



<FR1 n2_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 372000 | 376000 | 380000 | 18.0 |
| Frequency (MHz) | | | | 1860 | 1880 | 1900 | |
| 20 | PI/2 BPSK | 1 | 1 | 16.80 | 16.88 | 16.76 | |
| 20 | PI/2 BPSK | 1 | 53 | 16.77 | 16.85 | 16.75 | 18.0 |
| 20 | PI/2 BPSK | 1 | 104 | 16.74 | 16.82 | 16.74 | |
| 20 | PI/2 BPSK | 50 | 0 | 16.72 | 16.84 | 16.73 | 18.0 |
| 20 | PI/2 BPSK | 50 | 28 | 16.79 | 16.85 | 16.75 | 18.0 |
| 20 | PI/2 BPSK | 50 | 56 | 16.75 | 16.83 | 16.74 | 18.0 |
| 20 | PI/2 BPSK | 100 | 0 | 16.75 | 16.84 | 16.74 | |
| 20 | QPSK | 1 | 1 | 16.64 | 16.73 | 16.62 | 18.0 |
| 20 | QPSK | 1 | 53 | 16.61 | 16.73 | 16.61 | |
| 20 | QPSK | 1 | 104 | 16.61 | 16.67 | 16.62 | |
| 20 | QPSK | 50 | 0 | 16.69 | 16.75 | 16.64 | 18.0 |
| 20 | QPSK | 50 | 28 | 16.60 | 16.66 | 16.59 | 18.0 |
| 20 | QPSK | 50 | 56 | 16.64 | 16.75 | 16.64 | 18.0 |
| 20 | QPSK | 100 | 0 | 16.67 | 16.73 | 16.66 | |
| 20 | 16QAM | 1 | 1 | 16.78 | 16.86 | 16.81 | 18.0 |
| 20 | 64QAM | 1 | 1 | 16.56 | 16.68 | 16.57 | 18.0 |
| 20 | 256QAM | 1 | 1 | 16.66 | 16.77 | 16.72 | 18.0 |
| Channel | | | | 371500 | 376000 | 380500 | 18.0 |
| Frequency (MHz) | | | | 1857.5 | 1880 | 1902.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 16.70 | 16.79 | 16.69 | 18.0 |
| Channel | | | | 371000 | 376000 | 381000 | 18.0 |
| Frequency (MHz) | | | | 1855 | 1880 | 1905 | |
| 10 | PI/2 BPSK | 1 | 1 | 16.67 | 16.78 | 16.69 | 18.0 |
| Channel | | | | 370500 | 376000 | 381500 | 18.0 |
| Frequency (MHz) | | | | 1852.5 | 1880 | 1907.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 16.73 | 16.80 | 16.70 | 18.0 |



<FR1 n2_Ant MIMO 2_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 372000 | 376000 | 380000 | |
| Frequency (MHz) | | | | 1860 | 1880 | 1900 | |
| 20 | PI/2 BPSK | 1 | 1 | 17.95 | 18.00 | 17.92 | 19.0 |
| 20 | PI/2 BPSK | 1 | 53 | 17.88 | 17.95 | 17.88 | |
| 20 | PI/2 BPSK | 1 | 104 | 17.91 | 17.97 | 17.86 | |
| 20 | PI/2 BPSK | 50 | 0 | 17.87 | 17.92 | 17.83 | 19.0 |
| 20 | PI/2 BPSK | 50 | 28 | 17.90 | 17.98 | 17.93 | 19.0 |
| 20 | PI/2 BPSK | 50 | 56 | 17.79 | 17.90 | 17.85 | 19.0 |
| 20 | PI/2 BPSK | 100 | 0 | 17.82 | 17.92 | 17.85 | |
| 20 | QPSK | 1 | 1 | 17.78 | 17.89 | 17.82 | 19.0 |
| 20 | QPSK | 1 | 53 | 17.79 | 17.88 | 17.77 | |
| 20 | QPSK | 1 | 104 | 17.78 | 17.89 | 17.79 | |
| 20 | QPSK | 50 | 0 | 17.86 | 17.92 | 17.84 | 19.0 |
| 20 | QPSK | 50 | 28 | 17.86 | 17.93 | 17.83 | 19.0 |
| 20 | QPSK | 50 | 56 | 17.79 | 17.89 | 17.79 | 19.0 |
| 20 | QPSK | 100 | 0 | 17.86 | 17.92 | 17.85 | |
| 20 | 16QAM | 1 | 1 | 17.88 | 17.95 | 17.85 | 19.0 |
| 20 | 64QAM | 1 | 1 | 17.82 | 17.88 | 17.83 | 19.0 |
| 20 | 256QAM | 1 | 1 | 17.58 | 17.66 | 17.58 | 19.0 |
| Channel | | | | 371500 | 376000 | 380500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 1857.5 | 1880 | 1902.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 17.90 | 17.93 | 17.81 | 19.0 |
| Channel | | | | 371000 | 376000 | 381000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 1855 | 1880 | 1905 | |
| 10 | PI/2 BPSK | 1 | 1 | 17.89 | 17.89 | 17.84 | 19.0 |
| Channel | | | | 370500 | 376000 | 381500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 1852.5 | 1880 | 1907.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 17.90 | 17.93 | 17.82 | 19.0 |



<FR1 n5_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 166800 | 167300 | 167800 | |
| Frequency (MHz) | | | | 834 | 836.5 | 839 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.96 | 24.05 | 23.91 | 25.0 |
| 20 | PI/2 BPSK | 1 | 53 | 23.90 | 23.95 | 23.90 | |
| 20 | PI/2 BPSK | 1 | 104 | 23.92 | 23.84 | 23.87 | |
| 20 | PI/2 BPSK | 50 | 0 | 23.55 | 23.59 | 23.55 | 24.5 |
| 20 | PI/2 BPSK | 50 | 28 | 23.95 | 23.97 | 23.90 | 25.0 |
| 20 | PI/2 BPSK | 50 | 56 | 23.57 | 23.64 | 23.58 | 24.5 |
| 20 | PI/2 BPSK | 100 | 0 | 23.55 | 23.61 | 23.54 | |
| 20 | QPSK | 1 | 1 | 24.03 | 23.95 | 23.79 | 25.0 |
| 20 | QPSK | 1 | 53 | 24.02 | 24.03 | 23.86 | |
| 20 | QPSK | 1 | 104 | 24.01 | 23.90 | 23.82 | |
| 20 | QPSK | 50 | 0 | 23.09 | 23.12 | 23.07 | 24.0 |
| 20 | QPSK | 50 | 28 | 24.03 | 23.99 | 24.01 | 25.0 |
| 20 | QPSK | 50 | 56 | 23.11 | 23.12 | 23.08 | 24.0 |
| 20 | QPSK | 100 | 0 | 23.14 | 23.08 | 23.09 | |
| 20 | 16QAM | 1 | 1 | 22.91 | 23.50 | 23.49 | 24.0 |
| 20 | 64QAM | 1 | 1 | 21.59 | 21.52 | 21.27 | 22.5 |
| 20 | 256QAM | 1 | 1 | 19.60 | 19.66 | 19.31 | 20.5 |
| Channel | | | | 166300 | 167300 | 168300 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 831.5 | 836.5 | 841.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.91 | 23.94 | 23.81 | 25.0 |
| Channel | | | | 165800 | 167300 | 168800 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 829 | 836.5 | 844 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.84 | 23.81 | 23.72 | 25.0 |
| Channel | | | | 165300 | 167300 | 169300 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 826.5 | 836.5 | 846.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 23.98 | 23.99 | 23.87 | 25.0 |



<FR1 n5_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 166800 | 167300 | 167800 | |
| Frequency (MHz) | | | | 834 | 836.5 | 839 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.39 | 23.50 | 23.42 | 24.5 |
| 20 | PI/2 BPSK | 1 | 53 | 23.22 | 23.31 | 23.21 | |
| 20 | PI/2 BPSK | 1 | 104 | 23.23 | 23.32 | 23.26 | |
| 20 | PI/2 BPSK | 50 | 0 | 23.29 | 23.36 | 23.27 | 24.5 |
| 20 | PI/2 BPSK | 50 | 28 | 23.38 | 23.48 | 23.40 | 24.5 |
| 20 | PI/2 BPSK | 50 | 56 | 23.36 | 23.47 | 23.39 | 24.5 |
| 20 | PI/2 BPSK | 100 | 0 | 23.37 | 23.46 | 23.39 | |
| 20 | QPSK | 1 | 1 | 23.35 | 23.45 | 23.37 | 24.5 |
| 20 | QPSK | 1 | 53 | 23.36 | 23.46 | 23.39 | |
| 20 | QPSK | 1 | 104 | 23.29 | 23.39 | 23.28 | |
| 20 | QPSK | 50 | 0 | 23.16 | 23.27 | 23.21 | 24.0 |
| 20 | QPSK | 50 | 28 | 23.32 | 23.39 | 23.34 | 24.5 |
| 20 | QPSK | 50 | 56 | 23.20 | 23.27 | 23.19 | 24.0 |
| 20 | QPSK | 100 | 0 | 23.21 | 23.26 | 23.17 | |
| 20 | 16QAM | 1 | 1 | 23.24 | 23.29 | 23.22 | 24.0 |
| 20 | 64QAM | 1 | 1 | 22.12 | 22.22 | 22.09 | 22.5 |
| 20 | 256QAM | 1 | 1 | 19.66 | 19.78 | 19.65 | 20.5 |
| Channel | | | | 166300 | 167300 | 168300 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 831.5 | 836.5 | 841.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.32 | 23.41 | 23.37 | 24.5 |
| Channel | | | | 165800 | 167300 | 168800 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 829 | 836.5 | 844 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.33 | 23.42 | 23.33 | 24.5 |
| Channel | | | | 165300 | 167300 | 169300 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 826.5 | 836.5 | 846.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 23.31 | 23.42 | 23.37 | 24.5 |



