5 | |
| 100 | 256QAM | 1 | 1 | 18.88 | 18.85 | 18.85 | 20.5 | 4.5 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 90 | QPSK | 1 | 1 | 23.38 | 23.40 | 23.27 | 25.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 80 | QPSK | 1 | 1 | 23.43 | 23.38 | 23.34 | 25.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 70 | QPSK | 1 | 1 | 23.38 | 23.38 | 23.31 | 25.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 60 | QPSK | 1 | 1 | 23.42 | 23.44 | 23.32 | 25.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 50 | QPSK | 1 | 1 | 23.40 | 23.39 | 23.25 | 25.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 40 | QPSK | 1 | 1 | 23.42 | 23.42 | 23.31 | 25.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 30 | QPSK | 1 | 1 | 23.38 | 23.42 | 23.34 | 25.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 25 | QPSK | 1 | 1 | 23.39 | 23.45 | 23.27 | 25.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 1 | 23.38 | 23.41 | 23.30 | 25.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 15 | QPSK | 1 | 1 | 23.38 | 23.44 | 23.31 | 25.0 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 10 | QPSK | 1 | 1 | 23.40 | 23.39 | 23.33 | 25.0 | 0.0 | |



| Part270 n78 Ant 8 | | | | | | | |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|-----------------------------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | | 23.37 | | |
| 100 | PI2 BPSK | 1 | 137 | | 23.36 | 24.0 | 0.0 |
| 100 | PI2 BPSK | 1 | 271 | | 23.38 | | |
| 100 | PI2 BPSK | 135 | 0 | | 22.98 | 23.5 | 0.5 |
| 100 | PI2 BPSK | 135 | 69 | | 23.31 | 24.0 | 0.0 |
| 100 | PI2 BPSK | 135 | 138 | | 22.94 | | |
| 100 | PI2 BPSK | 270 | 0 | | 22.92 | 23.5 | 0.5 |
| 100 | QPSK | 1 | 1 | | 23.43 | | |
| 100 | QPSK | 1 | 137 | | 23.40 | 24.0 | 0.0 |
| 100 | QPSK | 1 | 271 | | 23.34 | | |
| 100 | QPSK | 135 | 0 | | 22.49 | 23.0 | 1.0 |
| 100 | QPSK | 135 | 69 | | 23.42 | 24.0 | 0.0 |
| 100 | QPSK | 135 | 138 | | 22.45 | 23.0 | 1.0 |
| 100 | QPSK | 270 | 0 | | 22.46 | | |
| 100 | 16QAM | 1 | 1 | | 22.39 | 23.0 | 1.0 |
| 100 | 64QAM | 1 | 1 | | 20.90 | 21.5 | 2.5 |
| 100 | 256QAM | 1 | 1 | | 18.84 | 19.5 | 4.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 23.33 | 23.38 | 23.38 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 649334 | 650000 | 650668 | Tune-up limit (dB) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 3740.01 | 3750 | 3760.02 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 23.38 | 23.38 | 23.34 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 648334 | 650000 | 651668 | Tune-up limit (dB) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 3720 | 3750 | 3780 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 647868 | 650000 | 652334 | Tune-up limit (dB) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 3715.02 | 3750 | 3785.01 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 23.39 | 23.37 | 23.39 | 24.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 647334 | 650000 | 652668 | Tune-up limit (dB) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 3705 | 3750 | 3795 | 24.0 0.0 |

| Part270 n78 HPUE Ant 8 | | | | | | | |
|------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|-----------------------------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | | 23.70 | | |
| 100 | PI2 BPSK | 1 | 137 | | 23.54 | 25.0 | 0.0 |
| 100 | PI2 BPSK | 1 | 271 | | 23.43 | | |
| 100 | PI2 BPSK | 135 | 0 | | 22.90 | 24.5 | 0.5 |
| 100 | PI2 BPSK | 135 | 69 | | 23.50 | 25.0 | 0.0 |
| 100 | PI2 BPSK | 135 | 138 | | 22.91 | 24.5 | 0.5 |
| 100 | PI2 BPSK | 270 | 0 | | 23.13 | | |
| 100 | QPSK | 1 | 1 | | 23.73 | | |
| 100 | QPSK | 1 | 137 | | 23.71 | 25.0 | 0.0 |
| 100 | QPSK | 1 | 271 | | 23.64 | | |
| 100 | QPSK | 135 | 0 | | 22.51 | 24.0 | 1.0 |
| 100 | QPSK | 135 | 69 | | 23.62 | 25.0 | 0.0 |
| 100 | QPSK | 135 | 138 | | 22.57 | 24.0 | 1.0 |
| 100 | QPSK | 270 | 0 | | 22.48 | | |
| 100 | 16QAM | 1 | 1 | | 22.75 | 24.0 | 1.0 |
| 100 | 64QAM | 1 | 1 | | 21.25 | 22.5 | 2.5 |
| 100 | 256QAM | 1 | 1 | | 18.52 | 20.5 | 4.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 23.62 | 23.67 | 23.63 | 25.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 649334 | 650000 | 650668 | Tune-up limit (dB) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 3740.01 | 3750 | 3760.02 | 25.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 23.62 | 23.66 | 23.60 | 25.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 648334 | 650000 | 651668 | Tune-up limit (dB) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 3720 | 3750 | 3780 | 25.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 647868 | 650000 | 652334 | Tune-up limit (dB) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 3715.02 | 3750 | 3785.01 | 25.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 23.59 | 23.63 | 23.65 | 25.0 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 647334 | 650000 | 652668 | Tune-up limit (dB) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 3705 | 3750 | 3795 | 25.0 0.0 |



Reduced Power Mode for EC12

n2 Ant 0 EC12

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 37400 | 37600 | 37800 | | |
| Frequency (MHz) | | | | 190 | 180 | 180 | | |
| 40 | QPSK | 1 | 1 | 22.89 | 23.01 | 22.86 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 108 | 22.79 | 22.92 | 22.82 | | |
| 40 | QPSK | 1 | 214 | 22.74 | 22.87 | 22.86 | | |
| 40 | QPSK | 108 | 0 | 21.74 | 21.79 | 21.71 | 23.0 | 1.0 |
| 40 | QPSK | 108 | 54 | 22.80 | 22.94 | 22.76 | 24.0 | 0.0 |
| 40 | QPSK | 108 | 108 | 21.74 | 21.76 | 21.70 | 23.0 | 1.0 |
| 40 | QPSK | 216 | 0 | 21.79 | 21.83 | 21.70 | | |

n5 Ant 0 EC12

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 166800 | 167300 | 167900 | | |
| Frequency (MHz) | | | | 834 | 836.5 | 832 | | |
| 20 | Pi/2 BPSK | 1 | 1 | 23.15 | 23.22 | 23.10 | 24.0 | 0.0 |
| 20 | Pi/2 BPSK | 1 | 53 | 23.07 | 23.06 | 23.14 | | |
| 20 | Pi/2 BPSK | 1 | 104 | 23.11 | 23.13 | 22.99 | | |
| 20 | Pi/2 BPSK | 50 | 0 | 22.54 | 22.81 | 22.59 | 23.5 | 0.5 |
| 20 | Pi/2 BPSK | 50 | 28 | 23.09 | 23.15 | 23.10 | 24.0 | 0.0 |
| 20 | Pi/2 BPSK | 50 | 56 | 22.87 | 22.53 | 22.41 | 23.5 | 0.5 |
| 20 | Pi/2 BPSK | 100 | 0 | 22.58 | 22.66 | 22.38 | | |
| 20 | QPSK | 1 | 1 | 23.06 | 23.22 | 22.96 | | |
| 20 | QPSK | 1 | 53 | 23.04 | 23.08 | 22.81 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 23.00 | 23.01 | 22.94 | | |
| 20 | QPSK | 50 | 0 | 21.84 | 21.83 | 21.73 | | |
| 20 | QPSK | 50 | 28 | 23.02 | 23.11 | 22.92 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 21.86 | 22.02 | 21.81 | 23.0 | 1.0 |
| 20 | QPSK | 100 | 0 | 21.96 | 21.99 | 21.69 | | |
| 20 | 16QAM | 1 | 1 | 21.88 | 21.89 | 21.81 | | |
| 20 | 16QAM | 1 | 1 | 20.83 | 20.80 | 20.39 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 19.14 | 19.22 | 19.17 | 19.5 | 4.5 |
| Channel | | | | 168300 | 167300 | 168300 | | |
| Frequency (MHz) | | | | 831.5 | 836.5 | 841.5 | | |
| 15 | QPSK | 1 | 1 | 22.68 | 23.02 | 22.86 | 24.0 | 0.0 |
| Channel | | | | 165500 | 167500 | 165500 | | |
| Frequency (MHz) | | | | 829 | 836.5 | 844 | | |
| 10 | QPSK | 1 | 1 | 22.88 | 23.05 | 22.79 | 24.0 | 0.0 |
| Channel | | | | 165000 | 167300 | 165000 | | |
| Frequency (MHz) | | | | 826.5 | 836.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 22.87 | 23.06 | 22.85 | 24.0 | 0.0 |

n7 Ant 0 EC12

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 505000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 23.08 | 23.20 | 23.05 | 24.0 | 0.0 |
| 50 | QPSK | 1 | 135 | 23.07 | 23.19 | 22.94 | | |
| 50 | QPSK | 1 | 268 | 23.01 | 23.01 | 22.91 | | |
| 50 | QPSK | 135 | 0 | 21.92 | 21.97 | 21.81 | 23.0 | 1.0 |
| 50 | QPSK | 135 | 68 | 23.00 | 23.10 | 22.93 | 24.0 | 0.0 |
| 50 | QPSK | 135 | 135 | 21.95 | 21.95 | 21.81 | 23.0 | 1.0 |
| 50 | QPSK | 270 | 0 | 21.93 | 22.03 | 21.82 | | |



n26 Ant 0 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 | | | | 164300 | 166300 | 167800 | | |
| Frequency (MHz) | | | | 821.5 | 831.5 | 841.5 | | |
| 20 | PI2 BPSK | 1 | 1 | 23.01 | 23.05 | 23.09 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 53 | 23.11 | 23.11 | 23.11 | | |
| 20 | PI2 BPSK | 1 | 104 | 23.20 | 23.17 | 23.19 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.77 | 22.76 | 22.77 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 23.20 | 23.12 | 23.15 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 22.80 | 22.75 | 22.75 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 100 | 0 | 22.72 | 22.80 | 22.80 | | |
| 20 | QPSK | 1 | 1 | 23.25 | 23.27 | 23.22 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 53 | 23.11 | 23.21 | 23.19 | | |
| 20 | QPSK | 1 | 104 | 23.12 | 23.19 | 23.17 | | |
| 20 | QPSK | 50 | 0 | 22.12 | 22.21 | 22.16 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 23.17 | 23.22 | 23.14 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 22.32 | 22.33 | 22.26 | 23.0 | 1.0 |
| 20 | QPSK | 100 | 0 | 22.29 | 22.33 | 22.29 | | |
| 20 | 16QAM | 1 | 1 | 21.80 | 21.83 | 21.80 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.52 | 20.58 | 20.48 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 19.05 | 19.16 | 19.14 | 19.5 | 4.5 |
| Channel | | | | 164300 | 166300 | 168300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 821.5 | 831.5 | 841.5 | | |
| 15 | QPSK | 1 | 1 | 23.15 | 23.26 | 23.20 | 24.0 | 0.0 |
| Channel | | | | 165300 | 167300 | 169300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 819 | 831.5 | 844 | | |
| 10 | QPSK | 1 | 1 | 23.23 | 23.22 | 23.12 | 24.0 | 0.0 |
| Channel | | | | 163300 | 165300 | 167300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 816.5 | 831.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 23.19 | 23.26 | 23.15 | 24.0 | 0.0 |

n66 Ant 0 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 | | | | 346000 | 349000 | 352000 | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1760 | | |
| 40 | QPSK | 1 | 1 | 22.97 | 23.02 | 22.91 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 108 | 22.87 | 22.84 | 22.70 | | |
| 40 | QPSK | 1 | 214 | 22.76 | 22.86 | 22.70 | | |
| 40 | QPSK | 108 | 0 | 21.77 | 21.82 | 21.59 | 23.0 | 1.0 |
| 40 | QPSK | 108 | 54 | 22.78 | 22.97 | 22.71 | 24.0 | 0.0 |
| 40 | QPSK | 108 | 108 | 21.76 | 21.79 | 21.71 | 23.0 | 1.0 |
| 40 | QPSK | 216 | 0 | 21.66 | 21.85 | 21.57 | | |



n38 Ant 0 EC12

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------|------------------|----------------|---------------------|----------|
| | | | | Low Ch. Freq. | Middle Ch. Freq. | High Ch. Freq. | | |
| Channel | | | | 518004 | 519000 | 519596 | | |
| Frequency (MHz) | | | | 2590.02 | 2595 | 2599.98 | | |
| 40 | QPSK | 1 | 11 | 23.19 | 23.24 | 23.15 | | |
| 40 | QPSK | 1 | 53 | 23.08 | 23.08 | 22.92 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 104 | 22.85 | 23.06 | 22.94 | | |
| 40 | QPSK | 50 | 0 | 22.00 | 22.05 | 21.78 | 23.0 | 1.0 |
| 40 | QPSK | 50 | 28 | 22.92 | 23.09 | 22.90 | 24.0 | 0.0 |
| 40 | QPSK | 90 | 56 | 21.95 | 21.97 | 21.90 | | |
| 40 | QPSK | 100 | 0 | 21.94 | 22.11 | 21.76 | 23.0 | 1.0 |

n41 Ant 0 EC12

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------|------------------|----------------|---------------------|----------|
| | | | | Low Ch. Freq. | Middle Ch. Freq. | High Ch. Freq. | | |
| Channel | | | | 509202 | 518598 | 528000 | | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | | |
| 100 | QPSK | 1 | 1 | 21.61 | 21.71 | 21.84 | | |
| 100 | QPSK | 1 | 137 | 21.64 | 21.65 | 21.61 | 23.0 | 0.0 |
| 100 | QPSK | 1 | 271 | 21.46 | 21.56 | 21.42 | | |
| 100 | QPSK | 135 | 0 | 21.46 | 21.53 | 21.46 | 23.0 | 0.0 |
| 100 | QPSK | 135 | 69 | 21.59 | 21.61 | 21.56 | 23.0 | 0.0 |
| 100 | QPSK | 135 | 138 | 21.37 | 21.45 | 21.33 | | |
| 100 | QPSK | 270 | 0 | 21.45 | 21.60 | 21.55 | 23.0 | 0.0 |



n2 Ant 1 EC12

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 1870 | 1880 | 1890 | | |
| 40 | QPSK | 1 | 1 | 23.17 | 23.19 | 23.10 | | |
| 40 | QPSK | 1 | 168 | 22.07 | 22.06 | 22.96 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 214 | 22.93 | 23.08 | 22.95 | | |
| 40 | QPSK | 108 | 0 | 21.95 | 22.02 | 21.83 | 23.0 | 1.0 |
| 40 | QPSK | 108 | 54 | 23.02 | 23.14 | 22.86 | 24.0 | 0.0 |
| 40 | QPSK | 168 | 168 | 21.95 | 21.92 | 21.87 | 23.0 | 1.0 |
| 40 | QPSK | 216 | 0 | 21.89 | 22.08 | 21.73 | | |

n5 Ant 1 EC12

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 168800 | 167300 | 167800 | | |
| Frequency (MHz) | | | | 834 | 836.5 | 839 | | |
| 20 | PI2 BPSK | 1 | 1 | 22.77 | 22.75 | 22.69 | | |
| 20 | PI2 BPSK | 1 | 53 | 22.80 | 22.83 | 22.74 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 104 | 22.81 | 22.84 | 22.43 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.07 | 22.12 | 22.08 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 22.81 | 22.88 | 22.62 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 21.82 | 22.03 | 21.89 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 100 | 0 | 22.10 | 22.28 | 22.02 | | |
| 20 | QPSK | 1 | 1 | 22.77 | 22.83 | 22.74 | | |
| 20 | QPSK | 1 | 53 | 22.80 | 22.88 | 22.48 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 22.81 | 22.78 | 22.83 | | |
| 20 | QPSK | 50 | 0 | 21.86 | 21.87 | 21.45 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 22.84 | 22.78 | 22.84 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 21.85 | 21.81 | 21.57 | 23.0 | 1.0 |
| 20 | QPSK | 100 | 0 | 21.52 | 21.63 | 21.45 | | |
| 20 | 16QAM | 1 | 1 | 21.48 | 21.55 | 21.47 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.21 | 20.21 | 20.08 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 18.79 | 18.85 | 18.83 | 19.5 | 4.5 |
| Channel | | | | 168300 | 167300 | 168300 | | |
| Frequency (MHz) | | | | 831.5 | 838.5 | 841.5 | | |
| 15 | QPSK | 1 | 1 | 22.64 | 22.85 | 22.64 | 24.0 | 0.0 |
| Channel | | | | 168500 | 167300 | 168800 | | |
| Frequency (MHz) | | | | 836 | 836.5 | 838 | | |
| 10 | QPSK | 1 | 1 | 22.58 | 22.71 | 22.58 | 24.0 | 0.0 |
| Channel | | | | 168300 | 167300 | 168300 | | |
| Frequency (MHz) | | | | 836.5 | 836.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 22.81 | 22.87 | 22.63 | 24.0 | 0.0 |

n7 Ant 1 EC12

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 558000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 22.87 | 22.86 | 22.78 | | |
| 50 | QPSK | 1 | 135 | 22.74 | 22.68 | 22.58 | 24.0 | 0.0 |
| 50 | QPSK | 1 | 268 | 22.55 | 22.85 | 22.53 | | |
| 50 | QPSK | 135 | 0 | 21.58 | 21.88 | 21.56 | 23.0 | 1.0 |
| 50 | QPSK | 135 | 68 | 22.87 | 22.76 | 22.62 | 24.0 | 0.0 |
| 50 | QPSK | 135 | 135 | 21.67 | 21.83 | 21.61 | 23.0 | 1.0 |
| 50 | QPSK | 270 | 0 | 21.50 | 21.56 | 21.37 | | |



n26 Ant 1 EC12

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|--------------------|--------------------|--------------------|---------------------|----------|
| | | | | Ch. / Freq. 164800 | Ch. / Freq. 166300 | Ch. / Freq. 167800 | | |
| Channel | | | | 824 | 831.5 | 839 | | |
| Frequency (MHz) | | | | | | | | |
| 20 | PI2 BPSK | 1 | 1 | 22.71 | 22.77 | 22.69 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 59 | 22.73 | 22.83 | 22.73 | | |
| 20 | PI2 BPSK | 1 | 104 | 22.76 | 22.85 | 22.81 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.36 | 22.41 | 22.32 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 22.80 | 22.85 | 22.83 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 22.32 | 22.41 | 22.31 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 100 | 0 | 22.29 | 22.39 | 22.34 | | |
| 20 | QPSK | 1 | 1 | 22.81 | 22.88 | 22.82 | | |
| 20 | QPSK | 1 | 53 | 22.81 | 22.85 | 22.78 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 22.78 | 22.81 | 22.71 | | |
| 20 | QPSK | 50 | 0 | 21.80 | 21.88 | 21.87 | | |
| 20 | QPSK | 50 | 28 | 22.76 | 22.83 | 22.76 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 56 | 21.89 | 21.95 | 21.90 | 24.0 | 0.0 |
| 20 | QPSK | 100 | 0 | 21.82 | 21.93 | 21.87 | | |
| 20 | QPSK | 1 | 1 | 21.87 | 21.87 | 21.87 | | |
| 20 | 16QAM | 1 | 1 | 21.47 | 21.55 | 21.52 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.12 | 20.15 | 20.10 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 18.66 | 18.75 | 18.74 | 19.5 | 4.5 |
| Channel | | | | 164300 | 165300 | 166300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 811.5 | 811.5 | 811.5 | | |
| 15 | QPSK | 1 | 1 | 22.71 | 22.83 | 22.73 | 24.0 | 0.0 |
| Channel | | | | 163800 | 165300 | 166800 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 819 | 831.5 | 844 | | |
| 10 | QPSK | 1 | 1 | 22.72 | 22.83 | 22.76 | 24.0 | 0.0 |
| Channel | | | | 163300 | 165300 | 165300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 816.5 | 831.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 22.78 | 22.87 | 22.78 | 24.0 | 0.0 |

n66 Ant 1 EC12

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|--------------------|--------------------|--------------------|---------------------|----------|
| | | | | Ch. / Freq. 346000 | Ch. / Freq. 349000 | Ch. / Freq. 352000 | | |
| Channel | | | | 1730 | 1745 | 1760 | | |
| Frequency (MHz) | | | | | | | | |
| 40 | QPSK | 1 | 1 | 23.30 | 23.38 | 23.25 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 109 | 23.14 | 23.19 | 23.08 | | |
| 40 | QPSK | 1 | 214 | 23.11 | 23.25 | 22.97 | | |
| 40 | QPSK | 108 | 0 | 22.06 | 22.04 | 21.89 | 23.0 | 1.0 |
| 40 | QPSK | 108 | 54 | 23.21 | 23.27 | 23.01 | 24.0 | 0.0 |
| 40 | QPSK | 108 | 108 | 22.18 | 22.12 | 22.01 | 23.0 | 1.0 |
| 40 | QPSK | 216 | 0 | 21.96 | 22.13 | 21.93 | | |



n38 Ant 1 EC12

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 518004 | 519000 | 519996 | | |
| Frequency (MHz) | | | | 2590.02 | 2595 | 2599.98 | | |
| 40 | QPSK | 1 | 11 | 22.93 | 22.98 | 22.74 | | |
| 40 | QPSK | 1 | 53 | 22.85 | 22.77 | 22.85 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 104 | 22.73 | 22.83 | 22.72 | | |
| 40 | QPSK | 50 | 0 | 21.70 | 21.77 | 21.52 | 23.0 | 1.0 |
| 40 | QPSK | 50 | 28 | 22.79 | 22.88 | 22.64 | 24.0 | 0.0 |
| 40 | QPSK | 50 | 56 | 21.77 | 21.73 | 21.63 | | |
| 40 | QPSK | 100 | 0 | 21.57 | 21.70 | 21.52 | 23.0 | 1.0 |

n41 Ant 1 EC12

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 509202 | 518598 | 528000 | | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | | |
| 100 | QPSK | 1 | 1 | 21.61 | 21.63 | 21.48 | | |
| 100 | QPSK | 1 | 137 | 21.46 | 21.55 | 21.46 | 23.0 | 0.0 |
| 100 | QPSK | 1 | 271 | 21.33 | 21.51 | 21.33 | | |
| 100 | QPSK | 135 | 0 | 21.38 | 21.45 | 21.38 | 23.0 | 0.0 |
| 100 | QPSK | 135 | 69 | 21.46 | 21.58 | 21.48 | 23.0 | 0.0 |
| 100 | QPSK | 135 | 138 | 21.41 | 21.37 | 21.29 | | |
| 100 | QPSK | 270 | 0 | 21.38 | 21.46 | 21.38 | 23.0 | 0.0 |



n2 Ant 2 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 | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 1870 | 1880 | 1890 | | |
| 40 | QPSK | 1 | 1 | 14.25 | 14.34 | 14.32 | | |
| 40 | QPSK | 1 | 108 | 14.19 | 14.21 | 14.21 | 15.3 | 0.0 |
| 40 | QPSK | 1 | 214 | 14.14 | 14.22 | 14.17 | | |
| 40 | QPSK | 108 | 0 | 14.18 | 14.20 | 14.22 | 15.3 | 0.0 |
| 40 | QPSK | 108 | 54 | 14.21 | 14.25 | 14.17 | 15.3 | 0.0 |
| 40 | QPSK | 108 | 108 | 14.09 | 14.20 | 14.13 | | |
| 40 | QPSK | 216 | 0 | 14.12 | 14.21 | 14.09 | 15.3 | 0.0 |

n7 Ant 2 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 | | | | 506000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 15.92 | 15.96 | 15.85 | | |
| 50 | QPSK | 1 | 135 | 15.86 | 15.87 | 15.87 | 16.8 | 0.0 |
| 50 | QPSK | 1 | 268 | 15.77 | 15.90 | 15.78 | | |
| 50 | QPSK | 135 | 0 | 15.80 | 15.84 | 15.79 | 16.8 | 0.0 |
| 50 | QPSK | 135 | 68 | 15.80 | 15.85 | 15.79 | 16.8 | 0.0 |
| 50 | QPSK | 135 | 135 | 15.87 | 15.78 | 15.74 | | |
| 50 | QPSK | 270 | 0 | 15.68 | 15.83 | 15.74 | 16.8 | 0.0 |

n66 Ant 2 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 | | | | 346000 | 349000 | 352000 | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1760 | | |
| 40 | QPSK | 1 | 1 | 15.24 | 15.32 | 15.23 | | |
| 40 | QPSK | 1 | 108 | 15.20 | 15.28 | 15.11 | 16.1 | 0.0 |
| 40 | QPSK | 1 | 214 | 15.13 | 15.19 | 15.12 | | |
| 40 | QPSK | 108 | 0 | 15.16 | 15.15 | 15.19 | 16.1 | 0.0 |
| 40 | QPSK | 108 | 54 | 15.23 | 15.25 | 15.09 | 16.1 | 0.0 |
| 40 | QPSK | 108 | 108 | 15.11 | 15.07 | 15.00 | | |
| 40 | QPSK | 216 | 0 | 15.12 | 15.22 | 15.10 | 16.1 | 0.0 |



n41 Ant 2 EC12

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|------------------|---------------------|-------------------|---------------------|----------|
| | | | | Low Ch. Freq. | Middle Ch. Freq. | High Ch. Freq. | | |
| Channel | | | | 2546.01 | 2592.99 | 2640 | | |
| Frequency (MHz) | | | | | | | | |
| 100 | QPSK | 1 | 1 | 14.98 | 15.05 | 14.99 | | |
| 100 | QPSK | 1 | 137 | 14.96 | 14.99 | 15.04 | 15.8 | 0.0 |
| 100 | QPSK | 1 | 271 | 14.99 | 14.87 | 14.79 | | |
| 100 | QPSK | 135 | 0 | 14.72 | 14.95 | 14.78 | 15.8 | 0.0 |
| 100 | QPSK | 135 | 69 | 14.89 | 14.99 | 14.90 | 15.8 | 0.0 |
| 100 | QPSK | 135 | 138 | 14.79 | 14.90 | 14.73 | | |
| 100 | QPSK | 270 | 0 | 14.85 | 14.90 | 14.86 | 15.8 | 0.0 |



n2 Ant 3 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 | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 1870 | 1880 | 1890 | | |
| 40 | QPSK | 1 | 17 | 16.98 | 16.99 | 16.86 | 17.9 | 0.0 |
| 40 | QPSK | 1 | 108 | 16.89 | 16.93 | 16.88 | | |
| 40 | QPSK | 1 | 214 | 16.79 | 16.92 | 16.77 | | |
| 40 | QPSK | 108 | 0 | 16.82 | 16.72 | 16.67 | 17.9 | 0.0 |
| 40 | QPSK | 108 | 54 | 16.74 | 16.82 | 16.70 | 17.9 | 0.0 |
| 40 | QPSK | 108 | 108 | 16.62 | 16.72 | 16.70 | 17.9 | 0.0 |
| 40 | QPSK | 216 | 0 | 16.80 | 16.81 | 16.73 | | |

n7 Ant 3 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 | | | | 505000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 15.54 | 15.55 | 15.52 | 16.4 | 0.0 |
| 50 | QPSK | 1 | 135 | 15.45 | 15.42 | 15.42 | | |
| 50 | QPSK | 1 | 268 | 15.37 | 15.62 | 15.44 | | |
| 50 | QPSK | 135 | 0 | 15.42 | 15.38 | 15.37 | 16.4 | 0.0 |
| 50 | QPSK | 135 | 68 | 15.45 | 15.47 | 15.33 | 16.4 | 0.0 |
| 50 | QPSK | 135 | 135 | 15.33 | 15.32 | 15.28 | | |
| 50 | QPSK | 270 | 0 | 15.39 | 15.42 | 15.28 | 16.4 | 0.0 |

n66 Ant 3 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 | | | | 345000 | 348000 | 352000 | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1760 | | |
| 40 | QPSK | 1 | 17 | 17.44 | 17.59 | 17.49 | 18.5 | 0.0 |
| 40 | QPSK | 1 | 108 | 17.36 | 17.43 | 17.51 | | |
| 40 | QPSK | 1 | 214 | 17.35 | 17.45 | 17.33 | | |
| 40 | QPSK | 108 | 0 | 17.37 | 17.40 | 17.42 | 18.5 | 0.0 |
| 40 | QPSK | 108 | 54 | 17.38 | 17.46 | 17.29 | 18.5 | 0.0 |
| 40 | QPSK | 108 | 108 | 17.27 | 17.28 | 17.21 | | |
| 40 | QPSK | 216 | 0 | 17.30 | 17.39 | 17.28 | 18.5 | 0.0 |



| n41 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 | | | | 2546.01 | 2592.99 | 2640 | | |
| Frequency (MHz) | | | | | | | | |
| 100 | QPSK | 1 | 1 | 15.86 | 15.90 | 15.83 | | |
| 100 | QPSK | 1 | 137 | 15.73 | 15.75 | 15.76 | 16.8 | 0.0 |
| 100 | QPSK | 1 | 271 | 15.57 | 15.83 | 15.63 | | |
| 100 | QPSK | 135 | 0 | 15.73 | 15.80 | 15.73 | 16.8 | 0.0 |
| 100 | QPSK | 135 | 69 | 15.81 | 15.85 | 15.80 | 16.8 | 0.0 |
| 100 | QPSK | 135 | 138 | 15.72 | 15.75 | 15.58 | | |
| 100 | QPSK | 270 | 0 | 15.87 | 15.79 | 15.60 | | |

| Part270 n77 HPUE 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 | | | | 3750 | 3840 | 3930 | | | |
| Frequency (MHz) | | | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 17.47 | 17.65 | 17.38 | | | |
| 100 | PI2 BPSK | 1 | 137 | 17.41 | 17.44 | 17.38 | 18.6 | 0.0 | |
| 100 | PI2 BPSK | 1 | 271 | 17.19 | 17.51 | 17.28 | | | |
| 100 | PI2 BPSK | 135 | 0 | 17.49 | 17.75 | 17.38 | 18.6 | 0.0 | |
| 100 | PI2 BPSK | 135 | 69 | 17.52 | 17.75 | 17.43 | 18.6 | 0.0 | |
| 100 | PI2 BPSK | 135 | 138 | 17.36 | 17.43 | 17.42 | | | |
| 100 | PI2 BPSK | 270 | 0 | 17.22 | 17.49 | 17.35 | 18.6 | 0.0 | |
| 100 | QPSK | 1 | 1 | 17.57 | 17.76 | 17.44 | | | |
| 100 | QPSK | 1 | 137 | 17.46 | 17.51 | 17.43 | 18.6 | 0.0 | |
| 100 | QPSK | 1 | 271 | 17.26 | 17.58 | 17.38 | | | |
| 100 | QPSK | 135 | 0 | 17.49 | 17.68 | 17.38 | 18.6 | 0.0 | |
| 100 | QPSK | 135 | 69 | 17.44 | 17.72 | 17.18 | 18.6 | 0.0 | |
| 100 | QPSK | 135 | 138 | 17.54 | 17.65 | 17.35 | | | |
| 100 | QPSK | 270 | 0 | 17.50 | 17.69 | 17.40 | 18.6 | 0.0 | |
| 100 | 16QAM | 1 | 1 | 17.43 | 17.47 | 17.32 | 18.6 | 0.0 | |
| 100 | 64QAM | 1 | 1 | 17.17 | 17.53 | 17.29 | 18.6 | 0.0 | |
| 100 | 256QAM | 1 | 1 | 17.17 | 17.49 | 17.35 | 18.6 | 0.0 | |
| Channel | | | | 689968 | 690000 | 692334 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 90 | QPSK | 1 | 1 | 17.52 | 17.70 | 17.37 | 18.6 | 0.0 | |
| Channel | | | | 689334 | 690000 | 692668 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 80 | QPSK | 1 | 1 | 17.43 | 17.73 | 17.53 | 18.6 | 0.0 | |
| Channel | | | | 689000 | 690000 | 693000 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 70 | QPSK | 1 | 1 | 17.46 | 17.63 | 17.41 | 18.6 | 0.0 | |
| Channel | | | | 689696 | 690000 | 693334 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 60 | QPSK | 1 | 1 | 17.54 | 17.72 | 17.38 | 18.6 | 0.0 | |
| Channel | | | | 689334 | 690000 | 693668 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 50 | QPSK | 1 | 1 | 17.50 | 17.72 | 17.40 | 18.6 | 0.0 | |
| Channel | | | | 689000 | 690000 | 694000 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 40 | QPSK | 1 | 1 | 17.53 | 17.73 | 17.35 | 18.6 | 0.0 | |
| Channel | | | | 687688 | 690000 | 694334 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 30 | QPSK | 1 | 1 | 17.52 | 17.68 | 17.42 | 18.6 | 0.0 | |
| Channel | | | | 687330 | 690000 | 694668 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 25 | QPSK | 1 | 1 | 17.50 | 17.70 | 17.39 | 18.6 | 0.0 | |
| Channel | | | | 687334 | 690000 | 694998 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 1 | 17.54 | 17.68 | 17.40 | 18.6 | 0.0 | |
| Channel | | | | 687188 | 690000 | 695334 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 15 | QPSK | 1 | 1 | 17.46 | 17.63 | 17.41 | 18.6 | 0.0 | |
| Channel | | | | 687000 | 690000 | 695668 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 10 | QPSK | 1 | 1 | 17.47 | 17.73 | 17.41 | 18.6 | 0.0 | |