<FR1 n7_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 504000 | 507000 | 510000 | |
| Frequency (MHz) | | | | 2520 | 2535 | 2550 | |
| 40 | PI/2 BPSK | 1 | 1 | 24.05 | 24.08 | 23.95 | 25.0 |
| 40 | PI/2 BPSK | 1 | 108 | 24.04 | 23.96 | 23.94 | |
| 40 | PI/2 BPSK | 1 | 214 | 24.02 | 23.94 | 23.92 | |
| 40 | PI/2 BPSK | 108 | 0 | 22.94 | 22.97 | 23.02 | 24.5 |
| 40 | PI/2 BPSK | 108 | 54 | 23.87 | 23.88 | 23.87 | 25.0 |
| 40 | PI/2 BPSK | 108 | 108 | 22.96 | 23.02 | 23.01 | 24.5 |
| 40 | PI/2 BPSK | 216 | 0 | 23.49 | 23.51 | 23.49 | |
| 40 | QPSK | 1 | 1 | 23.87 | 23.89 | 23.83 | 25.0 |
| 40 | QPSK | 1 | 108 | 23.93 | 23.88 | 23.89 | |
| 40 | QPSK | 1 | 214 | 23.95 | 23.91 | 23.80 | |
| 40 | QPSK | 108 | 0 | 23.39 | 23.43 | 23.49 | 24.0 |
| 40 | QPSK | 108 | 54 | 23.86 | 23.80 | 23.84 | 25.0 |
| 40 | QPSK | 108 | 108 | 23.45 | 23.49 | 23.47 | 24.0 |
| 40 | QPSK | 216 | 0 | 23.49 | 23.51 | 23.49 | |
| 40 | 16QAM | 1 | 1 | 22.91 | 22.78 | 22.89 | 24.0 |
| 40 | 64QAM | 1 | 1 | 21.38 | 21.49 | 21.46 | 22.5 |
| 40 | 256QAM | 1 | 1 | 19.32 | 19.54 | 19.21 | 20.5 |
| Channel | | | | 503000 | 507000 | 511000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2515 | 2535 | 2555 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.96 | 23.98 | 23.95 | 25.0 |
| Channel | | | | 502500 | 507000 | 511500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2512.5 | 2535 | 2557.5 | |
| 25 | PI/2 BPSK | 1 | 1 | 23.94 | 23.93 | 23.88 | 25.0 |
| Channel | | | | 502000 | 507000 | 512000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2510 | 2535 | 2560 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.95 | 23.97 | 23.89 | 25.0 |
| Channel | | | | 501500 | 507000 | 512500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2507.5 | 2535 | 2562.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.93 | 23.90 | 23.76 | 25.0 |
| Channel | | | | 501000 | 507000 | 513000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2505 | 2535 | 2565 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.81 | 23.78 | 23.75 | 25.0 |
| Channel | | | | 500500 | 507000 | 513500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2502.5 | 2535 | 2567.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 23.84 | 23.82 | 23.77 | 25.0 |



<FR1 n7_Ant MIMO 2_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 504000 | 507000 | 510000 | |
| Frequency (MHz) | | | | 2520 | 2535 | 2550 | |
| 40 | PI/2 BPSK | 1 | 1 | 22.85 | 22.95 | 22.92 | 24.0 |
| 40 | PI/2 BPSK | 1 | 108 | 22.82 | 22.94 | 22.91 | |
| 40 | PI/2 BPSK | 1 | 214 | 22.84 | 22.88 | 22.89 | |
| 40 | PI/2 BPSK | 108 | 0 | 22.78 | 22.79 | 22.85 | 23.5 |
| 40 | PI/2 BPSK | 108 | 54 | 22.87 | 22.94 | 22.91 | 24.0 |
| 40 | PI/2 BPSK | 108 | 108 | 22.85 | 22.84 | 22.85 | 23.5 |
| 40 | PI/2 BPSK | 216 | 0 | 22.86 | 22.91 | 22.90 | |
| 40 | QPSK | 1 | 1 | 22.89 | 22.88 | 22.91 | 24.0 |
| 40 | QPSK | 1 | 108 | 22.90 | 22.90 | 22.99 | |
| 40 | QPSK | 1 | 214 | 22.86 | 22.89 | 22.89 | |
| 40 | QPSK | 108 | 0 | 22.82 | 22.86 | 22.90 | 23.0 |
| 40 | QPSK | 108 | 54 | 22.87 | 22.83 | 22.91 | 24.0 |
| 40 | QPSK | 108 | 108 | 22.86 | 22.87 | 22.88 | 23.0 |
| 40 | QPSK | 216 | 0 | 22.90 | 22.85 | 22.91 | |
| 40 | 16QAM | 1 | 1 | 22.89 | 22.88 | 22.99 | 23.0 |
| 40 | 64QAM | 1 | 1 | 21.42 | 21.38 | 21.46 | 21.5 |
| 40 | 256QAM | 1 | 1 | 19.40 | 19.34 | 19.43 | 19.5 |
| Channel | | | | 503000 | 507000 | 511000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2515 | 2535 | 2555 | |
| 30 | PI/2 BPSK | 1 | 1 | 22.79 | 22.81 | 22.94 | 24.0 |
| Channel | | | | 502500 | 507000 | 511500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2512.5 | 2535 | 2557.5 | |
| 25 | PI/2 BPSK | 1 | 1 | 22.77 | 22.79 | 22.99 | 24.0 |
| Channel | | | | 502000 | 507000 | 512000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2510 | 2535 | 2560 | |
| 20 | PI/2 BPSK | 1 | 1 | 22.77 | 22.77 | 23.01 | 24.0 |
| Channel | | | | 501500 | 507000 | 512500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2507.5 | 2535 | 2562.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 22.73 | 22.78 | 22.94 | 24.0 |
| Channel | | | | 501000 | 507000 | 513000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2505 | 2535 | 2565 | |
| 10 | PI/2 BPSK | 1 | 1 | 22.81 | 22.89 | 22.88 | 24.0 |
| Channel | | | | 500500 | 507000 | 513500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2502.5 | 2535 | 2567.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 22.79 | 22.89 | 22.86 | 24.0 |



<FR1 n7_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 504000 | 507000 | 510000 | |
| Frequency (MHz) | | | | 2520 | 2535 | 2550 | |
| 40 | PI/2 BPSK | 1 | 1 | 15.00 | 15.06 | 14.88 | 15.5 |
| 40 | PI/2 BPSK | 1 | 108 | 14.84 | 14.88 | 14.78 | |
| 40 | PI/2 BPSK | 1 | 214 | 14.85 | 14.85 | 14.77 | |
| 40 | PI/2 BPSK | 108 | 0 | 14.75 | 14.77 | 14.76 | 15.5 |
| 40 | PI/2 BPSK | 108 | 54 | 14.76 | 14.86 | 14.68 | 15.5 |
| 40 | PI/2 BPSK | 108 | 108 | 14.74 | 14.80 | 14.66 | 15.5 |
| 40 | PI/2 BPSK | 216 | 0 | 14.72 | 14.75 | 14.67 | |
| 40 | QPSK | 1 | 1 | 14.96 | 15.00 | 14.85 | 15.5 |
| 40 | QPSK | 1 | 108 | 14.80 | 14.87 | 14.81 | |
| 40 | QPSK | 1 | 214 | 14.74 | 14.83 | 14.77 | |
| 40 | QPSK | 108 | 0 | 14.65 | 14.75 | 14.73 | 15.5 |
| 40 | QPSK | 108 | 54 | 14.66 | 14.73 | 14.63 | 15.5 |
| 40 | QPSK | 108 | 108 | 14.69 | 14.72 | 14.69 | 15.5 |
| 40 | QPSK | 216 | 0 | 14.65 | 14.73 | 14.73 | |
| 40 | 16QAM | 1 | 1 | 14.75 | 14.77 | 14.75 | 15.5 |
| 40 | 64QAM | 1 | 1 | 14.99 | 14.99 | 14.83 | 15.5 |
| 40 | 256QAM | 1 | 1 | 14.47 | 14.51 | 14.49 | 15.5 |
| Channel | | | | 503000 | 507000 | 511000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2515 | 2535 | 2555 | |
| 30 | PI/2 BPSK | 1 | 1 | 14.96 | 14.98 | 14.86 | 15.5 |
| Channel | | | | 502500 | 507000 | 511500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2512.5 | 2535 | 2557.5 | |
| 25 | PI/2 BPSK | 1 | 1 | 14.99 | 15.05 | 14.83 | 15.5 |
| Channel | | | | 502000 | 507000 | 512000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2510 | 2535 | 2560 | |
| 20 | PI/2 BPSK | 1 | 1 | 14.91 | 14.98 | 14.85 | 15.5 |
| Channel | | | | 501500 | 507000 | 512500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2507.5 | 2535 | 2562.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 14.91 | 14.97 | 14.80 | 15.5 |
| Channel | | | | 501000 | 507000 | 513000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2505 | 2535 | 2565 | |
| 10 | PI/2 BPSK | 1 | 1 | 14.95 | 14.99 | 14.84 | 15.5 |
| Channel | | | | 500500 | 507000 | 513500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2502.5 | 2535 | 2567.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 15.00 | 15.02 | 14.88 | 15.5 |



<FR1 n7_Ant MIMO 2_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 504000 | 507000 | 510000 | |
| Frequency (MHz) | | | | 2520 | 2535 | 2550 | |
| 40 | PI/2 BPSK | 1 | 1 | 16.43 | 16.48 | 16.43 | 17.5 |
| 40 | PI/2 BPSK | 1 | 108 | 16.37 | 16.42 | 16.30 | |
| 40 | PI/2 BPSK | 1 | 214 | 16.36 | 16.45 | 16.33 | |
| 40 | PI/2 BPSK | 108 | 0 | 16.39 | 16.45 | 16.38 | 17.5 |
| 40 | PI/2 BPSK | 108 | 54 | 16.40 | 16.46 | 16.39 | 17.5 |
| 40 | PI/2 BPSK | 108 | 108 | 16.37 | 16.43 | 16.36 | 17.5 |
| 40 | PI/2 BPSK | 216 | 0 | 16.29 | 16.40 | 16.34 | |
| 40 | QPSK | 1 | 1 | 16.31 | 16.43 | 16.34 | 17.5 |
| 40 | QPSK | 1 | 108 | 16.35 | 16.42 | 16.33 | |
| 40 | QPSK | 1 | 214 | 16.36 | 16.43 | 16.31 | |
| 40 | QPSK | 108 | 0 | 16.39 | 16.44 | 16.32 | 17.5 |
| 40 | QPSK | 108 | 54 | 16.30 | 16.39 | 16.28 | 17.5 |
| 40 | QPSK | 108 | 108 | 16.31 | 16.38 | 16.26 | 17.5 |
| 40 | QPSK | 216 | 0 | 16.29 | 16.39 | 16.33 | |
| 40 | 16QAM | 1 | 1 | 16.30 | 16.42 | 16.36 | 17.5 |
| 40 | 64QAM | 1 | 1 | 16.36 | 16.41 | 16.32 | 17.5 |
| 40 | 256QAM | 1 | 1 | 16.34 | 16.40 | 16.31 | 17.5 |
| Channel | | | | 503000 | 507000 | 511000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2515 | 2535 | 2555 | |
| 30 | PI/2 BPSK | 1 | 1 | 16.37 | 16.38 | 16.38 | 17.5 |
| Channel | | | | 502500 | 507000 | 511500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2512.5 | 2535 | 2557.5 | |
| 25 | PI/2 BPSK | 1 | 1 | 16.32 | 16.37 | 16.33 | 17.5 |
| Channel | | | | 502000 | 507000 | 512000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2510 | 2535 | 2560 | |
| 20 | PI/2 BPSK | 1 | 1 | 16.34 | 16.43 | 16.35 | 17.5 |
| Channel | | | | 501500 | 507000 | 512500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2507.5 | 2535 | 2562.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 16.38 | 16.42 | 16.37 | 17.5 |
| Channel | | | | 501000 | 507000 | 513000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2505 | 2535 | 2565 | |
| 10 | PI/2 BPSK | 1 | 1 | 16.33 | 16.41 | 16.32 | 17.5 |
| Channel | | | | 500500 | 507000 | 513500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2502.5 | 2535 | 2567.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 16.38 | 16.40 | 16.37 | 17.5 |



<FR1 n12_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 141300 | 141500 | 141700 | |
| Frequency (MHz) | | | | 706.5 | 707.5 | 708.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.81 | 23.97 | 23.88 | |
| 15 | PI/2 BPSK | 1 | 40 | 23.80 | 23.84 | 23.85 | 25.0 |
| 15 | PI/2 BPSK | 1 | 77 | 23.75 | 23.75 | 23.87 | |
| 15 | PI/2 BPSK | 36 | 0 | 23.36 | 23.47 | 23.46 | 24.5 |
| 15 | PI/2 BPSK | 36 | 22 | 23.75 | 23.77 | 23.76 | 25.0 |
| 15 | PI/2 BPSK | 36 | 43 | 23.35 | 23.33 | 23.35 | 24.5 |
| 15 | PI/2 BPSK | 75 | 0 | 23.47 | 23.48 | 23.41 | |
| 15 | QPSK | 1 | 1 | 23.77 | 23.80 | 23.80 | 25.0 |
| 15 | QPSK | 1 | 40 | 23.82 | 23.79 | 23.77 | |
| 15 | QPSK | 1 | 77 | 23.68 | 23.64 | 23.73 | |
| 15 | QPSK | 36 | 0 | 22.93 | 22.96 | 22.97 | 24.0 |
| 15 | QPSK | 36 | 22 | 23.77 | 23.75 | 23.77 | 25.0 |
| 15 | QPSK | 36 | 43 | 22.88 | 22.88 | 22.83 | 24.0 |
| 15 | QPSK | 75 | 0 | 22.95 | 22.96 | 22.92 | |
| 15 | 16QAM | 1 | 1 | 22.70 | 22.89 | 23.42 | 24.0 |
| 15 | 64QAM | 1 | 1 | 21.37 | 21.47 | 21.10 | 22.5 |
| 15 | 256QAM | 1 | 1 | 19.39 | 19.27 | 19.48 | 20.5 |
| Channel | | | | 140800 | 141500 | 142200 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 704 | 707.5 | 711 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.75 | 23.76 | 23.90 | 25.0 |
| Channel | | | | 140300 | 141500 | 142700 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 701.5 | 707.5 | 713.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 23.71 | 23.73 | 23.94 | 25.0 |

<FR1 n12_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 141300 | 141500 | 141700 | |
| Frequency (MHz) | | | | 706.5 | 707.5 | 708.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 21.95 | 21.97 | 21.96 | |
| 15 | PI/2 BPSK | 1 | 40 | 21.87 | 21.96 | 21.93 | 22.5 |
| 15 | PI/2 BPSK | 1 | 77 | 21.84 | 21.88 | 21.80 | |
| 15 | PI/2 BPSK | 36 | 0 | 21.77 | 21.85 | 21.82 | 22.5 |
| 15 | PI/2 BPSK | 36 | 22 | 21.86 | 21.87 | 21.85 | 22.5 |
| 15 | PI/2 BPSK | 36 | 43 | 21.81 | 21.83 | 21.73 | 22.5 |
| 15 | PI/2 BPSK | 75 | 0 | 21.85 | 21.86 | 21.84 | |
| 15 | QPSK | 1 | 1 | 21.85 | 21.95 | 21.87 | 22.5 |
| 15 | QPSK | 1 | 40 | 21.91 | 21.93 | 21.91 | |
| 15 | QPSK | 1 | 77 | 21.74 | 21.83 | 21.77 | |
| 15 | QPSK | 36 | 0 | 21.80 | 21.85 | 21.82 | 22.5 |
| 15 | QPSK | 36 | 22 | 21.80 | 21.84 | 21.82 | 22.5 |
| 15 | QPSK | 36 | 43 | 21.81 | 21.82 | 21.75 | 22.5 |
| 15 | QPSK | 75 | 0 | 21.93 | 21.93 | 21.87 | |
| 15 | 16QAM | 1 | 1 | 21.70 | 21.71 | 21.66 | 22.5 |
| 15 | 64QAM | 1 | 1 | 21.75 | 21.76 | 21.73 | 22.5 |
| 15 | 256QAM | 1 | 1 | 19.04 | 19.09 | 19.07 | 20.5 |
| Channel | | | | 140800 | 141500 | 142200 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 704 | 707.5 | 711 | |
| 10 | PI/2 BPSK | 1 | 1 | 21.93 | 21.95 | 21.91 | 22.5 |
| Channel | | | | 140300 | 141500 | 142700 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 701.5 | 707.5 | 713.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 21.89 | 21.93 | 21.90 | 22.5 |



<FR1 n13_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 156400 | | |
| Frequency (MHz) | | | | | 782 | | |
| 10 | PI/2 BPSK | 1 | 1 | | 23.65 | | 25.0 |
| 10 | PI/2 BPSK | 1 | 26 | | 23.56 | | |
| 10 | PI/2 BPSK | 1 | 50 | | 23.63 | | |
| 10 | PI/2 BPSK | 25 | 0 | | 23.30 | | 24.5 |
| 10 | PI/2 BPSK | 25 | 14 | | 23.56 | | 25.0 |
| 10 | PI/2 BPSK | 25 | 27 | | 23.15 | | 24.5 |
| 10 | PI/2 BPSK | 50 | 0 | | 23.24 | | |
| 10 | QPSK | 1 | 1 | | 23.63 | | 25.0 |
| 10 | QPSK | 1 | 26 | | 23.64 | | |
| 10 | QPSK | 1 | 50 | | 23.61 | | |
| 10 | QPSK | 25 | 0 | | 22.73 | | 24.0 |
| 10 | QPSK | 25 | 14 | | 23.56 | | 25.0 |
| 10 | QPSK | 25 | 27 | | 22.59 | | 24.0 |
| 10 | QPSK | 50 | 0 | | 22.73 | | |
| 10 | 16QAM | 1 | 1 | | 22.83 | | 24.0 |
| 10 | 64QAM | 1 | 1 | | 20.91 | | 22.5 |
| 10 | 256QAM | 1 | 1 | | 18.88 | | 20.5 |
| Channel | | | | 155900 | 156400 | 156900 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 779.5 | 782 | 784.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 23.57 | 23.63 | 23.55 | 25.0 |

<FR1 n13_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 156400 | | |
| Frequency (MHz) | | | | | 782 | | |
| 10 | PI/2 BPSK | 1 | 1 | | 23.25 | | 23.5 |
| 10 | PI/2 BPSK | 1 | 26 | | 23.21 | | |
| 10 | PI/2 BPSK | 1 | 50 | | 23.18 | | |
| 10 | PI/2 BPSK | 25 | 0 | | 23.14 | | 23.5 |
| 10 | PI/2 BPSK | 25 | 14 | | 23.15 | | 23.5 |
| 10 | PI/2 BPSK | 25 | 27 | | 23.11 | | 23.5 |
| 10 | PI/2 BPSK | 50 | 0 | | 23.14 | | |
| 10 | QPSK | 1 | 1 | | 23.21 | | 23.5 |
| 10 | QPSK | 1 | 26 | | 23.20 | | |
| 10 | QPSK | 1 | 50 | | 23.17 | | |
| 10 | QPSK | 25 | 0 | | 23.13 | | 23.5 |
| 10 | QPSK | 25 | 14 | | 23.10 | | 23.5 |
| 10 | QPSK | 25 | 27 | | 23.00 | | 23.5 |
| 10 | QPSK | 50 | 0 | | 23.12 | | |
| 10 | 16QAM | 1 | 1 | | 22.98 | | 23.5 |
| 10 | 64QAM | 1 | 1 | | 22.23 | | 22.5 |
| 10 | 256QAM | 1 | 1 | | 19.81 | | 20.5 |
| Channel | | | | 155900 | 156400 | 156900 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 779.5 | 782 | 784.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 23.05 | 23.20 | 23.08 | 23.5 |



<FR1 n14_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 158600 | | |
| Frequency (MHz) | | | | | 793 | | |
| 10 | PI/2 BPSK | 1 | 1 | | 23.84 | | 25.0 |
| 10 | PI/2 BPSK | 1 | 26 | | 23.77 | | |
| 10 | PI/2 BPSK | 1 | 50 | | 23.75 | | |
| 10 | PI/2 BPSK | 25 | 0 | | 23.37 | | 24.5 |
| 10 | PI/2 BPSK | 25 | 14 | | 23.70 | | 25.0 |
| 10 | PI/2 BPSK | 25 | 27 | | 23.27 | | 24.5 |
| 10 | PI/2 BPSK | 50 | 0 | | 23.33 | | |
| 10 | QPSK | 1 | 1 | | 23.83 | | 25.0 |
| 10 | QPSK | 1 | 26 | | 23.73 | | |
| 10 | QPSK | 1 | 50 | | 23.71 | | |
| 10 | QPSK | 25 | 0 | | 22.85 | | 24.0 |
| 10 | QPSK | 25 | 14 | | 23.69 | | 25.0 |
| 10 | QPSK | 25 | 27 | | 22.77 | | 24.0 |
| 10 | QPSK | 50 | 0 | | 22.82 | | |
| 10 | 16QAM | 1 | 1 | | 22.99 | | 24.0 |
| 10 | 64QAM | 1 | 1 | | 21.26 | | 22.5 |
| 10 | 256QAM | 1 | 1 | | 19.43 | | 20.5 |
| Channel | | | | 158100 | 158600 | 159100 | |
| Frequency (MHz) | | | | 790.5 | 793 | 795.5 | Tune-up limit (dBm) |
| 5 | PI/2 BPSK | 1 | 1 | 23.75 | 23.80 | 23.77 | 25.0 |