| Part270 n78 HPUE 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 | | | | 3750 | 3840 | 3930 | | | |
| Frequency (MHz) | | | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 17.41 | 17.44 | 17.38 | | | |
| 100 | PI2 BPSK | 1 | 271 | 17.35 | | | 18.6 | 0.0 | |
| 100 | PI2 BPSK | 135 | 0 | 17.42 | | | 18.6 | 0.0 | |
| 100 | PI2 BPSK | 135 | 69 | 17.51 | | | 18.6 | 0.0 | |
| 100 | PI2 BPSK | 135 | 138 | 17.30 | | | | | |
| 100 | PI2 BPSK | 270 | 0 | 17.30 | | | 18.6 | 0.0 | |
| 100 | QPSK | 1 | 1 | 17.53 | | | | | |
| 100 | QPSK | 1 | 137 | 17.35 | | | 18.6 | 0.0 | |
| 100 | QPSK | 1 | 271 | 17.38 | | | | | |
| 100 | QPSK | 135 | 0 | 17.45 | | | 18.6 | 0.0 | |
| 100 | QPSK | 135 | 69 | 17.48 | | | 18.6 | 0.0 | |
| 100 | QPSK | 135 | 138 | 17.25 | | | | | |
| 100 | QPSK | 270 | 0 | 17.37 | | | 18.6 | 0.0 | |
| 100 | 16QAM | 1 | 1 | 17.52 | | | 18.6 | 0.0 | |
| 100 | 64QAM | 1 | 1 | 17.27 | | | 18.6 | 0.0 | |
| 100 | 256QAM | 1 | 1 | 17.29 | | | 18.6 | 0.0 | |
| Channel | | | | 689968 | 690000 | 693334 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 80 | QPSK | 1 | 1 | 17.44 | 17.49 | 17.46 | 18.6 | 0.0 | |
| Channel | | | | 689334 | 690000 | 696668 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 80 | QPSK | 1 | 1 | 17.45 | 17.50 | 17.50 | 18.6 | 0.0 | |
| Channel | | | | 689000 | 690000 | 697000 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 70 | QPSK | 1 | 1 | 17.45 | 17.43 | 17.47 | 18.6 | 0.0 | |
| Channel | | | | 689696 | 690000 | 697334 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 60 | QPSK | 1 | 1 | 17.45 | 17.44 | 17.50 | 18.6 | 0.0 | |
| Channel | | | | 689334 | 690000 | 697668 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 50 | QPSK | 1 | 1 | 17.51 | 17.42 | 17.49 | 18.6 | 0.0 | |
| Channel | | | | 689000 | 690000 | 698000 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 40 | QPSK | 1 | 1 | 17.44 | 17.50 | 17.44 | 18.6 | 0.0 | |
| Channel | | | | 687688 | 690000 | 698334 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 30 | QPSK | 1 | 1 | 17.44 | 17.48 | 17.43 | 18.6 | 0.0 | |
| Channel | | | | 687330 | 690000 | 698668 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 25 | QPSK | 1 | 1 | 17.45 | 17.50 | 17.49 | 18.6 | 0.0 | |
| Channel | | | | 687334 | 690000 | 698998 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 1 | 17.45 | 17.44 | 17.49 | 18.6 | 0.0 | |
| Channel | | | | 687188 | 690000 | 699334 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 15 | QPSK | 1 | 1 | 17.45 | 17.44 | 17.42 | 18.6 | 0.0 | |
| Channel | | | | 687000 | 690000 | 699668 | Tune-up limit (dBm) | MPR (dB) | |
| Frequency (MHz) | | | | | | | | | |
| 10 | QPSK | 1 | 1 | 17.52 | 17.44 | 17.50 | 18.6 | 0.0 | |



| Part270 n77 HPUE Ant 4 EC12 | | | | | | | |
|-----------------------------|------------|---------|-----------|----------------------------|-------------------------------|-----------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. 650000 | Power Middle Ch./Freq. 656000 | Power High Ch./Freq. 662000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 15.12 | 15.28 | 15.13 | 16.4 |
| 100 | PI2 BPSK | 1 | 137 | 15.12 | 15.28 | 15.22 | 16.4 |
| 100 | PI2 BPSK | 1 | 271 | 15.15 | 15.28 | 15.14 | 16.4 |
| 100 | PI2 BPSK | 135 | 0 | 15.14 | 15.25 | 15.14 | 16.4 |
| 100 | PI2 BPSK | 135 | 69 | 15.13 | 15.33 | 15.21 | 16.4 |
| 100 | PI2 BPSK | 135 | 138 | 15.11 | 15.23 | 15.15 | 16.4 |
| 100 | PI2 BPSK | 270 | 0 | 15.14 | 15.30 | 15.14 | 16.4 |
| 100 | QPSK | 1 | 1 | 15.18 | 15.34 | 15.23 | 16.4 |
| 100 | QPSK | 1 | 137 | 15.18 | 15.19 | 15.02 | 16.4 |
| 100 | QPSK | 1 | 271 | 14.98 | 15.11 | 15.00 | 16.4 |
| 100 | QPSK | 135 | 0 | 15.18 | 15.25 | 15.20 | 16.4 |
| 100 | QPSK | 135 | 69 | 15.14 | 15.29 | 15.15 | 16.4 |
| 100 | QPSK | 135 | 138 | 15.16 | 15.10 | 15.00 | 16.4 |
| 100 | QPSK | 270 | 0 | 14.97 | 15.07 | 14.92 | 16.4 |
| 100 | 16QAM | 1 | 1 | 15.08 | 15.30 | 15.21 | 16.4 |
| 100 | 64QAM | 1 | 1 | 15.13 | 15.11 | 14.99 | 16.4 |
| 100 | 256QAM | 1 | 1 | 14.87 | 15.02 | 14.90 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 15.15 | 15.16 | 14.95 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 15.12 | 15.09 | 14.93 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 15.11 | 15.13 | 14.97 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 15.14 | 15.15 | 14.94 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 15.11 | 15.13 | 14.93 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 15.17 | 15.10 | 14.98 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 15.14 | 15.15 | 15.00 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 15.08 | 15.09 | 14.96 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 15.11 | 15.18 | 14.93 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 15.02 | 15.09 | 14.96 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 15.08 | 15.16 | 14.94 | 16.4 |

| Part270 n78 HPUE Ant 4 EC12 | | | | | | | |
|-----------------------------|------------|---------|-----------|----------------------------|-------------------------------|-----------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. 650000 | Power Middle Ch./Freq. 656000 | Power High Ch./Freq. 662000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 15.30 | 15.30 | 15.30 | 16.4 |
| 100 | PI2 BPSK | 1 | 137 | 15.12 | 15.12 | 15.12 | 16.4 |
| 100 | PI2 BPSK | 1 | 271 | 15.19 | 15.19 | 15.19 | 16.4 |
| 100 | PI2 BPSK | 135 | 0 | 15.30 | 15.30 | 15.30 | 16.4 |
| 100 | PI2 BPSK | 135 | 69 | 15.31 | 15.31 | 15.31 | 16.4 |
| 100 | PI2 BPSK | 135 | 138 | 15.10 | 15.10 | 15.10 | 16.4 |
| 100 | PI2 BPSK | 270 | 0 | 15.30 | 15.30 | 15.30 | 16.4 |
| 100 | QPSK | 1 | 1 | 15.33 | 15.33 | 15.33 | 16.4 |
| 100 | QPSK | 1 | 137 | 15.18 | 15.18 | 15.18 | 16.4 |
| 100 | QPSK | 1 | 271 | 15.25 | 15.25 | 15.25 | 16.4 |
| 100 | QPSK | 135 | 0 | 15.26 | 15.26 | 15.26 | 16.4 |
| 100 | QPSK | 135 | 69 | 15.31 | 15.31 | 15.31 | 16.4 |
| 100 | QPSK | 135 | 138 | 15.10 | 15.10 | 15.10 | 16.4 |
| 100 | QPSK | 270 | 0 | 15.17 | 15.17 | 15.17 | 16.4 |
| 100 | 16QAM | 1 | 1 | 15.30 | 15.30 | 15.30 | 16.4 |
| 100 | 64QAM | 1 | 1 | 15.14 | 15.14 | 15.14 | 16.4 |
| 100 | 256QAM | 1 | 1 | 15.18 | 15.18 | 15.18 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 15.27 | 15.30 | 15.31 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 15.26 | 15.30 | 15.25 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 15.30 | 15.30 | 15.30 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 15.26 | 15.23 | 15.25 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 15.25 | 15.31 | 15.31 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 15.27 | 15.27 | 15.27 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 15.23 | 15.28 | 15.25 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 15.27 | 15.30 | 15.29 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 15.26 | 15.26 | 15.25 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 15.28 | 15.30 | 15.30 | 16.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 15.24 | 15.24 | 15.27 | 16.4 |



| Part270 n77 HPUE Ant 6 EC12 | | | | | | | |
|-----------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 650000 | Power High Ch. / Freq. 650000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 13.56 | 13.61 | 13.48 | |
| 100 | PI2 BPSK | 1 | 137 | 13.46 | 13.61 | 13.51 | |
| 100 | PI2 BPSK | 1 | 271 | 13.39 | 13.60 | 13.44 | 14.8 |
| 100 | PI2 BPSK | 135 | 0 | 13.42 | 13.41 | 13.36 | 14.8 |
| 100 | PI2 BPSK | 135 | 69 | 13.44 | 13.42 | 13.32 | 14.8 |
| 100 | PI2 BPSK | 135 | 138 | 13.36 | 13.48 | 13.34 | 14.8 |
| 100 | PI2 BPSK | 270 | 0 | 13.41 | 13.53 | 13.38 | 14.8 |
| 100 | QPSK | 1 | 1 | 13.53 | 13.76 | 13.53 | |
| 100 | QPSK | 1 | 137 | 13.64 | 13.65 | 13.64 | 14.8 |
| 100 | QPSK | 1 | 271 | 13.53 | 13.65 | 13.50 | 14.8 |
| 100 | QPSK | 135 | 0 | 13.54 | 13.61 | 13.62 | 14.8 |
| 100 | QPSK | 135 | 69 | 13.60 | 13.71 | 13.63 | 14.8 |
| 100 | QPSK | 135 | 138 | 13.51 | 13.56 | 13.48 | 14.8 |
| 100 | QPSK | 270 | 0 | 13.62 | 13.68 | 13.58 | 14.8 |
| 100 | 16QAM | 1 | 1 | 13.48 | 13.54 | 13.46 | 14.8 |
| 100 | 64QAM | 1 | 1 | 13.43 | 13.45 | 13.43 | 14.8 |
| 100 | 256QAM | 1 | 1 | 13.47 | 13.63 | 13.72 | 14.8 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 13.45 | 13.74 | 13.47 | 14.8 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 13.50 | 13.68 | 13.52 | 14.8 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 13.52 | 13.72 | 13.42 | 14.8 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 13.49 | 13.72 | 13.44 | 14.8 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 13.49 | 13.72 | 13.44 | 14.8 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 13.43 | 13.71 | 13.50 | 14.8 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 13.43 | 13.65 | 13.47 | 14.8 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 13.46 | 13.70 | 13.51 | 14.8 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 13.51 | 13.67 | 13.45 | 14.8 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 13.45 | 13.72 | 13.51 | 14.8 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 13.50 | 13.64 | 13.42 | 14.8 |

| Part270 n78 HPUE Ant 6 EC12 | | | | | | | |
|-----------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 650000 | Power High Ch. / Freq. 650000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | | 13.39 | | |
| 100 | PI2 BPSK | 1 | 137 | | 13.51 | | |
| 100 | PI2 BPSK | 1 | 271 | | 13.32 | | 14.8 |
| 100 | PI2 BPSK | 135 | 0 | | 13.30 | | 14.8 |
| 100 | PI2 BPSK | 135 | 69 | | 13.38 | | 14.8 |
| 100 | PI2 BPSK | 135 | 138 | | 13.32 | | 14.8 |
| 100 | PI2 BPSK | 270 | 0 | | 13.37 | | 14.8 |
| 100 | QPSK | 1 | 1 | | 13.61 | | |
| 100 | QPSK | 1 | 137 | | 13.54 | | 14.8 |
| 100 | QPSK | 1 | 271 | | 13.45 | | 14.8 |
| 100 | QPSK | 135 | 0 | | 13.53 | | 14.8 |
| 100 | QPSK | 135 | 69 | | 13.57 | | 14.8 |
| 100 | QPSK | 135 | 138 | | 13.43 | | 14.8 |
| 100 | QPSK | 270 | 0 | | 13.46 | | 14.8 |
| 100 | 16QAM | 1 | 1 | | 13.43 | | 14.8 |
| 100 | 64QAM | 1 | 1 | | 13.32 | | 14.8 |
| 100 | 256QAM | 1 | 1 | | 13.35 | | 14.8 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 64988 | 65000 | 65034 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 64934 | 65000 | 65068 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 64900 | 65000 | 65100 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 64834 | 65000 | 65168 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 64800 | 65000 | 65200 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 64768 | 65000 | 65234 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 64734 | 65000 | 65268 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 64700 | 65000 | 65300 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 64668 | 65000 | 65334 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 64634 | 65000 | 65368 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 64600 | 65000 | 65400 | MPR |



| Part270 n77 HPUE Ant 8 EC12 | | | | | | | | |
|-----------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 650000 | Power High Ch. / Freq. 650000 | Tune-up limit (dBm) | MPR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 16.82 | 16.77 | 16.86 | | |
| 100 | PI2 BPSK | 1 | 137 | 16.85 | 16.76 | 16.71 | 17.9 | 0.0 |
| 100 | PI2 BPSK | 1 | 271 | 16.81 | 16.78 | 16.81 | | |
| 100 | PI2 BPSK | 135 | 0 | 16.73 | 16.85 | 16.80 | 17.9 | 0.0 |
| 100 | PI2 BPSK | 135 | 69 | 16.68 | 16.75 | 16.51 | 17.9 | 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 16.61 | 16.80 | 16.52 | 17.9 | 0.0 |
| 100 | PI2 BPSK | 270 | 0 | 16.74 | 16.79 | 16.80 | 17.9 | 0.0 |
| 100 | QPSK | 1 | 1 | 16.83 | 17.05 | 16.85 | | |
| 100 | QPSK | 1 | 137 | 16.86 | 16.83 | 16.83 | 17.9 | 0.0 |
| 100 | QPSK | 1 | 271 | 16.73 | 16.77 | 16.62 | | |
| 100 | QPSK | 135 | 0 | 16.64 | 16.80 | 16.74 | 17.9 | 0.0 |
| 100 | QPSK | 135 | 69 | 16.86 | 16.93 | 16.89 | 17.9 | 0.0 |
| 100 | QPSK | 135 | 138 | 16.74 | 16.73 | 16.69 | 17.9 | 0.0 |
| 100 | QPSK | 270 | 0 | 16.72 | 16.86 | 16.67 | 17.9 | 0.0 |
| 100 | 16QAM | 1 | 1 | 16.70 | 16.77 | 16.82 | 17.9 | 0.0 |
| 100 | 64QAM | 1 | 1 | 16.64 | 16.83 | 16.84 | 17.9 | 0.0 |
| 100 | 256QAM | 1 | 1 | 16.73 | 16.82 | 16.76 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 90 | QPSK | 1 | 1 | 16.76 | 16.88 | 16.82 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 80 | QPSK | 1 | 1 | 16.73 | 16.92 | 16.75 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 70 | QPSK | 1 | 1 | 16.74 | 16.91 | 16.81 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 60 | QPSK | 1 | 1 | 16.73 | 16.89 | 16.81 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 50 | QPSK | 1 | 1 | 16.80 | 16.92 | 16.83 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 40 | QPSK | 1 | 1 | 16.74 | 16.94 | 16.81 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 30 | QPSK | 1 | 1 | 16.79 | 16.93 | 16.81 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 25 | QPSK | 1 | 1 | 16.79 | 16.90 | 16.76 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 1 | 16.77 | 16.94 | 16.83 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 15 | QPSK | 1 | 1 | 16.75 | 16.96 | 16.74 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 10 | QPSK | 1 | 1 | 16.79 | 16.91 | 16.79 | 17.9 | 0.0 |

| Part270 n78 HPUE Ant 8 EC12 | | | | | | | | |
|-----------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 650000 | Power High Ch. / Freq. 650000 | Tune-up limit (dBm) | MPR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | | | 16.88 | | |
| 100 | PI2 BPSK | 1 | 137 | | | 16.83 | 17.9 | 0.0 |
| 100 | PI2 BPSK | 1 | 271 | | | 16.86 | | |
| 100 | PI2 BPSK | 135 | 0 | | | 16.89 | 17.9 | 0.0 |
| 100 | PI2 BPSK | 135 | 69 | | | 16.70 | 17.9 | 0.0 |
| 100 | PI2 BPSK | 135 | 138 | | | 16.81 | 17.9 | 0.0 |
| 100 | PI2 BPSK | 270 | 0 | | | 16.80 | 17.9 | 0.0 |
| 100 | QPSK | 1 | 1 | | | 17.03 | | |
| 100 | QPSK | 1 | 137 | | | 16.89 | 17.9 | 0.0 |
| 100 | QPSK | 1 | 271 | | | 16.70 | | |
| 100 | QPSK | 135 | 0 | | | 16.79 | 17.9 | 0.0 |
| 100 | QPSK | 135 | 69 | | | 16.85 | 17.9 | 0.0 |
| 100 | QPSK | 135 | 138 | | | 16.74 | 17.9 | 0.0 |
| 100 | QPSK | 270 | 0 | | | 16.84 | 17.9 | 0.0 |
| 100 | 16QAM | 1 | 1 | | | 16.70 | 17.9 | 0.0 |
| 100 | 64QAM | 1 | 1 | | | 16.76 | 17.9 | 0.0 |
| 100 | 256QAM | 1 | 1 | | | 16.75 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 90 | QPSK | 1 | 1 | 16.98 | 16.98 | 16.95 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 80 | QPSK | 1 | 1 | 16.94 | 16.99 | 16.93 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 70 | QPSK | 1 | 1 | 16.93 | 17.02 | 16.96 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 60 | QPSK | 1 | 1 | 16.94 | 16.95 | 16.93 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 50 | QPSK | 1 | 1 | 17.00 | 16.92 | 16.99 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 40 | QPSK | 1 | 1 | 16.92 | 16.94 | 16.99 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 30 | QPSK | 1 | 1 | 16.99 | 16.95 | 17.00 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 25 | QPSK | 1 | 1 | 16.95 | 17.01 | 16.98 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 1 | 16.97 | 16.98 | 16.98 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 15 | QPSK | 1 | 1 | 16.95 | 17.00 | 17.00 | 17.9 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 10 | QPSK | 1 | 1 | 16.93 | 16.97 | 16.98 | 17.9 | 0.0 |



Reduced Power Mode for ECI3

n2 Ant 0 ECI3

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 37400 | 37600 | 37800 | | |
| Frequency (MHz) | | | | 192 | 180 | 180 | | |
| 40 | QPSK | 1 | 1 | 21.00 | 21.10 | 21.09 | 22.1 | 0.0 |
| 40 | QPSK | 1 | 108 | 20.87 | 21.05 | 20.79 | | |
| 40 | QPSK | 1 | 214 | 20.75 | 20.96 | 20.76 | | |
| 40 | QPSK | 108 | 0 | 20.86 | 20.93 | 20.82 | 22.1 | 0.0 |
| 40 | QPSK | 108 | 54 | 20.80 | 21.05 | 20.86 | 22.1 | 0.0 |
| 40 | QPSK | 108 | 108 | 20.76 | 20.89 | 20.80 | 22.1 | 0.0 |
| 40 | QPSK | 216 | 0 | 20.88 | 20.99 | 20.90 | | |

n5 Ant 0 ECI3

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 166800 | 167300 | 167900 | | |
| Frequency (MHz) | | | | 834 | 836.5 | 832 | | |
| 20 | Pi/2 BPSK | 1 | 1 | 23.15 | 23.22 | 23.10 | 24.0 | 0.0 |
| 20 | Pi/2 BPSK | 1 | 53 | 23.07 | 23.06 | 23.14 | | |
| 20 | Pi/2 BPSK | 1 | 104 | 23.11 | 23.13 | 22.99 | | |
| 20 | Pi/2 BPSK | 50 | 0 | 22.54 | 22.81 | 22.59 | 23.5 | 0.5 |
| 20 | Pi/2 BPSK | 50 | 28 | 23.09 | 23.15 | 23.10 | 24.0 | 0.0 |
| 20 | Pi/2 BPSK | 50 | 56 | 22.87 | 22.53 | 22.41 | 23.5 | 0.5 |
| 20 | Pi/2 BPSK | 100 | 0 | 22.58 | 22.66 | 22.38 | | |
| 20 | QPSK | 1 | 1 | 23.06 | 23.22 | 22.99 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 53 | 23.04 | 23.08 | 22.81 | | |
| 20 | QPSK | 1 | 104 | 23.00 | 23.01 | 22.94 | | |
| 20 | QPSK | 50 | 0 | 21.84 | 21.83 | 21.73 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 23.02 | 23.11 | 22.92 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 21.86 | 22.02 | 21.81 | 23.0 | 1.0 |
| 20 | QPSK | 100 | 0 | 21.96 | 21.99 | 21.69 | | |
| 20 | 16QAM | 1 | 1 | 21.88 | 21.89 | 21.81 | 23.0 | 1.0 |
| 20 | 16QAM | 1 | 1 | 20.83 | 20.80 | 20.39 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 19.14 | 19.22 | 19.17 | 19.5 | 4.5 |
| Channel | | | | 168300 | 167300 | 168300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 831.5 | 836.5 | 841.5 | 24.0 | 0.0 |
| 15 | QPSK | 1 | 1 | 22.88 | 23.02 | 22.86 | 24.0 | 0.0 |
| Channel | | | | 165500 | 167300 | 165500 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 829 | 836.5 | 844 | 24.0 | 0.0 |
| 10 | QPSK | 1 | 1 | 22.88 | 23.05 | 22.79 | 24.0 | 0.0 |
| Channel | | | | 165000 | 167300 | 165000 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 826.5 | 836.5 | 846.5 | 24.0 | 0.0 |
| 5 | QPSK | 1 | 1 | 22.87 | 23.06 | 22.85 | 24.0 | 0.0 |

n7 Ant 0 ECI3

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 505000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 20.67 | 20.73 | 20.64 | 21.7 | 0.0 |
| 50 | QPSK | 1 | 135 | 20.57 | 20.61 | 20.60 | | |
| 50 | QPSK | 1 | 268 | 20.50 | 20.58 | 20.59 | | |
| 50 | QPSK | 135 | 0 | 20.45 | 20.55 | 20.42 | 21.7 | 0.0 |
| 50 | QPSK | 135 | 68 | 20.47 | 20.63 | 20.37 | 21.7 | 0.0 |
| 50 | QPSK | 135 | 135 | 20.41 | 20.53 | 20.45 | 21.7 | 0.0 |
| 50 | QPSK | 270 | 0 | 20.46 | 20.51 | 20.48 | | |



n26 Ant 0 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 | | | | 164300 | 166300 | 167800 | | |
| Frequency (MHz) | | | | 821.5 | 831.5 | 841.5 | | |
| 20 | PI2 BPSK | 1 | 1 | 23.01 | 23.05 | 23.09 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 53 | 23.11 | 23.11 | 23.11 | | |
| 20 | PI2 BPSK | 1 | 104 | 23.20 | 23.17 | 23.19 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.77 | 22.76 | 22.77 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 23.20 | 23.12 | 23.15 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 22.80 | 22.75 | 22.75 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 100 | 0 | 22.72 | 22.80 | 22.80 | | |
| 20 | QPSK | 1 | 1 | 23.25 | 23.27 | 23.22 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 53 | 23.11 | 23.21 | 23.19 | | |
| 20 | QPSK | 1 | 104 | 23.12 | 23.19 | 23.17 | | |
| 20 | QPSK | 50 | 0 | 22.12 | 22.21 | 22.16 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 23.17 | 23.22 | 23.14 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 22.32 | 22.33 | 22.26 | 23.0 | 1.0 |
| 20 | QPSK | 100 | 0 | 22.29 | 22.33 | 22.29 | | |
| 20 | 16QAM | 1 | 1 | 21.80 | 21.83 | 21.80 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.52 | 20.58 | 20.48 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 19.05 | 19.16 | 19.14 | 19.5 | 4.5 |
| Channel | | | | 164300 | 166300 | 168300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 821.5 | 831.5 | 841.5 | | |
| 15 | QPSK | 1 | 1 | 23.15 | 23.26 | 23.20 | 24.0 | 0.0 |
| Channel | | | | 165300 | 167300 | 169300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 819 | 831.5 | 844 | | |
| 10 | QPSK | 1 | 1 | 23.23 | 23.22 | 23.12 | 24.0 | 0.0 |
| Channel | | | | 165300 | 167300 | 169300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 816.5 | 831.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 23.19 | 23.26 | 23.15 | 24.0 | 0.0 |

n66 Ant 0 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 | | | | 346000 | 349000 | 352000 | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1760 | | |
| 40 | QPSK | 1 | 1 | 22.99 | 22.69 | 22.61 | 23.8 | 0.0 |
| 40 | QPSK | 1 | 108 | 22.53 | 22.60 | 22.51 | | |
| 40 | QPSK | 1 | 214 | 22.52 | 22.56 | 22.51 | | |
| 40 | QPSK | 108 | 0 | 21.81 | 21.84 | 21.69 | 23.0 | 0.8 |
| 40 | QPSK | 108 | 54 | 22.57 | 22.59 | 22.53 | 23.8 | 0.0 |
| 40 | QPSK | 108 | 108 | 21.77 | 21.84 | 21.78 | 23.0 | 0.8 |
| 40 | QPSK | 216 | 0 | 21.75 | 21.89 | 21.63 | | |



n41 Ant 0 EC13

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|------------------|---------------------|-------------------|---------------------|----------|
| | | | | Low Ch. Freq. | Middle Ch. Freq. | High Ch. Freq. | | |
| Channel | | | | 2546.01 | 2592.99 | 2640 | | |
| Frequency (MHz) | | | | | | | | |
| 100 | QPSK | 1 | 1 | 20.10 | 20.26 | 20.22 | | |
| 100 | QPSK | 1 | 137 | 20.09 | 20.12 | 20.09 | 21.3 | 0.0 |
| 100 | QPSK | 1 | 271 | 20.12 | 20.12 | 20.03 | | |
| 100 | QPSK | 135 | 0 | 20.01 | 20.19 | 20.07 | 21.3 | 0.0 |
| 100 | QPSK | 135 | 69 | 20.03 | 20.21 | 20.11 | 21.3 | 0.0 |
| 100 | QPSK | 135 | 138 | 20.00 | 20.11 | 19.92 | | |
| 100 | QPSK | 270 | 0 | 20.11 | 20.12 | 19.98 | 21.3 | 0.0 |



n2 Ant 1 EC13

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 1870 | 1880 | 1890 | | |
| 40 | QPSK | 1 | 1 | 23.17 | 23.19 | 23.10 | | |
| 40 | QPSK | 1 | 100 | 22.07 | 22.06 | 22.96 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 214 | 22.93 | 23.08 | 22.95 | | |
| 40 | QPSK | 108 | 0 | 21.95 | 22.02 | 21.83 | 23.0 | 1.0 |
| 40 | QPSK | 108 | 54 | 23.02 | 23.04 | 22.86 | 24.0 | 0.0 |
| 40 | QPSK | 108 | 108 | 21.95 | 21.92 | 21.87 | | |
| 40 | QPSK | 216 | 0 | 21.89 | 22.08 | 21.73 | 23.0 | 1.0 |

n5 Ant 1 EC13

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 168800 | 167300 | 167800 | | |
| Frequency (MHz) | | | | 834 | 836.5 | 839 | | |
| 20 | PI2 BPSK | 1 | 1 | 22.77 | 22.75 | 22.69 | | |
| 20 | PI2 BPSK | 1 | 50 | 22.80 | 22.83 | 22.74 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 104 | 22.81 | 22.84 | 22.43 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.07 | 22.12 | 22.08 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 22.81 | 22.88 | 22.62 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 21.82 | 22.03 | 21.89 | | |
| 20 | PI2 BPSK | 100 | 0 | 22.10 | 22.28 | 22.02 | 23.5 | 0.5 |
| 20 | QPSK | 1 | 1 | 22.77 | 22.83 | 22.74 | | |
| 20 | QPSK | 1 | 53 | 22.80 | 22.88 | 22.48 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 22.81 | 22.78 | 22.83 | | |
| 20 | QPSK | 50 | 0 | 21.86 | 21.87 | 21.45 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 22.84 | 22.78 | 22.84 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 21.85 | 21.81 | 21.57 | | |
| 20 | QPSK | 100 | 0 | 21.52 | 21.63 | 21.45 | 23.0 | 1.0 |
| 20 | 16QAM | 1 | 1 | 21.48 | 21.55 | 21.47 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.21 | 20.21 | 20.08 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 18.79 | 18.85 | 18.83 | 19.5 | 4.5 |
| Channel | | | | 168300 | 167300 | 168300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 831.5 | 838.5 | 841.5 | | |
| 15 | QPSK | 1 | 1 | 22.64 | 22.85 | 22.64 | 24.0 | 0.0 |
| Channel | | | | 168500 | 167300 | 168500 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 839 | 838.5 | 838 | | |
| 10 | QPSK | 1 | 1 | 22.58 | 22.71 | 22.58 | 24.0 | 0.0 |
| Channel | | | | 168300 | 167300 | 168300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 836.5 | 836.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 22.81 | 22.87 | 22.63 | 24.0 | 0.0 |

n7 Ant 1 EC13

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 558000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 21.83 | 21.77 | 21.71 | | |
| 50 | QPSK | 1 | 135 | 21.63 | 21.73 | 21.63 | 22.9 | 0.0 |
| 50 | QPSK | 1 | 268 | 21.55 | 21.82 | 21.59 | | |
| 50 | QPSK | 135 | 0 | 21.52 | 21.73 | 21.54 | 22.9 | 0.0 |
| 50 | QPSK | 135 | 68 | 21.60 | 21.74 | 21.62 | 22.9 | 0.0 |
| 50 | QPSK | 135 | 135 | 21.56 | 21.59 | 21.50 | | |
| 50 | QPSK | 270 | 0 | 21.64 | 21.69 | 21.62 | 22.9 | 0.0 |



n26 Ant 1 ECI3

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|--------------------|--------------------|--------------------|---------------------|----------|
| | | | | Ch. / Freq. 164800 | Ch. / Freq. 166300 | Ch. / Freq. 167800 | | |
| Channel | | | | 824 | 831.5 | 839 | | |
| Frequency (MHz) | | | | | | | | |
| 20 | PI2 BPSK | 1 | 1 | 22.71 | 22.77 | 22.69 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 59 | 22.73 | 22.83 | 22.73 | | |
| 20 | PI2 BPSK | 1 | 104 | 22.76 | 22.85 | 22.81 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.36 | 22.41 | 22.32 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 22.80 | 22.85 | 22.83 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 22.32 | 22.41 | 22.31 | | |
| 20 | PI2 BPSK | 100 | 0 | 22.29 | 22.39 | 22.34 | 23.5 | 0.5 |
| 20 | QPSK | 1 | 1 | 22.81 | 22.88 | 22.82 | | |
| 20 | QPSK | 1 | 53 | 22.81 | 22.85 | 22.78 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 22.78 | 22.81 | 22.71 | | |
| 20 | QPSK | 50 | 0 | 21.80 | 21.88 | 21.87 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 22.76 | 22.83 | 22.76 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 21.89 | 21.95 | 21.90 | | |
| 20 | QPSK | 100 | 0 | 21.82 | 21.93 | 21.87 | 23.0 | 1.0 |
| 20 | 16QAM | 1 | 1 | 21.47 | 21.55 | 21.52 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.12 | 20.15 | 20.10 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 18.66 | 18.75 | 18.74 | 19.5 | 4.5 |
| Channel | | | | 164300 | 165300 | 166300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 811.5 | 811.5 | 811.5 | | |
| 15 | QPSK | 1 | 1 | 22.71 | 22.83 | 22.73 | 24.0 | 0.0 |
| Channel | | | | 163800 | 165300 | 166800 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 819 | 831.5 | 844 | | |
| 10 | QPSK | 1 | 1 | 22.72 | 22.83 | 22.76 | 24.0 | 0.0 |
| Channel | | | | 163300 | 165300 | 165300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 816.5 | 831.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 22.78 | 22.87 | 22.78 | 24.0 | 0.0 |

n66 Ant 1 ECI3

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|--------------------|--------------------|--------------------|---------------------|----------|
| | | | | Ch. / Freq. 346000 | Ch. / Freq. 349000 | Ch. / Freq. 352000 | | |
| Channel | | | | 1730 | 1745 | 1760 | | |
| Frequency (MHz) | | | | | | | | |
| 40 | QPSK | 1 | 1 | 22.29 | 22.38 | 22.33 | | |
| 40 | QPSK | 1 | 109 | 22.20 | 22.22 | 22.23 | 23.5 | 0.0 |
| 40 | QPSK | 1 | 214 | 22.17 | 22.23 | 22.14 | | |
| 40 | QPSK | 108 | 0 | 22.04 | 22.12 | 21.96 | 23.0 | 0.5 |
| 40 | QPSK | 108 | 54 | 22.27 | 22.34 | 22.30 | 23.5 | 0.0 |
| 40 | QPSK | 108 | 108 | 22.14 | 22.12 | 22.00 | | |
| 40 | QPSK | 216 | 0 | 22.01 | 22.16 | 21.98 | 23.0 | 0.5 |



n41 Ant 1 EC13

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | Power High | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-------------|-------------|-------------|---------------------|----------|
| | | | | Low | Middle | | | |
| Channel | | | | Ch. 1 Freq. | Ch. 2 Freq. | Ch. 3 Freq. | | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | | |
| 100 | QPSK | 1 | 1 | 19.60 | 19.61 | 19.57 | 20.6 | 0.0 |
| 100 | QPSK | 1 | 137 | 19.55 | 19.53 | 19.38 | | |
| 100 | QPSK | 1 | 271 | 19.37 | 19.48 | 19.31 | | |
| 100 | QPSK | 135 | 0 | 19.31 | 19.49 | 19.48 | 20.6 | 0.0 |
| 100 | QPSK | 135 | 69 | 19.49 | 19.34 | 19.53 | 20.6 | 0.0 |
| 100 | QPSK | 135 | 138 | 19.40 | 19.42 | 19.37 | 20.6 | 0.0 |
| 100 | QPSK | 270 | 0 | 19.38 | 19.47 | 19.43 | | |