<FR1 n14_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 158600 | | |
| Frequency (MHz) | | | | | 793 | | |
| 10 | PI/2 BPSK | 1 | 1 | | 23.34 | | 24.0 |
| 10 | PI/2 BPSK | 1 | 26 | | 23.27 | | |
| 10 | PI/2 BPSK | 1 | 50 | | 23.25 | | |
| 10 | PI/2 BPSK | 25 | 0 | | 22.87 | | 23.5 |
| 10 | PI/2 BPSK | 25 | 14 | | 23.20 | | 24.0 |
| 10 | PI/2 BPSK | 25 | 27 | | 22.77 | | 23.5 |
| 10 | PI/2 BPSK | 50 | 0 | | 22.83 | | |
| 10 | QPSK | 1 | 1 | | 23.33 | | 24.0 |
| 10 | QPSK | 1 | 26 | | 23.23 | | |
| 10 | QPSK | 1 | 50 | | 23.21 | | |
| 10 | QPSK | 25 | 0 | | 22.35 | | 23.0 |
| 10 | QPSK | 25 | 14 | | 23.19 | | 24.0 |
| 10 | QPSK | 25 | 27 | | 22.27 | | 23.0 |
| 10 | QPSK | 50 | 0 | | 22.32 | | |
| 10 | 16QAM | 1 | 1 | | 22.49 | | 23.0 |
| 10 | 64QAM | 1 | 1 | | 20.76 | | 21.5 |
| 10 | 256QAM | 1 | 1 | | 18.93 | | 19.5 |
| Channel | | | | 158100 | 158600 | 159100 | |
| Frequency (MHz) | | | | 790.5 | 793 | 795.5 | Tune-up limit (dBm) |
| 5 | PI/2 BPSK | 1 | 1 | 23.27 | 23.30 | 23.24 | 24.0 |



<FR1 n25_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 374000 | 376500 | 379000 | |
| Frequency (MHz) | | | | 1870 | 1882.5 | 1895 | |
| 40 | PI/2 BPSK | 1 | 1 | 24.01 | 24.11 | 23.92 | 25.0 |
| 40 | PI/2 BPSK | 1 | 108 | 23.86 | 23.93 | 23.91 | |
| 40 | PI/2 BPSK | 1 | 214 | 23.98 | 23.91 | 23.90 | |
| 40 | PI/2 BPSK | 108 | 0 | 23.54 | 23.53 | 23.59 | 24.5 |
| 40 | PI/2 BPSK | 108 | 54 | 23.87 | 23.95 | 23.92 | 25.0 |
| 40 | PI/2 BPSK | 108 | 108 | 23.54 | 23.57 | 23.61 | 24.5 |
| 40 | PI/2 BPSK | 216 | 0 | 23.57 | 23.58 | 23.52 | |
| 40 | QPSK | 1 | 1 | 23.98 | 23.83 | 23.91 | 25.0 |
| 40 | QPSK | 1 | 108 | 24.08 | 23.76 | 23.92 | |
| 40 | QPSK | 1 | 214 | 24.08 | 23.81 | 23.93 | |
| 40 | QPSK | 108 | 0 | 23.04 | 23.06 | 23.08 | 24.0 |
| 40 | QPSK | 108 | 54 | 23.94 | 23.85 | 23.91 | 25.0 |
| 40 | QPSK | 108 | 108 | 23.03 | 23.09 | 23.10 | 24.0 |
| 40 | QPSK | 216 | 0 | 23.08 | 23.07 | 23.10 | |
| 40 | 16QAM | 1 | 1 | 22.61 | 22.98 | 23.00 | 24.0 |
| 40 | 64QAM | 1 | 1 | 21.53 | 21.57 | 21.42 | 22.5 |
| 40 | 256QAM | 1 | 1 | 19.55 | 19.49 | 19.45 | 20.5 |
| Channel | | | | 373000 | 376500 | 380000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 1865 | 1882.5 | 1900 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.79 | 23.72 | 23.90 | 25.0 |
| Channel | | | | 372500 | 376500 | 380500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 1862.5 | 1882.5 | 1902.5 | |
| 25 | PI/2 BPSK | 1 | 1 | 23.86 | 23.73 | 23.89 | 25.0 |
| Channel | | | | 372000 | 376500 | 381000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 1860 | 1882.5 | 1905 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.86 | 23.79 | 23.87 | 25.0 |
| Channel | | | | 371500 | 376500 | 381500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 1857.5 | 1882.5 | 1907.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.76 | 23.75 | 23.81 | 25.0 |
| Channel | | | | 371000 | 376500 | 382000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 1855 | 1882.5 | 1910 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.86 | 23.73 | 23.91 | 25.0 |
| Channel | | | | 370500 | 376500 | 382500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 1852.5 | 1882.5 | 1912.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 23.81 | 23.78 | 23.81 | 25.0 |



<FR1 n25_Ant MIMO 2_Sensor OFF>

| Channel | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | | | |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|-------|-------|------|
| Channel | 374000 | 376500 | 379000 | | | | |
| Frequency (MHz) | 1870 | 1882.5 | 1895 | | | | |
| 40 | PI/2 BPSK | 1 | 1 | 22.84 | 23.32 | 23.09 | 24.0 |
| 40 | PI/2 BPSK | 1 | 108 | 22.82 | 23.02 | 22.92 | |
| 40 | PI/2 BPSK | 1 | 214 | 22.81 | 23.01 | 22.83 | |
| 40 | PI/2 BPSK | 108 | 0 | 22.34 | 22.52 | 22.36 | 23.5 |
| 40 | PI/2 BPSK | 108 | 54 | 22.83 | 23.10 | 23.03 | 24.0 |
| 40 | PI/2 BPSK | 108 | 108 | 22.35 | 22.49 | 22.38 | 23.5 |
| 40 | PI/2 BPSK | 216 | 0 | 22.40 | 22.57 | 22.40 | |
| 40 | QPSK | 1 | 1 | 22.78 | 22.92 | 22.78 | 24.0 |
| 40 | QPSK | 1 | 108 | 22.85 | 23.01 | 22.81 | |
| 40 | QPSK | 1 | 214 | 22.88 | 23.00 | 22.90 | |
| 40 | QPSK | 108 | 0 | 21.83 | 22.00 | 21.88 | 23.0 |
| 40 | QPSK | 108 | 54 | 22.80 | 23.00 | 22.83 | 24.0 |
| 40 | QPSK | 108 | 108 | 21.90 | 22.01 | 21.82 | 23.0 |
| 40 | QPSK | 216 | 0 | 21.94 | 22.06 | 21.95 | |
| 40 | 16QAM | 1 | 1 | 21.65 | 21.77 | 21.63 | 23.0 |
| 40 | 64QAM | 1 | 1 | 20.13 | 20.33 | 20.23 | 21.5 |
| 40 | 256QAM | 1 | 1 | 18.30 | 18.44 | 18.26 | 19.5 |
| Channel | 373000 | 376500 | 380000 | | | | |
| Frequency (MHz) | 1865 | 1882.5 | 1900 | | | | |
| 30 | PI/2 BPSK | 1 | 1 | 22.73 | 22.76 | 22.94 | 24.0 |
| Channel | 372500 | 376500 | 380500 | | | | |
| Frequency (MHz) | 1862.5 | 1882.5 | 1902.5 | | | | |
| 25 | PI/2 BPSK | 1 | 1 | 22.73 | 22.82 | 22.98 | 24.0 |
| Channel | 372000 | 376500 | 381000 | | | | |
| Frequency (MHz) | 1860 | 1882.5 | 1905 | | | | |
| 20 | PI/2 BPSK | 1 | 1 | 22.66 | 22.73 | 22.92 | 24.0 |
| Channel | 371500 | 376500 | 381500 | | | | |
| Frequency (MHz) | 1857.5 | 1882.5 | 1907.5 | | | | |
| 15 | PI/2 BPSK | 1 | 1 | 22.72 | 22.81 | 22.92 | 24.0 |
| Channel | 371000 | 376500 | 382000 | | | | |
| Frequency (MHz) | 1855 | 1882.5 | 1910 | | | | |
| 10 | PI/2 BPSK | 1 | 1 | 22.63 | 22.79 | 22.96 | 24.0 |
| Channel | 370500 | 376500 | 382500 | | | | |
| Frequency (MHz) | 1852.5 | 1882.5 | 1912.5 | | | | |
| 5 | PI/2 BPSK | 1 | 1 | 22.63 | 22.74 | 22.98 | 24.0 |



<FR1 n25_Ant Main_Sensor ON>

| Channel | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | 374000 | 376500 | 379000 | 18.0 |
| Frequency (MHz) | 1870 | 1882.5 | 1895 | |
| 40 | PI/2 BPSK | 1 | 1 | |
| 40 | PI/2 BPSK | 1 | 108 | |
| 40 | PI/2 BPSK | 1 | 214 | |
| 40 | PI/2 BPSK | 108 | 0 | |
| 40 | PI/2 BPSK | 108 | 54 | |
| 40 | PI/2 BPSK | 108 | 108 | |
| 40 | PI/2 BPSK | 216 | 0 | |
| 40 | QPSK | 1 | 1 | |
| 40 | QPSK | 1 | 108 | |
| 40 | QPSK | 1 | 214 | |
| 40 | QPSK | 108 | 0 | |
| 40 | QPSK | 108 | 54 | |
| 40 | QPSK | 108 | 108 | |
| 40 | QPSK | 216 | 0 | |
| 40 | 16QAM | 1 | 1 | |
| 40 | 64QAM | 1 | 1 | |
| 40 | 256QAM | 1 | 1 | |
| Channel | 373000 | 376500 | 380000 | 18.0 |
| Frequency (MHz) | 1865 | 1882.5 | 1900 | |
| 30 | PI/2 BPSK | 1 | 1 | |
| Channel | 372500 | 376500 | 380500 | 18.0 |
| Frequency (MHz) | 1862.5 | 1882.5 | 1902.5 | |
| 25 | PI/2 BPSK | 1 | 1 | |
| Channel | 372000 | 376500 | 381000 | 18.0 |
| Frequency (MHz) | 1860 | 1882.5 | 1905 | |
| 20 | PI/2 BPSK | 1 | 1 | |
| Channel | 371500 | 376500 | 381500 | 18.0 |
| Frequency (MHz) | 1857.5 | 1882.5 | 1907.5 | |
| 15 | PI/2 BPSK | 1 | 1 | |
| Channel | 371000 | 376500 | 382000 | 18.0 |
| Frequency (MHz) | 1855 | 1882.5 | 1910 | |
| 10 | PI/2 BPSK | 1 | 1 | |
| Channel | 370500 | 376500 | 382500 | 18.0 |
| Frequency (MHz) | 1852.5 | 1882.5 | 1912.5 | |
| 5 | PI/2 BPSK | 1 | 1 | |



<FR1 n25_Ant MIMO 2_Sensor ON>

| Channel | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | | | |
|---------|-----------------------|--------------------------|------------------------|---------------------|-------|-------|------|
| 374000 | 376500 | 379000 | | | | | |
| 1870 | 1882.5 | 1895 | | | | | |
| 40 | PI/2 BPSK | 1 | 1 | 17.81 | 17.91 | 17.83 | 19.0 |
| 40 | PI/2 BPSK | 1 | 108 | 17.69 | 17.82 | 17.70 | |
| 40 | PI/2 BPSK | 1 | 214 | 17.77 | 17.90 | 17.79 | |
| 40 | PI/2 BPSK | 108 | 0 | 17.83 | 17.88 | 17.75 | 19.0 |
| 40 | PI/2 BPSK | 108 | 54 | 17.84 | 17.89 | 17.78 | 19.0 |
| 40 | PI/2 BPSK | 108 | 108 | 17.77 | 17.82 | 17.74 | 19.0 |
| 40 | PI/2 BPSK | 216 | 0 | 17.81 | 17.88 | 17.83 | |
| 40 | QPSK | 1 | 1 | 17.69 | 17.82 | 17.76 | 19.0 |
| 40 | QPSK | 1 | 108 | 17.80 | 17.87 | 17.77 | |
| 40 | QPSK | 1 | 214 | 17.70 | 17.83 | 17.77 | |
| 40 | QPSK | 108 | 0 | 17.77 | 17.86 | 17.76 | 19.0 |
| 40 | QPSK | 108 | 54 | 17.82 | 17.90 | 17.77 | 19.0 |
| 40 | QPSK | 108 | 108 | 17.79 | 17.88 | 17.81 | 19.0 |
| 40 | QPSK | 216 | 0 | 17.77 | 17.82 | 17.71 | |
| 40 | 16QAM | 1 | 1 | 17.70 | 17.79 | 17.67 | 19.0 |
| 40 | 64QAM | 1 | 1 | 17.73 | 17.86 | 17.77 | 19.0 |
| 40 | 256QAM | 1 | 1 | 17.47 | 17.53 | 17.45 | 19.0 |
| 373000 | 376500 | 380000 | | | | | |
| 1865 | 1882.5 | 1900 | | | | | |
| 30 | PI/2 BPSK | 1 | 1 | 17.69 | 17.80 | 17.66 | 19.0 |
| 372500 | 376500 | 380500 | | | | | |
| 1862.5 | 1882.5 | 1902.5 | | | | | |
| 25 | PI/2 BPSK | 1 | 1 | 17.70 | 17.81 | 17.72 | 19.0 |
| 372000 | 376500 | 381000 | | | | | |
| 1860 | 1882.5 | 1905 | | | | | |
| 20 | PI/2 BPSK | 1 | 1 | 17.62 | 17.77 | 17.67 | 19.0 |
| 371500 | 376500 | 381500 | | | | | |
| 1857.5 | 1882.5 | 1907.5 | | | | | |
| 15 | PI/2 BPSK | 1 | 1 | 17.70 | 17.80 | 17.64 | 19.0 |
| 371000 | 376500 | 382000 | | | | | |
| 1855 | 1882.5 | 1910 | | | | | |
| 10 | PI/2 BPSK | 1 | 1 | 17.62 | 17.81 | 17.70 | 19.0 |
| 370500 | 376500 | 382500 | | | | | |
| 1852.5 | 1882.5 | 1912.5 | | | | | |
| 5 | PI/2 BPSK | 1 | 1 | 17.65 | 17.73 | 17.63 | 19.0 |



<FR1 n26_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 164800 | 166300 | 167800 | 25.0 |
| Frequency (MHz) | | | | 824 | 831.5 | 839 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.95 | 24.06 | 24.00 | |
| 20 | PI/2 BPSK | 1 | 53 | 23.94 | 24.03 | 23.98 | 24.5 |
| 20 | PI/2 BPSK | 1 | 104 | 23.88 | 24.00 | 23.96 | |
| 20 | PI/2 BPSK | 50 | 0 | 23.53 | 23.62 | 23.44 | 25.0 |
| 20 | PI/2 BPSK | 50 | 28 | 23.94 | 24.00 | 23.94 | 24.5 |
| 20 | PI/2 BPSK | 50 | 56 | 23.52 | 23.53 | 23.53 | |
| 20 | PI/2 BPSK | 100 | 0 | 23.61 | 23.62 | 23.52 | 25.0 |
| 20 | QPSK | 1 | 1 | 23.88 | 24.02 | 23.83 | |
| 20 | QPSK | 1 | 53 | 24.03 | 23.85 | 23.92 | 24.0 |
| 20 | QPSK | 1 | 104 | 23.91 | 23.98 | 23.87 | |
| 20 | QPSK | 50 | 0 | 22.94 | 23.00 | 22.86 | 25.0 |
| 20 | QPSK | 50 | 28 | 23.89 | 23.81 | 23.86 | 24.0 |
| 20 | QPSK | 50 | 56 | 22.95 | 22.94 | 22.98 | |
| 20 | QPSK | 100 | 0 | 22.97 | 22.95 | 22.97 | 24.0 |
| 20 | 16QAM | 1 | 1 | 22.68 | 23.20 | 23.01 | |
| 20 | 64QAM | 1 | 1 | 21.20 | 21.30 | 21.70 | 22.5 |
| 20 | 256QAM | 1 | 1 | 19.29 | 19.45 | 19.23 | 20.5 |
| Channel | | | | 164300 | 166300 | 168300 | 25.0 |
| Frequency (MHz) | | | | 821.5 | 831.5 | 841.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.63 | 23.92 | 23.78 | 25.0 |
| Channel | | | | 163800 | 166300 | 168800 | |
| Frequency (MHz) | | | | 819 | 831.5 | 844 | 25.0 |
| 10 | PI/2 BPSK | 1 | 1 | 23.70 | 23.87 | 23.76 | |
| Channel | | | | 163300 | 166300 | 169300 | 25.0 |
| Frequency (MHz) | | | | 816.5 | 831.5 | 846.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 23.70 | 23.87 | 23.76 | 25.0 |



<FR1 n26_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 164800 | 166300 | 167800 | |
| Frequency (MHz) | | | | 824 | 831.5 | 839 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.44 | 23.55 | 23.49 | 24.5 |
| 20 | PI/2 BPSK | 1 | 53 | 23.35 | 23.44 | 23.37 | |
| 20 | PI/2 BPSK | 1 | 104 | 23.36 | 23.46 | 23.37 | |
| 20 | PI/2 BPSK | 50 | 0 | 23.42 | 23.47 | 23.41 | 24.5 |
| 20 | PI/2 BPSK | 50 | 28 | 23.43 | 23.51 | 23.42 | 24.5 |
| 20 | PI/2 BPSK | 50 | 56 | 23.32 | 23.44 | 23.34 | 24.5 |
| 20 | PI/2 BPSK | 100 | 0 | 23.38 | 23.45 | 23.39 | |
| 20 | QPSK | 1 | 1 | 23.39 | 23.45 | 23.38 | 24.5 |
| 20 | QPSK | 1 | 53 | 23.42 | 23.48 | 23.43 | |
| 20 | QPSK | 1 | 104 | 23.35 | 23.44 | 23.37 | |
| 20 | QPSK | 50 | 0 | 23.24 | 23.29 | 23.23 | 24.0 |
| 20 | QPSK | 50 | 28 | 23.29 | 23.42 | 23.35 | 24.5 |
| 20 | QPSK | 50 | 56 | 23.19 | 23.27 | 23.19 | 24.0 |
| 20 | QPSK | 100 | 0 | 23.21 | 23.28 | 23.19 | |
| 20 | 16QAM | 1 | 1 | 23.18 | 23.25 | 23.18 | 24.0 |
| 20 | 64QAM | 1 | 1 | 22.19 | 22.24 | 22.18 | 22.5 |
| 20 | 256QAM | 1 | 1 | 19.68 | 19.74 | 19.67 | 20.5 |
| Channel | | | | 164300 | 166300 | 168300 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 821.5 | 831.5 | 841.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.34 | 23.50 | 23.41 | 24.5 |
| Channel | | | | 163800 | 166300 | 168800 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 819 | 831.5 | 844 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.38 | 23.47 | 23.39 | 24.5 |
| Channel | | | | 163300 | 166300 | 169300 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 816.5 | 831.5 | 846.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 23.37 | 23.45 | 23.38 | 24.5 |



<FR1 n30_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 462000 | | |
| Frequency (MHz) | | | | | 2310 | | |
| 10 | PI/2 BPSK | 1 | 1 | | 21.83 | | 23.0 |
| 10 | PI/2 BPSK | 1 | 26 | | 21.73 | | |
| 10 | PI/2 BPSK | 1 | 50 | | 21.79 | | |
| 10 | PI/2 BPSK | 25 | 0 | | 21.24 | | 22.5 |
| 10 | PI/2 BPSK | 25 | 14 | | 21.69 | | 23.0 |
| 10 | PI/2 BPSK | 25 | 27 | | 21.22 | | 22.5 |
| 10 | PI/2 BPSK | 50 | 0 | | 21.20 | | |
| 10 | QPSK | 1 | 1 | | 21.73 | | 23.0 |
| 10 | QPSK | 1 | 26 | | 21.82 | | |
| 10 | QPSK | 1 | 50 | | 21.76 | | |
| 10 | QPSK | 25 | 0 | | 20.76 | | 22.0 |
| 10 | QPSK | 25 | 14 | | 21.74 | | 23.0 |
| 10 | QPSK | 25 | 27 | | 20.71 | | 22.0 |
| 10 | QPSK | 50 | 0 | | 20.75 | | |
| 10 | 16QAM | 1 | 1 | | 21.00 | | 22.0 |
| 10 | 64QAM | 1 | 1 | | 18.96 | | 20.5 |
| 10 | 256QAM | 1 | 1 | | 16.97 | | 18.5 |
| Channel | | | | 461500 | 462000 | 462500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2307.5 | 2310 | 2312.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 21.71 | 21.74 | 21.73 | 23.0 |