n2 Ant 2 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 | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 1870 | 1880 | 1890 | | |
| 40 | QPSK | 1 | 1 | 16.81 | 16.90 | 16.85 | | |
| 40 | QPSK | 1 | 108 | 16.77 | 16.79 | 16.76 | 17.8 | 0.0 |
| 40 | QPSK | 1 | 214 | 16.70 | 16.77 | 16.84 | | |
| 40 | QPSK | 108 | 0 | 16.74 | 16.75 | 16.72 | 17.8 | 0.0 |
| 40 | QPSK | 108 | 54 | 16.75 | 16.77 | 16.70 | 17.8 | 0.0 |
| 40 | QPSK | 108 | 108 | 16.83 | 16.87 | 16.57 | 17.8 | 0.0 |
| 40 | QPSK | 216 | 0 | 16.59 | 16.73 | 16.60 | | |

n7 Ant 2 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 | | | | 506000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 18.94 | 18.95 | 18.91 | | |
| 50 | QPSK | 1 | 135 | 18.92 | 18.92 | 18.73 | 20.0 | 0.0 |
| 50 | QPSK | 1 | 268 | 18.82 | 18.91 | 18.88 | | |
| 50 | QPSK | 135 | 0 | 18.91 | 18.91 | 18.81 | 20.0 | 0.0 |
| 50 | QPSK | 135 | 68 | 18.82 | 18.98 | 18.81 | 20.0 | 0.0 |
| 50 | QPSK | 135 | 135 | 18.86 | 18.90 | 18.74 | 20.0 | 0.0 |
| 50 | QPSK | 270 | 0 | 18.82 | 18.87 | 18.78 | | |

n66 Ant 2 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 | | | | 346000 | 349000 | 352000 | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1760 | | |
| 40 | QPSK | 1 | 1 | 18.24 | 18.37 | 18.31 | | |
| 40 | QPSK | 1 | 108 | 18.16 | 18.22 | 18.21 | 19.3 | 0.0 |
| 40 | QPSK | 1 | 214 | 18.12 | 18.18 | 18.07 | | |
| 40 | QPSK | 108 | 0 | 18.16 | 18.26 | 18.15 | 19.3 | 0.0 |
| 40 | QPSK | 108 | 54 | 18.16 | 18.28 | 18.25 | 19.3 | 0.0 |
| 40 | QPSK | 108 | 108 | 18.10 | 18.20 | 18.08 | 19.3 | 0.0 |
| 40 | QPSK | 216 | 0 | 18.17 | 18.25 | 18.13 | | |



n41 Ant 2 EC13

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| | | | | Low Ch. / Freq. 508202 | Middle Ch. / Freq. 518098 | High Ch. / Freq. 528000 | | |
| Channel | | | | 2546.01 | 2592.99 | 2640 | | |
| Frequency (MHz) | | | | | | | | |
| 100 | QPSK | 1 | 1 | 17.59 | 17.74 | 17.68 | | |
| 100 | QPSK | 1 | 137 | 17.48 | 17.51 | 17.48 | 19.0 | 0.0 |
| 100 | QPSK | 1 | 271 | 17.67 | 17.56 | 17.54 | | |
| 100 | QPSK | 135 | 0 | 17.51 | 17.82 | 17.34 | 19.0 | 0.0 |
| 100 | QPSK | 135 | 69 | 17.53 | 17.86 | 17.44 | 19.0 | 0.0 |
| 100 | QPSK | 135 | 138 | 17.44 | 17.82 | 17.43 | | |
| 100 | QPSK | 270 | 0 | 17.47 | 17.82 | 17.39 | 19.0 | 0.0 |



n2 Ant 3 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 | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 1870 | 1880 | 1890 | | |
| 40 | QPSK | 1 | 1 | 19.98 | 20.13 | 20.04 | 21.1 | 0.0 |
| 40 | QPSK | 1 | 108 | 19.94 | 20.08 | 19.92 | | |
| 40 | QPSK | 1 | 214 | 20.06 | 20.07 | 19.86 | | |
| 40 | QPSK | 108 | 0 | 19.92 | 20.02 | 20.01 | 21.1 | 0.0 |
| 40 | QPSK | 108 | 54 | 20.10 | 20.11 | 20.01 | 21.1 | 0.0 |
| 40 | QPSK | 108 | 108 | 19.91 | 19.90 | 20.00 | | |
| 40 | QPSK | 216 | 0 | 19.95 | 20.08 | 19.92 | 21.1 | 0.0 |

n7 Ant 3 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 | | | | 505000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 18.69 | 18.75 | 18.59 | 19.9 | 0.0 |
| 50 | QPSK | 1 | 135 | 18.62 | 18.62 | 18.58 | | |
| 50 | QPSK | 1 | 268 | 18.58 | 18.58 | 18.66 | | |
| 50 | QPSK | 135 | 0 | 18.54 | 18.56 | 18.45 | 19.9 | 0.0 |
| 50 | QPSK | 135 | 68 | 18.65 | 18.67 | 18.38 | 19.9 | 0.0 |
| 50 | QPSK | 135 | 135 | 18.62 | 18.46 | 18.38 | | |
| 50 | QPSK | 270 | 0 | 18.52 | 18.61 | 18.47 | 19.9 | 0.0 |

n66 Ant 3 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 | | | | 345000 | 348000 | 352000 | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1760 | | |
| 40 | QPSK | 1 | 1 | 20.40 | 20.59 | 20.45 | 21.6 | 0.0 |
| 40 | QPSK | 1 | 108 | 20.41 | 20.54 | 20.42 | | |
| 40 | QPSK | 1 | 214 | 20.30 | 20.44 | 20.25 | | |
| 40 | QPSK | 108 | 0 | 20.40 | 20.34 | 20.37 | 21.6 | 0.0 |
| 40 | QPSK | 108 | 54 | 20.41 | 20.53 | 20.34 | 21.6 | 0.0 |
| 40 | QPSK | 108 | 108 | 20.19 | 20.39 | 20.34 | | |
| 40 | QPSK | 216 | 0 | 20.28 | 20.38 | 20.34 | 21.6 | 0.0 |



| Part270 n77 HPUE Ant 4 ECI3 | | | | | | | |
|-----------------------------|------------|---------|-----------|----------------------------|-------------------------------|-----------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. 650000 | Power Middle Ch./Freq. 650000 | Power High Ch./Freq. 650000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 18.12 | 18.38 | 18.12 | |
| 100 | PI2 BPSK | 1 | 137 | 18.17 | 18.14 | 17.92 | |
| 100 | PI2 BPSK | 1 | 271 | 18.00 | 18.10 | 18.02 | |
| 100 | PI2 BPSK | 135 | 0 | 18.10 | 18.38 | 18.09 | 19.7 0.0 |
| 100 | PI2 BPSK | 135 | 69 | 18.11 | 18.38 | 18.13 | 19.7 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 18.13 | 18.14 | 17.90 | |
| 100 | PI2 BPSK | 270 | 0 | 17.94 | 18.11 | 18.04 | 19.7 0.0 |
| 100 | QPSK | 1 | 1 | 18.20 | 18.42 | 18.16 | |
| 100 | QPSK | 1 | 137 | 18.22 | 18.17 | 18.02 | 19.7 0.0 |
| 100 | QPSK | 1 | 271 | 18.00 | 18.14 | 18.05 | |
| 100 | QPSK | 135 | 0 | 18.20 | 18.09 | 17.96 | 19.7 0.0 |
| 100 | QPSK | 135 | 69 | 18.18 | 18.38 | 18.06 | 19.7 0.0 |
| 100 | QPSK | 135 | 138 | 18.14 | 18.07 | 17.95 | |
| 100 | QPSK | 270 | 0 | 17.98 | 18.11 | 17.94 | 19.7 0.0 |
| 100 | 16QAM | 1 | 1 | 18.17 | 18.34 | 18.11 | 19.7 0.0 |
| 100 | 64QAM | 1 | 1 | 18.14 | 18.07 | 17.94 | 19.7 0.0 |
| 100 | 256QAM | 1 | 1 | 17.99 | 18.11 | 17.97 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 18.19 | 18.33 | 18.13 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 18.17 | 18.35 | 18.12 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 18.15 | 18.33 | 18.07 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 18.17 | 18.40 | 18.07 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 18.19 | 18.32 | 18.12 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 18.14 | 18.39 | 18.14 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 18.17 | 18.32 | 18.14 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 18.10 | 18.38 | 18.13 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 18.11 | 18.31 | 18.06 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 18.14 | 18.41 | 18.10 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 18.17 | 18.33 | 18.14 | 19.7 0.0 |

| Part270 n78 HPUE Ant 4 ECI3 | | | | | | | |
|-----------------------------|------------|---------|-----------|----------------------------|-------------------------------|-----------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch./Freq. 650000 | Power Middle Ch./Freq. 650000 | Power High Ch./Freq. 650000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 18.31 | 18.31 | 18.31 | |
| 100 | PI2 BPSK | 1 | 137 | 18.08 | 18.08 | 18.08 | 19.7 0.0 |
| 100 | PI2 BPSK | 1 | 271 | 18.00 | 18.00 | 18.00 | |
| 100 | PI2 BPSK | 135 | 0 | 18.31 | 18.31 | 18.31 | 19.7 0.0 |
| 100 | PI2 BPSK | 135 | 69 | 18.30 | 18.30 | 18.30 | 19.7 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 18.01 | 18.01 | 18.01 | |
| 100 | PI2 BPSK | 270 | 0 | 18.01 | 18.01 | 18.01 | 19.7 0.0 |
| 100 | QPSK | 1 | 1 | 18.32 | 18.32 | 18.32 | |
| 100 | QPSK | 1 | 137 | 18.15 | 18.15 | 18.15 | 19.7 0.0 |
| 100 | QPSK | 1 | 271 | 18.10 | 18.10 | 18.10 | |
| 100 | QPSK | 135 | 0 | 18.02 | 18.02 | 18.02 | 19.7 0.0 |
| 100 | QPSK | 135 | 69 | 18.28 | 18.28 | 18.28 | 19.7 0.0 |
| 100 | QPSK | 135 | 138 | 17.97 | 17.97 | 17.97 | 19.7 0.0 |
| 100 | QPSK | 270 | 0 | 18.01 | 18.01 | 18.01 | 19.7 0.0 |
| 100 | 16QAM | 1 | 1 | 18.29 | 18.29 | 18.29 | 19.7 0.0 |
| 100 | 64QAM | 1 | 1 | 18.00 | 18.00 | 18.00 | 19.7 0.0 |
| 100 | 256QAM | 1 | 1 | 18.10 | 18.10 | 18.10 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 18.09 | 18.28 | 18.07 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 18.09 | 18.23 | 18.09 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 18.12 | 18.23 | 18.05 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 18.09 | 18.30 | 18.03 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 18.15 | 18.23 | 18.07 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 18.12 | 18.31 | 18.09 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 18.13 | 18.29 | 18.04 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 18.12 | 18.30 | 18.03 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 18.16 | 18.27 | 18.08 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 18.09 | 18.31 | 18.09 | 19.7 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 18.10 | 18.29 | 18.08 | 19.7 0.0 |



| Part270 n77 HPUE Ant 6 EC13 | | | | | | | | | |
|-----------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 650000 | Power High Ch. / Freq. 650000 | Tune-up limit (dBm) | MPR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 100 | Pi2 BPSK | 1 | 1 | 17.55 | 17.55 | 17.52 | | | |
| 100 | Pi2 BPSK | 1 | 137 | 17.52 | 17.57 | 17.58 | 18.7 | 0.0 | |
| 100 | Pi2 BPSK | 1 | 271 | 17.40 | 17.55 | 17.45 | | | |
| 100 | Pi2 BPSK | 135 | 0 | 17.40 | 17.51 | 17.36 | 18.7 | 0.0 | |
| 100 | Pi2 BPSK | 135 | 69 | 17.43 | 17.41 | 17.29 | 18.7 | 0.0 | |
| 100 | Pi2 BPSK | 135 | 138 | 17.36 | 17.47 | 17.36 | 18.7 | 0.0 | |
| 100 | Pi2 BPSK | 270 | 0 | 17.46 | 17.49 | 17.44 | 18.7 | 0.0 | |
| 100 | QPSK | 1 | 1 | 17.57 | 17.75 | 17.50 | | | |
| 100 | QPSK | 1 | 137 | 17.60 | 17.62 | 17.62 | 18.7 | 0.0 | |
| 100 | QPSK | 1 | 271 | 17.56 | 17.71 | 17.51 | | | |
| 100 | QPSK | 135 | 0 | 17.51 | 17.67 | 17.64 | 18.7 | 0.0 | |
| 100 | QPSK | 135 | 69 | 17.62 | 17.69 | 17.57 | 18.7 | 0.0 | |
| 100 | QPSK | 135 | 138 | 17.43 | 17.60 | 17.52 | 18.7 | 0.0 | |
| 100 | QPSK | 270 | 0 | 17.55 | 17.62 | 17.56 | 18.7 | 0.0 | |
| 100 | 16QAM | 1 | 1 | 17.47 | 17.50 | 17.40 | 18.7 | 0.0 | |
| 100 | 64QAM | 1 | 1 | 17.48 | 17.48 | 17.48 | 18.7 | 0.0 | |
| 100 | 256QAM | 1 | 1 | 17.61 | 17.66 | 17.54 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 90 | QPSK | 1 | 1 | 17.55 | 17.73 | 17.55 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 80 | QPSK | 1 | 1 | 17.58 | 17.70 | 17.59 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 70 | QPSK | 1 | 1 | 17.62 | 17.67 | 17.63 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 60 | QPSK | 1 | 1 | 17.60 | 17.71 | 17.58 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 50 | QPSK | 1 | 1 | 17.60 | 17.65 | 17.55 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 40 | QPSK | 1 | 1 | 17.59 | 17.68 | 17.63 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 30 | QPSK | 1 | 1 | 17.63 | 17.66 | 17.62 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 25 | QPSK | 1 | 1 | 17.57 | 17.63 | 17.52 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 1 | 17.57 | 17.69 | 17.55 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 15 | QPSK | 1 | 1 | 17.60 | 17.63 | 17.67 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 10 | QPSK | 1 | 1 | 17.59 | 17.67 | 17.53 | 18.7 | 0.0 | |

| Part270 n78 HPUE Ant 6 EC13 | | | | | | | | | |
|-----------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 650000 | Power High Ch. / Freq. 650000 | Tune-up limit (dBm) | MPR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 100 | Pi2 BPSK | 1 | 1 | 17.55 | 17.55 | 17.52 | | | |
| 100 | Pi2 BPSK | 1 | 137 | 17.52 | 17.57 | 17.58 | 18.7 | 0.0 | |
| 100 | Pi2 BPSK | 1 | 271 | 17.40 | 17.55 | 17.45 | | | |
| 100 | Pi2 BPSK | 135 | 0 | 17.40 | 17.51 | 17.36 | 18.7 | 0.0 | |
| 100 | Pi2 BPSK | 135 | 69 | 17.43 | 17.41 | 17.29 | 18.7 | 0.0 | |
| 100 | Pi2 BPSK | 135 | 138 | 17.36 | 17.47 | 17.36 | 18.7 | 0.0 | |
| 100 | Pi2 BPSK | 270 | 0 | 17.46 | 17.49 | 17.44 | 18.7 | 0.0 | |
| 100 | QPSK | 1 | 1 | 17.57 | 17.75 | 17.50 | | | |
| 100 | QPSK | 1 | 137 | 17.60 | 17.62 | 17.62 | 18.7 | 0.0 | |
| 100 | QPSK | 1 | 271 | 17.56 | 17.71 | 17.51 | | | |
| 100 | QPSK | 135 | 0 | 17.51 | 17.67 | 17.64 | 18.7 | 0.0 | |
| 100 | QPSK | 135 | 69 | 17.62 | 17.69 | 17.57 | 18.7 | 0.0 | |
| 100 | QPSK | 135 | 138 | 17.43 | 17.60 | 17.52 | 18.7 | 0.0 | |
| 100 | QPSK | 270 | 0 | 17.55 | 17.62 | 17.56 | 18.7 | 0.0 | |
| 100 | 16QAM | 1 | 1 | 17.47 | 17.50 | 17.40 | 18.7 | 0.0 | |
| 100 | 64QAM | 1 | 1 | 17.48 | 17.48 | 17.48 | 18.7 | 0.0 | |
| 100 | 256QAM | 1 | 1 | 17.61 | 17.66 | 17.54 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 90 | QPSK | 1 | 1 | 17.55 | 17.73 | 17.55 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 80 | QPSK | 1 | 1 | 17.58 | 17.59 | 17.62 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 70 | QPSK | 1 | 1 | 17.58 | 17.55 | 17.64 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 60 | QPSK | 1 | 1 | 17.62 | 17.58 | 17.61 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 50 | QPSK | 1 | 1 | 17.62 | 17.57 | 17.64 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 40 | QPSK | 1 | 1 | 17.53 | 17.59 | 17.60 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 30 | QPSK | 1 | 1 | 17.55 | 17.63 | 17.55 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 25 | QPSK | 1 | 1 | 17.57 | 17.63 | 17.62 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 1 | 17.63 | 17.64 | 17.60 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 15 | QPSK | 1 | 1 | 17.62 | 17.57 | 17.60 | 18.7 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 10 | QPSK | 1 | 1 | 17.63 | 17.58 | 17.63 | 18.7 | 0.0 | |



| Part270 n77 HPUE Ant 8 ECI3 | | | | | | | |
|-----------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 656000 | Power High Ch. / Freq. 662000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 19.34 | 19.32 | 19.15 | |
| 100 | PI2 BPSK | 1 | 137 | 19.32 | 19.33 | 19.27 | 20.2 |
| 100 | PI2 BPSK | 1 | 271 | 19.27 | 19.25 | 19.32 | |
| 100 | PI2 BPSK | 135 | 0 | 19.28 | 19.36 | 19.11 | 20.2 |
| 100 | PI2 BPSK | 135 | 69 | 19.11 | 19.21 | 19.05 | 20.2 |
| 100 | PI2 BPSK | 135 | 138 | 19.19 | 19.19 | 19.24 | 20.2 |
| 100 | PI2 BPSK | 270 | 0 | 19.18 | 19.28 | 19.08 | 20.2 |
| 100 | QPSK | 1 | 1 | 19.25 | 19.53 | 19.37 | |
| 100 | QPSK | 1 | 137 | 19.34 | 19.31 | 19.33 | 20.2 |
| 100 | QPSK | 1 | 271 | 19.21 | 19.26 | 19.14 | |
| 100 | QPSK | 135 | 0 | 19.17 | 19.31 | 19.22 | 20.2 |
| 100 | QPSK | 135 | 69 | 19.28 | 19.42 | 19.24 | 20.2 |
| 100 | QPSK | 135 | 138 | 19.20 | 19.24 | 19.24 | 20.2 |
| 100 | QPSK | 270 | 0 | 19.20 | 19.33 | 19.16 | 20.2 |
| 100 | 16QAM | 1 | 1 | 19.21 | 19.25 | 19.18 | 20.2 |
| 100 | 64QAM | 1 | 1 | 19.13 | 19.12 | 19.18 | 20.2 |
| 100 | 256QAM | 1 | 1 | 19.05 | 19.02 | 19.07 | 20.2 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 19.06 | 19.03 | 19.13 | 20.2 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 649334 | 656000 | 662668 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 3745.02 | 3840 | 3935.01 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 19.10 | 19.05 | 19.07 | 20.2 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 649334 | 656000 | 663668 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 3745.02 | 3840 | 3935.01 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 19.10 | 19.09 | 19.13 | 20.2 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 19.07 | 19.07 | 19.10 | 20.2 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 647668 | 656000 | 664668 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 19.08 | 19.08 | 19.09 | 20.2 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 647668 | 656000 | 664668 | MPR |

| Part270 n78 HPUE Ant 8 ECI3 | | | | | | | |
|-----------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 656000 | Power High Ch. / Freq. 662000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 19.35 | 19.35 | 19.35 | |
| 100 | PI2 BPSK | 1 | 137 | 19.34 | 19.34 | 19.44 | 20.2 |
| 100 | PI2 BPSK | 1 | 271 | 19.37 | 19.37 | 19.37 | |
| 100 | PI2 BPSK | 135 | 0 | 19.41 | 19.41 | 19.41 | 20.2 |
| 100 | PI2 BPSK | 135 | 69 | 19.18 | 19.18 | 19.18 | 20.2 |
| 100 | PI2 BPSK | 135 | 138 | 19.05 | 19.05 | 19.05 | 20.2 |
| 100 | PI2 BPSK | 270 | 0 | 19.31 | 19.31 | 19.31 | 20.2 |
| 100 | QPSK | 1 | 1 | 19.48 | 19.48 | 19.48 | |
| 100 | QPSK | 1 | 137 | 19.34 | 19.34 | 19.34 | 20.2 |
| 100 | QPSK | 1 | 271 | 19.12 | 19.12 | 19.12 | |
| 100 | QPSK | 135 | 0 | 19.33 | 19.33 | 19.33 | 20.2 |
| 100 | QPSK | 135 | 69 | 19.42 | 19.42 | 19.42 | 20.2 |
| 100 | QPSK | 135 | 138 | 19.28 | 19.28 | 19.28 | 20.2 |
| 100 | QPSK | 270 | 0 | 19.34 | 19.34 | 19.34 | 20.2 |
| 100 | 16QAM | 1 | 1 | 19.28 | 19.28 | 19.28 | 20.2 |
| 100 | 64QAM | 1 | 1 | 19.23 | 19.23 | 19.23 | 20.2 |
| 100 | 256QAM | 1 | 1 | 19.30 | 19.30 | 19.30 | 20.2 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 649668 | 650000 | 650334 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 3745.02 | 3750 | 3755.01 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 649334 | 650000 | 650668 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 649668 | 650000 | 651334 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 649000 | 650000 | 651000 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 3735 | 3750 | 3765 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 19.11 | 19.04 | 19.12 | 20.2 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 648334 | 650000 | 651668 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 3745.02 | 3750 | 3755.01 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 647668 | 650000 | 652334 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 3715.02 | 3750 | 3785.01 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 5 | QPSK | 1 | 1 | 19.07 | 19.06 | 19.06 | 20.2 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 0 | QPSK | 1 | 1 | 647668 | 650000 | 652668 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 0 | QPSK | 1 | 1 | 19.08 | 19.10 | 19.08 | 20.2 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 0 | QPSK | 1 | 1 | 647668 | 650000 | 652668 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 0 | QPSK | 1 | 1 | 3705 | 3750 | 3795 | MPR |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 0 | QPSK | 1 | 1 | 19.08 | 19.08 | 19.13 | 20.2 |



Reduced Power Mode for ECI5

n2 Ant 0 ECI5

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 190 | 180 | 180 | | |
| 40 | QPSK | 1 | 1 | 20.52 | 20.60 | 20.56 | 21.8 | 0.0 |
| 40 | QPSK | 1 | 108 | 20.39 | 20.48 | 20.41 | | |
| 40 | QPSK | 1 | 214 | 20.45 | 20.46 | 20.28 | | |
| 40 | QPSK | 108 | 0 | 20.44 | 20.44 | 20.42 | 21.8 | 0.0 |
| 40 | QPSK | 108 | 54 | 20.43 | 20.55 | 20.42 | 21.8 | 0.0 |
| 40 | QPSK | 108 | 108 | 20.29 | 20.42 | 20.30 | 21.8 | 0.0 |
| 40 | QPSK | 216 | 0 | 20.42 | 20.46 | 20.32 | | |

n5 Ant 0 ECI5

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 166800 | 167300 | 167800 | | |
| Frequency (MHz) | | | | 834 | 836.5 | 832 | | |
| 20 | Pi/2 BPSK | 1 | 1 | 23.15 | 23.22 | 23.10 | 24.0 | 0.0 |
| 20 | Pi/2 BPSK | 1 | 53 | 23.07 | 23.06 | 23.14 | | |
| 20 | Pi/2 BPSK | 1 | 104 | 23.11 | 23.13 | 22.99 | | |
| 20 | Pi/2 BPSK | 50 | 0 | 22.54 | 22.81 | 22.59 | 23.5 | 0.5 |
| 20 | Pi/2 BPSK | 50 | 28 | 23.09 | 23.15 | 23.10 | 24.0 | 0.0 |
| 20 | Pi/2 BPSK | 50 | 56 | 22.87 | 22.53 | 22.41 | 23.5 | 0.5 |
| 20 | Pi/2 BPSK | 100 | 0 | 22.58 | 22.66 | 22.38 | | |
| 20 | QPSK | 1 | 1 | 23.06 | 23.22 | 22.96 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 53 | 23.04 | 23.08 | 22.81 | | |
| 20 | QPSK | 1 | 104 | 23.00 | 23.01 | 22.94 | | |
| 20 | QPSK | 50 | 0 | 21.84 | 21.83 | 21.73 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 23.02 | 23.11 | 22.92 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 21.86 | 22.02 | 21.81 | 23.0 | 1.0 |
| 20 | QPSK | 100 | 0 | 21.96 | 21.99 | 21.69 | | |
| 20 | 16QAM | 1 | 1 | 21.88 | 21.89 | 21.81 | 23.0 | 1.0 |
| 20 | 16QAM | 1 | 1 | 20.83 | 20.80 | 20.39 | 21.5 | 2.5 |
| 20 | 16QAM | 1 | 1 | 19.14 | 19.22 | 19.17 | 19.5 | 4.5 |
| Channel | | | | 168300 | 167300 | 168300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 831.5 | 836.5 | 841.5 | 24.0 | 0.0 |
| 15 | QPSK | 1 | 1 | 22.68 | 23.02 | 22.86 | 24.0 | 0.0 |
| Channel | | | | 165500 | 167500 | 165500 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 829 | 836.5 | 844 | 24.0 | 0.0 |
| 10 | QPSK | 1 | 1 | 22.88 | 23.05 | 22.79 | 24.0 | 0.0 |
| Channel | | | | 165000 | 167300 | 165000 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 826.5 | 836.5 | 846.5 | 24.0 | 0.0 |
| 5 | QPSK | 1 | 1 | 22.87 | 23.06 | 22.85 | 24.0 | 0.0 |

n7 Ant 0 ECI5

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 505000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 19.95 | 19.99 | 19.87 | 21.1 | 0.0 |
| 50 | QPSK | 1 | 135 | 19.85 | 19.91 | 19.81 | | |
| 50 | QPSK | 1 | 268 | 19.77 | 19.91 | 19.89 | | |
| 50 | QPSK | 135 | 0 | 19.71 | 19.68 | 19.62 | 21.1 | 0.0 |
| 50 | QPSK | 135 | 68 | 19.80 | 19.94 | 19.68 | 21.1 | 0.0 |
| 50 | QPSK | 135 | 135 | 19.72 | 19.87 | 19.68 | 21.1 | 0.0 |
| 50 | QPSK | 270 | 0 | 19.70 | 19.91 | 19.59 | | |



n26 Ant 0 EC15

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------|------------------|----------------|---------------------|----------|
| | | | | Low Ch / Freq | Middle Ch / Freq | High Ch / Freq | | |
| Channel | | | | 164300 | 166300 | 167800 | | |
| Frequency (MHz) | | | | 821.5 | 831.5 | 841.5 | | |
| 20 | PI2 BPSK | 1 | 1 | 23.01 | 23.05 | 23.09 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 53 | 23.11 | 23.11 | 23.11 | | |
| 20 | PI2 BPSK | 1 | 104 | 23.20 | 23.17 | 23.19 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.77 | 22.76 | 22.77 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 23.20 | 23.12 | 23.15 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 22.80 | 22.75 | 22.75 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 100 | 0 | 22.72 | 22.80 | 22.80 | | |
| 20 | QPSK | 1 | 1 | 23.25 | 23.27 | 23.22 | | |
| 20 | QPSK | 1 | 53 | 23.11 | 23.21 | 23.19 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 23.12 | 23.19 | 23.17 | | |
| 20 | QPSK | 50 | 0 | 22.12 | 22.21 | 22.16 | | |
| 20 | QPSK | 50 | 28 | 23.17 | 23.22 | 23.14 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 22.32 | 22.33 | 22.26 | 23.0 | 1.0 |
| 20 | QPSK | 100 | 0 | 22.29 | 22.33 | 22.29 | | |
| 20 | 16QAM | 1 | 1 | 21.80 | 21.83 | 21.80 | | |
| 20 | 64QAM | 1 | 1 | 20.52 | 20.58 | 20.48 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 19.05 | 19.16 | 19.14 | 19.5 | 4.5 |
| Channel | | | | 164300 | 166300 | 168300 | | |
| Frequency (MHz) | | | | 821.5 | 831.5 | 841.5 | | |
| 15 | QPSK | 1 | 1 | 23.15 | 23.26 | 23.20 | 24.0 | 0.0 |
| Channel | | | | 165300 | 167300 | 169300 | | |
| Frequency (MHz) | | | | 819 | 831.5 | 844 | | |
| 10 | QPSK | 1 | 1 | 23.23 | 23.22 | 23.12 | 24.0 | 0.0 |
| Channel | | | | 165300 | 167300 | 169300 | | |
| Frequency (MHz) | | | | 816.5 | 831.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 23.19 | 23.26 | 23.15 | 24.0 | 0.0 |

n66 Ant 0 EC15

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------|------------------|----------------|---------------------|----------|
| | | | | Low Ch / Freq | Middle Ch / Freq | High Ch / Freq | | |
| Channel | | | | 346000 | 349000 | 352000 | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1750 | | |
| 40 | QPSK | 1 | 1 | 19.82 | 19.95 | 19.88 | 21.2 | 0.0 |
| 40 | QPSK | 1 | 108 | 19.66 | 19.88 | 19.77 | | |
| 40 | QPSK | 1 | 214 | 19.75 | 19.78 | 19.69 | | |
| 40 | QPSK | 108 | 0 | 19.80 | 19.70 | 19.67 | 21.2 | 0.0 |
| 40 | QPSK | 108 | 54 | 19.81 | 19.89 | 19.81 | 21.2 | 0.0 |
| 40 | QPSK | 108 | 108 | 19.84 | 19.78 | 19.60 | | |
| 40 | QPSK | 216 | 0 | 19.70 | 19.84 | 19.73 | | |



n41 Ant 0 EC15

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|------------------|---------------------|-------------------|---------------------|----------|
| | | | | Low Ch. Freq. | Middle Ch. Freq. | High Ch. Freq. | | |
| Channel | | | | 2546.01 | 2592.99 | 2640 | | |
| Frequency (MHz) | | | | | | | | |
| 100 | QPSK | 1 | 1 | 19.87 | 19.75 | 19.65 | | |
| 100 | QPSK | 1 | 137 | 19.52 | 19.55 | 19.52 | 20.8 | 0.0 |
| 100 | QPSK | 1 | 271 | 19.47 | 19.56 | 19.39 | | |
| 100 | QPSK | 135 | 0 | 19.59 | 19.54 | 19.50 | 20.8 | 0.0 |
| 100 | QPSK | 135 | 69 | 19.59 | 19.70 | 19.50 | 20.8 | 0.0 |
| 100 | QPSK | 135 | 138 | 19.42 | 19.61 | 19.40 | | |
| 100 | QPSK | 270 | 0 | 19.42 | 19.65 | 19.44 | 20.8 | 0.0 |



n2 Ant 1 EC15

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 1870 | 1880 | 1890 | | |
| 40 | QPSK | 1 | 1 | 19.82 | 19.95 | 19.93 | | |
| 40 | QPSK | 1 | 100 | 19.86 | 19.95 | 19.92 | | |
| 40 | QPSK | 1 | 214 | 19.91 | 19.87 | 19.74 | 21.0 | 0.0 |
| 40 | QPSK | 108 | 0 | 19.87 | 19.91 | 19.84 | 21.0 | 0.0 |
| 40 | QPSK | 108 | 54 | 19.81 | 19.92 | 19.91 | 21.0 | 0.0 |
| 40 | QPSK | 108 | 108 | 19.71 | 19.85 | 19.73 | 21.0 | 0.0 |
| 40 | QPSK | 216 | 0 | 19.82 | 19.89 | 19.84 | 21.0 | 0.0 |

n5 Ant 1 EC15

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 166800 | 167300 | 167800 | | |
| Frequency (MHz) | | | | 834 | 836.5 | 839 | | |
| 20 | PI2 BPSK | 1 | 1 | 22.77 | 22.75 | 22.69 | | |
| 20 | PI2 BPSK | 1 | 50 | 22.80 | 22.83 | 22.74 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 104 | 22.81 | 22.84 | 22.43 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.07 | 22.12 | 22.08 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 22.81 | 22.88 | 22.62 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 21.82 | 22.03 | 21.89 | | |
| 20 | PI2 BPSK | 100 | 0 | 22.10 | 22.28 | 22.02 | 23.5 | 0.5 |
| 20 | QPSK | 1 | 1 | 22.77 | 22.83 | 22.74 | | |
| 20 | QPSK | 1 | 53 | 22.80 | 22.88 | 22.48 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 22.81 | 22.78 | 22.83 | | |
| 20 | QPSK | 50 | 0 | 21.56 | 21.67 | 21.45 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 22.84 | 22.78 | 22.84 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 21.85 | 21.81 | 21.57 | | |
| 20 | QPSK | 100 | 0 | 21.52 | 21.63 | 21.45 | 23.0 | 1.0 |
| 20 | 16QAM | 1 | 1 | 21.48 | 21.55 | 21.47 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.21 | 20.21 | 20.08 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 18.79 | 18.85 | 18.83 | 19.5 | 4.5 |
| Channel | | | | 168300 | 167300 | 168300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 841.5 | 838.5 | 841.5 | | |
| 15 | QPSK | 1 | 1 | 22.64 | 22.85 | 22.64 | 24.0 | 0.0 |
| Channel | | | | 165800 | 167300 | 168800 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 836 | 836.5 | 838 | | |
| 10 | QPSK | 1 | 1 | 22.58 | 22.71 | 22.56 | 24.0 | 0.0 |
| Channel | | | | 165300 | 167300 | 169300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 846.5 | 836.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 22.81 | 22.87 | 22.63 | 24.0 | 0.0 |