<FR1 n30_Ant MIMO 2_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 462000 | | |
| Frequency (MHz) | | | | | 2310 | | |
| 10 | PI/2 BPSK | 1 | 1 | | 21.71 | | 23.0 |
| 10 | PI/2 BPSK | 1 | 26 | | 21.70 | | |
| 10 | PI/2 BPSK | 1 | 50 | | 21.59 | | |
| 10 | PI/2 BPSK | 25 | 0 | | 21.04 | | 22.5 |
| 10 | PI/2 BPSK | 25 | 14 | | 21.53 | | 23.0 |
| 10 | PI/2 BPSK | 25 | 27 | | 21.06 | | 22.5 |
| 10 | PI/2 BPSK | 50 | 0 | | 21.05 | | |
| 10 | QPSK | 1 | 1 | | 21.44 | | 23.0 |
| 10 | QPSK | 1 | 26 | | 21.51 | | |
| 10 | QPSK | 1 | 50 | | 21.37 | | |
| 10 | QPSK | 25 | 0 | | 20.61 | | 22.0 |
| 10 | QPSK | 25 | 14 | | 21.58 | | 23.0 |
| 10 | QPSK | 25 | 27 | | 20.56 | | 22.0 |
| 10 | QPSK | 50 | 0 | | 20.55 | | |
| 10 | 16QAM | 1 | 1 | | 20.40 | | 22.0 |
| 10 | 64QAM | 1 | 1 | | 18.82 | | 20.5 |
| 10 | 256QAM | 1 | 1 | | 17.10 | | 18.5 |
| Channel | | | | 461500 | 462000 | 462500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2307.5 | 2310 | 2312.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 21.42 | 21.44 | 21.48 | 23.0 |



<FR1 n30_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 462000 | | |
| Frequency (MHz) | | | | | 2310 | | |
| 10 | PI/2 BPSK | 1 | 1 | | 16.08 | | 16.5 |
| 10 | PI/2 BPSK | 1 | 26 | | 15.95 | | |
| 10 | PI/2 BPSK | 1 | 50 | | 15.91 | | |
| 10 | PI/2 BPSK | 25 | 0 | | 15.92 | | 16.5 |
| 10 | PI/2 BPSK | 25 | 14 | | 15.93 | | 16.5 |
| 10 | PI/2 BPSK | 25 | 27 | | 15.86 | | 16.5 |
| 10 | PI/2 BPSK | 50 | 0 | | 15.92 | | |
| 10 | QPSK | 1 | 1 | | 15.98 | | |
| 10 | QPSK | 1 | 26 | | 15.93 | | 16.5 |
| 10 | QPSK | 1 | 50 | | 15.90 | | |
| 10 | QPSK | 25 | 0 | | 15.87 | | |
| 10 | QPSK | 25 | 14 | | 15.85 | | 16.5 |
| 10 | QPSK | 25 | 27 | | 15.84 | | 16.5 |
| 10 | QPSK | 50 | 0 | | 15.92 | | |
| 10 | 16QAM | 1 | 1 | | 16.00 | | |
| 10 | 64QAM | 1 | 1 | | 16.05 | | 16.5 |
| 10 | 256QAM | 1 | 1 | | 15.64 | | 16.5 |
| Channel | | | | 461500 | 462000 | 462500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2307.5 | 2310 | 2312.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 15.93 | 15.97 | 15.89 | 16.5 |

<FR1 n30_Ant MIMO 2_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 462000 | | |
| Frequency (MHz) | | | | | 2310 | | |
| 10 | PI/2 BPSK | 1 | 1 | | 16.41 | | 17.0 |
| 10 | PI/2 BPSK | 1 | 26 | | 16.37 | | |
| 10 | PI/2 BPSK | 1 | 50 | | 16.35 | | |
| 10 | PI/2 BPSK | 25 | 0 | | 16.25 | | 17.0 |
| 10 | PI/2 BPSK | 25 | 14 | | 16.26 | | 17.0 |
| 10 | PI/2 BPSK | 25 | 27 | | 16.23 | | 17.0 |
| 10 | PI/2 BPSK | 50 | 0 | | 16.23 | | |
| 10 | QPSK | 1 | 1 | | 16.40 | | |
| 10 | QPSK | 1 | 26 | | 16.33 | | 17.0 |
| 10 | QPSK | 1 | 50 | | 16.33 | | |
| 10 | QPSK | 25 | 0 | | 16.24 | | |
| 10 | QPSK | 25 | 14 | | 16.23 | | 17.0 |
| 10 | QPSK | 25 | 27 | | 16.22 | | 17.0 |
| 10 | QPSK | 50 | 0 | | 16.23 | | |
| 10 | 16QAM | 1 | 1 | | 16.24 | | |
| 10 | 64QAM | 1 | 1 | | 16.40 | | 17.0 |
| 10 | 256QAM | 1 | 1 | | 16.04 | | 17.0 |
| Channel | | | | 461500 | 462000 | 462500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2307.5 | 2310 | 2312.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 16.30 | 16.35 | 16.32 | 17.0 |



<FR1 n66_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 346000 | 349000 | 352000 | |
| Frequency (MHz) | | | | 1730 | 1745 | 1760 | |
| 40 | PI/2 BPSK | 1 | 1 | 23.69 | 23.80 | 23.68 | 25.0 |
| 40 | PI/2 BPSK | 1 | 108 | 23.68 | 23.75 | 23.66 | |
| 40 | PI/2 BPSK | 1 | 214 | 23.66 | 23.66 | 23.67 | |
| 40 | PI/2 BPSK | 108 | 0 | 23.33 | 23.37 | 23.41 | 24.5 |
| 40 | PI/2 BPSK | 108 | 54 | 23.63 | 23.73 | 23.72 | 25.0 |
| 40 | PI/2 BPSK | 108 | 108 | 23.28 | 23.35 | 23.35 | 24.5 |
| 40 | PI/2 BPSK | 216 | 0 | 23.25 | 23.35 | 23.34 | |
| 40 | QPSK | 1 | 1 | 23.68 | 23.57 | 23.72 | 25.0 |
| 40 | QPSK | 1 | 108 | 23.71 | 23.68 | 23.76 | |
| 40 | QPSK | 1 | 214 | 23.71 | 23.72 | 23.75 | |
| 40 | QPSK | 108 | 0 | 22.82 | 22.87 | 22.94 | 24.0 |
| 40 | QPSK | 108 | 54 | 23.62 | 23.66 | 23.74 | 25.0 |
| 40 | QPSK | 108 | 108 | 22.80 | 22.83 | 22.90 | 24.0 |
| 40 | QPSK | 216 | 0 | 22.78 | 22.80 | 22.86 | |
| 40 | 16QAM | 1 | 1 | 22.81 | 22.77 | 22.99 | 24.0 |
| 40 | 64QAM | 1 | 1 | 21.13 | 21.16 | 21.36 | 22.5 |
| 40 | 256QAM | 1 | 1 | 19.37 | 19.43 | 19.41 | 20.5 |
| Channel | | | | 345000 | 349000 | 353000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 1725 | 1745 | 1765 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.53 | 23.54 | 23.65 | 25.0 |
| Channel | | | | 344000 | 349000 | 354000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 1720 | 1745 | 1770 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.55 | 23.60 | 23.56 | 25.0 |
| Channel | | | | 343500 | 349000 | 354500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 1717.5 | 1745 | 1772.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.51 | 23.54 | 23.60 | 25.0 |
| Channel | | | | 343000 | 349000 | 355000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 1715 | 1745 | 1775 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.58 | 23.56 | 23.58 | 25.0 |
| Channel | | | | 342500 | 349000 | 355500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 1712.5 | 1745 | 1777.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 23.61 | 23.56 | 23.66 | 25.0 |



<FR1 n66_Ant MIMO 2_Sensor OFF>

| Channel | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | | | |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|-------|-------|------|
| Channel | 346000 | 349000 | 352000 | | | | |
| Frequency (MHz) | 1730 | 1745 | 1760 | | | | |
| 40 | PI/2 BPSK | 1 | 1 | 22.51 | 22.68 | 22.48 | 24.0 |
| 40 | PI/2 BPSK | 1 | 108 | 22.48 | 22.67 | 22.47 | |
| 40 | PI/2 BPSK | 1 | 214 | 22.46 | 22.66 | 22.47 | |
| 40 | PI/2 BPSK | 108 | 0 | 22.48 | 22.63 | 22.45 | 23.5 |
| 40 | PI/2 BPSK | 108 | 54 | 22.50 | 22.67 | 22.46 | 24.0 |
| 40 | PI/2 BPSK | 108 | 108 | 22.47 | 22.66 | 22.44 | 23.5 |
| 40 | PI/2 BPSK | 216 | 0 | 22.48 | 22.66 | 22.45 | |
| 40 | QPSK | 1 | 1 | 22.44 | 22.60 | 22.44 | 24.0 |
| 40 | QPSK | 1 | 108 | 22.46 | 22.62 | 22.51 | |
| 40 | QPSK | 1 | 214 | 22.50 | 22.66 | 22.47 | |
| 40 | QPSK | 108 | 0 | 22.53 | 22.63 | 22.43 | 23.0 |
| 40 | QPSK | 108 | 54 | 22.53 | 22.63 | 22.44 | 24.0 |
| 40 | QPSK | 108 | 108 | 22.50 | 22.60 | 22.46 | 23.0 |
| 40 | QPSK | 216 | 0 | 22.42 | 22.61 | 22.51 | |
| 40 | 16QAM | 1 | 1 | 22.46 | 22.56 | 22.45 | 23.0 |
| 40 | 64QAM | 1 | 1 | 21.00 | 21.15 | 21.00 | 21.5 |
| 40 | 256QAM | 1 | 1 | 19.24 | 19.39 | 19.24 | 19.5 |
| Channel | 345000 | 349000 | 353000 | Tune-up limit (dBm) | | | |
| Frequency (MHz) | 1725 | 1745 | 1765 | | | | |
| 30 | PI/2 BPSK | 1 | 1 | 22.29 | 22.50 | 22.31 | 24.0 |
| Channel | 342000 | 349000 | 356000 | Tune-up limit (dBm) | | | |
| Frequency (MHz) | 1710 | 1745 | 1780 | | | | |
| 20 | PI/2 BPSK | 1 | 1 | 22.28 | 22.42 | 22.30 | 24.0 |
| Channel | 343500 | 349000 | 354500 | Tune-up limit (dBm) | | | |
| Frequency (MHz) | 1717.5 | 1745 | 1772.5 | | | | |
| 15 | PI/2 BPSK | 1 | 1 | 22.30 | 22.43 | 22.24 | 24.0 |
| Channel | 343000 | 349000 | 355000 | Tune-up limit (dBm) | | | |
| Frequency (MHz) | 1715 | 1745 | 1775 | | | | |
| 10 | PI/2 BPSK | 1 | 1 | 22.28 | 22.45 | 22.32 | 24.0 |
| Channel | 342500 | 349000 | 355500 | Tune-up limit (dBm) | | | |
| Frequency (MHz) | 1712.5 | 1745 | 1777.5 | | | | |
| 5 | PI/2 BPSK | 1 | 1 | 22.34 | 22.45 | 22.25 | 24.0 |