n7 Ant 1 EC15

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 556000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 20.89 | 20.88 | 20.84 | | |
| 50 | QPSK | 1 | 135 | 20.63 | 20.78 | 20.71 | 21.7 | 0.0 |
| 50 | QPSK | 1 | 268 | 20.75 | 20.88 | 20.54 | | |
| 50 | QPSK | 135 | 0 | 20.89 | 20.89 | 20.73 | 21.7 | 0.0 |
| 50 | QPSK | 135 | 68 | 20.73 | 20.76 | 20.75 | 21.7 | 0.0 |
| 50 | QPSK | 135 | 135 | 20.54 | 20.65 | 20.48 | | |
| 50 | QPSK | 270 | 0 | 20.58 | 20.77 | 20.60 | 21.7 | 0.0 |



n26 Ant 1 EC15

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|--------------------|--------------------|--------------------|---------------------|----------|
| | | | | Ch. / Freq. 164800 | Ch. / Freq. 166300 | Ch. / Freq. 167800 | | |
| Channel | | | | 824 | 831.5 | 839 | | |
| Frequency (MHz) | | | | | | | | |
| 20 | PI2 BPSK | 1 | 1 | 22.71 | 22.77 | 22.69 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 59 | 22.73 | 22.83 | 22.73 | | |
| 20 | PI2 BPSK | 1 | 104 | 22.76 | 22.85 | 22.81 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.36 | 22.41 | 22.32 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 22.80 | 22.85 | 22.83 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 22.32 | 22.41 | 22.31 | | |
| 20 | PI2 BPSK | 100 | 0 | 22.29 | 22.39 | 22.34 | 23.5 | 0.5 |
| 20 | QPSK | 1 | 1 | 22.81 | 22.88 | 22.82 | | |
| 20 | QPSK | 1 | 53 | 22.81 | 22.85 | 22.78 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 22.78 | 22.81 | 22.71 | | |
| 20 | QPSK | 50 | 0 | 21.80 | 21.88 | 21.87 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 22.76 | 22.83 | 22.76 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 21.89 | 21.95 | 21.90 | | |
| 20 | QPSK | 100 | 0 | 21.82 | 21.93 | 21.87 | 23.0 | 1.0 |
| 20 | 16QAM | 1 | 1 | 21.47 | 21.55 | 21.52 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.12 | 20.15 | 20.10 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 18.66 | 18.75 | 18.74 | 19.5 | 4.5 |
| Channel | | | | 164300 | 165300 | 166300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 811.5 | 811.5 | 811.5 | | |
| 15 | QPSK | 1 | 1 | 22.71 | 22.83 | 22.73 | 24.0 | 0.0 |
| Channel | | | | 163800 | 165300 | 166800 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 819 | 831.5 | 844 | | |
| 10 | QPSK | 1 | 1 | 22.72 | 22.83 | 22.76 | 24.0 | 0.0 |
| Channel | | | | 163300 | 165300 | 165300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 816.5 | 831.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 22.78 | 22.87 | 22.78 | 24.0 | 0.0 |

n66 Ant 1 EC15

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|--------------------|--------------------|--------------------|---------------------|----------|
| | | | | Ch. / Freq. 346000 | Ch. / Freq. 349000 | Ch. / Freq. 352000 | | |
| Channel | | | | 1730 | 1745 | 1760 | | |
| Frequency (MHz) | | | | | | | | |
| 40 | QPSK | 1 | 1 | 20.62 | 20.75 | 20.73 | | |
| 40 | QPSK | 1 | 109 | 20.46 | 20.69 | 20.57 | 22.0 | 0.0 |
| 40 | QPSK | 1 | 214 | 20.59 | 20.58 | 20.42 | | |
| 40 | QPSK | 108 | 0 | 20.56 | 20.55 | 20.55 | 22.0 | 0.0 |
| 40 | QPSK | 108 | 54 | 20.62 | 20.71 | 20.68 | 22.0 | 0.0 |
| 40 | QPSK | 108 | 109 | 20.53 | 20.62 | 20.44 | | |
| 40 | QPSK | 216 | 0 | 20.52 | 20.62 | 20.58 | 22.0 | 0.0 |



n41 Ant 1 ECIS

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | Power High | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | | | |
| Channel | | | | 2546.01 | 2592.99 | 2640 | | |
| Frequency (MHz) | | | | | | | | |
| 100 | QPSK | 1 | 1 | 20.58 | 20.68 | 20.51 | | |
| 100 | QPSK | 1 | 137 | 20.44 | 20.59 | 20.52 | 22.1 | 0.0 |
| 100 | QPSK | 1 | 271 | 20.63 | 20.50 | 20.40 | | |
| 100 | QPSK | 135 | 0 | 20.48 | 20.52 | 20.44 | 22.1 | 0.0 |
| 100 | QPSK | 135 | 69 | 20.55 | 20.61 | 20.49 | 22.1 | 0.0 |
| 100 | QPSK | 135 | 138 | 20.43 | 20.52 | 20.58 | | |
| 100 | QPSK | 270 | 0 | 20.52 | 20.60 | 20.43 | 22.1 | 0.0 |



n2 Ant 2 ECI5

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-------------|-------------|-------------|---------------------|----------|
| | | | | Ch. / Freq. | Ch. / Freq. | Ch. / Freq. | | |
| Channel | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 1870 | 1880 | 1890 | | |
| 40 | QPSK | 1 | 1 | 17.70 | 17.82 | 17.75 | | |
| 40 | QPSK | 1 | 108 | 17.75 | 17.76 | 17.87 | 18.9 | 0.0 |
| 40 | QPSK | 1 | 214 | 17.57 | 17.71 | 17.88 | | |
| 40 | QPSK | 108 | 0 | 17.65 | 17.66 | 17.68 | 18.9 | 0.0 |
| 40 | QPSK | 108 | 54 | 17.57 | 17.74 | 17.63 | 18.9 | 0.0 |
| 40 | QPSK | 108 | 108 | 17.56 | 17.66 | 17.42 | 18.9 | 0.0 |
| 40 | QPSK | 216 | 0 | 17.50 | 17.67 | 17.53 | | |

n7 Ant 2 ECI5

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-------------|-------------|-------------|---------------------|----------|
| | | | | Ch. / Freq. | Ch. / Freq. | Ch. / Freq. | | |
| Channel | | | | 506000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 18.68 | 18.81 | 18.70 | | |
| 50 | QPSK | 1 | 135 | 18.74 | 18.79 | 18.72 | 19.8 | 0.0 |
| 50 | QPSK | 1 | 268 | 18.59 | 18.67 | 18.71 | | |
| 50 | QPSK | 135 | 0 | 18.70 | 18.82 | 18.68 | 19.8 | 0.0 |
| 50 | QPSK | 135 | 68 | 18.63 | 18.77 | 18.53 | 19.8 | 0.0 |
| 50 | QPSK | 135 | 135 | 18.58 | 18.65 | 18.48 | 19.8 | 0.0 |
| 50 | QPSK | 270 | 0 | 18.54 | 18.76 | 18.56 | | |

n66 Ant 2 ECI5

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-------------|-------------|-------------|---------------------|----------|
| | | | | Ch. / Freq. | Ch. / Freq. | Ch. / Freq. | | |
| Channel | | | | 346000 | 349000 | 352000 | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1760 | | |
| 40 | QPSK | 1 | 1 | 19.63 | 19.77 | 19.62 | | |
| 40 | QPSK | 1 | 108 | 19.65 | 19.67 | 19.51 | 20.8 | 0.0 |
| 40 | QPSK | 1 | 214 | 19.56 | 19.60 | 19.57 | | |
| 40 | QPSK | 108 | 0 | 19.54 | 19.52 | 19.53 | 20.8 | 0.0 |
| 40 | QPSK | 108 | 54 | 19.52 | 19.62 | 19.61 | 20.8 | 0.0 |
| 40 | QPSK | 108 | 108 | 19.51 | 19.54 | 19.43 | 20.8 | 0.0 |
| 40 | QPSK | 216 | 0 | 19.51 | 19.61 | 19.55 | | |



n41 Ant 2 ECIS

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | Power High | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------|------------------|------------|---------------------|----------|
| | | | | Low Ch. Freq. | Middle Ch. Freq. | | | |
| Channel | | | | 2546.01 | 2592.99 | 2640 | | |
| Frequency (MHz) | | | | | | | | |
| 100 | QPSK | 1 | 1 | 17.52 | 17.67 | 17.62 | | |
| 100 | QPSK | 1 | 137 | 17.40 | 17.59 | 17.42 | 19.1 | 0.0 |
| 100 | QPSK | 1 | 271 | 17.50 | 17.57 | 17.46 | | |
| 100 | QPSK | 135 | 0 | 17.51 | 17.36 | 17.36 | 19.1 | 0.0 |
| 100 | QPSK | 135 | 69 | 17.46 | 17.85 | 17.53 | 19.1 | 0.0 |
| 100 | QPSK | 135 | 138 | 17.32 | 17.42 | 17.31 | | |
| 100 | QPSK | 270 | 0 | 17.35 | 17.51 | 17.45 | 19.1 | 0.0 |



n2 Ant 3 ECI5

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 1870 | 1880 | 1890 | | |
| 40 | QPSK | 1 | 1 | 21.35 | 21.53 | 21.44 | 22.7 | 0.0 |
| 40 | QPSK | 1 | 108 | 21.31 | 21.49 | 21.32 | | |
| 40 | QPSK | 1 | 214 | 21.27 | 21.41 | 21.26 | | |
| 40 | QPSK | 108 | 0 | 21.38 | 21.38 | 21.35 | 22.7 | 0.0 |
| 40 | QPSK | 108 | 54 | 21.27 | 21.41 | 21.32 | 22.7 | 0.0 |
| 40 | QPSK | 108 | 108 | 21.24 | 21.33 | 21.28 | 22.7 | 0.0 |
| 40 | QPSK | 216 | 0 | 21.29 | 21.38 | 21.30 | | |

n7 Ant 3 ECI5

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 505000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 20.36 | 20.43 | 20.35 | 21.7 | 0.0 |
| 50 | QPSK | 1 | 116 | 20.32 | 20.42 | 20.30 | | |
| 50 | QPSK | 1 | 268 | 20.24 | 20.35 | 20.10 | | |
| 50 | QPSK | 135 | 0 | 20.28 | 20.31 | 20.24 | 21.7 | 0.0 |
| 50 | QPSK | 135 | 68 | 20.19 | 20.42 | 20.32 | 21.7 | 0.0 |
| 50 | QPSK | 135 | 135 | 20.18 | 20.33 | 20.30 | 21.7 | 0.0 |
| 50 | QPSK | 270 | 0 | 20.27 | 20.30 | 20.18 | | |

n66 Ant 3 ECI5

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 346000 | 349000 | 352000 | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1760 | | |
| 40 | QPSK | 1 | 1 | 23.05 | 23.09 | 22.99 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 108 | 22.99 | 22.93 | 22.81 | | |
| 40 | QPSK | 1 | 214 | 22.75 | 22.97 | 22.86 | | |
| 40 | QPSK | 108 | 0 | 21.87 | 21.89 | 21.70 | 23.0 | 1.0 |
| 40 | QPSK | 108 | 54 | 22.82 | 23.10 | 22.83 | 24.0 | 0.0 |
| 40 | QPSK | 108 | 108 | 21.94 | 21.83 | 21.87 | 23.0 | 1.0 |
| 40 | QPSK | 216 | 0 | 21.78 | 21.95 | 21.68 | | |



| Part270 n77 HPUE Ant 4 ECI5 | | | | | | | |
|-----------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 650000 | Power High Ch. / Freq. 650000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 21.13 | 21.32 | 21.16 | |
| 100 | PI2 BPSK | 1 | 137 | 21.11 | 21.15 | 20.95 | |
| 100 | PI2 BPSK | 1 | 271 | 20.98 | 21.06 | 20.95 | |
| 100 | PI2 BPSK | 135 | 0 | 21.14 | 21.30 | 21.15 | 22.5 0.0 |
| 100 | PI2 BPSK | 135 | 69 | 21.14 | 21.31 | 21.12 | 22.5 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 21.10 | 21.11 | 20.91 | |
| 100 | PI2 BPSK | 270 | 0 | 20.94 | 21.07 | 20.95 | 22.5 0.0 |
| 100 | QPSK | 1 | 1 | 21.22 | 21.38 | 21.20 | |
| 100 | QPSK | 1 | 137 | 21.19 | 21.19 | 21.00 | 22.5 0.0 |
| 100 | QPSK | 1 | 271 | 21.02 | 21.13 | 21.01 | |
| 100 | QPSK | 135 | 0 | 21.17 | 21.32 | 21.14 | 22.5 0.0 |
| 100 | QPSK | 135 | 69 | 21.20 | 21.34 | 21.18 | 22.5 0.0 |
| 100 | QPSK | 135 | 138 | 21.16 | 21.11 | 20.98 | |
| 100 | QPSK | 270 | 0 | 20.94 | 21.18 | 20.92 | 22.5 0.0 |
| 100 | 16QAM | 1 | 1 | 21.20 | 21.32 | 21.11 | 22.5 0.0 |
| 100 | 64QAM | 1 | 1 | 21.10 | 21.12 | 20.98 | |
| 100 | 256QAM | 1 | 1 | 20.93 | 21.04 | 20.99 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 21.15 | 21.33 | 21.16 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 21.10 | 21.29 | 21.14 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 21.17 | 21.28 | 21.16 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 21.15 | 21.30 | 21.15 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 21.17 | 21.35 | 21.12 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 21.15 | 21.33 | 21.17 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 21.20 | 21.34 | 21.17 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 21.13 | 21.29 | 21.11 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 21.15 | 21.30 | 21.10 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 21.14 | 21.29 | 21.16 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 21.15 | 21.35 | 21.15 | 22.5 0.0 |

| Part270 n78 HPUE Ant 4 ECI5 | | | | | | | |
|-----------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 650000 | Power High Ch. / Freq. 650000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 21.24 | 21.24 | | |
| 100 | PI2 BPSK | 1 | 137 | 21.14 | | | 22.5 0.0 |
| 100 | PI2 BPSK | 1 | 271 | 21.22 | | | |
| 100 | PI2 BPSK | 135 | 0 | 21.28 | | | 22.5 0.0 |
| 100 | PI2 BPSK | 135 | 69 | 21.24 | | | 22.5 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 21.10 | | | |
| 100 | PI2 BPSK | 270 | 0 | 21.23 | | | 22.5 0.0 |
| 100 | QPSK | 1 | 1 | 21.33 | | | |
| 100 | QPSK | 1 | 137 | 21.17 | | | 22.5 0.0 |
| 100 | QPSK | 1 | 271 | 21.30 | | | |
| 100 | QPSK | 135 | 0 | 21.31 | | | 22.5 0.0 |
| 100 | QPSK | 135 | 69 | 21.26 | | | 22.5 0.0 |
| 100 | QPSK | 135 | 138 | 21.12 | | | 22.5 0.0 |
| 100 | QPSK | 270 | 0 | 21.22 | | | |
| 100 | 16QAM | 1 | 1 | 21.25 | | | 22.5 0.0 |
| 100 | 64QAM | 1 | 1 | 21.09 | | | 22.5 0.0 |
| 100 | 256QAM | 1 | 1 | 21.23 | | | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 21.28 | 21.28 | 21.21 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 21.23 | 21.23 | 21.29 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 21.22 | 21.27 | 21.23 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 21.28 | 21.22 | 21.27 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 21.25 | 21.22 | 21.26 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 21.21 | 21.25 | 21.29 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 21.25 | 21.28 | 21.22 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 21.22 | 21.22 | 21.28 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 21.22 | 21.28 | 21.23 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 21.23 | 21.26 | 21.28 | 22.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 21.27 | 21.24 | 21.28 | 22.5 0.0 |



| Part270 n77 HPUE Ant 6 ECIS | | | | | | | |
|-----------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 650000 | Power High Ch. / Freq. 650000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 17.55 | 17.55 | 17.52 | |
| 100 | PI2 BPSK | 1 | 137 | 17.52 | 17.52 | 17.50 | |
| 100 | PI2 BPSK | 1 | 271 | 17.40 | 17.55 | 17.45 | 19.1 0.0 |
| 100 | PI2 BPSK | 135 | 0 | 17.40 | 17.51 | 17.36 | 19.1 0.0 |
| 100 | PI2 BPSK | 135 | 69 | 17.43 | 17.41 | 17.29 | 19.1 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 17.36 | 17.47 | 17.36 | 19.1 0.0 |
| 100 | PI2 BPSK | 270 | 0 | 17.46 | 17.49 | 17.44 | 19.1 0.0 |
| 100 | QPSK | 1 | 1 | 17.57 | 17.75 | 17.50 | |
| 100 | QPSK | 1 | 137 | 17.60 | 17.62 | 17.62 | 19.1 0.0 |
| 100 | QPSK | 1 | 271 | 17.56 | 17.71 | 17.51 | |
| 100 | QPSK | 135 | 0 | 17.51 | 17.67 | 17.64 | 19.1 0.0 |
| 100 | QPSK | 135 | 69 | 17.62 | 17.69 | 17.57 | 19.1 0.0 |
| 100 | QPSK | 135 | 138 | 17.43 | 17.60 | 17.52 | |
| 100 | QPSK | 270 | 0 | 17.55 | 17.62 | 17.56 | 19.1 0.0 |
| 100 | 16QAM | 1 | 1 | 17.47 | 17.50 | 17.40 | 19.1 0.0 |
| 100 | 64QAM | 1 | 1 | 17.48 | 17.48 | 17.48 | 19.1 0.0 |
| 100 | 256QAM | 1 | 1 | 17.61 | 17.66 | 17.54 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 17.55 | 17.73 | 17.55 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 17.58 | 17.70 | 17.59 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 17.62 | 17.67 | 17.63 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 17.60 | 17.71 | 17.58 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 17.60 | 17.65 | 17.55 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 17.59 | 17.68 | 17.53 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 17.63 | 17.66 | 17.62 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 17.57 | 17.63 | 17.52 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 17.57 | 17.69 | 17.55 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 17.60 | 17.63 | 17.57 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 17.59 | 17.67 | 17.53 | 19.1 0.0 |

| Part270 n78 HPUE Ant 6 ECIS | | | | | | | |
|-----------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 650000 | Power High Ch. / Freq. 650000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 17.44 | 17.44 | 17.44 | |
| 100 | PI2 BPSK | 1 | 137 | 17.44 | 17.44 | 17.44 | |
| 100 | PI2 BPSK | 1 | 271 | 17.33 | 17.33 | 17.33 | 19.1 0.0 |
| 100 | PI2 BPSK | 135 | 0 | 17.38 | 17.38 | 17.38 | 19.1 0.0 |
| 100 | PI2 BPSK | 135 | 69 | 17.35 | 17.35 | 17.35 | 19.1 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 17.32 | 17.32 | 17.32 | 19.1 0.0 |
| 100 | PI2 BPSK | 270 | 0 | 17.37 | 17.37 | 17.37 | 19.1 0.0 |
| 100 | QPSK | 1 | 1 | 17.65 | 17.65 | 17.65 | |
| 100 | QPSK | 1 | 137 | 17.46 | 17.46 | 17.46 | 19.1 0.0 |
| 100 | QPSK | 1 | 271 | 17.40 | 17.40 | 17.40 | |
| 100 | QPSK | 135 | 0 | 17.60 | 17.60 | 17.60 | 19.1 0.0 |
| 100 | QPSK | 135 | 69 | 17.62 | 17.62 | 17.62 | 19.1 0.0 |
| 100 | QPSK | 135 | 138 | 17.46 | 17.46 | 17.46 | 19.1 0.0 |
| 100 | QPSK | 270 | 0 | 17.41 | 17.41 | 17.41 | 19.1 0.0 |
| 100 | 16QAM | 1 | 1 | 17.39 | 17.39 | 17.39 | 19.1 0.0 |
| 100 | 64QAM | 1 | 1 | 17.33 | 17.33 | 17.33 | 19.1 0.0 |
| 100 | 256QAM | 1 | 1 | 17.31 | 17.31 | 17.31 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 17.58 | 17.59 | 17.61 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 17.60 | 17.62 | 17.62 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 17.58 | 17.55 | 17.64 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 17.62 | 17.58 | 17.61 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 17.62 | 17.57 | 17.64 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 17.53 | 17.59 | 17.50 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 17.55 | 17.63 | 17.55 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 17.57 | 17.60 | 17.62 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 17.63 | 17.64 | 17.60 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 17.62 | 17.57 | 17.60 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 17.63 | 17.58 | 17.63 | 19.1 0.0 |



| Part270 n77 HPUE Ant 8 ECIS | | | | | | | |
|-----------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 656000 | Power High Ch. / Freq. 662000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 19.34 | 19.32 | 19.15 | |
| 100 | PI2 BPSK | 1 | 137 | 19.32 | 19.33 | 19.27 | 21.0 |
| 100 | PI2 BPSK | 1 | 271 | 19.27 | 19.25 | 19.32 | |
| 100 | PI2 BPSK | 135 | 0 | 19.28 | 19.36 | 19.11 | 21.0 |
| 100 | PI2 BPSK | 135 | 69 | 19.11 | 19.21 | 19.05 | 21.0 |
| 100 | PI2 BPSK | 135 | 138 | 19.19 | 19.19 | 19.04 | 21.0 |
| 100 | PI2 BPSK | 270 | 0 | 19.18 | 19.28 | 19.08 | 21.0 |
| 100 | QPSK | 1 | 1 | 19.25 | 19.53 | 19.37 | |
| 100 | QPSK | 1 | 137 | 19.34 | 19.31 | 19.33 | 21.0 |
| 100 | QPSK | 1 | 271 | 19.21 | 19.26 | 19.14 | |
| 100 | QPSK | 135 | 0 | 19.17 | 19.31 | 19.22 | 21.0 |
| 100 | QPSK | 135 | 69 | 19.28 | 19.42 | 19.24 | 21.0 |
| 100 | QPSK | 135 | 138 | 19.20 | 19.24 | 19.24 | 21.0 |
| 100 | QPSK | 270 | 0 | 19.20 | 19.33 | 19.16 | 21.0 |
| 100 | 16QAM | 1 | 1 | 19.21 | 19.25 | 19.18 | 21.0 |
| 100 | 64QAM | 1 | 1 | 19.13 | 19.12 | 19.18 | 21.0 |
| 100 | 256QAM | 1 | 1 | 19.05 | 19.02 | 19.07 | 20.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 19.06 | 19.03 | 19.13 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 19.06 | 19.03 | 19.13 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 19.10 | 19.10 | 19.10 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 19.10 | 19.05 | 19.07 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 19.11 | 19.08 | 19.12 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 19.04 | 19.08 | 19.09 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 19.10 | 19.09 | 19.13 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 19.07 | 19.07 | 19.10 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 19.08 | 19.02 | 19.12 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 19.06 | 19.10 | 19.07 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 19.10 | 19.05 | 19.12 | 21.0 |

| Part270 n78 HPUE Ant 8 ECIS | | | | | | | |
|-----------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 656000 | Power High Ch. / Freq. 662000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 19.35 | | | |
| 100 | PI2 BPSK | 1 | 137 | 19.44 | | | 21.0 |
| 100 | PI2 BPSK | 1 | 271 | 19.37 | | | |
| 100 | PI2 BPSK | 135 | 0 | 19.41 | | | 21.0 |
| 100 | PI2 BPSK | 135 | 69 | 19.18 | | | 21.0 |
| 100 | PI2 BPSK | 135 | 138 | 19.05 | | | 21.0 |
| 100 | PI2 BPSK | 270 | 0 | 19.31 | | | 21.0 |
| 100 | QPSK | 1 | 1 | 19.48 | | | |
| 100 | QPSK | 1 | 137 | 19.34 | | | 21.0 |
| 100 | QPSK | 1 | 271 | 19.12 | | | |
| 100 | QPSK | 135 | 0 | 19.33 | | | 21.0 |
| 100 | QPSK | 135 | 69 | 19.42 | | | 21.0 |
| 100 | QPSK | 135 | 138 | 19.28 | | | 21.0 |
| 100 | QPSK | 270 | 0 | 19.34 | | | 21.0 |
| 100 | 16QAM | 1 | 1 | 19.28 | | | 21.0 |
| 100 | 64QAM | 1 | 1 | 19.23 | | | 21.0 |
| 100 | 256QAM | 1 | 1 | 19.30 | | | 20.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 19.06 | 650000 | 650334 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 19.06 | 650000 | 650668 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 19.10 | 650000 | 651000 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 19.09 | 650000 | 651334 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 19.04 | 650000 | 651668 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 19.04 | 650000 | 652000 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 19.07 | 650000 | 652334 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 19.08 | 650000 | 652668 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 19.04 | 650000 | 653000 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 19.06 | 650000 | 653334 | 21.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 19.08 | 650000 | 653668 | 21.0 |



n2 Ant 0 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 190 | 180 | 180 | | |
| 40 | QPSK | 1 | 1 | 22.90 | 22.91 | 22.77 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 108 | 22.77 | 22.90 | 22.80 | | |
| 40 | QPSK | 1 | 214 | 22.75 | 22.79 | 22.78 | | |
| 40 | QPSK | 108 | 0 | 21.74 | 21.75 | 21.67 | 23.0 | 1.0 |
| 40 | QPSK | 108 | 54 | 22.73 | 22.85 | 22.70 | 24.0 | 0.0 |
| 40 | QPSK | 108 | 108 | 21.82 | 21.87 | 21.87 | | |
| 40 | QPSK | 216 | 0 | 21.71 | 21.77 | 21.72 | 23.0 | 1.0 |

Reduced Power Mode for ECI6

n5 Ant 0 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 166800 | 167300 | 167900 | | |
| Frequency (MHz) | | | | 834 | 836.5 | 832 | | |
| 20 | Pi/2 BPSK | 1 | 1 | 23.15 | 23.22 | 23.10 | 24.0 | 0.0 |
| 20 | Pi/2 BPSK | 1 | 53 | 23.07 | 23.06 | 23.14 | | |
| 20 | Pi/2 BPSK | 1 | 104 | 23.11 | 23.13 | 22.99 | | |
| 20 | Pi/2 BPSK | 50 | 0 | 22.54 | 22.81 | 22.59 | 23.5 | 0.5 |
| 20 | Pi/2 BPSK | 50 | 28 | 23.09 | 23.15 | 23.10 | 24.0 | 0.0 |
| 20 | Pi/2 BPSK | 50 | 56 | 22.87 | 22.53 | 22.41 | | |
| 20 | Pi/2 BPSK | 100 | 0 | 22.58 | 22.66 | 22.38 | 23.5 | 0.5 |
| 20 | QPSK | 1 | 1 | 23.06 | 23.22 | 22.96 | | |
| 20 | QPSK | 1 | 53 | 23.04 | 23.08 | 22.81 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 23.00 | 23.01 | 22.94 | | |
| 20 | QPSK | 50 | 0 | 21.84 | 21.93 | 21.73 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 23.02 | 23.11 | 22.92 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 21.86 | 22.02 | 21.81 | | |
| 20 | QPSK | 100 | 0 | 21.96 | 21.99 | 21.69 | 23.0 | 1.0 |
| 20 | 16QAM | 1 | 1 | 21.88 | 21.89 | 21.81 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.83 | 20.80 | 20.39 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 19.14 | 19.22 | 19.17 | 19.5 | 4.5 |
| Channel | | | | 166800 | 167300 | 168300 | | |
| Frequency (MHz) | | | | 831.5 | 836.5 | 841.5 | | |
| 15 | QPSK | 1 | 1 | 22.68 | 23.02 | 22.86 | 24.0 | 0.0 |
| Channel | | | | 165500 | 167500 | 169500 | | |
| Frequency (MHz) | | | | 829 | 836.5 | 844 | | |
| 10 | QPSK | 1 | 1 | 22.88 | 23.05 | 22.79 | 24.0 | 0.0 |
| Channel | | | | 165000 | 167300 | 169000 | | |
| Frequency (MHz) | | | | 826.5 | 836.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 22.87 | 23.06 | 22.85 | 24.0 | 0.0 |

n7 Ant 0 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 505000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 23.08 | 23.20 | 23.05 | 24.0 | 0.0 |
| 50 | QPSK | 1 | 135 | 23.07 | 23.19 | 22.94 | | |
| 50 | QPSK | 1 | 268 | 23.01 | 23.01 | 22.91 | | |
| 50 | QPSK | 135 | 0 | 21.92 | 21.97 | 21.81 | 23.0 | 1.0 |
| 50 | QPSK | 135 | 68 | 23.00 | 23.10 | 22.93 | 24.0 | 0.0 |
| 50 | QPSK | 135 | 135 | 21.95 | 21.95 | 21.81 | | |
| 50 | QPSK | 270 | 0 | 21.93 | 22.03 | 21.82 | 23.0 | 1.0 |



n26 Ant 0 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------|------------------|----------------|---------------------|----------|
| | | | | Low Ch / Freq | Middle Ch / Freq | High Ch / Freq | | |
| Channel | | | | 164300 | 166300 | 167800 | | |
| Frequency (MHz) | | | | 821.5 | 831.5 | 841.5 | | |
| 20 | PI2 BPSK | 1 | 1 | 23.01 | 23.05 | 23.09 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 53 | 23.11 | 23.11 | 23.11 | | |
| 20 | PI2 BPSK | 1 | 104 | 23.20 | 23.17 | 23.19 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.77 | 22.76 | 22.77 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 23.20 | 23.12 | 23.15 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 22.80 | 22.75 | 22.75 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 100 | 0 | 22.72 | 22.80 | 22.80 | | |
| 20 | QPSK | 1 | 1 | 23.25 | 23.27 | 23.22 | | |
| 20 | QPSK | 1 | 53 | 23.11 | 23.21 | 23.19 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 23.12 | 23.19 | 23.17 | | |
| 20 | QPSK | 50 | 0 | 22.12 | 22.21 | 22.16 | | |
| 20 | QPSK | 50 | 28 | 23.17 | 23.22 | 23.14 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 22.32 | 22.33 | 22.26 | 23.0 | 1.0 |
| 20 | QPSK | 100 | 0 | 22.29 | 22.33 | 22.29 | | |
| 20 | 16QAM | 1 | 1 | 21.80 | 21.83 | 21.80 | | |
| 20 | 64QAM | 1 | 1 | 20.52 | 20.58 | 20.48 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 19.05 | 19.16 | 19.14 | 19.5 | 4.5 |
| Channel | | | | 164300 | 166300 | 168300 | | |
| Frequency (MHz) | | | | 821.5 | 831.5 | 841.5 | | |
| 15 | QPSK | 1 | 1 | 23.15 | 23.26 | 23.20 | 24.0 | 0.0 |
| Channel | | | | 165300 | 167300 | 169300 | | |
| Frequency (MHz) | | | | 819 | 831.5 | 844 | | |
| 10 | QPSK | 1 | 1 | 23.23 | 23.22 | 23.12 | 24.0 | 0.0 |
| Channel | | | | 165300 | 167300 | 169300 | | |
| Frequency (MHz) | | | | 816.5 | 831.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 23.19 | 23.26 | 23.15 | 24.0 | 0.0 |

n66 Ant 0 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------|------------------|----------------|---------------------|----------|
| | | | | Low Ch / Freq | Middle Ch / Freq | High Ch / Freq | | |
| Channel | | | | 346000 | 349000 | 352000 | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1760 | | |
| 40 | QPSK | 1 | 1 | 22.87 | 22.95 | 22.83 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 108 | 22.81 | 22.80 | 22.68 | | |
| 40 | QPSK | 1 | 214 | 22.70 | 22.82 | 22.68 | | |
| 40 | QPSK | 108 | 0 | 21.67 | 21.76 | 21.58 | 23.0 | 1.0 |
| 40 | QPSK | 108 | 54 | 22.68 | 22.89 | 22.62 | 24.0 | 0.0 |
| 40 | QPSK | 108 | 108 | 21.89 | 21.71 | 21.65 | 23.0 | 1.0 |
| 40 | QPSK | 216 | 0 | 21.61 | 21.77 | 21.49 | | |



n38 Ant 0 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 518004 | 519000 | 519596 | | |
| Frequency (MHz) | | | | 2590.02 | 2595 | 2599.98 | | |
| 40 | QPSK | 1 | 11 | 23.19 | 23.24 | 23.15 | | |
| 40 | QPSK | 1 | 53 | 23.08 | 23.08 | 22.92 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 104 | 22.85 | 23.06 | 22.94 | | |
| 40 | QPSK | 50 | 0 | 22.00 | 22.05 | 21.78 | 23.0 | 1.0 |
| 40 | QPSK | 50 | 28 | 22.92 | 23.09 | 22.90 | 24.0 | 0.0 |
| 40 | QPSK | 50 | 56 | 21.95 | 21.97 | 21.90 | | |
| 40 | QPSK | 100 | 0 | 21.94 | 22.11 | 21.76 | 23.0 | 1.0 |

n41 Ant 0 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 509202 | 518598 | 528000 | | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | | |
| 100 | QPSK | 1 | 1 | 21.61 | 21.71 | 21.84 | | |
| 100 | QPSK | 1 | 137 | 21.64 | 21.65 | 21.61 | 23.0 | 0.0 |
| 100 | QPSK | 1 | 271 | 21.48 | 21.56 | 21.42 | | |
| 100 | QPSK | 135 | 0 | 21.48 | 21.53 | 21.48 | 23.0 | 0.0 |
| 100 | QPSK | 135 | 69 | 21.59 | 21.61 | 21.56 | 23.0 | 0.0 |
| 100 | QPSK | 135 | 138 | 21.37 | 21.45 | 21.33 | | |
| 100 | QPSK | 270 | 0 | 21.45 | 21.60 | 21.55 | 23.0 | 0.0 |



n2 Ant 1 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 1870 | 1880 | 1890 | | |
| 40 | QPSK | 1 | 1 | 23.17 | 23.19 | 23.10 | | |
| 40 | QPSK | 1 | 168 | 22.07 | 22.06 | 22.96 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 214 | 22.93 | 23.08 | 22.95 | | |
| 40 | QPSK | 108 | 0 | 21.95 | 22.02 | 21.83 | 23.0 | 1.0 |
| 40 | QPSK | 108 | 54 | 23.02 | 23.14 | 22.86 | 24.0 | 0.0 |
| 40 | QPSK | 168 | 168 | 21.95 | 21.92 | 21.87 | 23.0 | 1.0 |
| 40 | QPSK | 216 | 0 | 21.89 | 22.08 | 21.73 | | |