<FR1 n66_Ant Main_Sensor ON>

| Channel | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | 346000 | 349000 | 352000 | 19.0 |
| Frequency (MHz) | 1730 | 1745 | 1760 | |
| 40 | 18.40 | 18.44 | 18.37 | |
| 40 | 18.32 | 18.37 | 18.31 | 19.0 |
| 40 | 18.25 | 18.35 | 18.34 | |
| 40 | 18.34 | 18.37 | 18.36 | 19.0 |
| 40 | 18.35 | 18.41 | 18.37 | 19.0 |
| 40 | 18.29 | 18.29 | 18.23 | 19.0 |
| 40 | 18.39 | 18.40 | 18.30 | |
| 40 | 18.35 | 18.37 | 18.29 | 19.0 |
| 40 | 18.24 | 18.32 | 18.32 | |
| 40 | 18.28 | 18.30 | 18.30 | |
| 40 | 18.29 | 18.35 | 18.26 | 19.0 |
| 40 | 18.26 | 18.33 | 18.29 | 19.0 |
| 40 | 18.18 | 18.26 | 18.24 | 19.0 |
| 40 | 18.35 | 18.35 | 18.31 | |
| 40 | 18.23 | 18.32 | 18.27 | 19.0 |
| 40 | 18.35 | 18.42 | 18.32 | 19.0 |
| 40 | 18.10 | 18.11 | 18.06 | 19.0 |
| Channel | 345000 | 349000 | 353000 | Tune-up limit (dBm) |
| Frequency (MHz) | 1725 | 1745 | 1765 | |
| 30 | 18.33 | 18.37 | 18.36 | 19.0 |
| Channel | 344000 | 349000 | 354000 | Tune-up limit (dBm) |
| Frequency (MHz) | 1720 | 1745 | 1770 | |
| 20 | 18.36 | 18.40 | 18.32 | 19.0 |
| Channel | 343500 | 349000 | 354500 | Tune-up limit (dBm) |
| Frequency (MHz) | 1717.5 | 1745 | 1772.5 | |
| 15 | 18.38 | 18.39 | 18.33 | 19.0 |
| Channel | 343000 | 349000 | 355000 | Tune-up limit (dBm) |
| Frequency (MHz) | 1715 | 1745 | 1775 | |
| 10 | 18.31 | 18.36 | 18.28 | 19.0 |
| Channel | 342500 | 349000 | 355500 | Tune-up limit (dBm) |
| Frequency (MHz) | 1712.5 | 1745 | 1777.5 | |
| 5 | 18.39 | 18.40 | 18.32 | 19.0 |



<FR1 n66_Ant MIMO 2_Sensor ON>

| Channel | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | 346000 | 349000 | 352000 | |
| Frequency (MHz) | 1730 | 1745 | 1760 | |
| 40 | PI/2 BPSK | 1 | 1 | 18.0 |
| 40 | PI/2 BPSK | 1 | 108 | |
| 40 | PI/2 BPSK | 1 | 214 | |
| 40 | PI/2 BPSK | 108 | 0 | 18.0 |
| 40 | PI/2 BPSK | 108 | 54 | 18.0 |
| 40 | PI/2 BPSK | 108 | 108 | 18.0 |
| 40 | PI/2 BPSK | 216 | 0 | |
| 40 | QPSK | 1 | 1 | 18.0 |
| 40 | QPSK | 1 | 108 | |
| 40 | QPSK | 1 | 214 | |
| 40 | QPSK | 108 | 0 | 18.0 |
| 40 | QPSK | 108 | 54 | 18.0 |
| 40 | QPSK | 108 | 108 | 18.0 |
| 40 | QPSK | 216 | 0 | |
| 40 | 16QAM | 1 | 1 | 18.0 |
| 40 | 64QAM | 1 | 1 | 18.0 |
| 40 | 256QAM | 1 | 1 | 18.0 |
| Channel | 345000 | 349000 | 353000 | Tune-up limit (dBm) |
| Frequency (MHz) | 1725 | 1745 | 1765 | |
| 30 | PI/2 BPSK | 1 | 1 | 18.0 |
| Channel | 342000 | 349000 | 356000 | Tune-up limit (dBm) |
| Frequency (MHz) | 1710 | 1745 | 1780 | |
| 20 | PI/2 BPSK | 1 | 1 | 18.0 |
| Channel | 343500 | 349000 | 354500 | Tune-up limit (dBm) |
| Frequency (MHz) | 1717.5 | 1745 | 1772.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 18.0 |
| Channel | 343000 | 349000 | 355000 | Tune-up limit (dBm) |
| Frequency (MHz) | 1715 | 1745 | 1775 | |
| 10 | PI/2 BPSK | 1 | 1 | 18.0 |
| Channel | 342500 | 349000 | 355500 | Tune-up limit (dBm) |
| Frequency (MHz) | 1712.5 | 1745 | 1777.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 18.0 |



<FR1 n71_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 134600 | 136100 | 137600 | |
| Frequency (MHz) | | | | 673 | 680.5 | 688 | |
| 20 | PI/2 BPSK | 1 | 1 | 24.25 | 24.28 | 24.21 | 25.0 |
| 20 | PI/2 BPSK | 1 | 53 | 24.23 | 23.88 | 24.13 | |
| 20 | PI/2 BPSK | 1 | 104 | 24.03 | 23.86 | 23.89 | |
| 20 | PI/2 BPSK | 50 | 0 | 23.81 | 23.85 | 23.58 | 24.5 |
| 20 | PI/2 BPSK | 50 | 28 | 24.12 | 24.26 | 24.07 | 25.0 |
| 20 | PI/2 BPSK | 50 | 56 | 23.81 | 23.63 | 23.67 | 24.5 |
| 20 | PI/2 BPSK | 100 | 0 | 23.83 | 23.84 | 23.66 | |
| 20 | QPSK | 1 | 1 | 24.24 | 24.27 | 24.27 | 25.0 |
| 20 | QPSK | 1 | 53 | 24.22 | 24.09 | 24.18 | |
| 20 | QPSK | 1 | 104 | 24.03 | 24.01 | 23.98 | |
| 20 | QPSK | 50 | 0 | 23.32 | 23.39 | 23.17 | 24.0 |
| 20 | QPSK | 50 | 28 | 24.25 | 24.10 | 24.05 | 25.0 |
| 20 | QPSK | 50 | 56 | 23.31 | 23.10 | 23.06 | 24.0 |
| 20 | QPSK | 100 | 0 | 23.35 | 23.20 | 23.13 | |
| 20 | 16QAM | 1 | 1 | 23.31 | 23.33 | 23.58 | 24.0 |
| 20 | 64QAM | 1 | 1 | 21.98 | 21.88 | 21.67 | 22.5 |
| 20 | 256QAM | 1 | 1 | 19.62 | 19.79 | 19.50 | 20.5 |
| Channel | | | | 134100 | 136100 | 138100 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 670.5 | 680.5 | 690.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 24.22 | 23.89 | 24.20 | 25.0 |
| Channel | | | | 133600 | 136100 | 138600 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 668 | 680.5 | 693 | |
| 10 | PI/2 BPSK | 1 | 1 | 24.24 | 23.90 | 24.16 | 25.0 |
| Channel | | | | 133100 | 136100 | 139100 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 665.5 | 680.5 | 695.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 24.27 | 23.93 | 24.16 | 25.0 |



<FR1 n71_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 134600 | 136100 | 137600 | |
| Frequency (MHz) | | | | 673 | 680.5 | 688 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.85 | 23.88 | 23.87 | 24.5 |
| 20 | PI/2 BPSK | 1 | 53 | 23.70 | 23.76 | 23.72 | |
| 20 | PI/2 BPSK | 1 | 104 | 23.67 | 23.69 | 23.69 | |
| 20 | PI/2 BPSK | 50 | 0 | 23.77 | 23.81 | 23.78 | 24.5 |
| 20 | PI/2 BPSK | 50 | 28 | 23.78 | 23.82 | 23.79 | 24.5 |
| 20 | PI/2 BPSK | 50 | 56 | 23.68 | 23.70 | 23.64 | 24.5 |
| 20 | PI/2 BPSK | 100 | 0 | 23.64 | 23.72 | 23.63 | |
| 20 | QPSK | 1 | 1 | 23.80 | 23.86 | 23.77 | 24.5 |
| 20 | QPSK | 1 | 53 | 23.73 | 23.75 | 23.68 | |
| 20 | QPSK | 1 | 104 | 23.68 | 23.68 | 23.61 | |
| 20 | QPSK | 50 | 0 | 23.71 | 23.80 | 23.78 | 24.5 |
| 20 | QPSK | 50 | 28 | 23.74 | 23.79 | 23.77 | 24.5 |
| 20 | QPSK | 50 | 56 | 23.69 | 23.75 | 23.65 | 24.5 |
| 20 | QPSK | 100 | 0 | 23.68 | 23.74 | 23.67 | |
| 20 | 16QAM | 1 | 1 | 23.79 | 23.85 | 23.78 | 24.5 |
| 20 | 64QAM | 1 | 1 | 22.57 | 22.67 | 22.61 | 23.0 |
| 20 | 256QAM | 1 | 1 | 19.94 | 20.03 | 19.95 | 21.0 |
| Channel | | | | 134100 | 136100 | 138100 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 670.5 | 680.5 | 690.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.78 | 23.78 | 23.81 | 24.5 |
| Channel | | | | 133600 | 136100 | 138600 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 668 | 680.5 | 693 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.79 | 23.80 | 23.76 | 24.5 |
| Channel | | | | 133100 | 136100 | 139100 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 665.5 | 680.5 | 695.5 | |
| 5 | PI/2 BPSK | 1 | 1 | 23.77 | 23.79 | 23.81 | 24.5 |