n5 Ant 1 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 168800 | 167300 | 167800 | | |
| Frequency (MHz) | | | | 834 | 836.5 | 839 | | |
| 20 | PI2 BPSK | 1 | 1 | 22.77 | 22.75 | 22.69 | | |
| 20 | PI2 BPSK | 1 | 53 | 22.80 | 22.83 | 22.74 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 104 | 22.81 | 22.84 | 22.43 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.07 | 22.12 | 22.08 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 22.81 | 22.88 | 22.62 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 21.82 | 22.03 | 21.89 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 100 | 0 | 22.10 | 22.28 | 22.02 | | |
| 20 | QPSK | 1 | 1 | 22.77 | 22.83 | 22.74 | | |
| 20 | QPSK | 1 | 53 | 22.80 | 22.88 | 22.48 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 22.81 | 22.78 | 22.83 | | |
| 20 | QPSK | 50 | 0 | 21.86 | 21.67 | 21.45 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 22.84 | 22.78 | 22.84 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 21.85 | 21.81 | 21.57 | 23.0 | 1.0 |
| 20 | QPSK | 100 | 0 | 21.52 | 21.63 | 21.45 | | |
| 20 | 16QAM | 1 | 1 | 21.48 | 21.55 | 21.47 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.21 | 20.21 | 20.08 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 18.79 | 18.85 | 18.83 | 19.5 | 4.5 |
| Channel | | | | 168300 | 167300 | 168300 | | |
| Frequency (MHz) | | | | 831.5 | 838.5 | 841.5 | | |
| 15 | QPSK | 1 | 1 | 22.64 | 22.85 | 22.64 | 24.0 | 0.0 |
| Channel | | | | 168500 | 167300 | 168800 | | |
| Frequency (MHz) | | | | 836 | 836.5 | 838 | | |
| 10 | QPSK | 1 | 1 | 22.58 | 22.71 | 22.56 | 24.0 | 0.0 |
| Channel | | | | 168300 | 167300 | 168300 | | |
| Frequency (MHz) | | | | 836.5 | 836.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 22.81 | 22.87 | 22.63 | 24.0 | 0.0 |

n7 Ant 1 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 558000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 22.87 | 22.86 | 22.78 | | |
| 50 | QPSK | 1 | 135 | 22.74 | 22.68 | 22.56 | 24.0 | 0.0 |
| 50 | QPSK | 1 | 268 | 22.55 | 22.85 | 22.53 | | |
| 50 | QPSK | 135 | 0 | 21.58 | 21.88 | 21.56 | 23.0 | 1.0 |
| 50 | QPSK | 135 | 68 | 22.87 | 22.76 | 22.62 | 24.0 | 0.0 |
| 50 | QPSK | 135 | 135 | 21.67 | 21.83 | 21.61 | 23.0 | 1.0 |
| 50 | QPSK | 270 | 0 | 21.50 | 21.56 | 21.37 | | |



n26 Ant 1 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|--------------------|--------------------|--------------------|---------------------|----------|
| | | | | Ch. / Freq. 164800 | Ch. / Freq. 166300 | Ch. / Freq. 167800 | | |
| Channel | | | | 824 | 831.5 | 839 | | |
| Frequency (MHz) | | | | | | | | |
| 20 | PI2 BPSK | 1 | 1 | 22.71 | 22.77 | 22.69 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 59 | 22.73 | 22.83 | 22.73 | | |
| 20 | PI2 BPSK | 1 | 104 | 22.76 | 22.85 | 22.81 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.36 | 22.41 | 22.32 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 22.80 | 22.85 | 22.83 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 22.32 | 22.41 | 22.31 | | |
| 20 | PI2 BPSK | 100 | 0 | 22.29 | 22.39 | 22.34 | 23.5 | 0.5 |
| 20 | QPSK | 1 | 1 | 22.81 | 22.88 | 22.82 | | |
| 20 | QPSK | 1 | 53 | 22.81 | 22.85 | 22.78 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 22.78 | 22.81 | 22.71 | | |
| 20 | QPSK | 50 | 0 | 21.80 | 21.88 | 21.87 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 22.76 | 22.83 | 22.76 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 21.89 | 21.95 | 21.90 | | |
| 20 | QPSK | 100 | 0 | 21.82 | 21.83 | 21.87 | 23.0 | 1.0 |
| 20 | 16QAM | 1 | 1 | 21.47 | 21.55 | 21.52 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.12 | 20.15 | 20.10 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 18.66 | 18.75 | 18.74 | 19.5 | 4.5 |
| Channel | | | | 164300 | 165300 | 166300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 811.5 | 811.5 | 811.5 | | |
| 15 | QPSK | 1 | 1 | 22.71 | 22.83 | 22.73 | 24.0 | 0.0 |
| Channel | | | | 163800 | 165300 | 166800 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 819 | 831.5 | 844 | | |
| 10 | QPSK | 1 | 1 | 22.72 | 22.83 | 22.76 | 24.0 | 0.0 |
| Channel | | | | 163300 | 165300 | 165300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 816.5 | 831.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 22.78 | 22.87 | 22.78 | 24.0 | 0.0 |

n66 Ant 1 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|--------------------|--------------------|--------------------|---------------------|----------|
| | | | | Ch. / Freq. 346000 | Ch. / Freq. 349000 | Ch. / Freq. 352000 | | |
| Channel | | | | 1730 | 1745 | 1760 | | |
| Frequency (MHz) | | | | | | | | |
| 40 | QPSK | 1 | 1 | 23.30 | 23.38 | 23.25 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 109 | 23.14 | 23.19 | 23.08 | | |
| 40 | QPSK | 1 | 214 | 23.11 | 23.25 | 22.97 | | |
| 40 | QPSK | 108 | 0 | 22.06 | 22.04 | 21.89 | 23.0 | 1.0 |
| 40 | QPSK | 108 | 54 | 23.21 | 23.27 | 23.01 | 24.0 | 0.0 |
| 40 | QPSK | 108 | 108 | 22.18 | 22.12 | 22.01 | | |
| 40 | QPSK | 216 | 0 | 21.96 | 22.13 | 21.93 | 23.0 | 1.0 |



n38 Ant 1 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 518004 | 519000 | 519996 | | |
| Frequency (MHz) | | | | 2590.02 | 2595 | 2599.98 | | |
| 40 | QPSK | 1 | 11 | 22.93 | 22.98 | 22.74 | | |
| 40 | QPSK | 1 | 53 | 22.85 | 22.77 | 22.85 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 104 | 22.73 | 22.83 | 22.72 | | |
| 40 | QPSK | 50 | 0 | 21.70 | 21.77 | 21.52 | 23.0 | 1.0 |
| 40 | QPSK | 50 | 28 | 22.79 | 22.88 | 22.64 | 24.0 | 0.0 |
| 40 | QPSK | 50 | 56 | 21.77 | 21.73 | 21.63 | | |
| 40 | QPSK | 100 | 0 | 21.57 | 21.70 | 21.52 | 23.0 | 1.0 |

n41 Ant 1 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 509202 | 518598 | 528000 | | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | | |
| 100 | QPSK | 1 | 1 | 21.61 | 21.63 | 21.48 | | |
| 100 | QPSK | 1 | 137 | 21.46 | 21.55 | 21.46 | 23.0 | 0.0 |
| 100 | QPSK | 1 | 271 | 21.33 | 21.51 | 21.33 | | |
| 100 | QPSK | 135 | 0 | 21.38 | 21.45 | 21.38 | 23.0 | 0.0 |
| 100 | QPSK | 135 | 69 | 21.46 | 21.58 | 21.48 | 23.0 | 0.0 |
| 100 | QPSK | 135 | 138 | 21.41 | 21.37 | 21.29 | | |
| 100 | QPSK | 270 | 0 | 21.38 | 21.46 | 21.38 | 23.0 | 0.0 |



n2 Ant 2 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 1870 | 1880 | 1890 | | |
| Frequency (MHz) | | | | | | | | |
| 40 | QPSK | 1 | 1 | 19.80 | 19.93 | 19.75 | 21.1 | 0.0 |
| 40 | QPSK | 1 | 108 | 19.96 | 19.73 | 19.80 | | |
| 40 | QPSK | 1 | 214 | 19.55 | 19.79 | 19.46 | | |
| 40 | QPSK | 108 | 0 | 19.58 | 19.66 | 19.38 | 21.1 | 0.0 |
| 40 | QPSK | 108 | 54 | 19.71 | 19.86 | 19.25 | 21.1 | 0.0 |
| 40 | QPSK | 108 | 108 | 19.83 | 19.59 | 19.24 | 21.1 | 0.0 |
| 40 | QPSK | 216 | 0 | 19.41 | 19.71 | 19.28 | | |

n7 Ant 2 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 2525 | 2535 | 2545 | | |
| Frequency (MHz) | | | | | | | | |
| 50 | QPSK | 1 | 1 | 21.31 | 21.36 | 21.21 | 22.6 | 0.0 |
| 50 | QPSK | 1 | 135 | 21.23 | 21.13 | 21.07 | | |
| 50 | QPSK | 1 | 268 | 21.05 | 21.23 | 21.02 | | |
| 50 | QPSK | 135 | 0 | 20.92 | 21.14 | 20.93 | 22.6 | 0.0 |
| 50 | QPSK | 135 | 68 | 21.18 | 21.26 | 20.97 | 22.6 | 0.0 |
| 50 | QPSK | 135 | 135 | 21.04 | 21.20 | 21.08 | 22.6 | 0.0 |
| 50 | QPSK | 270 | 0 | 20.98 | 21.12 | 20.88 | | |

n66 Ant 2 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 1730 | 1745 | 1760 | | |
| Frequency (MHz) | | | | | | | | |
| 40 | QPSK | 1 | 1 | 20.71 | 20.74 | 20.59 | 21.9 | 0.0 |
| 40 | QPSK | 1 | 108 | 20.50 | 20.83 | 20.58 | | |
| 40 | QPSK | 1 | 214 | 20.45 | 20.48 | 20.50 | | |
| 40 | QPSK | 108 | 0 | 20.60 | 20.51 | 20.45 | 21.9 | 0.0 |
| 40 | QPSK | 108 | 54 | 20.60 | 20.73 | 20.47 | 21.9 | 0.0 |
| 40 | QPSK | 108 | 108 | 20.49 | 20.54 | 20.35 | 21.9 | 0.0 |
| 40 | QPSK | 216 | 0 | 20.39 | 20.52 | 20.31 | | |



n41 Ant 2 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 2546.01 | 2592.99 | 2640 | | |
| Frequency (MHz) | | | | | | | | |
| 100 | QPSK | 1 | 1 | 20.65 | 20.66 | 20.49 | | |
| 100 | QPSK | 1 | 137 | 20.56 | 20.51 | 20.38 | 21.6 | 0.0 |
| 100 | QPSK | 1 | 271 | 20.48 | 20.44 | 20.37 | | |
| 100 | QPSK | 135 | 0 | 20.54 | 20.32 | 20.28 | 21.6 | 0.0 |
| 100 | QPSK | 135 | 69 | 20.40 | 20.35 | 20.32 | 21.6 | 0.0 |
| 100 | QPSK | 135 | 138 | 20.49 | 20.48 | 20.45 | | |
| 100 | QPSK | 270 | 0 | 20.57 | 20.58 | 20.44 | 21.6 | 0.0 |



n2 Ant 3 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 1870 | 1880 | 1890 | | |
| 40 | QPSK | 1 | 1 | 22.62 | 22.86 | 22.84 | 23.6 | 0.0 |
| 40 | QPSK | 1 | 108 | 22.61 | 22.83 | 22.59 | | |
| 40 | QPSK | 1 | 214 | 22.47 | 22.59 | 22.39 | | |
| 40 | QPSK | 108 | 0 | 21.98 | 22.02 | 21.81 | 23.0 | 0.6 |
| 40 | QPSK | 108 | 54 | 22.50 | 22.59 | 22.55 | 23.6 | 0.0 |
| 40 | QPSK | 108 | 108 | 22.02 | 22.02 | 21.88 | 23.0 | 0.6 |
| 40 | QPSK | 216 | 0 | 22.03 | 22.08 | 21.98 | | |

n7 Ant 3 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 505000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 18.11 | 18.27 | 18.10 | 19.3 | 0.0 |
| 50 | QPSK | 1 | 135 | 18.13 | 18.06 | 17.88 | | |
| 50 | QPSK | 1 | 268 | 17.89 | 18.01 | 17.86 | | |
| 50 | QPSK | 135 | 0 | 17.97 | 18.02 | 17.74 | 19.3 | 0.0 |
| 50 | QPSK | 135 | 68 | 17.93 | 18.11 | 17.94 | 19.3 | 0.0 |
| 50 | QPSK | 135 | 135 | 18.01 | 18.05 | 17.92 | | |
| 50 | QPSK | 270 | 0 | 17.91 | 18.10 | 18.00 | 19.3 | 0.0 |

n66 Ant 3 ECI 6

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 346000 | 348000 | 350000 | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1760 | | |
| 40 | QPSK | 1 | 1 | 21.61 | 21.63 | 21.53 | 22.9 | 0.0 |
| 40 | QPSK | 1 | 108 | 21.54 | 21.40 | 21.27 | | |
| 40 | QPSK | 1 | 214 | 21.21 | 21.45 | 21.33 | | |
| 40 | QPSK | 108 | 0 | 21.35 | 21.42 | 21.14 | 22.9 | 0.0 |
| 40 | QPSK | 108 | 54 | 21.32 | 21.55 | 21.26 | 22.9 | 0.0 |
| 40 | QPSK | 108 | 108 | 21.34 | 21.31 | 21.39 | | |
| 40 | QPSK | 216 | 0 | 21.38 | 21.40 | 21.10 | 22.9 | 0.0 |



| n41 Ant 3 ECI 6 | | | | | | | |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|----------|
| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | MPR (dB) |
| 100 | QPSK | 1 | 1 | 19.10 | 19.18 | 19.07 | |
| 100 | QPSK | 1 | 137 | 18.98 | 19.01 | 18.88 | 20.1 |
| 100 | QPSK | 1 | 271 | 18.93 | 19.02 | 18.83 | 20.1 |
| 100 | QPSK | 135 | 0 | 18.92 | 18.96 | 18.69 | 20.1 |
| 100 | QPSK | 135 | 69 | 18.88 | 18.99 | 18.73 | 20.1 |
| 100 | QPSK | 135 | 138 | 18.84 | 18.94 | 18.75 | 20.1 |
| 100 | QPSK | 270 | 0 | 18.84 | 19.02 | 18.73 | 20.1 |

| Part270 n77 HPUE Ant 3 ECI 6 | | | | | | | |
|------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|----------|
| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | MPR (dB) |
| 100 | PI2 BPSK | 1 | 1 | 22.54 | 22.73 | 22.36 | |
| 100 | PI2 BPSK | 1 | 137 | 22.45 | 22.41 | 22.41 | 23.9 |
| 100 | PI2 BPSK | 1 | 271 | 22.17 | 22.50 | 22.23 | 23.9 |
| 100 | PI2 BPSK | 135 | 0 | 22.57 | 22.75 | 22.43 | 23.9 |
| 100 | PI2 BPSK | 135 | 69 | 22.57 | 22.75 | 22.36 | 23.9 |
| 100 | PI2 BPSK | 135 | 138 | 22.40 | 22.39 | 22.37 | 23.9 |
| 100 | PI2 BPSK | 270 | 0 | 22.14 | 22.50 | 22.32 | 23.9 |
| 100 | QPSK | 1 | 1 | 22.61 | 22.77 | 22.44 | |
| 100 | QPSK | 1 | 137 | 22.49 | 22.44 | 22.43 | 23.9 |
| 100 | QPSK | 1 | 271 | 22.23 | 22.56 | 22.34 | 23.9 |
| 100 | QPSK | 135 | 0 | 22.51 | 22.67 | 22.36 | 23.9 |
| 100 | QPSK | 135 | 69 | 22.51 | 22.72 | 22.41 | 23.9 |
| 100 | QPSK | 135 | 138 | 22.44 | 22.37 | 22.36 | 23.9 |
| 100 | QPSK | 270 | 0 | 22.15 | 22.66 | 22.29 | 23.9 |
| 100 | 16QAM | 1 | 1 | 22.52 | 22.67 | 22.37 | 23.9 |
| 100 | 64QAM | 1 | 1 | 22.45 | 22.34 | 22.41 | 23.9 |
| 100 | 256QAM | 1 | 1 | 21.50 | 21.61 | 21.61 | 23.0 |
| 90 | QPSK | 1 | 1 | 22.60 | 22.68 | 22.40 | 23.9 |
| 80 | QPSK | 1 | 1 | 22.51 | 22.71 | 22.55 | 23.9 |
| 70 | QPSK | 1 | 1 | 22.80 | 22.70 | 22.34 | 23.9 |
| 60 | QPSK | 1 | 1 | 22.54 | 22.74 | 22.42 | 23.9 |
| 50 | QPSK | 1 | 1 | 22.50 | 22.71 | 22.41 | 23.9 |
| 40 | QPSK | 1 | 1 | 22.52 | 22.74 | 22.39 | 23.9 |
| 30 | QPSK | 1 | 1 | 22.58 | 22.69 | 22.39 | 23.9 |
| 25 | QPSK | 1 | 1 | 22.56 | 22.76 | 22.33 | 23.9 |
| 20 | QPSK | 1 | 1 | 22.57 | 22.69 | 22.35 | 23.9 |
| 15 | QPSK | 1 | 1 | 22.58 | 22.70 | 22.34 | 23.9 |
| 10 | QPSK | 1 | 1 | 22.57 | 22.67 | 22.39 | 23.9 |

| Part270 n78 HPUE Ant 3 ECI 6 | | | | | | | |
|------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|----------|
| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | MPR (dB) |
| 100 | PI2 BPSK | 1 | 1 | 22.54 | 22.73 | 22.36 | |
| 100 | PI2 BPSK | 1 | 137 | 22.45 | 22.41 | 22.41 | 23.9 |
| 100 | PI2 BPSK | 1 | 271 | 22.17 | 22.50 | 22.23 | 23.9 |
| 100 | PI2 BPSK | 135 | 0 | 22.57 | 22.75 | 22.43 | 23.9 |
| 100 | PI2 BPSK | 135 | 69 | 22.57 | 22.75 | 22.36 | 23.9 |
| 100 | PI2 BPSK | 135 | 138 | 22.40 | 22.39 | 22.37 | 23.9 |
| 100 | PI2 BPSK | 270 | 0 | 22.14 | 22.50 | 22.32 | 23.9 |
| 100 | QPSK | 1 | 1 | 22.61 | 22.77 | 22.44 | |
| 100 | QPSK | 1 | 137 | 22.49 | 22.44 | 22.43 | 23.9 |
| 100 | QPSK | 1 | 271 | 22.23 | 22.56 | 22.34 | 23.9 |
| 100 | QPSK | 135 | 0 | 22.51 | 22.67 | 22.36 | 23.9 |
| 100 | QPSK | 135 | 69 | 22.51 | 22.72 | 22.41 | 23.9 |
| 100 | QPSK | 135 | 138 | 22.44 | 22.37 | 22.36 | 23.9 |
| 100 | QPSK | 270 | 0 | 22.15 | 22.66 | 22.29 | 23.9 |
| 100 | 16QAM | 1 | 1 | 22.52 | 22.67 | 22.37 | 23.9 |
| 100 | 64QAM | 1 | 1 | 22.45 | 22.34 | 22.41 | 23.9 |
| 100 | 256QAM | 1 | 1 | 21.50 | 21.61 | 21.61 | 23.0 |
| 90 | QPSK | 1 | 1 | 22.60 | 22.68 | 22.40 | 23.9 |
| 80 | QPSK | 1 | 1 | 22.51 | 22.71 | 22.55 | 23.9 |
| 70 | QPSK | 1 | 1 | 22.80 | 22.70 | 22.34 | 23.9 |
| 60 | QPSK | 1 | 1 | 22.54 | 22.74 | 22.42 | 23.9 |
| 50 | QPSK | 1 | 1 | 22.50 | 22.71 | 22.41 | 23.9 |
| 40 | QPSK | 1 | 1 | 22.52 | 22.74 | 22.39 | 23.9 |
| 30 | QPSK | 1 | 1 | 22.58 | 22.69 | 22.39 | 23.9 |
| 25 | QPSK | 1 | 1 | 22.56 | 22.76 | 22.33 | 23.9 |
| 20 | QPSK | 1 | 1 | 22.57 | 22.69 | 22.35 | 23.9 |
| 15 | QPSK | 1 | 1 | 22.58 | 22.70 | 22.34 | 23.9 |
| 10 | QPSK | 1 | 1 | 22.46 | 22.47 | 22.54 | 23.9 |



| Part270 n77 HPUE Ant 4 ECI 6 | | | | | | | |
|------------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 656000 | Power High Ch. / Freq. 662000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 17.66 | 17.73 | 17.82 | |
| 100 | PI2 BPSK | 1 | 137 | 17.55 | 17.64 | 17.43 | |
| 100 | PI2 BPSK | 1 | 271 | 17.49 | 17.57 | 17.47 | |
| 100 | PI2 BPSK | 135 | 0 | 17.59 | 17.77 | 17.70 | 19.1 0.0 |
| 100 | PI2 BPSK | 135 | 69 | 17.63 | 17.73 | 17.81 | 19.1 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 17.59 | 17.60 | 17.40 | |
| 100 | PI2 BPSK | 270 | 0 | 17.47 | 17.60 | 17.51 | 19.1 0.0 |
| 100 | QPSK | 1 | 1 | 17.68 | 17.83 | 17.72 | |
| 100 | QPSK | 1 | 137 | 17.62 | 17.70 | 17.46 | 19.1 0.0 |
| 100 | QPSK | 1 | 271 | 17.53 | 17.64 | 17.53 | |
| 100 | QPSK | 135 | 0 | 17.63 | 17.72 | 17.70 | 19.1 0.0 |
| 100 | QPSK | 135 | 69 | 17.62 | 17.74 | 17.65 | 19.1 0.0 |
| 100 | QPSK | 135 | 138 | 17.56 | 17.62 | 17.38 | |
| 100 | QPSK | 270 | 0 | 17.43 | 17.57 | 17.45 | 19.1 0.0 |
| 100 | 16QAM | 1 | 1 | 17.63 | 17.81 | 17.67 | 19.1 0.0 |
| 100 | 64QAM | 1 | 1 | 17.58 | 17.85 | 17.43 | |
| 100 | 256QAM | 1 | 1 | 17.47 | 17.59 | 17.51 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 17.61 | 17.72 | 17.61 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 17.63 | 17.77 | 17.44 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 17.65 | 17.78 | 17.63 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 17.66 | 17.80 | 17.67 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 17.61 | 17.73 | 17.61 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 17.69 | 17.75 | 17.62 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 17.66 | 17.82 | 17.88 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 17.65 | 17.74 | 17.67 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 17.64 | 17.78 | 17.83 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 17.67 | 17.73 | 17.65 | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 17.61 | 17.82 | 17.70 | 19.1 0.0 |

| Part270 n78 HPUE Ant 4 ECI 6 | | | | | | | |
|------------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|------------------------------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 656000 | Power High Ch. / Freq. 662000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 17.75 | | | |
| 100 | PI2 BPSK | 1 | 137 | 17.49 | | | 19.1 0.0 |
| 100 | PI2 BPSK | 1 | 271 | 17.51 | | | |
| 100 | PI2 BPSK | 135 | 0 | 17.72 | | | 19.1 0.0 |
| 100 | PI2 BPSK | 135 | 69 | 17.81 | | | 19.1 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 17.60 | | | |
| 100 | PI2 BPSK | 270 | 0 | 17.59 | | | 19.1 0.0 |
| 100 | QPSK | 1 | 1 | 17.81 | | | |
| 100 | QPSK | 1 | 137 | 17.83 | | | 19.1 0.0 |
| 100 | QPSK | 1 | 271 | 17.60 | | | |
| 100 | QPSK | 135 | 0 | 17.65 | | | 19.1 0.0 |
| 100 | QPSK | 135 | 69 | 17.70 | | | 19.1 0.0 |
| 100 | QPSK | 135 | 138 | 17.59 | | | 19.1 0.0 |
| 100 | QPSK | 270 | 0 | 17.52 | | | |
| 100 | 16QAM | 1 | 1 | 17.71 | | | 19.1 0.0 |
| 100 | 64QAM | 1 | 1 | 17.61 | | | 19.1 0.0 |
| 100 | 256QAM | 1 | 1 | 17.62 | | | 19.1 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 17.69 | 650000 | 650334 | Tune-up limit (dBm) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 17.73 | 650000 | 650668 | Tune-up limit (dBm) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 17.76 | 650000 | 651002 | Tune-up limit (dBm) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 17.70 | 650000 | 651336 | Tune-up limit (dBm) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 17.74 | 650000 | 651670 | Tune-up limit (dBm) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 17.69 | 650000 | 652004 | Tune-up limit (dBm) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 17.75 | 650000 | 652338 | Tune-up limit (dBm) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 17.69 | 650000 | 652672 | Tune-up limit (dBm) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 17.75 | 650000 | 653006 | Tune-up limit (dBm) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 17.74 | 650000 | 653340 | Tune-up limit (dBm) MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 17.70 | 650000 | 653674 | Tune-up limit (dBm) MPR (dB) |



| Part270 n77 Ant 6 ECI 6 | | | | | | | | | |
|-------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 650000 | Power High Ch. / Freq. 662000 | Tune-up limit (dBm) | MPR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 19.02 | 19.11 | 19.05 | | | |
| 100 | PI2 BPSK | 1 | 137 | 18.08 | 18.13 | 18.12 | 20.5 | 0.0 | |
| 100 | PI2 BPSK | 1 | 271 | 18.93 | 19.10 | 18.88 | | | |
| 100 | PI2 BPSK | 135 | 0 | 18.96 | 18.94 | 18.86 | 20.5 | 0.0 | |
| 100 | PI2 BPSK | 135 | 69 | 18.98 | 18.94 | 18.78 | 20.5 | 0.0 | |
| 100 | PI2 BPSK | 135 | 138 | 18.91 | 19.00 | 18.92 | 20.5 | 0.0 | |
| 100 | PI2 BPSK | 270 | 0 | 18.88 | 19.01 | 18.92 | 20.5 | 0.0 | |
| 100 | QPSK | 1 | 1 | 19.10 | 19.23 | 19.06 | | | |
| 100 | QPSK | 1 | 137 | 19.08 | 19.13 | 19.19 | 20.5 | 0.0 | |
| 100 | QPSK | 1 | 271 | 19.07 | 19.22 | 19.06 | | | |
| 100 | QPSK | 135 | 0 | 19.05 | 19.11 | 19.12 | 20.5 | 0.0 | |
| 100 | QPSK | 135 | 69 | 19.12 | 19.18 | 19.08 | 20.5 | 0.0 | |
| 100 | QPSK | 135 | 138 | 19.00 | 19.10 | 19.03 | 20.5 | 0.0 | |
| 100 | QPSK | 270 | 0 | 18.11 | 18.14 | 18.06 | 20.5 | 0.0 | |
| 100 | 16QAM | 1 | 1 | 18.97 | 18.96 | 18.91 | 20.5 | 0.0 | |
| 100 | 64QAM | 1 | 1 | 18.88 | 19.02 | 18.94 | 20.5 | 0.0 | |
| 100 | 256QAM | 1 | 1 | 18.98 | 19.07 | 18.97 | 20.5 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 90 | QPSK | 1 | 1 | 19.01 | 19.13 | 19.03 | 20.5 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 80 | QPSK | 1 | 1 | 19.07 | 19.19 | 18.99 | 20.5 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 70 | QPSK | 1 | 1 | 19.02 | 19.17 | 18.95 | 20.5 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 60 | QPSK | 1 | 1 | 19.01 | 19.12 | 18.98 | 20.5 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 50 | QPSK | 1 | 1 | 19.06 | 19.14 | 18.98 | 20.5 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 40 | QPSK | 1 | 1 | 19.07 | 19.17 | 18.95 | 20.5 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 30 | QPSK | 1 | 1 | 19.01 | 19.19 | 18.97 | 20.5 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 25 | QPSK | 1 | 1 | 19.00 | 19.19 | 19.02 | 20.5 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 1 | 19.02 | 19.13 | 18.95 | 20.5 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 15 | QPSK | 1 | 1 | 19.00 | 19.19 | 19.02 | 20.5 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 10 | QPSK | 1 | 1 | 19.01 | 19.19 | 19.00 | 20.5 | 0.0 | |

| Part270 n78 Ant 6 ECI 6 | | | | | | | | | |
|-------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 650000 | Power High Ch. / Freq. 650000 | Tune-up limit (dBm) | MPR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | | | 18.94 | | | |
| 100 | PI2 BPSK | 1 | 137 | | | 18.99 | 20.5 | 0.0 | |
| 100 | PI2 BPSK | 1 | 271 | | | 18.81 | | | |
| 100 | PI2 BPSK | 135 | 0 | | | 18.78 | 20.5 | 0.0 | |
| 100 | PI2 BPSK | 135 | 69 | | | 18.94 | 20.5 | 0.0 | |
| 100 | PI2 BPSK | 135 | 138 | | | 18.83 | 20.5 | 0.0 | |
| 100 | PI2 BPSK | 270 | 0 | | | 18.83 | 20.5 | 0.0 | |
| 100 | QPSK | 1 | 1 | | | 19.16 | | | |
| 100 | QPSK | 1 | 137 | | | 19.00 | 20.5 | 0.0 | |
| 100 | QPSK | 1 | 271 | | | 18.98 | | | |
| 100 | QPSK | 135 | 0 | | | 19.02 | 20.5 | 0.0 | |
| 100 | QPSK | 135 | 69 | | | 19.07 | 20.5 | 0.0 | |
| 100 | QPSK | 135 | 138 | | | 18.83 | 20.5 | 0.0 | |
| 100 | QPSK | 270 | 0 | | | 18.96 | 20.5 | 0.0 | |
| 100 | 16QAM | 1 | 1 | | | 19.92 | 20.5 | 0.0 | |
| 100 | 64QAM | 1 | 1 | | | 18.80 | 20.5 | 0.0 | |
| 100 | 256QAM | 1 | 1 | | | 19.02 | 20.5 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 90 | QPSK | 1 | 1 | 64988 | 65000 | 65034 | MPR | | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 80 | QPSK | 1 | 1 | 64934 | 65000 | 65068 | MPR | | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 70 | QPSK | 1 | 1 | 64934 | 65000 | 65068 | MPR | | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 60 | QPSK | 1 | 1 | 64834 | 65000 | 65168 | MPR | | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 50 | QPSK | 1 | 1 | 64800 | 65000 | 65100 | MPR | | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 40 | QPSK | 1 | 1 | 64768 | 65000 | 65234 | MPR | | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 30 | QPSK | 1 | 1 | 64768 | 65000 | 65234 | MPR | | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 25 | QPSK | 1 | 1 | 64734 | 65000 | 65268 | MPR | | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 1 | 64734 | 65000 | 65268 | MPR | | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 15 | QPSK | 1 | 1 | 64700 | 65000 | 65300 | MPR | | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 10 | QPSK | 1 | 1 | 64700 | 65000 | 65300 | MPR | | |



| Part270 n77 Ant 8 ECI 6 | | | | | | | |
|-------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 656000 | Power High Ch. / Freq. 662000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 17.77 | 17.84 | 17.61 | |
| 100 | PI2 BPSK | 1 | 137 | 17.80 | 17.90 | 17.76 | 19.5 |
| 100 | PI2 BPSK | 1 | 271 | 17.76 | 17.76 | 17.80 | 0.0 |
| 100 | PI2 BPSK | 135 | 0 | 17.75 | 17.81 | 17.59 | 19.5 |
| 100 | PI2 BPSK | 135 | 69 | 17.67 | 17.88 | 17.55 | 19.5 |
| 100 | PI2 BPSK | 135 | 138 | 17.86 | 17.69 | 17.56 | 19.5 |
| 100 | PI2 BPSK | 270 | 0 | 17.72 | 17.80 | 17.67 | 0.0 |
| 100 | QPSK | 1 | 1 | 17.84 | 18.04 | 17.92 | |
| 100 | QPSK | 1 | 137 | 17.84 | 17.91 | 17.82 | 19.5 |
| 100 | QPSK | 1 | 271 | 17.67 | 17.78 | 17.60 | 0.0 |
| 100 | QPSK | 135 | 0 | 17.70 | 17.82 | 17.72 | 19.5 |
| 100 | QPSK | 135 | 69 | 17.83 | 17.93 | 17.66 | 19.5 |
| 100 | QPSK | 135 | 138 | 17.76 | 17.78 | 17.73 | 0.0 |
| 100 | QPSK | 270 | 0 | 17.77 | 17.90 | 17.66 | 19.5 |
| 100 | 16QAM | 1 | 1 | 17.77 | 17.77 | 17.65 | 19.5 |
| 100 | 64QAM | 1 | 1 | 17.68 | 17.62 | 17.67 | 19.5 |
| 100 | 256QAM | 1 | 1 | 17.70 | 17.76 | 17.72 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 17.78 | 17.93 | 17.88 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 17.76 | 17.97 | 17.63 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 17.75 | 18.01 | 17.65 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 17.80 | 17.94 | 17.89 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 17.83 | 17.99 | 17.81 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 17.75 | 17.85 | 17.60 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 17.77 | 17.99 | 17.84 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 17.80 | 17.94 | 17.84 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 17.74 | 18.02 | 17.61 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 17.75 | 18.00 | 17.65 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 17.76 | 18.00 | 17.83 | 19.5 |

| Part270 n78 Ant 8 ECI 6 | | | | | | | |
|-------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 656000 | Power High Ch. / Freq. 662000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 17.84 | 17.84 | 17.84 | |
| 100 | PI2 BPSK | 1 | 137 | 17.81 | 17.91 | 17.91 | 19.5 |
| 100 | PI2 BPSK | 1 | 271 | 17.88 | 17.88 | 17.88 | 0.0 |
| 100 | PI2 BPSK | 135 | 0 | 17.89 | 17.89 | 17.89 | 19.5 |
| 100 | PI2 BPSK | 135 | 69 | 17.70 | 17.70 | 17.70 | 19.5 |
| 100 | PI2 BPSK | 135 | 138 | 17.84 | 17.84 | 17.84 | 19.5 |
| 100 | PI2 BPSK | 270 | 0 | 17.84 | 17.84 | 17.84 | 0.0 |
| 100 | QPSK | 1 | 1 | 18.01 | 18.01 | 18.01 | |
| 100 | QPSK | 1 | 137 | 17.84 | 17.84 | 17.84 | 19.5 |
| 100 | QPSK | 1 | 271 | 17.66 | 17.66 | 17.66 | 0.0 |
| 100 | QPSK | 135 | 0 | 17.74 | 17.74 | 17.74 | 19.5 |
| 100 | QPSK | 135 | 69 | 17.91 | 17.91 | 17.91 | 19.5 |
| 100 | QPSK | 135 | 138 | 17.74 | 17.74 | 17.74 | 19.5 |
| 100 | QPSK | 270 | 0 | 17.82 | 17.82 | 17.82 | 19.5 |
| 100 | 16QAM | 1 | 1 | 17.77 | 17.77 | 17.77 | 19.5 |
| 100 | 64QAM | 1 | 1 | 17.70 | 17.70 | 17.70 | 19.5 |
| 100 | 256QAM | 1 | 1 | 17.78 | 17.78 | 17.78 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 17.91 | 17.99 | 17.92 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 17.99 | 17.92 | 17.91 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 17.91 | 17.94 | 17.85 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 17.86 | 17.92 | 17.91 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 17.84 | 17.96 | 17.94 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 17.94 | 17.96 | 17.91 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 18.00 | 17.97 | 17.96 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 17.90 | 17.96 | 17.96 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 17.95 | 17.95 | 17.93 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 17.91 | 17.96 | 17.94 | 19.5 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 17.95 | 17.97 | 17.91 | 19.5 |



Reduced Power Mode for ECI9

n2 Ant 0 ECI 9

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 190 | 180 | 180 | | |
| 40 | QPSK | 1 | 1 | 20.02 | 20.20 | 19.99 | 21.3 | 0.0 |
| 40 | QPSK | 1 | 108 | 19.83 | 19.91 | 19.82 | | |
| 40 | QPSK | 1 | 214 | 19.75 | 19.87 | 19.80 | | |
| 40 | QPSK | 108 | 0 | 19.81 | 19.95 | 19.78 | 21.3 | 0.0 |
| 40 | QPSK | 108 | 54 | 20.09 | 20.20 | 19.94 | 21.3 | 0.0 |
| 40 | QPSK | 108 | 108 | 19.97 | 20.13 | 19.82 | 21.3 | 0.0 |
| 40 | QPSK | 216 | 0 | 20.07 | 20.14 | 20.00 | | |

n5 Ant 0 ECI 9

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 166800 | 167300 | 167800 | | |
| Frequency (MHz) | | | | 834 | 836.5 | 832 | | |
| 20 | Pi/2 BPSK | 1 | 1 | 23.15 | 23.22 | 23.10 | 24.0 | 0.0 |
| 20 | Pi/2 BPSK | 1 | 53 | 23.07 | 23.06 | 23.14 | | |
| 20 | Pi/2 BPSK | 1 | 104 | 23.11 | 23.13 | 22.99 | | |
| 20 | Pi/2 BPSK | 50 | 0 | 22.54 | 22.81 | 22.59 | 23.5 | 0.5 |
| 20 | Pi/2 BPSK | 50 | 28 | 23.09 | 23.15 | 23.10 | 24.0 | 0.0 |
| 20 | Pi/2 BPSK | 50 | 56 | 22.87 | 22.53 | 22.41 | 23.5 | 0.5 |
| 20 | Pi/2 BPSK | 100 | 0 | 22.58 | 22.86 | 22.38 | | |
| 20 | QPSK | 1 | 1 | 23.06 | 23.22 | 22.99 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 53 | 23.04 | 23.08 | 22.81 | | |
| 20 | QPSK | 1 | 104 | 23.00 | 23.01 | 22.94 | | |
| 20 | QPSK | 50 | 0 | 21.84 | 21.83 | 21.73 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 23.02 | 23.11 | 22.92 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 21.86 | 22.02 | 21.81 | 23.0 | 1.0 |
| 20 | QPSK | 100 | 0 | 21.96 | 21.99 | 21.69 | | |
| 20 | 16QAM | 1 | 1 | 21.88 | 21.89 | 21.81 | 23.0 | 1.0 |
| 20 | 16QAM | 1 | 1 | 20.83 | 20.80 | 20.39 | 21.5 | 2.5 |
| 20 | 16QAM | 1 | 1 | 19.14 | 19.22 | 19.17 | 19.5 | 4.5 |
| Channel | | | | 168300 | 167300 | 168300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 831.5 | 836.5 | 841.5 | 24.0 | 0.0 |
| 15 | QPSK | 1 | 1 | 22.88 | 23.02 | 22.86 | 24.0 | 0.0 |
| Channel | | | | 165500 | 167500 | 165500 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 829 | 836.5 | 844 | 24.0 | 0.0 |
| 10 | QPSK | 1 | 1 | 22.88 | 23.05 | 22.79 | 24.0 | 0.0 |
| Channel | | | | 165000 | 167300 | 165000 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 828.5 | 836.5 | 846.5 | 24.0 | 0.0 |
| 5 | QPSK | 1 | 1 | 22.87 | 23.06 | 22.85 | 24.0 | 0.0 |

n7 Ant 0 ECI 9

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 505000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 20.18 | 20.23 | 20.13 | 21.3 | 0.0 |
| 50 | QPSK | 1 | 135 | 20.12 | 20.19 | 19.96 | | |
| 50 | QPSK | 1 | 268 | 20.10 | 20.07 | 20.06 | | |
| 50 | QPSK | 135 | 0 | 20.01 | 20.02 | 20.02 | 21.3 | 0.0 |
| 50 | QPSK | 135 | 68 | 20.04 | 20.14 | 20.07 | 21.3 | 0.0 |
| 50 | QPSK | 135 | 135 | 20.02 | 19.98 | 19.85 | 21.3 | 0.0 |
| 50 | QPSK | 270 | 0 | 20.00 | 20.15 | 19.92 | | |



n26 Ant 0 ECI 9

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 164800 | 166300 | 167800 | | |
| Frequency (MHz) | | | | 824 | 831.5 | 839 | | |
| 20 | PI2 BPSK | 1 | 1 | 23.01 | 23.05 | 23.09 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 53 | 23.11 | 23.11 | 23.11 | | |
| 20 | PI2 BPSK | 1 | 104 | 23.20 | 23.17 | 23.19 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.77 | 22.76 | 22.77 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 23.20 | 23.12 | 23.15 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 22.80 | 22.75 | 22.75 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 100 | 0 | 22.72 | 22.80 | 22.80 | | |
| 20 | QPSK | 1 | 1 | 23.25 | 23.27 | 23.22 | | |
| 20 | QPSK | 1 | 53 | 23.11 | 23.21 | 23.19 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 23.12 | 23.19 | 23.17 | | |
| 20 | QPSK | 50 | 0 | 22.12 | 22.21 | 22.16 | | |
| 20 | QPSK | 50 | 28 | 23.17 | 23.22 | 23.14 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 22.32 | 22.33 | 22.26 | 23.0 | 1.0 |
| 20 | QPSK | 100 | 0 | 22.29 | 22.33 | 22.29 | | |
| 20 | 16QAM | 1 | 1 | 21.80 | 21.83 | 21.80 | | |
| 20 | 64QAM | 1 | 1 | 20.52 | 20.58 | 20.48 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 19.05 | 19.16 | 19.14 | 19.5 | 4.5 |
| Channel | | | | 164300 | 166300 | 168300 | | |
| Frequency (MHz) | | | | 821.5 | 831.5 | 841.5 | | |
| 15 | QPSK | 1 | 1 | 23.15 | 23.26 | 23.20 | 24.0 | 0.0 |
| Channel | | | | 165800 | 166300 | 166800 | | |
| Frequency (MHz) | | | | 819 | 831.5 | 844 | | |
| 10 | QPSK | 1 | 1 | 23.23 | 23.22 | 23.12 | 24.0 | 0.0 |
| Channel | | | | 163300 | 163300 | 163300 | | |
| Frequency (MHz) | | | | 816.5 | 831.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 23.19 | 23.26 | 23.15 | 24.0 | 0.0 |

n66 Ant 0 ECI 9

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 346000 | 349000 | 352000 | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1760 | | |
| 40 | QPSK | 1 | 1 | 19.54 | 19.63 | 19.60 | 20.4 | 0.0 |
| 40 | QPSK | 1 | 108 | 19.56 | 19.53 | 19.32 | | |
| 40 | QPSK | 1 | 214 | 19.48 | 19.59 | 19.43 | | |
| 40 | QPSK | 108 | 0 | 19.36 | 19.56 | 19.28 | 20.4 | 0.0 |
| 40 | QPSK | 108 | 54 | 19.43 | 19.64 | 19.45 | 20.4 | 0.0 |
| 40 | QPSK | 108 | 108 | 19.39 | 19.46 | 19.36 | 20.4 | 0.0 |
| 40 | QPSK | 216 | 0 | 19.29 | 19.55 | 19.21 | | |



n41 Ant 0 ECI 9

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 2546.01 | 2592.99 | 2640 | | |
| Frequency (MHz) | | | | | | | | |
| 100 | QPSK | 1 | 1 | 20.19 | 20.27 | 20.24 | | |
| 100 | QPSK | 1 | 137 | 20.05 | 20.07 | 19.91 | 21.5 | 0.0 |
| 100 | QPSK | 1 | 271 | 19.96 | 20.01 | 19.91 | | |
| 100 | QPSK | 135 | 0 | 19.93 | 20.03 | 19.72 | 21.5 | 0.0 |
| 100 | QPSK | 135 | 69 | 20.11 | 20.13 | 19.98 | 21.5 | 0.0 |
| 100 | QPSK | 135 | 138 | 19.90 | 19.99 | 20.03 | | |
| 100 | QPSK | 270 | 0 | 20.04 | 20.12 | 20.05 | 21.5 | 0.0 |



n2 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 | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 1870 | 1880 | 1890 | | |
| 40 | QPSK | 1 | 1 | 23.17 | 23.19 | 23.10 | | |
| 40 | QPSK | 1 | 168 | 22.07 | 22.06 | 22.96 | 24.0 | 0.0 |
| 40 | QPSK | 1 | 214 | 22.93 | 23.08 | 22.95 | | |
| 40 | QPSK | 108 | 0 | 21.95 | 22.02 | 21.83 | 23.0 | 1.0 |
| 40 | QPSK | 108 | 54 | 23.02 | 23.14 | 22.86 | 24.0 | 0.0 |
| 40 | QPSK | 168 | 168 | 21.95 | 21.92 | 21.87 | 23.0 | 1.0 |
| 40 | QPSK | 216 | 0 | 21.89 | 22.08 | 21.73 | | |

n5 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 | | | | 166800 | 167300 | 167800 | | |
| Frequency (MHz) | | | | 834 | 836.5 | 839 | | |
| 20 | PI2 BPSK | 1 | 1 | 22.77 | 22.75 | 22.69 | | |
| 20 | PI2 BPSK | 1 | 50 | 22.80 | 22.83 | 22.74 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 104 | 22.81 | 22.84 | 22.43 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.07 | 22.12 | 22.08 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 22.81 | 22.88 | 22.62 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 21.82 | 22.03 | 21.89 | | |
| 20 | PI2 BPSK | 100 | 0 | 22.10 | 22.28 | 22.02 | 23.5 | 0.5 |
| 20 | QPSK | 1 | 1 | 22.77 | 22.83 | 22.74 | | |
| 20 | QPSK | 1 | 53 | 22.80 | 22.88 | 22.48 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 22.81 | 22.78 | 22.83 | | |
| 20 | QPSK | 50 | 0 | 21.86 | 21.87 | 21.45 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 22.84 | 22.78 | 22.84 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 21.85 | 21.81 | 21.57 | | |
| 20 | QPSK | 100 | 0 | 21.52 | 21.63 | 21.45 | 23.0 | 1.0 |
| 20 | 16QAM | 1 | 1 | 21.48 | 21.55 | 21.47 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.21 | 20.21 | 20.08 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 18.79 | 18.85 | 18.83 | 19.5 | 4.5 |
| Channel | | | | 166300 | 167300 | 168300 | | |
| Frequency (MHz) | | | | 831.5 | 836.5 | 841.5 | | |
| 15 | QPSK | 1 | 1 | 22.64 | 22.85 | 22.64 | 24.0 | 0.0 |
| Channel | | | | 165800 | 167300 | 168800 | | |
| Frequency (MHz) | | | | 826 | 836.5 | 846 | | |
| 10 | QPSK | 1 | 1 | 22.58 | 22.71 | 22.58 | 24.0 | 0.0 |
| Channel | | | | 165300 | 167300 | 169300 | | |
| Frequency (MHz) | | | | 826.5 | 836.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 22.81 | 22.87 | 22.63 | 24.0 | 0.0 |

n7 Ant 1 ECI 9

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 556000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 20.76 | 20.83 | 20.77 | | |
| 50 | QPSK | 1 | 135 | 20.80 | 20.88 | 20.54 | 21.8 | 0.0 |
| 50 | QPSK | 1 | 268 | 20.53 | 20.85 | 20.59 | | |
| 50 | QPSK | 135 | 0 | 20.67 | 20.83 | 20.61 | 21.8 | 0.0 |
| 50 | QPSK | 135 | 68 | 20.84 | 20.75 | 20.66 | 21.8 | 0.0 |
| 50 | QPSK | 135 | 135 | 20.61 | 20.68 | 20.57 | | |
| 50 | QPSK | 270 | 0 | 20.51 | 20.57 | 20.41 | 21.8 | 0.0 |



n26 Ant 1 ECI 9

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|--------------------|--------------------|--------------------|---------------------|----------|
| | | | | Ch. / Freq. 164800 | Ch. / Freq. 166300 | Ch. / Freq. 167800 | | |
| Channel | | | | 824 | 831.5 | 839 | | |
| Frequency (MHz) | | | | | | | | |
| 20 | PI2 BPSK | 1 | 1 | 22.71 | 22.77 | 22.69 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 59 | 22.73 | 22.83 | 22.73 | | |
| 20 | PI2 BPSK | 1 | 104 | 22.76 | 22.85 | 22.81 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.36 | 22.41 | 22.32 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 22.80 | 22.85 | 22.83 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 22.32 | 22.41 | 22.31 | | |
| 20 | PI2 BPSK | 100 | 0 | 22.29 | 22.39 | 22.34 | 23.5 | 0.5 |
| 20 | QPSK | 1 | 1 | 22.81 | 22.88 | 22.82 | | |
| 20 | QPSK | 1 | 53 | 22.81 | 22.85 | 22.78 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 22.76 | 22.81 | 22.71 | | |
| 20 | QPSK | 50 | 0 | 21.80 | 21.88 | 21.87 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 22.76 | 22.83 | 22.76 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 21.89 | 21.95 | 21.90 | | |
| 20 | QPSK | 100 | 0 | 21.82 | 21.93 | 21.87 | 23.0 | 1.0 |
| 20 | 16QAM | 1 | 1 | 21.47 | 21.55 | 21.52 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.12 | 20.15 | 20.10 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 18.66 | 18.75 | 18.74 | 19.5 | 4.5 |
| Channel | | | | 164300 | 165300 | 166300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 811.5 | 811.5 | 811.5 | | |
| 15 | QPSK | 1 | 1 | 22.71 | 22.83 | 22.73 | 24.0 | 0.0 |
| Channel | | | | 163800 | 165300 | 166800 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 819 | 831.5 | 844 | | |
| 10 | QPSK | 1 | 1 | 22.72 | 22.83 | 22.76 | 24.0 | 0.0 |
| Channel | | | | 163300 | 165300 | 165300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 816.5 | 831.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 22.78 | 22.87 | 22.78 | 24.0 | 0.0 |

n66 Ant 1 ECI 9

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|--------------------|--------------------|--------------------|---------------------|----------|
| | | | | Ch. / Freq. 346000 | Ch. / Freq. 349000 | Ch. / Freq. 352000 | | |
| Channel | | | | 1730 | 1745 | 1760 | | |
| Frequency (MHz) | | | | | | | | |
| 40 | QPSK | 1 | 1 | 21.74 | 21.86 | 21.77 | | |
| 40 | QPSK | 1 | 109 | 21.63 | 21.72 | 21.70 | 22.9 | 0.0 |
| 40 | QPSK | 1 | 214 | 21.62 | 21.75 | 21.48 | | |
| 40 | QPSK | 108 | 0 | 21.63 | 21.80 | 21.41 | 22.9 | 0.0 |
| 40 | QPSK | 108 | 54 | 21.76 | 21.86 | 21.51 | 22.9 | 0.0 |
| 40 | QPSK | 108 | 108 | 21.72 | 21.59 | 21.45 | | |
| 40 | QPSK | 216 | 0 | 21.47 | 21.69 | 21.37 | 22.9 | 0.0 |



n41 Ant 1 ECI 9

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|------------------|---------------------|-------------------|---------------------|----------|
| | | | | Low Ch. Freq. | Middle Ch. Freq. | High Ch. Freq. | | |
| Channel | | | | 2546.01 | 2592.99 | 2640 | | |
| Frequency (MHz) | | | | | | | | |
| 100 | QPSK | 1 | 1 | 18.74 | 18.75 | 18.74 | | |
| 100 | QPSK | 1 | 137 | 18.54 | 18.59 | 18.40 | 20.3 | 0.0 |
| 100 | QPSK | 1 | 271 | 18.46 | 18.60 | 18.42 | | |
| 100 | QPSK | 135 | 0 | 18.58 | 18.49 | 18.33 | 20.3 | 0.0 |
| 100 | QPSK | 135 | 69 | 18.50 | 18.72 | 18.50 | 20.3 | 0.0 |
| 100 | QPSK | 135 | 138 | 18.40 | 18.52 | 18.43 | | |
| 100 | QPSK | 270 | 0 | 18.38 | 18.57 | 18.33 | 20.3 | 0.0 |



n2 Ant 2 ECI 9

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 1870 | 1880 | 1890 | | |
| Frequency (MHz) | | | | | | | | |
| 40 | QPSK | 1 | 1 | 12.40 | 12.42 | 12.40 | 13.6 | 0.0 |
| 40 | QPSK | 1 | 108 | 12.26 | 12.22 | 12.12 | | |
| 40 | QPSK | 1 | 214 | 12.21 | 12.32 | 12.12 | | |
| 40 | QPSK | 108 | 0 | 12.25 | 12.34 | 12.19 | 13.6 | 0.0 |
| 40 | QPSK | 108 | 54 | 12.24 | 12.40 | 12.06 | 13.6 | 0.0 |
| 40 | QPSK | 108 | 108 | 12.21 | 12.22 | 12.16 | 13.6 | 0.0 |
| 40 | QPSK | 216 | 0 | 12.10 | 12.39 | 11.93 | | |

n7 Ant 2 ECI 9

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 2525 | 2535 | 2545 | | |
| Frequency (MHz) | | | | | | | | |
| 50 | QPSK | 1 | 1 | 14.31 | 14.39 | 14.18 | 15.7 | 0.0 |
| 50 | QPSK | 1 | 135 | 14.08 | 14.12 | 14.02 | | |
| 50 | QPSK | 1 | 268 | 13.99 | 14.06 | 13.92 | | |
| 50 | QPSK | 135 | 0 | 13.87 | 14.08 | 13.76 | 15.7 | 0.0 |
| 50 | QPSK | 135 | 68 | 14.01 | 14.17 | 13.98 | 15.7 | 0.0 |
| 50 | QPSK | 135 | 135 | 14.05 | 14.19 | 13.97 | 15.7 | 0.0 |
| 50 | QPSK | 270 | 0 | 13.95 | 14.17 | 13.99 | | |

n66 Ant 2 ECI 9

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 1730 | 1745 | 1760 | | |
| Frequency (MHz) | | | | | | | | |
| 40 | QPSK | 1 | 1 | 13.21 | 13.33 | 13.27 | 14.4 | 0.0 |
| 40 | QPSK | 1 | 108 | 13.21 | 13.05 | 12.95 | | |
| 40 | QPSK | 1 | 214 | 12.97 | 13.09 | 13.07 | | |
| 40 | QPSK | 108 | 0 | 13.05 | 13.13 | 12.97 | 14.4 | 0.0 |
| 40 | QPSK | 108 | 54 | 13.05 | 13.24 | 12.93 | 14.4 | 0.0 |
| 40 | QPSK | 108 | 108 | 13.00 | 13.09 | 12.78 | 14.4 | 0.0 |
| 40 | QPSK | 216 | 0 | 12.88 | 13.20 | 12.78 | | |



n41 Ant 2 ECI 9

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|------------------|---------------------|-------------------|---------------------|----------|
| | | | | Low Ch. Freq. | Middle Ch. Freq. | High Ch. Freq. | | |
| Channel | | | | 2546.01 | 2592.99 | 2640 | | |
| Frequency (MHz) | | | | | | | | |
| 100 | QPSK | 1 | 1 | 13.45 | 13.63 | 13.51 | | |
| 100 | QPSK | 1 | 157 | 13.42 | 13.55 | 13.30 | 14.7 | 0.0 |
| 100 | QPSK | 1 | 271 | 13.40 | 13.48 | 13.29 | | |
| 100 | QPSK | 135 | 0 | 13.40 | 13.45 | 13.19 | 14.7 | 0.0 |
| 100 | QPSK | 135 | 69 | 13.35 | 13.56 | 13.36 | 14.7 | 0.0 |
| 100 | QPSK | 135 | 159 | 13.34 | 13.50 | 13.41 | | |
| 100 | QPSK | 270 | 0 | 13.49 | 13.50 | 13.48 | 14.7 | 0.0 |



n2 Ant 3 ECI 9

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 1870 | 1880 | 1890 | | |
| 40 | QPSK | 1 | 1 | 16.88 | 16.99 | 16.91 | 18.1 | 0.0 |
| 40 | QPSK | 1 | 108 | 16.92 | 16.96 | 16.73 | | |
| 40 | QPSK | 1 | 214 | 16.89 | 16.89 | 16.70 | | |
| 40 | QPSK | 108 | 0 | 16.79 | 16.84 | 16.61 | 18.1 | 0.0 |
| 40 | QPSK | 108 | 54 | 16.82 | 16.97 | 16.77 | 18.1 | 0.0 |
| 40 | QPSK | 108 | 108 | 16.79 | 16.92 | 16.67 | 18.1 | 0.0 |
| 40 | QPSK | 216 | 0 | 16.78 | 16.96 | 16.71 | | |

n7 Ant 3 ECI 9

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 505000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 14.60 | 14.73 | 14.61 | 15.4 | 0.0 |
| 50 | QPSK | 1 | 135 | 14.59 | 14.50 | 14.50 | | |
| 50 | QPSK | 1 | 268 | 14.33 | 14.55 | 14.31 | | |
| 50 | QPSK | 135 | 0 | 14.36 | 14.38 | 14.24 | 15.4 | 0.0 |
| 50 | QPSK | 135 | 68 | 14.42 | 14.62 | 14.49 | 15.4 | 0.0 |
| 50 | QPSK | 135 | 135 | 14.49 | 14.54 | 14.18 | | |
| 50 | QPSK | 270 | 0 | 14.29 | 14.55 | 14.45 | 15.4 | 0.0 |

n66 Ant 3 ECI 9

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 348000 | 349000 | 350000 | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1760 | | |
| 40 | QPSK | 1 | 1 | 16.52 | 16.58 | 16.45 | 17.8 | 0.0 |
| 40 | QPSK | 1 | 108 | 16.39 | 16.44 | 16.19 | | |
| 40 | QPSK | 1 | 214 | 16.18 | 16.41 | 16.39 | | |
| 40 | QPSK | 108 | 0 | 16.38 | 16.46 | 16.16 | 17.8 | 0.0 |
| 40 | QPSK | 108 | 54 | 16.25 | 16.44 | 16.21 | 17.8 | 0.0 |
| 40 | QPSK | 108 | 108 | 16.39 | 16.31 | 16.32 | | |
| 40 | QPSK | 216 | 0 | 16.33 | 16.35 | 16.11 | 17.8 | 0.0 |



n41 Ant 3 ECI 9

| BW [MHz] | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 509202 | 518598 | 528000 | | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | | |
| 100 | QPSK | 1 | 1 | 14.87 | 14.69 | 14.53 | | |
| 100 | QPSK | 1 | 137 | 14.53 | 14.61 | 14.27 | 16.1 | 0.0 |
| 100 | QPSK | 1 | 271 | 14.39 | 14.56 | 14.32 | | |
| 100 | QPSK | 135 | 0 | 14.44 | 14.42 | 14.27 | 16.1 | 0.0 |
| 100 | QPSK | 135 | 69 | 14.35 | 14.60 | 14.29 | 16.1 | 0.0 |
| 100 | QPSK | 135 | 138 | 14.34 | 14.37 | 14.27 | | |
| 100 | QPSK | 270 | 0 | 14.24 | 14.58 | 14.21 | 16.1 | 0.0 |

Part270 n77 HPUE Ant 3 ECI 9

| BW [MHz] | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 650000 | 656000 | 662000 | | |
| Frequency (MHz) | | | | 3750 | 3840 | 3930 | | |
| 100 | PI2 BPSK | 1 | 1 | 15.53 | 15.61 | 15.36 | | |
| 100 | PI2 BPSK | 1 | 137 | 15.43 | 15.41 | 15.37 | 17.0 | 0.0 |
| 100 | PI2 BPSK | 1 | 271 | 15.16 | 15.51 | 15.30 | | |
| 100 | PI2 BPSK | 135 | 0 | 15.50 | 15.70 | 15.39 | 17.0 | 0.0 |
| 100 | PI2 BPSK | 135 | 69 | 15.51 | 15.66 | 15.45 | 17.0 | 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 15.37 | 15.44 | 15.30 | | |
| 100 | PI2 BPSK | 270 | 0 | 15.17 | 15.48 | 15.27 | 17.0 | 0.0 |
| 100 | QPSK | 1 | 1 | 15.63 | 15.74 | 15.48 | | |
| 100 | QPSK | 1 | 137 | 15.48 | 15.53 | 15.40 | 17.0 | 0.0 |
| 100 | QPSK | 1 | 271 | 15.23 | 15.46 | 15.39 | | |
| 100 | QPSK | 135 | 0 | 15.54 | 15.62 | 15.39 | 17.0 | 0.0 |
| 100 | QPSK | 135 | 69 | 15.53 | 15.69 | 15.39 | 17.0 | 0.0 |
| 100 | QPSK | 135 | 138 | 15.38 | 15.45 | 15.29 | | |
| 100 | QPSK | 270 | 0 | 15.16 | 15.48 | 15.29 | 17.0 | 0.0 |
| 100 | 16QAM | 1 | 1 | 15.54 | 15.70 | 15.40 | 17.0 | 0.0 |
| 100 | 64QAM | 1 | 1 | 15.39 | 15.49 | 15.28 | 17.0 | 0.0 |
| 100 | 256QAM | 1 | 1 | 15.12 | 15.49 | 15.27 | 17.0 | 0.0 |
| Channel | | | | 689998 | 696000 | 692000 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3935.01 | | |
| 90 | QPSK | 1 | 1 | 15.59 | 15.65 | 15.36 | 17.0 | 0.0 |
| Channel | | | | 689334 | 650000 | 662668 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3940.02 | | |
| 80 | QPSK | 1 | 1 | 15.53 | 15.65 | 15.43 | 17.0 | 0.0 |
| Channel | | | | 689000 | 650000 | 663000 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | | |
| 70 | QPSK | 1 | 1 | 15.53 | 15.63 | 15.42 | 17.0 | 0.0 |
| Channel | | | | 689650 | 650000 | 663000 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3730.02 | 3840 | 3950.01 | | |
| 60 | QPSK | 1 | 1 | 15.53 | 15.68 | 15.43 | 17.0 | 0.0 |
| Channel | | | | 689334 | 650000 | 663668 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3955.02 | | |
| 50 | QPSK | 1 | 1 | 15.52 | 15.63 | 15.36 | 17.0 | 0.0 |
| Channel | | | | 688000 | 650000 | 664000 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | | |
| 40 | QPSK | 1 | 1 | 15.53 | 15.63 | 15.41 | 17.0 | 0.0 |
| Channel | | | | 687688 | 650000 | 664334 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3715.02 | 3840 | 3965.01 | | |
| 30 | QPSK | 1 | 1 | 15.51 | 15.65 | 15.40 | 17.0 | 0.0 |
| Channel | | | | 687334 | 650000 | 664668 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3970.02 | | |
| 25 | QPSK | 1 | 1 | 15.53 | 15.65 | 15.40 | 17.0 | 0.0 |
| Channel | | | | 687334 | 650000 | 664668 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3970.02 | | |
| 20 | QPSK | 1 | 1 | 15.56 | 15.63 | 15.36 | 17.0 | 0.0 |
| Channel | | | | 687188 | 650000 | 664834 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.51 | | |
| 15 | QPSK | 1 | 1 | 15.51 | 15.70 | 15.45 | 17.0 | 0.0 |
| Channel | | | | 687000 | 650000 | 665000 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | | |
| 10 | QPSK | 1 | 1 | 15.53 | 15.68 | 15.41 | 17.0 | 0.0 |

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| BW [MHz] | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 650000 | 656000 | 662000 | | |
| Frequency (MHz) | | | | 3750 | | | | |
| 100 | PI2 BPSK | 1 | 1 | 15.59 | | | | |
| 100 | PI2 BPSK | 1 | 137 | 15.20 | | | 17.0 | 0.0 |
| 100 | PI2 BPSK | 1 | 271 | 15.35 | | | | |
| 100 | PI2 BPSK | 135 | 0 | 15.56 | | | 17.0 | 0.0 |
| 100 | PI2 BPSK | 135 | 69 | 15.59 | | | 17.0 | 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 15.28 | | | | |
| 100 | PI2 BPSK | 270 | 0 | 15.35 | | | 17.0 | 0.0 |
| 100 | QPSK | 1 | 1 | 15.60 | | | | |
| 100 | QPSK | 1 | 137 | 15.30 | | | 17.0 | 0.0 |
| 100 | QPSK | 1 | 271 | 15.40 | | | | |
| 100 | QPSK | 135 | 0 | 15.57 | | | 17.0 | 0.0 |
| 100 | QPSK | 135 | 69 | 15.59 | | | 17.0 | 0.0 |
| 100 | QPSK | 135 | 138 | 15.22 | | | | |
| 100 | QPSK | 270 | 0 | 15.30 | | | 17.0 | 0.0 |
| 100 | 16QAM | 1 | 1 | 15.50 | | | 17.0 | 0.0 |
| 100 | 64QAM | 1 | 1 | 15.20 | | | 17.0 | 0.0 |
| 100 | 256QAM | 1 | 1 | 15.31 | | | 17.0 | 0.0 |
| Channel | | | | 688998 | 650000 | 650334 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3745.02 | 3750 | 3755.01 | | |
| 90 | QPSK | 1 | 1 | 15.29 | 15.36 | 15.35 | 17.0 | 0.0 |
| Channel | | | | 689334 | 650000 | 650668 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3740.01 | 3750 | 3760.02 | | |
| 80 | QPSK | 1 | 1 | 15.37 | 15.38 | 15.37 | 17.0 | 0.0 |
| Channel | | | | 689000 | 650000 | 651000 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3735 | 3750 | 3765 | | |
| 70 | QPSK | 1 | 1 | 15.22 | 15.24 | 15.32 | 17.0 | 0.0 |
| Channel | | | | 689334 | 650000 | 651668 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3730.02 | 3750 | 3770.01 | | |
| 60 | QPSK | 1 | 1 | 15.33 | 15.31 | 15.32 | 17.0 | 0.0 |
| Channel | | | | 689334 | 650000 | 651998 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3725.01 | 3760 | 3785.02 | | |
| 50 | QPSK | 1 | 1 | 15.32 | 15.32 | 15.32 | 17.0 | 0.0 |
| Channel | | | | 688000 | 650000 | 652000 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3720 | 3750 | 3790 | | |
| 40 | QPSK | 1 | 1 | 15.32 | 15.39 | 15.37 | 17.0 | 0.0 |
| Channel | | | | 687688 | 650000 | 652334 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3715.02 | 3760 | 3785.01 | | |
| 30 | QPSK | 1 | 1 | 15.37 | 15.37 | 15.32 | 17.0 | 0.0 |
| Channel | | | | 687334 | 650000 | 652668 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3710.01 | 3760 | 3795.02 | | |
| 25 | QPSK | 1 | 1 | 15.35 | 15.34 | 15.39 | 17.0 | 0.0 |
| Channel | | | | 687334 | 650000 | 652998 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3710.01 | 3760 | 3795.02 | | |
| 20 | QPSK | 1 | 1 | 15.36 | 15.39 | 15.36 | 17.0 | 0.0 |
| Channel | | | | 687188 | 650000 | 652834 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3707.52 | 3760 | 3792.51 | | |
| 15 | QPSK | 1 | 1 | 15.34 | 15.37 | 15.34 | 17.0 | 0.0 |
| Channel | | | | 687000 | 650000 | 653000 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3705 | 3760 | 3795 | | |
| 10 | QPSK | 1 | 1 | 15.36 | 15.37 | 15.33 | 17.0 | 0.0 |



| Part270 n77 HPUE Ant 4 ECI 9 | | | | | | | |
|------------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 656000 | Power High Ch. / Freq. 662000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 12.60 | 12.81 | 12.81 | |
| 100 | PI2 BPSK | 1 | 137 | 12.57 | 12.81 | 12.48 | 14.4 |
| 100 | PI2 BPSK | 1 | 271 | 12.45 | 12.55 | 12.42 | |
| 100 | PI2 BPSK | 135 | 0 | 12.61 | 12.81 | 12.80 | 14.4 |
| 100 | PI2 BPSK | 135 | 69 | 12.60 | 12.83 | 12.52 | 14.4 |
| 100 | PI2 BPSK | 135 | 138 | 12.57 | 12.58 | 12.47 | 14.4 |
| 100 | PI2 BPSK | 270 | 0 | 12.41 | 12.60 | 12.42 | 14.4 |
| 100 | QPSK | 1 | 1 | 12.68 | 12.82 | 12.83 | |
| 100 | QPSK | 1 | 137 | 12.68 | 12.67 | 12.50 | 14.4 |
| 100 | QPSK | 1 | 271 | 12.45 | 12.61 | 12.48 | |
| 100 | QPSK | 135 | 0 | 12.62 | 12.83 | 12.80 | 14.4 |
| 100 | QPSK | 135 | 69 | 12.61 | 12.86 | 12.57 | 14.4 |
| 100 | QPSK | 135 | 138 | 12.59 | 12.68 | 12.50 | 14.4 |
| 100 | QPSK | 270 | 0 | 12.42 | 12.75 | 12.53 | 14.4 |
| 100 | 16QAM | 1 | 1 | 12.64 | 12.88 | 12.81 | 14.4 |
| 100 | 64QAM | 1 | 1 | 12.59 | 12.57 | 12.45 | 14.4 |
| 100 | 256QAM | 1 | 1 | 12.53 | 12.54 | 12.44 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 12.61 | 12.91 | 12.57 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 12.61 | 12.84 | 12.52 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 12.65 | 12.51 | 12.58 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 12.58 | 12.88 | 12.58 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 12.58 | 12.88 | 12.56 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 12.59 | 12.91 | 12.53 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 12.63 | 12.88 | 12.55 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 12.64 | 12.89 | 12.60 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 12.65 | 12.88 | 12.54 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 12.64 | 12.87 | 12.58 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 12.64 | 12.91 | 12.58 | 14.4 |

| Part270 n78 HPUE Ant 4 ECI 9 | | | | | | | |
|------------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 656000 | Power High Ch. / Freq. 662000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 12.75 | 12.75 | | |
| 100 | PI2 BPSK | 1 | 137 | 12.53 | | | 14.4 |
| 100 | PI2 BPSK | 1 | 271 | 12.48 | | | |
| 100 | PI2 BPSK | 135 | 0 | 12.72 | | | 14.4 |
| 100 | PI2 BPSK | 135 | 69 | 12.81 | | | 14.4 |
| 100 | PI2 BPSK | 135 | 138 | 12.52 | | | 14.4 |
| 100 | PI2 BPSK | 270 | 0 | 12.51 | | | 14.4 |
| 100 | QPSK | 1 | 1 | 12.89 | | | |
| 100 | QPSK | 1 | 137 | 12.81 | | | 14.4 |
| 100 | QPSK | 1 | 271 | 12.57 | | | |
| 100 | QPSK | 135 | 0 | 12.82 | | | 14.4 |
| 100 | QPSK | 135 | 69 | 12.83 | | | 14.4 |
| 100 | QPSK | 135 | 138 | 12.81 | | | 14.4 |
| 100 | QPSK | 270 | 0 | 12.51 | | | 14.4 |
| 100 | 16QAM | 1 | 1 | 12.73 | | | 14.4 |
| 100 | 64QAM | 1 | 1 | 12.53 | | | 14.4 |
| 100 | 256QAM | 1 | 1 | 12.50 | | | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 12.54 | 12.86 | 12.50 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 12.54 | 12.85 | 12.50 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 12.50 | 12.80 | 12.51 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 12.54 | 12.85 | 12.48 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 12.55 | 12.88 | 12.55 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 12.58 | 12.85 | 12.49 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 12.59 | 12.88 | 12.55 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 12.53 | 12.82 | 12.49 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 12.80 | 12.88 | 12.50 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 12.54 | 12.86 | 12.48 | 14.4 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 12.53 | 12.86 | 12.55 | 14.4 |



| Part270 n77 HPUE Ant 6 ECI 9 | | | | | | | | | |
|------------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|--|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 650000 | Power High Ch. / Freq. 662000 | Tune-up limit (dBm) | MPR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 100 | Pi2 BPSK | 1 | 1 | 12.09 | 12.07 | 12.04 | | | |
| 100 | Pi2 BPSK | 1 | 137 | 11.94 | 12.15 | 12.08 | 13.6 | 0.0 | |
| 100 | Pi2 BPSK | 1 | 271 | 11.91 | 12.05 | 11.91 | | | |
| 100 | Pi2 BPSK | 135 | 0 | 11.95 | 11.95 | 11.95 | 13.6 | 0.0 | |
| 100 | Pi2 BPSK | 135 | 69 | 11.96 | 11.94 | 11.80 | 13.6 | 0.0 | |
| 100 | Pi2 BPSK | 135 | 138 | 11.98 | 11.97 | 11.98 | | | |
| 100 | Pi2 BPSK | 270 | 0 | 11.88 | 12.00 | 11.95 | 13.6 | 0.0 | |
| 100 | QPSK | 1 | 1 | 12.06 | 12.22 | 12.06 | | | |
| 100 | QPSK | 1 | 137 | 12.18 | 12.11 | 12.13 | 13.6 | 0.0 | |
| 100 | QPSK | 1 | 271 | 12.02 | 12.18 | 12.04 | | | |
| 100 | QPSK | 135 | 0 | 12.03 | 12.13 | 12.17 | 13.6 | 0.0 | |
| 100 | QPSK | 135 | 69 | 12.14 | 12.18 | 12.10 | | | |
| 100 | QPSK | 135 | 138 | 11.97 | 12.09 | 11.97 | 13.6 | 0.0 | |
| 100 | QPSK | 270 | 0 | 12.04 | 12.16 | 12.06 | | | |
| 100 | 16QAM | 1 | 1 | 12.02 | 12.05 | 11.98 | 13.6 | 0.0 | |
| 100 | 64QAM | 1 | 1 | 11.91 | 12.03 | 11.97 | 13.6 | 0.0 | |
| 100 | 256QAM | 1 | 1 | 12.00 | 12.17 | 12.05 | 13.6 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 90 | QPSK | 1 | 1 | 12.01 | 12.17 | 11.95 | 13.6 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 80 | QPSK | 1 | 1 | 12.02 | 12.12 | 11.97 | 13.6 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 70 | QPSK | 1 | 1 | 12.00 | 12.16 | 12.04 | 13.6 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 60 | QPSK | 1 | 1 | 11.97 | 12.13 | 12.04 | 13.6 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 50 | QPSK | 1 | 1 | 11.98 | 12.14 | 11.95 | 13.6 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 40 | QPSK | 1 | 1 | 12.04 | 12.20 | 12.03 | 13.6 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 30 | QPSK | 1 | 1 | 12.04 | 12.11 | 11.97 | 13.6 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 25 | QPSK | 1 | 1 | 11.97 | 12.18 | 12.03 | 13.6 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 1 | 11.99 | 12.18 | 12.01 | 13.6 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 15 | QPSK | 1 | 1 | 12.02 | 12.19 | 12.02 | 13.6 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 10 | QPSK | 1 | 1 | 11.97 | 12.13 | 12.00 | 13.6 | 0.0 | |

| Part270 n78 HPUE Ant 6 ECI 9 | | | | | | | | | |
|------------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 650000 | Power High Ch. / Freq. 662000 | Tune-up limit (dBm) | MPR (dB) | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 100 | Pi2 BPSK | 1 | 1 | | | 11.94 | | | |
| 100 | Pi2 BPSK | 1 | 137 | | | 11.95 | 13.6 | 0.0 | |
| 100 | Pi2 BPSK | 1 | 271 | | | 11.80 | | | |
| 100 | Pi2 BPSK | 135 | 0 | | | 11.82 | 13.6 | 0.0 | |
| 100 | Pi2 BPSK | 135 | 69 | | | 11.94 | 13.6 | 0.0 | |
| 100 | Pi2 BPSK | 135 | 138 | | | 11.90 | | | |
| 100 | Pi2 BPSK | 270 | 0 | | | 11.78 | 13.6 | 0.0 | |
| 100 | QPSK | 1 | 1 | | | 12.17 | | | |
| 100 | QPSK | 1 | 137 | | | 11.98 | 13.6 | 0.0 | |
| 100 | QPSK | 1 | 271 | | | 11.99 | | | |
| 100 | QPSK | 135 | 0 | | | 12.07 | 13.6 | 0.0 | |
| 100 | QPSK | 135 | 69 | | | 12.08 | 13.6 | 0.0 | |
| 100 | QPSK | 135 | 138 | | | 11.99 | 13.6 | 0.0 | |
| 100 | QPSK | 270 | 0 | | | 11.95 | 13.6 | 0.0 | |
| 100 | 16QAM | 1 | 1 | | | 11.95 | 13.6 | 0.0 | |
| 100 | 64QAM | 1 | 1 | | | 11.82 | 13.6 | 0.0 | |
| 100 | 256QAM | 1 | 1 | | | 11.91 | 13.6 | 0.0 | |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 90 | QPSK | 1 | 1 | 64988 | 65000 | 65034 | | | MPR (dB) |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 80 | QPSK | 1 | 1 | 64934 | 65000 | 65068 | | | MPR (dB) |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 70 | QPSK | 1 | 1 | 64900 | 65000 | 65100 | | | MPR (dB) |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 60 | QPSK | 1 | 1 | 64834 | 65000 | 65168 | | | MPR (dB) |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 50 | QPSK | 1 | 1 | 64800 | 65000 | 65200 | | | MPR (dB) |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 40 | QPSK | 1 | 1 | 64768 | 65000 | 65234 | | | MPR (dB) |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 30 | QPSK | 1 | 1 | 64734 | 65000 | 65268 | | | MPR (dB) |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 25 | QPSK | 1 | 1 | 64700 | 65000 | 65300 | | | MPR (dB) |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 20 | QPSK | 1 | 1 | 64700 | 65000 | 65300 | | | MPR (dB) |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 15 | QPSK | 1 | 1 | 64700 | 65000 | 65300 | | | MPR (dB) |
| Channel | | | | | | | | | |
| Frequency (MHz) | | | | | | | | | |
| 10 | QPSK | 1 | 1 | 64700 | 65000 | 65300 | | | MPR (dB) |



| Part270 n77 HPUE Ant 8 ECI 9 | | | | | | | |
|------------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 656000 | Power High Ch. / Freq. 662000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 13.77 | 13.75 | 13.66 | |
| 100 | PI2 BPSK | 1 | 1 | 13.77 | 13.85 | 13.73 | 15.3 |
| 100 | PI2 BPSK | 1 | 271 | 13.80 | 13.78 | 13.81 | |
| 100 | PI2 BPSK | 135 | 0 | 13.74 | 13.77 | 13.58 | 15.3 |
| 100 | PI2 BPSK | 135 | 69 | 13.65 | 13.74 | 13.54 | 15.3 |
| 100 | PI2 BPSK | 135 | 138 | 13.67 | 13.84 | 13.57 | 15.3 |
| 100 | PI2 BPSK | 270 | 0 | 13.78 | 13.73 | 13.65 | 15.3 |
| 100 | QPSK | 1 | 1 | 13.77 | 13.91 | 13.91 | |
| 100 | QPSK | 1 | 137 | 13.89 | 13.83 | 13.83 | 15.3 |
| 100 | QPSK | 1 | 271 | 13.66 | 13.74 | 13.84 | |
| 100 | QPSK | 135 | 0 | 13.64 | 13.79 | 13.73 | 15.3 |
| 100 | QPSK | 135 | 69 | 13.86 | 13.96 | 13.72 | 15.3 |
| 100 | QPSK | 135 | 138 | 13.70 | 13.74 | 13.69 | 15.3 |
| 100 | QPSK | 270 | 0 | 13.74 | 13.79 | 13.84 | 15.3 |
| 100 | 16QAM | 1 | 1 | 13.77 | 13.76 | 13.65 | 15.3 |
| 100 | 64QAM | 1 | 1 | 13.67 | 13.63 | 13.67 | 15.3 |
| 100 | 256QAM | 1 | 1 | 13.67 | 13.91 | 13.77 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 13.66 | 13.93 | 13.88 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 13.68 | 13.91 | 13.90 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 13.69 | 13.97 | 13.83 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 13.68 | 13.94 | 13.87 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 13.67 | 13.91 | 13.82 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 13.67 | 13.91 | 13.89 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 13.73 | 13.92 | 13.86 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 13.68 | 13.88 | 13.89 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 13.67 | 13.82 | 13.89 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 13.69 | 13.90 | 13.85 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 13.70 | 13.91 | 13.90 | 15.3 |

| Part270 n78 HPUE Ant 8 ECI 9 | | | | | | | |
|------------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 656000 | Power High Ch. / Freq. 662000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 13.85 | | | |
| 100 | PI2 BPSK | 1 | 137 | 13.87 | | | 15.3 |
| 100 | PI2 BPSK | 1 | 271 | 13.83 | | | |
| 100 | PI2 BPSK | 135 | 0 | 13.81 | | | 15.3 |
| 100 | PI2 BPSK | 135 | 69 | 13.76 | | | 15.3 |
| 100 | PI2 BPSK | 135 | 138 | 13.63 | | | 15.3 |
| 100 | PI2 BPSK | 270 | 0 | 13.74 | | | 15.3 |
| 100 | QPSK | 1 | 1 | 13.95 | | | |
| 100 | QPSK | 1 | 137 | 13.89 | | | 15.3 |
| 100 | QPSK | 1 | 271 | 13.86 | | | |
| 100 | QPSK | 135 | 0 | 13.82 | | | 15.3 |
| 100 | QPSK | 135 | 69 | 13.88 | | | 15.3 |
| 100 | QPSK | 135 | 138 | 13.75 | | | 15.3 |
| 100 | QPSK | 270 | 0 | 13.67 | | | 15.3 |
| 100 | 16QAM | 1 | 1 | 13.73 | | | 15.3 |
| 100 | 64QAM | 1 | 1 | 13.75 | | | 15.3 |
| 100 | 256QAM | 1 | 1 | 13.75 | | | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 13.75 | 13.90 | 13.79 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 13.71 | 13.91 | 13.77 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 13.73 | 13.87 | 13.74 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 13.69 | 13.89 | 13.76 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 13.70 | 13.88 | 13.72 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 13.72 | 13.85 | 13.70 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 13.72 | 13.85 | 13.73 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 13.66 | 13.85 | 13.77 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 13.74 | 13.91 | 13.80 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 13.71 | 13.86 | 13.77 | 15.3 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 13.74 | 13.91 | 13.77 | 15.3 |



Reduced Power Mode for ECI 10

n2 Ant 0 ECI 10

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 37400 | 37600 | 37800 | | |
| Frequency (MHz) | | | | 19.0 | 18.0 | 18.0 | | |
| 40 | QPSK | 1 | 1 | 18.45 | 18.46 | 18.38 | 20.3 | 0.0 |
| 40 | QPSK | 1 | 108 | 18.40 | 18.41 | 18.34 | | |
| 40 | QPSK | 1 | 214 | 18.32 | 18.37 | 18.35 | | |
| 40 | QPSK | 108 | 0 | 18.21 | 18.33 | 18.30 | 20.3 | 0.0 |
| 40 | QPSK | 108 | 54 | 18.34 | 18.47 | 18.34 | 20.3 | 0.0 |
| 40 | QPSK | 108 | 108 | 18.24 | 18.29 | 18.28 | | |
| 40 | QPSK | 216 | 0 | 18.33 | 18.35 | 18.33 | 20.3 | 0.0 |

n5 Ant 0 ECI 10

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 166800 | 167300 | 167900 | | |
| Frequency (MHz) | | | | 834 | 836.5 | 832 | | |
| 20 | Pi/2 BPSK | 1 | 1 | 23.15 | 23.22 | 23.10 | 24.0 | 0.0 |
| 20 | Pi/2 BPSK | 1 | 53 | 23.07 | 23.06 | 23.14 | | |
| 20 | Pi/2 BPSK | 1 | 104 | 23.11 | 23.13 | 22.99 | | |
| 20 | Pi/2 BPSK | 50 | 0 | 22.54 | 22.81 | 22.59 | 23.5 | 0.5 |
| 20 | Pi/2 BPSK | 50 | 28 | 23.09 | 23.15 | 23.10 | 24.0 | 0.0 |
| 20 | Pi/2 BPSK | 50 | 56 | 22.87 | 22.53 | 22.41 | | |
| 20 | Pi/2 BPSK | 100 | 0 | 22.58 | 22.66 | 22.38 | 23.5 | 0.5 |
| 20 | QPSK | 1 | 1 | 23.06 | 23.22 | 22.96 | | |
| 20 | QPSK | 1 | 53 | 23.04 | 23.08 | 22.81 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 23.00 | 23.01 | 22.94 | | |
| 20 | QPSK | 50 | 0 | 21.84 | 21.93 | 21.73 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 23.02 | 23.11 | 22.92 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 21.86 | 22.02 | 21.81 | | |
| 20 | QPSK | 100 | 0 | 21.96 | 21.99 | 21.69 | 23.0 | 1.0 |
| 20 | 16QAM | 1 | 1 | 21.88 | 21.89 | 21.81 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.83 | 20.80 | 20.39 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 19.14 | 19.22 | 19.17 | 19.5 | 4.5 |
| Channel | | | | 166800 | 167300 | 168300 | | |
| Frequency (MHz) | | | | 831.5 | 836.5 | 841.5 | | |
| 15 | QPSK | 1 | 1 | 22.68 | 23.02 | 22.86 | 24.0 | 0.0 |
| Channel | | | | 165500 | 167500 | 169500 | | |
| Frequency (MHz) | | | | 829 | 836.5 | 844 | | |
| 10 | QPSK | 1 | 1 | 22.88 | 23.05 | 22.79 | 24.0 | 0.0 |
| Channel | | | | 165000 | 167300 | 169000 | | |
| Frequency (MHz) | | | | 826.5 | 836.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 22.87 | 23.06 | 22.85 | 24.0 | 0.0 |

n7 Ant 0 ECI 10

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 505000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 18.70 | 18.82 | 18.59 | 20.0 | 0.0 |
| 50 | QPSK | 1 | 135 | 18.70 | 18.71 | 18.55 | | |
| 50 | QPSK | 1 | 268 | 18.54 | 18.70 | 18.50 | | |
| 50 | QPSK | 135 | 0 | 18.57 | 18.65 | 18.42 | 20.0 | 0.0 |
| 50 | QPSK | 135 | 68 | 18.61 | 18.67 | 18.53 | 20.0 | 0.0 |
| 50 | QPSK | 135 | 135 | 18.55 | 18.53 | 18.39 | | |
| 50 | QPSK | 270 | 0 | 18.50 | 18.58 | 18.46 | 20.0 | 0.0 |



n26 Ant 0 ECI 10

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 164300 | 166300 | 167800 | | |
| Frequency (MHz) | | | | 821.5 | 831.5 | 841.5 | | |
| 20 | PI2 BPSK | 1 | 1 | 22.17 | 22.20 | 22.15 | 23.6 | 0.0 |
| 20 | PI2 BPSK | 1 | 53 | 22.03 | 22.24 | 22.09 | | |
| 20 | PI2 BPSK | 1 | 104 | 22.03 | 22.17 | 22.15 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.19 | 22.18 | 22.11 | 23.5 | 0.1 |
| 20 | PI2 BPSK | 50 | 28 | 22.15 | 22.17 | 22.16 | 23.6 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 22.03 | 22.21 | 22.12 | 23.5 | 0.1 |
| 20 | PI2 BPSK | 100 | 0 | 21.99 | 22.17 | 22.15 | | |
| 20 | QPSK | 1 | 1 | 22.25 | 22.26 | 22.18 | 23.6 | 0.0 |
| 20 | QPSK | 1 | 53 | 22.12 | 22.25 | 22.20 | | |
| 20 | QPSK | 1 | 104 | 22.08 | 22.21 | 22.16 | | |
| 20 | QPSK | 50 | 0 | 22.12 | 22.21 | 22.18 | 23.0 | 0.6 |
| 20 | QPSK | 50 | 28 | 22.06 | 22.23 | 22.13 | 23.6 | 0.0 |
| 20 | QPSK | 50 | 56 | 22.11 | 22.16 | 22.16 | 23.0 | 0.6 |
| 20 | QPSK | 100 | 0 | 22.05 | 22.19 | 22.13 | | |
| 20 | 16QAM | 1 | 1 | 21.80 | 21.83 | 21.80 | 23.0 | 0.6 |
| 20 | 64QAM | 1 | 1 | 20.52 | 20.58 | 20.48 | 21.5 | 2.1 |
| 20 | 256QAM | 1 | 1 | 19.05 | 19.16 | 19.14 | 19.5 | 4.1 |
| Channel | | | | 164300 | 166300 | 168300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 821.5 | 831.5 | 841.5 | | |
| 15 | QPSK | 1 | 1 | 22.06 | 22.16 | 22.11 | 23.0 | 0.0 |
| Channel | | | | 165300 | 167300 | 169300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 819 | 831.5 | 844 | | |
| 10 | QPSK | 1 | 1 | 22.09 | 22.23 | 22.09 | 23.6 | 0.0 |
| Channel | | | | 163300 | 165300 | 167300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 816.5 | 831.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 22.03 | 22.15 | 22.11 | 23.6 | 0.0 |

n66 Ant 0 ECI 10

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 346000 | 349000 | 352000 | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1760 | | |
| 40 | QPSK | 1 | 1 | 18.07 | 18.08 | 18.01 | 19.1 | 0.0 |
| 40 | QPSK | 1 | 108 | 17.97 | 17.92 | 17.65 | | |
| 40 | QPSK | 1 | 214 | 17.82 | 17.92 | 17.73 | | |
| 40 | QPSK | 108 | 0 | 17.80 | 17.88 | 17.59 | 19.1 | 0.0 |
| 40 | QPSK | 108 | 54 | 17.78 | 17.88 | 17.65 | 19.1 | 0.0 |
| 40 | QPSK | 108 | 108 | 17.77 | 17.77 | 17.74 | 19.1 | 0.0 |
| 40 | QPSK | 216 | 0 | 17.74 | 17.86 | 17.59 | | |



n41 Ant 0 ECI 10

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-------------|-------------|-------------|---------------------|----------|
| | | | | Low | Middle | High | | |
| Channel | | | | Ch. / Freq. | Ch. / Freq. | Ch. / Freq. | | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | | |
| 100 | QPSK | 1 | 1 | 18.41 | 18.47 | 18.39 | 19.7 | 0.0 |
| 100 | QPSK | 1 | 137 | 18.33 | 18.15 | 17.97 | | |
| 100 | QPSK | 1 | 271 | 18.01 | 18.18 | 18.11 | | |
| 100 | QPSK | 135 | 0 | 18.11 | 18.08 | 17.96 | 19.7 | 0.0 |
| 100 | QPSK | 135 | 69 | 18.14 | 18.23 | 18.06 | 19.7 | 0.0 |
| 100 | QPSK | 135 | 138 | 18.16 | 18.22 | 18.16 | 19.7 | 0.0 |
| 100 | QPSK | 270 | 0 | 18.14 | 18.30 | 18.14 | | |



n2 Ant 1 ECI 10

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 374000 | 376000 | 378000 | | |
| Frequency (MHz) | | | | 1870 | 1880 | 1890 | | |
| 40 | QPSK | 1 | 1 | 18.11 | 18.12 | 18.04 | | |
| 40 | QPSK | 1 | 100 | 18.02 | 17.96 | 17.97 | 19.2 | 0.0 |
| 40 | QPSK | 1 | 214 | 17.82 | 18.05 | 17.98 | | |
| 40 | QPSK | 108 | 0 | 17.99 | 17.94 | 17.79 | 19.2 | 0.0 |
| 40 | QPSK | 108 | 54 | 17.93 | 18.09 | 17.78 | 19.2 | 0.0 |
| 40 | QPSK | 108 | 108 | 17.94 | 17.84 | 17.78 | | |
| 40 | QPSK | 216 | 0 | 17.79 | 17.99 | 17.68 | 19.2 | 0.0 |

n5 Ant 1 ECI 10

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 168800 | 167300 | 167800 | | |
| Frequency (MHz) | | | | 834 | 836.5 | 839 | | |
| 20 | PI2 BPSK | 1 | 1 | 22.77 | 22.75 | 22.69 | | |
| 20 | PI2 BPSK | 1 | 50 | 22.80 | 22.83 | 22.74 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 104 | 22.81 | 22.84 | 22.83 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.07 | 22.12 | 22.08 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 22.81 | 22.88 | 22.82 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 21.82 | 22.03 | 21.89 | | |
| 20 | PI2 BPSK | 100 | 0 | 22.10 | 22.28 | 22.02 | 23.5 | 0.5 |
| 20 | QPSK | 1 | 1 | 22.77 | 22.83 | 22.74 | | |
| 20 | QPSK | 1 | 53 | 22.80 | 22.88 | 22.48 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 22.81 | 22.78 | 22.83 | | |
| 20 | QPSK | 50 | 0 | 21.56 | 21.67 | 21.45 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 22.84 | 22.78 | 22.84 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 21.85 | 21.81 | 21.57 | | |
| 20 | QPSK | 100 | 0 | 21.52 | 21.63 | 21.45 | 23.0 | 1.0 |
| 20 | 16QAM | 1 | 1 | 21.48 | 21.55 | 21.47 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.21 | 20.21 | 20.08 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 18.79 | 18.85 | 18.83 | 19.5 | 4.5 |
| Channel | | | | 168300 | 167300 | 168300 | | |
| Frequency (MHz) | | | | 831.5 | 838.5 | 841.5 | | |
| 15 | QPSK | 1 | 1 | 22.64 | 22.85 | 22.64 | 24.0 | 0.0 |
| Channel | | | | 168800 | 167300 | 168800 | | |
| Frequency (MHz) | | | | 836 | 838.5 | 841 | | |
| 10 | QPSK | 1 | 1 | 22.58 | 22.71 | 22.56 | 24.0 | 0.0 |
| Channel | | | | 168300 | 167300 | 168300 | | |
| Frequency (MHz) | | | | 836.5 | 836.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 22.81 | 22.87 | 22.83 | 24.0 | 0.0 |

n7 Ant 1 ECI 10

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 558000 | 507000 | 509000 | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 19.87 | 19.95 | 19.89 | | |
| 50 | QPSK | 1 | 135 | 19.87 | 19.82 | 19.83 | 20.8 | 0.0 |
| 50 | QPSK | 1 | 268 | 19.68 | 19.89 | 19.72 | | |
| 50 | QPSK | 135 | 0 | 19.67 | 19.78 | 19.63 | 20.8 | 0.0 |
| 50 | QPSK | 135 | 68 | 19.76 | 19.85 | 19.81 | 20.8 | 0.0 |
| 50 | QPSK | 135 | 135 | 19.76 | 19.70 | 19.83 | | |
| 50 | QPSK | 270 | 0 | 19.70 | 19.75 | 19.51 | 20.8 | 0.0 |



n26 Ant 1 ECI 10

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|--------------------|--------------------|--------------------|---------------------|----------|
| | | | | Ch. / Freq. 164800 | Ch. / Freq. 166300 | Ch. / Freq. 167800 | | |
| Channel | | | | 824 | 831.5 | 839 | | |
| Frequency (MHz) | | | | | | | | |
| 20 | PI2 BPSK | 1 | 1 | 22.71 | 22.77 | 22.69 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 1 | 59 | 22.73 | 22.83 | 22.73 | | |
| 20 | PI2 BPSK | 1 | 104 | 22.76 | 22.85 | 22.81 | | |
| 20 | PI2 BPSK | 50 | 0 | 22.36 | 22.41 | 22.32 | 23.5 | 0.5 |
| 20 | PI2 BPSK | 50 | 28 | 22.80 | 22.85 | 22.83 | 24.0 | 0.0 |
| 20 | PI2 BPSK | 50 | 56 | 22.32 | 22.41 | 22.31 | | |
| 20 | PI2 BPSK | 100 | 0 | 22.29 | 22.39 | 22.34 | 23.5 | 0.5 |
| 20 | QPSK | 1 | 1 | 22.81 | 22.88 | 22.82 | | |
| 20 | QPSK | 1 | 53 | 22.81 | 22.85 | 22.78 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 104 | 22.78 | 22.81 | 22.71 | | |
| 20 | QPSK | 50 | 0 | 21.80 | 21.88 | 21.87 | 23.0 | 1.0 |
| 20 | QPSK | 50 | 28 | 22.76 | 22.83 | 22.76 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 56 | 21.89 | 21.95 | 21.90 | | |
| 20 | QPSK | 100 | 0 | 21.82 | 21.93 | 21.87 | 23.0 | 1.0 |
| 20 | 16QAM | 1 | 1 | 21.47 | 21.55 | 21.52 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.12 | 20.15 | 20.10 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 18.66 | 18.75 | 18.74 | 19.5 | 4.5 |
| Channel | | | | 164300 | 165300 | 166300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 811.5 | 811.5 | 811.5 | | |
| 15 | QPSK | 1 | 1 | 22.71 | 22.83 | 22.73 | 24.0 | 0.0 |
| Channel | | | | 163800 | 165300 | 166800 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 819 | 831.5 | 844 | | |
| 10 | QPSK | 1 | 1 | 22.72 | 22.83 | 22.76 | 24.0 | 0.0 |
| Channel | | | | 163300 | 165300 | 165300 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 816.5 | 831.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 22.78 | 22.87 | 22.78 | 24.0 | 0.0 |

n66 Ant 1 ECI 10

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|--------------------|--------------------|--------------------|---------------------|----------|
| | | | | Ch. / Freq. 346000 | Ch. / Freq. 349000 | Ch. / Freq. 352000 | | |
| Channel | | | | 1730 | 1745 | 1760 | | |
| Frequency (MHz) | | | | | | | | |
| 40 | QPSK | 1 | 1 | 16.66 | 16.74 | 16.72 | | |
| 40 | QPSK | 1 | 109 | 16.57 | 16.68 | 16.52 | 17.6 | 0.0 |
| 40 | QPSK | 1 | 214 | 16.60 | 16.53 | 16.55 | | |
| 40 | QPSK | 108 | 0 | 16.50 | 16.85 | 16.56 | 17.6 | 0.0 |
| 40 | QPSK | 108 | 54 | 16.62 | 16.70 | 16.67 | 17.6 | 0.0 |
| 40 | QPSK | 108 | 109 | 16.51 | 16.55 | 16.55 | | |
| 40 | QPSK | 216 | 0 | 16.56 | 16.83 | 16.59 | 17.6 | 0.0 |



n41 Ant 1 ECI 10

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|------------------|---------------------|-------------------|---------------------|----------|
| | | | | Low Ch. Freq. | Middle Ch. Freq. | High Ch. Freq. | | |
| Channel | | | | 2546.01 | 2592.99 | 2640 | | |
| Frequency (MHz) | | | | | | | | |
| 100 | QPSK | 1 | 1 | 18.17 | 18.22 | 18.19 | | |
| 100 | QPSK | 1 | 137 | 18.18 | 18.15 | 17.99 | 19.3 | 0.0 |
| 100 | QPSK | 1 | 271 | 17.88 | 17.98 | 17.92 | | |
| 100 | QPSK | 135 | 0 | 17.99 | 17.93 | 17.84 | 19.3 | 0.0 |
| 100 | QPSK | 135 | 69 | 17.95 | 18.13 | 18.02 | 19.3 | 0.0 |
| 100 | QPSK | 135 | 138 | 17.94 | 17.98 | 17.93 | | |
| 100 | QPSK | 270 | 0 | 17.79 | 18.06 | 17.63 | 19.3 | 0.0 |



n2 Ant 2 ECI 10

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 1870 | 1880 | 1890 | | |
| Frequency (MHz) | | | | | | | | |
| 40 | QPSK | 1 | 1 | 12.45 | 12.48 | 12.35 | 13.7 | 0.0 |
| 40 | QPSK | 1 | 108 | 12.27 | 12.38 | 12.15 | | |
| 40 | QPSK | 1 | 214 | 12.22 | 12.32 | 12.14 | | |
| 40 | QPSK | 108 | 0 | 12.18 | 12.28 | 11.94 | 13.7 | 0.0 |
| 40 | QPSK | 108 | 54 | 12.28 | 12.43 | 12.18 | 13.7 | 0.0 |
| 40 | QPSK | 108 | 108 | 12.18 | 12.18 | 12.06 | 13.7 | 0.0 |
| 40 | QPSK | 216 | 0 | 12.09 | 12.37 | 11.98 | | |

n7 Ant 2 ECI 10

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 2525 | 2535 | 2545 | | |
| Frequency (MHz) | | | | | | | | |
| 50 | QPSK | 1 | 1 | 14.75 | 14.87 | 14.73 | 16.0 | 0.0 |
| 50 | QPSK | 1 | 135 | 14.62 | 14.68 | 14.57 | | |
| 50 | QPSK | 1 | 268 | 14.61 | 14.64 | 14.55 | | |
| 50 | QPSK | 135 | 0 | 14.47 | 14.83 | 14.47 | 16.0 | 0.0 |
| 50 | QPSK | 135 | 68 | 14.69 | 14.74 | 14.54 | 16.0 | 0.0 |
| 50 | QPSK | 135 | 135 | 14.56 | 14.71 | 14.58 | 16.0 | 0.0 |
| 50 | QPSK | 270 | 0 | 14.44 | 14.57 | 14.34 | | |

n66 Ant 2 ECI 10

| BW (MHz) | Modulation | RB Size | RB Offset | Power | | | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|----------|
| | | | | Low Ch. / Freq. | Middle Ch. / Freq. | High Ch. / Freq. | | |
| Channel | | | | 1730 | 1745 | 1760 | | |
| Frequency (MHz) | | | | | | | | |
| 40 | QPSK | 1 | 1 | 14.24 | 14.26 | 14.15 | 15.6 | 0.0 |
| 40 | QPSK | 1 | 108 | 14.06 | 14.02 | 14.01 | | |
| 40 | QPSK | 1 | 214 | 13.93 | 14.11 | 14.06 | | |
| 40 | QPSK | 108 | 0 | 14.10 | 13.99 | 13.90 | 15.6 | 0.0 |
| 40 | QPSK | 108 | 54 | 14.04 | 14.11 | 13.87 | 15.6 | 0.0 |
| 40 | QPSK | 108 | 108 | 14.02 | 14.01 | 13.81 | 15.6 | 0.0 |
| 40 | QPSK | 216 | 0 | 13.95 | 14.15 | 13.81 | | |



n41 Ant 2 ECI 10

| BW (MHz) | Modulation | RB Size | RB Offset | Power | Power | Power | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| | | | | Low Ch. / Freq. 508202 | Middle Ch. / Freq. 518598 | High Ch. / Freq. 528990 | | |
| Channel | | | | 2546.01 | 2592.99 | 2640 | | |
| Frequency (MHz) | | | | | | | | |
| 100 | QPSK | 1 | 1 | 13.53 | 13.94 | 13.35 | | |
| 100 | QPSK | 1 | 157 | 13.46 | 13.46 | 13.32 | 14.7 | 0.0 |
| 100 | QPSK | 1 | 271 | 13.38 | 13.43 | 13.32 | | |
| 100 | QPSK | 135 | 0 | 13.30 | 13.28 | 13.21 | 14.7 | 0.0 |
| 100 | QPSK | 135 | 69 | 13.28 | 13.54 | 13.29 | 14.7 | 0.0 |
| 100 | QPSK | 135 | 159 | 13.42 | 13.46 | 13.35 | | |
| 100 | QPSK | 270 | 0 | 13.40 | 13.46 | 13.42 | 14.7 | 0.0 |



n2 Ant 3 ECI 10

| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 374000 | Power Middle Ch. / Freq. 376000 | Power High Ch. / Freq. 378000 | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|
| Channel | | | | | | | | |
| Frequency (MHz) | | | | 1870 | 1880 | 1890 | | |
| 40 | QPSK | 1 | 1 | 21.67 | 21.71 | 21.62 | | |
| 40 | QPSK | 1 | 108 | 21.69 | 21.62 | 21.59 | 22.8 | 0.0 |
| 40 | QPSK | 1 | 214 | 21.42 | 21.51 | 21.50 | | |
| 40 | QPSK | 108 | 0 | 21.54 | 21.46 | 21.41 | 22.8 | 0.0 |
| 40 | QPSK | 108 | 54 | 21.59 | 21.81 | 21.52 | 22.8 | 0.0 |
| 40 | QPSK | 108 | 108 | 21.46 | 21.53 | 21.38 | 22.8 | 0.0 |
| 40 | QPSK | 216 | 0 | 21.51 | 21.87 | 21.47 | | |

n7 Ant 3 ECI 10

| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 505000 | Power Middle Ch. / Freq. 507000 | Power High Ch. / Freq. 509000 | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|
| Channel | | | | | | | | |
| Frequency (MHz) | | | | 2525 | 2535 | 2545 | | |
| 50 | QPSK | 1 | 1 | 16.37 | 16.46 | 16.39 | | |
| 50 | QPSK | 1 | 115 | 16.29 | 16.29 | 16.25 | 17.8 | 0.0 |
| 50 | QPSK | 1 | 268 | 16.15 | 16.38 | 16.11 | | |
| 50 | QPSK | 135 | 0 | 16.20 | 16.26 | 15.95 | 17.8 | 0.0 |
| 50 | QPSK | 135 | 68 | 16.17 | 16.46 | 16.21 | 17.8 | 0.0 |
| 50 | QPSK | 135 | 135 | 16.18 | 16.30 | 16.09 | 17.8 | 0.0 |
| 50 | QPSK | 270 | 0 | 16.15 | 16.38 | 16.10 | | |

n66 Ant 3 ECI 10

| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 346000 | Power Middle Ch. / Freq. 349000 | Power High Ch. / Freq. 352000 | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|
| Channel | | | | | | | | |
| Frequency (MHz) | | | | 1730 | 1745 | 1760 | | |
| 40 | QPSK | 1 | 1 | 19.55 | 19.63 | 19.44 | | |
| 40 | QPSK | 1 | 108 | 19.47 | 19.49 | 19.29 | 20.9 | 0.0 |
| 40 | QPSK | 1 | 214 | 19.30 | 19.40 | 19.34 | | |
| 40 | QPSK | 108 | 0 | 19.48 | 19.50 | 19.37 | 20.9 | 0.0 |
| 40 | QPSK | 108 | 54 | 19.49 | 19.58 | 19.27 | 20.9 | 0.0 |
| 40 | QPSK | 108 | 108 | 19.38 | 19.37 | 19.37 | 20.9 | 0.0 |
| 40 | QPSK | 216 | 0 | 19.25 | 19.37 | 19.11 | | |



n41 Ant 3 ECI 10

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low | | Power Middle | | Power High | | Tune-up limit (dBm) | MPR (dB) |
|----------|------------|---------|-----------|-------------|---------|--------------|--------|-------------|--------|---------------------|----------|
| | | | | Ch. / Freq. | 509202 | Ch. / Freq. | 518598 | Ch. / Freq. | 528000 | | |
| | Channel | | | 2546.01 | 2592.99 | 2640 | | | | | |
| 100 | QPSK | 1 | 1 | 15.28 | 15.29 | 15.11 | | | | | |
| 100 | QPSK | 1 | 137 | 15.15 | 15.07 | 15.02 | | | | 16.1 | 0.0 |
| 100 | QPSK | 1 | 271 | 15.03 | 15.06 | 14.94 | | | | | |
| 100 | QPSK | 135 | 0 | 15.09 | 15.01 | 14.83 | | | | 16.1 | 0.0 |
| 100 | QPSK | 135 | 69 | 14.94 | 15.19 | 14.79 | | | | 16.1 | 0.0 |
| 100 | QPSK | 135 | 138 | 15.06 | 14.88 | 14.80 | | | | 16.1 | 0.0 |
| 100 | QPSK | 270 | 0 | 14.89 | 15.18 | 14.78 | | | | | |

Part270 n77 HPUE Ant 3

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low | | Power Middle | | Power High | | Tune-up limit (dBm) | MPR (dB) |
|----------|-----------------|---------|-----------|-------------|--------|--------------|--------|-------------|--------|---------------------|----------|
| | | | | Ch. / Freq. | 650000 | Ch. / Freq. | 656000 | Ch. / Freq. | 662000 | | |
| | Channel | | | 3750 | 3840 | 3930 | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 18.05 | 18.14 | 17.83 | | | | 19.4 | 0.0 |
| 100 | PI2 BPSK | 1 | 137 | 17.90 | 17.99 | 17.82 | | | | | |
| 100 | PI2 BPSK | 1 | 271 | 17.69 | 17.95 | 17.82 | | | | | |
| 100 | PI2 BPSK | 135 | 0 | 18.02 | 18.10 | 17.90 | | | | 19.4 | 0.0 |
| 100 | PI2 BPSK | 135 | 69 | 18.05 | 18.16 | 17.86 | | | | 19.4 | 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 17.92 | 17.99 | 17.89 | | | | 19.4 | 0.0 |
| 100 | PI2 BPSK | 270 | 0 | 17.71 | 17.96 | 17.81 | | | | | |
| 100 | QPSK | 1 | 1 | 18.11 | 18.19 | 17.92 | | | | | |
| 100 | QPSK | 1 | 137 | 17.94 | 18.01 | 17.80 | | | | 19.4 | 0.0 |
| 100 | QPSK | 1 | 271 | 17.76 | 18.02 | 17.89 | | | | | |
| 100 | QPSK | 135 | 0 | 18.08 | 18.15 | 17.83 | | | | 19.4 | 0.0 |
| 100 | QPSK | 135 | 69 | 18.04 | 18.17 | 17.86 | | | | 19.4 | 0.0 |
| 100 | QPSK | 135 | 138 | 17.90 | 17.88 | 17.85 | | | | 19.4 | 0.0 |
| 100 | QPSK | 270 | 0 | 17.72 | 18.09 | 17.87 | | | | | |
| 100 | 16QAM | 1 | 1 | 18.04 | 18.15 | 17.89 | | | | 19.4 | 0.0 |
| 100 | 16QAM | 1 | 1 | 17.88 | 17.97 | 17.82 | | | | 19.4 | 0.0 |
| 100 | 256QAM | 1 | 1 | 17.71 | 17.99 | 17.85 | | | | 19.4 | 0.0 |
| | Channel | | | 689968 | 650000 | 662334 | | | | | |
| | Frequency (MHz) | | | 3745.02 | 3840 | 3935.01 | | | | | |
| 90 | QPSK | 1 | 1 | 17.85 | 17.91 | 17.82 | | | | 19.4 | 0.0 |
| | Channel | | | 649334 | 650000 | 662668 | | | | | |
| | Frequency (MHz) | | | 3743.01 | 3840 | 3932.02 | | | | | |
| 80 | QPSK | 1 | 1 | 17.85 | 17.90 | 17.81 | | | | 19.4 | 0.0 |
| | Channel | | | 649000 | 650000 | 663000 | | | | | |
| | Frequency (MHz) | | | 3735 | 3840 | 3945 | | | | | |
| 70 | QPSK | 1 | 1 | 17.85 | 17.93 | 17.84 | | | | 19.4 | 0.0 |
| | Channel | | | 648950 | 650000 | 663334 | | | | | |
| | Frequency (MHz) | | | 3730.02 | 3840 | 3950.01 | | | | | |
| 60 | QPSK | 1 | 1 | 17.88 | 18.00 | 17.84 | | | | 19.4 | 0.0 |
| | Channel | | | 648334 | 650000 | 663668 | | | | | |
| | Frequency (MHz) | | | 3740.01 | 3840 | 3940.02 | | | | | |
| 50 | QPSK | 1 | 1 | 17.92 | 17.95 | 17.86 | | | | 19.4 | 0.0 |
| | Channel | | | 648000 | 650000 | 664000 | | | | | |
| | Frequency (MHz) | | | 3720 | 3940 | 3950 | | | | | |
| 40 | QPSK | 1 | 1 | 17.85 | 17.85 | 17.87 | | | | 19.4 | 0.0 |
| | Channel | | | 647668 | 650000 | 664334 | | | | | |
| | Frequency (MHz) | | | 3716.02 | 3840 | 3965.01 | | | | | |
| 30 | QPSK | 1 | 1 | 17.93 | 17.92 | 17.81 | | | | 19.4 | 0.0 |
| | Channel | | | 647334 | 650000 | 664668 | | | | | |
| | Frequency (MHz) | | | 3712.01 | 3840 | 3970.02 | | | | | |
| 25 | QPSK | 1 | 1 | 17.84 | 17.97 | 17.87 | | | | 19.4 | 0.0 |
| | Channel | | | 647334 | 650000 | 664668 | | | | | |
| | Frequency (MHz) | | | 3712.51 | 3840 | 3972.51 | | | | | |
| 20 | QPSK | 1 | 1 | 17.93 | 17.94 | 17.81 | | | | 19.4 | 0.0 |
| | Channel | | | 647168 | 650000 | 664834 | | | | | |
| | Frequency (MHz) | | | 3707.52 | 3840 | 3972.51 | | | | | |
| 15 | QPSK | 1 | 1 | 17.84 | 17.80 | 17.83 | | | | 19.4 | 0.0 |
| | Channel | | | 647000 | 650000 | 665000 | | | | | |
| | Frequency (MHz) | | | 3705 | 3840 | 3975 | | | | | |
| 10 | QPSK | 1 | 1 | 17.88 | 17.95 | 17.89 | | | | 19.4 | 0.0 |

Part270 n78 HPUE Ant 3

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low | | Power Middle | | Power High | | Tune-up limit (dBm) | MPR (dB) |
|----------|-----------------|---------|-----------|-------------|--------|--------------|--------|-------------|--------|---------------------|----------|
| | | | | Ch. / Freq. | 650000 | Ch. / Freq. | 650000 | Ch. / Freq. | 650000 | | |
| | Channel | | | 3750 | 3750 | 3750 | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 18.07 | 18.07 | 18.07 | | | | 19.4 | 0.0 |
| 100 | PI2 BPSK | 1 | 137 | 17.73 | 17.73 | 17.73 | | | | | |
| 100 | PI2 BPSK | 1 | 271 | 17.87 | 17.87 | 17.87 | | | | | |
| 100 | PI2 BPSK | 135 | 0 | 18.00 | 18.00 | 18.00 | | | | 19.4 | 0.0 |
| 100 | PI2 BPSK | 135 | 69 | 18.01 | 18.01 | 18.01 | | | | 19.4 | 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 17.73 | 17.73 | 17.73 | | | | 19.4 | 0.0 |
| 100 | PI2 BPSK | 270 | 0 | 17.83 | 17.83 | 17.83 | | | | | |
| 100 | QPSK | 1 | 1 | 18.12 | 18.12 | 18.12 | | | | | |
| 100 | QPSK | 1 | 137 | 17.80 | 17.80 | 17.80 | | | | 19.4 | 0.0 |
| 100 | QPSK | 1 | 271 | 17.91 | 17.91 | 17.91 | | | | | |
| 100 | QPSK | 135 | 0 | 18.03 | 18.03 | 18.03 | | | | 19.4 | 0.0 |
| 100 | QPSK | 135 | 69 | 18.07 | 18.07 | 18.07 | | | | 19.4 | 0.0 |
| 100 | QPSK | 135 | 138 | 17.70 | 17.70 | 17.70 | | | | 19.4 | 0.0 |
| 100 | 16QAM | 1 | 1 | 17.82 | 17.82 | 17.82 | | | | 19.4 | 0.0 |
| 100 | 16QAM | 1 | 1 | 17.75 | 17.75 | 17.75 | | | | 19.4 | 0.0 |
| 100 | 256QAM | 1 | 1 | 17.71 | 17.82 | 17.82 | | | | 19.4 | 0.0 |
| | Channel | | | 688968 | 650000 | 650334 | | | | | |
| | Frequency (MHz) | | | 3745.02 | 3750 | 3755.01 | | | | | |
| 90 | QPSK | 1 | 1 | 17.93 | 18.04 | 17.73 | | | | 19.4 | 0.0 |
| | Channel | | | 649334 | 650000 | 660668 | | | | | |
| | Frequency (MHz) | | | 3740.01 | 3750 | 3760.02 | | | | | |
| 80 | QPSK | 1 | 1 | 17.85 | 18.03 | 17.73 | | | | 19.4 | 0.0 |
| | Channel | | | 649000 | 650000 | 661000 | | | | | |
| | Frequency (MHz) | | | 3735 | 3750 | 3765 | | | | | |
| 70 | QPSK | 1 | 1 | 17.85 | 18.09 | 17.75 | | | | 19.4 | 0.0 |
| | Channel | | | 648334 | 650000 | 661334 | | | | | |
| | Frequency (MHz) | | | 3730.02 | 3750 | 3770.01 | | | | | |
| 60 | QPSK | 1 | 1 | 17.96 | 18.07 | 17.74 | | | | 19.4 | 0.0 |
| | Channel | | | 648334 | 650000 | 661668 | | | | | |
| | Frequency (MHz) | | | 3725.01 | 3760 | 3785.02 | | | | | |
| 50 | QPSK | 1 | 1 | 17.90 | 18.05 | 17.77 | | | | 19.4 | 0.0 |
| | Channel | | | 648000 | 650000 | 662000 | | | | | |
| | Frequency (MHz) | | | 3720 | 3760 | 3790 | | | | | |
| 40 | QPSK | 1 | 1 | 17.97 | 18.09 | 17.79 | | | | 19.4 | 0.0 |
| | Channel | | | 647668 | 650000 | 662334 | | | | | |
| | Frequency (MHz) | | | 3716.02 | 3760 | 3785.01 | | | | | |
| 30 | QPSK | 1 | 1 | 17.92 | 18.04 | 17.80 | | | | 19.4 | 0.0 |
| | Channel | | | 647334 | 650000 | 662668 | | | | | |
| | Frequency (MHz) | | | 3712.01 | 3760 | 3790.02 | | | | | |
| 25 | QPSK | 1 | 1 | 17.96 | 18.02 | 17.75 | | | | 19.4 | 0.0 |
| | Channel | | | 647334 | 650000 | 662968 | | | | | |
| | Frequency (MHz) | | | 3712.51 | 3760 | 3787.51 | | | | | |
| 20 | QPSK | 1 | 1 | 17.94 | 18.10 | 17.74 | | | | 19.4 | 0.0 |
| | Channel | | | 647168 | 650000 | 662834 | | | | | |
| | Frequency (MHz) | | | 3707.52 | 3760 | 3792.51 | | | | | |
| 15 | QPSK | 1 | 1 | 17.85 | 18.11 | 17.80 | | | | 19.4 | 0.0 |
| | Channel | | | 647000 | 650000 | 663000 | | | | | |
| | Frequency (MHz) | | | 3705 | 3760 | 3795 | | | | | |
| 10 | QPSK | 1 | 1 | 17.89 | 18.05 | 17.79 | | | | 19.4 | 0.0 |



| Part270 n77 HPUE Ant 4 | | | | | | | |
|------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 656000 | Power High Ch. / Freq. 662000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 13.19 | 13.33 | 13.03 | |
| 100 | PI2 BPSK | 1 | 137 | 13.11 | 13.20 | 12.94 | |
| 100 | PI2 BPSK | 1 | 271 | 12.94 | 13.07 | 12.96 | |
| 100 | PI2 BPSK | 135 | 0 | 13.11 | 13.33 | 13.03 | 14.5 0.0 |
| 100 | PI2 BPSK | 135 | 69 | 13.11 | 13.33 | 13.04 | 14.5 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 13.14 | 13.13 | 12.90 | 14.5 0.0 |
| 100 | PI2 BPSK | 270 | 0 | 12.93 | 13.14 | 12.90 | 14.5 0.0 |
| 100 | QPSK | 1 | 1 | 13.21 | 13.35 | 13.14 | |
| 100 | QPSK | 1 | 137 | 13.16 | 13.24 | 13.03 | 14.5 0.0 |
| 100 | QPSK | 1 | 271 | 13.00 | 13.16 | 13.01 | |
| 100 | QPSK | 135 | 0 | 13.20 | 13.30 | 13.11 | 14.5 0.0 |
| 100 | QPSK | 135 | 69 | 13.16 | 13.33 | 13.04 | 14.5 0.0 |
| 100 | QPSK | 135 | 138 | 13.08 | 13.20 | 12.99 | 14.5 0.0 |
| 100 | QPSK | 270 | 0 | 13.00 | 13.14 | 12.92 | 14.5 0.0 |
| 100 | 16QAM | 1 | 1 | 13.12 | 13.33 | 13.10 | 14.5 0.0 |
| 100 | 64QAM | 1 | 1 | 13.10 | 13.20 | 12.93 | 14.5 0.0 |
| 100 | 256QAM | 1 | 1 | 13.00 | 13.12 | 12.96 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 13.05 | 13.22 | 12.94 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 13.13 | 13.15 | 12.96 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 13.10 | 13.19 | 12.93 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 13.07 | 13.20 | 13.01 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 13.08 | 13.19 | 12.94 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 13.05 | 13.18 | 13.00 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 13.06 | 13.20 | 13.00 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 13.15 | 13.22 | 12.94 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 13.08 | 13.17 | 12.96 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 13.14 | 13.15 | 13.01 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 13.08 | 13.20 | 12.94 | 14.5 0.0 |

| Part270 n78 HPUE Ant 4 | | | | | | | |
|------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW (MHz) | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 656000 | Power High Ch. / Freq. 662000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 13.26 | | | |
| 100 | PI2 BPSK | 1 | 137 | 13.17 | | | |
| 100 | PI2 BPSK | 1 | 271 | 13.15 | | | |
| 100 | PI2 BPSK | 135 | 0 | 13.22 | | | 14.5 0.0 |
| 100 | PI2 BPSK | 135 | 69 | 13.30 | | | 14.5 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 13.18 | | | 14.5 0.0 |
| 100 | PI2 BPSK | 270 | 0 | 13.17 | | | 14.5 0.0 |
| 100 | QPSK | 1 | 1 | 13.32 | | | |
| 100 | QPSK | 1 | 137 | 13.24 | | | 14.5 0.0 |
| 100 | QPSK | 1 | 271 | 13.24 | | | |
| 100 | QPSK | 135 | 0 | 13.23 | | | 14.5 0.0 |
| 100 | QPSK | 135 | 69 | 13.20 | | | 14.5 0.0 |
| 100 | QPSK | 135 | 138 | 13.16 | | | 14.5 0.0 |
| 100 | QPSK | 270 | 0 | 13.17 | | | 14.5 0.0 |
| 100 | 16QAM | 1 | 1 | 13.22 | | | 14.5 0.0 |
| 100 | 64QAM | 1 | 1 | 13.13 | | | 14.5 0.0 |
| 100 | 256QAM | 1 | 1 | 13.18 | | | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 13.25 | 13.23 | 13.27 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 13.25 | 13.20 | 13.29 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 13.30 | 13.22 | 13.21 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 13.22 | 13.30 | 13.23 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 13.30 | 13.27 | 13.26 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 13.23 | 13.31 | 13.21 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 13.27 | 13.28 | 13.23 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 13.29 | 13.25 | 13.22 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 13.30 | 13.22 | 13.26 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 13.22 | 13.25 | 13.23 | 14.5 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 13.30 | 13.21 | 13.31 | 14.5 0.0 |



| Part270 n77 HPUE Ant 6 | | | | | | | |
|------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 656000 | Power High Ch. / Freq. 662000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 12.51 | 12.64 | 12.51 | |
| 100 | PI2 BPSK | 1 | 137 | 12.42 | 12.66 | 12.54 | |
| 100 | PI2 BPSK | 1 | 271 | 12.43 | 12.57 | 12.37 | |
| 100 | PI2 BPSK | 135 | 0 | 12.47 | 12.41 | 12.37 | 14.3 0.0 |
| 100 | PI2 BPSK | 135 | 69 | 12.39 | 12.41 | 12.35 | 14.3 0.0 |
| 100 | PI2 BPSK | 135 | 133 | 12.35 | 12.52 | 12.40 | |
| 100 | PI2 BPSK | 270 | 0 | 12.43 | 12.53 | 12.42 | 14.3 0.0 |
| 100 | QPSK | 1 | 1 | 12.58 | 12.76 | 12.60 | |
| 100 | QPSK | 1 | 137 | 12.58 | 12.63 | 12.88 | 14.3 0.0 |
| 100 | QPSK | 1 | 271 | 12.51 | 12.69 | 12.50 | |
| 100 | QPSK | 135 | 0 | 12.56 | 12.64 | 12.64 | 14.3 0.0 |
| 100 | QPSK | 135 | 69 | 12.56 | 12.67 | 12.59 | 14.3 0.0 |
| 100 | QPSK | 135 | 133 | 12.49 | 12.61 | 12.54 | |
| 100 | QPSK | 270 | 0 | 12.61 | 12.66 | 12.55 | 14.3 0.0 |
| 100 | 16QAM | 1 | 1 | 12.47 | 12.52 | 12.45 | 14.3 0.0 |
| 100 | 64QAM | 1 | 1 | 12.38 | 12.53 | 12.48 | 14.3 0.0 |
| 100 | 256QAM | 1 | 1 | 12.32 | 12.47 | 12.40 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 12.32 | 12.52 | 12.38 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 12.42 | 12.49 | 12.44 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 12.31 | 12.44 | 12.41 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 12.31 | 12.43 | 12.43 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 12.31 | 12.43 | 12.43 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 12.31 | 12.44 | 12.42 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 12.49 | 12.47 | 12.38 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 12.31 | 12.44 | 12.45 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 12.31 | 12.43 | 12.47 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 12.33 | 12.47 | 12.38 | 14.3 0.0 |

| Part270 n78 HPUE Ant 6 | | | | | | | |
|------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|----------|
| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 656000 | Power High Ch. / Freq. 662000 | MPR (dB) |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 12.41 | 12.41 | 12.41 | |
| 100 | PI2 BPSK | 1 | 137 | 12.55 | 12.54 | 12.54 | |
| 100 | PI2 BPSK | 1 | 271 | 12.38 | 12.38 | 12.38 | |
| 100 | PI2 BPSK | 135 | 0 | 12.36 | 12.36 | 12.36 | 14.3 0.0 |
| 100 | PI2 BPSK | 135 | 69 | 12.41 | 12.41 | 12.41 | 14.3 0.0 |
| 100 | PI2 BPSK | 135 | 133 | 12.35 | 12.35 | 12.35 | 14.3 0.0 |
| 100 | PI2 BPSK | 270 | 0 | 12.32 | 12.32 | 12.32 | 14.3 0.0 |
| 100 | QPSK | 1 | 1 | 12.62 | 12.62 | 12.62 | |
| 100 | QPSK | 1 | 137 | 12.46 | 12.46 | 12.46 | 14.3 0.0 |
| 100 | QPSK | 1 | 271 | 12.41 | 12.41 | 12.41 | |
| 100 | QPSK | 135 | 0 | 12.56 | 12.56 | 12.56 | 14.3 0.0 |
| 100 | QPSK | 135 | 69 | 12.59 | 12.59 | 12.59 | 14.3 0.0 |
| 100 | QPSK | 135 | 133 | 12.43 | 12.43 | 12.43 | 14.3 0.0 |
| 100 | QPSK | 270 | 0 | 12.40 | 12.40 | 12.40 | 14.3 0.0 |
| 100 | 16QAM | 1 | 1 | 12.43 | 12.43 | 12.43 | 14.3 0.0 |
| 100 | 64QAM | 1 | 1 | 12.38 | 12.38 | 12.38 | 14.3 0.0 |
| 100 | 256QAM | 1 | 1 | 12.44 | 12.44 | 12.44 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 90 | QPSK | 1 | 1 | 12.51 | 12.56 | 12.59 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 80 | QPSK | 1 | 1 | 12.57 | 12.53 | 12.50 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 70 | QPSK | 1 | 1 | 12.85 | 12.53 | 12.59 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 60 | QPSK | 1 | 1 | 12.60 | 12.51 | 12.55 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 50 | QPSK | 1 | 1 | 12.58 | 12.54 | 12.51 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 40 | QPSK | 1 | 1 | 12.60 | 12.53 | 12.56 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 30 | QPSK | 1 | 1 | 12.59 | 12.63 | 12.54 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 25 | QPSK | 1 | 1 | 12.59 | 12.61 | 12.53 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 20 | QPSK | 1 | 1 | 12.59 | 12.55 | 12.51 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 15 | QPSK | 1 | 1 | 12.56 | 12.52 | 12.54 | 14.3 0.0 |
| Channel | | | | | | | |
| Frequency (MHz) | | | | | | | |
| 10 | QPSK | 1 | 1 | 12.56 | 12.58 | 12.51 | 14.3 0.0 |



| Part270 n77 HPUE Ant 8 | | | | | | | | |
|------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 656000 | Power High Ch. / Freq. 662000 | Tune-up limit (dBm) | MPR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | 14.27 | 14.28 | 14.18 | | |
| 100 | PI2 BPSK | 1 | 137 | 14.31 | 14.31 | 14.23 | 15.7 | 0.0 |
| 100 | PI2 BPSK | 1 | 271 | 14.31 | 14.25 | 14.26 | | |
| 100 | PI2 BPSK | 135 | 0 | 14.32 | 14.32 | 14.08 | 15.7 | 0.0 |
| 100 | PI2 BPSK | 135 | 69 | 14.10 | 14.23 | 14.07 | 15.7 | 0.0 |
| 100 | PI2 BPSK | 135 | 138 | 14.12 | 14.12 | 14.02 | 15.7 | 0.0 |
| 100 | PI2 BPSK | 270 | 0 | 14.22 | 14.25 | 14.14 | 15.7 | 0.0 |
| 100 | QPSK | 1 | 1 | 14.30 | 14.27 | 14.40 | | |
| 100 | QPSK | 1 | 137 | 14.38 | 14.34 | 14.33 | 15.7 | 0.0 |
| 100 | QPSK | 1 | 271 | 14.17 | 14.31 | 14.13 | | |
| 100 | QPSK | 135 | 0 | 14.23 | 14.30 | 14.23 | 15.7 | 0.0 |
| 100 | QPSK | 135 | 69 | 14.38 | 14.42 | 14.19 | 15.7 | 0.0 |
| 100 | QPSK | 135 | 138 | 14.18 | 14.20 | 14.22 | 15.7 | 0.0 |
| 100 | QPSK | 270 | 0 | 14.18 | 14.30 | 14.26 | 15.7 | 0.0 |
| 100 | 16QAM | 1 | 1 | 14.21 | 14.29 | 14.14 | 15.7 | 0.0 |
| 100 | 64QAM | 1 | 1 | 14.18 | 14.15 | 14.11 | 15.7 | 0.0 |
| 100 | 256QAM | 1 | 1 | 14.10 | 14.13 | 14.09 | 15.7 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 90 | QPSK | 1 | 1 | 14.35 | 14.36 | 14.18 | 15.7 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 80 | QPSK | 1 | 1 | 14.23 | 14.38 | 14.12 | 15.7 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 70 | QPSK | 1 | 1 | 14.23 | 14.37 | 14.09 | 15.7 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 60 | QPSK | 1 | 1 | 14.28 | 14.34 | 14.10 | 15.7 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 50 | QPSK | 1 | 1 | 14.37 | 14.39 | 14.10 | 15.7 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 40 | QPSK | 1 | 1 | 14.31 | 14.38 | 14.12 | 15.7 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 30 | QPSK | 1 | 1 | 14.36 | 14.39 | 14.17 | 15.7 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 25 | QPSK | 1 | 1 | 14.27 | 14.36 | 14.16 | 15.7 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 1 | 14.35 | 14.34 | 14.11 | 15.7 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 15 | QPSK | 1 | 1 | 14.32 | 14.35 | 14.14 | 15.7 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 10 | QPSK | 1 | 1 | 14.31 | 14.35 | 14.14 | 15.7 | 0.0 |

| Part270 n78 HPUE Ant 8 | | | | | | | | |
|------------------------|------------|---------|-----------|------------------------------|---------------------------------|-------------------------------|---------------------|----------|
| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. 650000 | Power Middle Ch. / Freq. 656000 | Power High Ch. / Freq. 662000 | Tune-up limit (dBm) | MPR (dB) |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 100 | PI2 BPSK | 1 | 1 | | | 14.34 | | |
| 100 | PI2 BPSK | 1 | 137 | | | 14.37 | | |
| 100 | PI2 BPSK | 1 | 271 | | | 14.36 | | |
| 100 | PI2 BPSK | 135 | 0 | | | 14.37 | 15.7 | 0.0 |
| 100 | PI2 BPSK | 135 | 69 | | | 14.27 | 15.7 | 0.0 |
| 100 | PI2 BPSK | 135 | 138 | | | 14.13 | 15.7 | 0.0 |
| 100 | PI2 BPSK | 270 | 0 | | | 14.21 | 15.7 | 0.0 |
| 100 | QPSK | 1 | 1 | | | 14.36 | | |
| 100 | QPSK | 1 | 137 | | | 14.33 | 15.7 | 0.0 |
| 100 | QPSK | 1 | 271 | | | 14.18 | | |
| 100 | QPSK | 135 | 0 | | | 14.32 | 15.7 | 0.0 |
| 100 | QPSK | 135 | 69 | | | 14.34 | 15.7 | 0.0 |
| 100 | QPSK | 135 | 138 | | | 14.25 | 15.7 | 0.0 |
| 100 | QPSK | 270 | 0 | | | 14.32 | 15.7 | 0.0 |
| 100 | 16QAM | 1 | 1 | | | 14.24 | 15.7 | 0.0 |
| 100 | 64QAM | 1 | 1 | | | 14.18 | 15.7 | 0.0 |
| 100 | 256QAM | 1 | 1 | | | 14.23 | 15.7 | 0.0 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 90 | QPSK | 1 | 1 | | | 14.30 | 14.33 | 14.07 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 80 | QPSK | 1 | 1 | | | 14.33 | 14.30 | 14.11 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 70 | QPSK | 1 | 1 | | | 14.21 | 14.35 | 14.08 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 60 | QPSK | 1 | 1 | | | 14.30 | 14.33 | 14.08 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 50 | QPSK | 1 | 1 | | | 14.24 | 14.28 | 14.12 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 40 | QPSK | 1 | 1 | | | 14.25 | 14.24 | 14.09 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 30 | QPSK | 1 | 1 | | | 14.34 | 14.28 | 14.09 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 25 | QPSK | 1 | 1 | | | 14.30 | 14.26 | 14.14 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 20 | QPSK | 1 | 1 | | | 14.31 | 14.31 | 14.10 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 15 | QPSK | 1 | 1 | | | 14.30 | 14.34 | 14.16 |
| Channel | | | | | | | | |
| Frequency (MHz) | | | | | | | | |
| 10 | QPSK | 1 | 1 | | | 14.34 | 14.28 | 14.12 |



BT BR/EDR

Ant 7 Full power

| Mode | Channel | Frequency (MHz) | Average power (dBm) | |
|---------------|---------|-----------------|---------------------|--|
| | | | 1Mbps | |
| BR / EDR | CH 39 | 2441 | 18.80 | |
| Tune-up Limit | | | 19.5 | |

BT BR/EDR

Ant 7 For open Body-worn Standalone
close Body-worn

| Mode | Channel | Frequency (MHz) | Average power (dBm) | |
|---------------|---------|-----------------|---------------------|--|
| | | | 1Mbps | |
| BR / EDR | CH 39 | 2441 | 12.20 | |
| Tune-up Limit | | | 13.5 | |

BT BR/EDR

For Ant 7 Head Standalone

| Mode | Channel | Frequency (MHz) | Average power (dBm) | |
|---------------|---------|-----------------|---------------------|--|
| | | | 1Mbps | |
| BR / EDR | CH 39 | 2441 | 8.45 | |
| Tune-up Limit | | | 9.5 | |

BT BR/EDR

For Ant 7 Head Simultaneous open Body-worn Simultaneous open&close Hotspot Extremity Simultaneous

| Mode | Channel | Frequency (MHz) | Average power (dBm) | |
|---------------|---------|-----------------|---------------------|--|
| | | | 1Mbps | |
| BR / EDR | CH 39 | 2441 | 7.47 | |
| Tune-up Limit | | | 8.5 | |

| WiFi 6E | | | | Ant 7 | | Ant 5 | | Ant 5+7 | | |
|---------|--------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
| | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| WiFi 6E | 802.11ax-HE80 MCS0 | 7 | 5985 | | | 8.84 | 10.50 | | 13.50 | 86.93 |
| | | 71 | 6305 | 10.75 | 12.50 | | | | 15.00 | |
| | | 119 | 6545 | | | 10.66 | 12.50 | | 15.00 | |
| | | 167 | 6785 | | | 10.65 | 12.50 | | 15.00 | |
| | | 215 | 7025 | 10.61 | 12.00 | | | | 14.50 | |