<FR1 n38_Ant Main_Sensor OFF>

| Channel | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | | | |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|-------|-------|------|
| Channel | 518000 | 519000 | 520000 | | | | |
| Frequency (MHz) | 2590 | 2595 | 2600 | | | | |
| 40 | PI/2 BPSK | 1 | 1 | 23.92 | 23.96 | 23.88 | 25.0 |
| 40 | PI/2 BPSK | 1 | 53 | 23.87 | 23.85 | 23.84 | |
| 40 | PI/2 BPSK | 1 | 104 | 23.91 | 23.89 | 23.87 | |
| 40 | PI/2 BPSK | 50 | 0 | 23.46 | 23.42 | 23.44 | 24.5 |
| 40 | PI/2 BPSK | 50 | 28 | 23.91 | 23.92 | 23.83 | 25.0 |
| 40 | PI/2 BPSK | 50 | 56 | 23.43 | 23.44 | 23.47 | 24.5 |
| 40 | PI/2 BPSK | 100 | 0 | 23.39 | 23.47 | 23.46 | |
| 40 | QPSK | 1 | 1 | 23.89 | 23.92 | 23.88 | 25.0 |
| 40 | QPSK | 1 | 53 | 23.84 | 23.89 | 23.82 | |
| 40 | QPSK | 1 | 104 | 23.90 | 23.92 | 23.84 | |
| 40 | QPSK | 50 | 0 | 23.08 | 23.06 | 23.04 | 25.0 |
| 40 | QPSK | 50 | 28 | 23.78 | 23.83 | 23.82 | |
| 40 | QPSK | 50 | 56 | 23.03 | 23.02 | 23.05 | |
| 40 | QPSK | 100 | 0 | 22.93 | 22.97 | 22.96 | 24.0 |
| 40 | 16QAM | 1 | 1 | 22.96 | 23.10 | 22.92 | 24.0 |
| 40 | 64QAM | 1 | 1 | 21.58 | 21.35 | 21.29 | 22.5 |
| 40 | 256QAM | 1 | 1 | 19.44 | 19.50 | 19.39 | 20.5 |
| Channel | 517000 | 519000 | 521000 | Tune-up limit (dBm) | | | |
| Frequency (MHz) | 2585 | 2595 | 2605 | | | | |
| 30 | PI/2 BPSK | 1 | 1 | 23.80 | 23.79 | 23.77 | 25.0 |
| Channel | 516000 | 519000 | 522000 | Tune-up limit (dBm) | | | |
| Frequency (MHz) | 2580 | 2595 | 2610 | | | | |
| 20 | PI/2 BPSK | 1 | 1 | 23.85 | 23.81 | 23.85 | 25.0 |
| Channel | 515500 | 519000 | 522500 | Tune-up limit (dBm) | | | |
| Frequency (MHz) | 2577.5 | 2595 | 2612.5 | | | | |
| 15 | PI/2 BPSK | 1 | 1 | 23.83 | 23.80 | 23.80 | 25.0 |
| Channel | 515000 | 519000 | 523000 | Tune-up limit (dBm) | | | |
| Frequency (MHz) | 2575 | 2595 | 2615 | | | | |
| 10 | PI/2 BPSK | 1 | 1 | 23.81 | 23.79 | 23.84 | 25.0 |



<FR1 n38_Ant MIMO 2_Sensor OFF>

| Channel | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|------|
| Channel | 518000 | 519000 | 520000 | | |
| Frequency (MHz) | 2590 | 2595 | 2600 | | |
| 40 | PI/2 BPSK | 1 | 1 | 23.03 | 24.0 |
| 40 | PI/2 BPSK | 1 | 53 | 22.90 | |
| 40 | PI/2 BPSK | 1 | 104 | 22.91 | |
| 40 | PI/2 BPSK | 50 | 0 | 21.90 | 23.5 |
| 40 | PI/2 BPSK | 50 | 28 | 22.86 | 24.0 |
| 40 | PI/2 BPSK | 50 | 56 | 21.88 | 23.5 |
| 40 | PI/2 BPSK | 100 | 0 | 21.90 | |
| 40 | QPSK | 1 | 1 | 22.96 | 24.0 |
| 40 | QPSK | 1 | 53 | 22.88 | |
| 40 | QPSK | 1 | 104 | 22.94 | |
| 40 | QPSK | 50 | 0 | 22.00 | 23.0 |
| 40 | QPSK | 50 | 28 | 22.88 | 24.0 |
| 40 | QPSK | 50 | 56 | 22.02 | 23.0 |
| 40 | QPSK | 100 | 0 | 21.93 | 23.0 |
| 40 | 16QAM | 1 | 1 | 21.98 | 23.0 |
| 40 | 64QAM | 1 | 1 | 20.58 | 21.5 |
| 40 | 256QAM | 1 | 1 | 18.44 | 19.5 |
| Channel | 517000 | 519000 | 521000 | Tune-up limit (dBm) | |
| Frequency (MHz) | 2585 | 2595 | 2605 | | |
| 30 | PI/2 BPSK | 1 | 1 | 22.91 | 24.0 |
| Channel | 516000 | 519000 | 522000 | Tune-up limit (dBm) | |
| Frequency (MHz) | 2580 | 2595 | 2610 | | |
| 20 | PI/2 BPSK | 1 | 1 | 23.00 | 24.0 |
| Channel | 515500 | 519000 | 522500 | Tune-up limit (dBm) | |
| Frequency (MHz) | 2577.5 | 2595 | 2612.5 | | |
| 15 | PI/2 BPSK | 1 | 1 | 22.91 | 24.0 |
| Channel | 515000 | 519000 | 523000 | Tune-up limit (dBm) | |
| Frequency (MHz) | 2575 | 2595 | 2615 | | |
| 10 | PI/2 BPSK | 1 | 1 | 22.93 | 24.0 |



<FR1 n38_Ant MIMO 1_Sensor OFF>

| BW [MHz] | ModulatkHn | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 518000 | 519000 | 520000 | |
| Frequency (MHz) | | | | 2590 | 2595 | 2600 | |
| 40 | PI/2 BPSK | 1 | 1 | 23.64 | 23.78 | 23.67 | |
| 40 | PI/2 BPSK | 1 | 53 | 23.51 | 23.69 | 23.52 | 25.0 |
| 40 | PI/2 BPSK | 1 | 104 | 23.60 | 23.74 | 23.55 | 24.5 |
| 40 | PI/2 BPSK | 50 | 0 | 23.58 | 23.68 | 23.51 | |
| 40 | PI/2 BPSK | 50 | 28 | 23.58 | 23.72 | 23.57 | 25.0 |
| 40 | PI/2 BPSK | 50 | 56 | 23.51 | 23.63 | 23.52 | 24.5 |
| 40 | PI/2 BPSK | 100 | 0 | 23.54 | 23.69 | 23.49 | |
| 40 | QPSK | 1 | 1 | 23.46 | 23.66 | 23.56 | 25.0 |
| 40 | QPSK | 1 | 53 | 23.56 | 23.70 | 23.53 | |
| 40 | QPSK | 1 | 104 | 23.58 | 23.72 | 23.61 | |
| 40 | QPSK | 50 | 0 | 23.50 | 23.70 | 23.59 | 25.0 |
| 40 | QPSK | 50 | 28 | 23.60 | 23.72 | 23.58 | |
| 40 | QPSK | 50 | 56 | 23.52 | 23.68 | 23.49 | |
| 40 | QPSK | 100 | 0 | 23.57 | 23.73 | 23.59 | 24.0 |
| 40 | 16QAM | 1 | 1 | 23.55 | 23.69 | 23.59 | 24.0 |
| 40 | 64QAM | 1 | 1 | 23.52 | 23.67 | 23.48 | 24.0 |
| 40 | 256QAM | 1 | 1 | 21.89 | 21.99 | 21.87 | 22.0 |
| Channel | | | | 517000 | 519000 | 521000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2585 | 2595 | 2605 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.46 | 23.66 | 23.51 | 25.0 |
| Channel | | | | 516000 | 519000 | 522000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2580 | 2595 | 2610 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.42 | 23.62 | 23.47 | 25.0 |
| Channel | | | | 515500 | 519000 | 522500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2577.5 | 2595 | 2612.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.43 | 23.65 | 23.47 | 25.0 |
| Channel | | | | 515000 | 519000 | 523000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2575 | 2595 | 2615 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.50 | 23.58 | 23.47 | 25.0 |



<FR1 n38_Ant Aux_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 518000 | 519000 | 520000 | |
| Frequency (MHz) | | | | 2590 | 2595 | 2600 | |
| 40 | PI/2 BPSK | 1 | 1 | 23.86 | 23.87 | 23.85 | 25.0 |
| 40 | PI/2 BPSK | 1 | 53 | 23.73 | 23.77 | 23.69 | |
| 40 | PI/2 BPSK | 1 | 104 | 23.80 | 23.82 | 23.78 | |
| 40 | PI/2 BPSK | 50 | 0 | 23.71 | 23.78 | 23.74 | 24.5 |
| 40 | PI/2 BPSK | 50 | 28 | 23.72 | 23.81 | 23.76 | 25.0 |
| 40 | PI/2 BPSK | 50 | 56 | 23.66 | 23.73 | 23.71 | 24.5 |
| 40 | PI/2 BPSK | 100 | 0 | 23.68 | 23.74 | 23.67 | |
| 40 | QPSK | 1 | 1 | 23.80 | 23.84 | 23.78 | 25.0 |
| 40 | QPSK | 1 | 53 | 23.65 | 23.73 | 23.64 | |
| 40 | QPSK | 1 | 104 | 23.76 | 23.77 | 23.74 | |
| 40 | QPSK | 50 | 0 | 23.82 | 23.83 | 23.76 | 25.0 |
| 40 | QPSK | 50 | 28 | 23.71 | 23.77 | 23.69 | |
| 40 | QPSK | 50 | 56 | 23.63 | 23.70 | 23.65 | |
| 40 | QPSK | 100 | 0 | 23.76 | 23.78 | 23.73 | 24.0 |
| 40 | 16QAM | 1 | 1 | 23.85 | 23.86 | 23.79 | 24.0 |
| 40 | 64QAM | 1 | 1 | 22.76 | 22.77 | 22.71 | 23.0 |
| 40 | 256QAM | 1 | 1 | 20.32 | 20.36 | 20.34 | 20.5 |
| Channel | | | | 517000 | 519000 | 521000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2585 | 2595 | 2605 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.78 | 23.77 | 23.76 | 25.0 |
| Channel | | | | 516000 | 519000 | 522000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2580 | 2595 | 2610 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.84 | 23.79 | 23.77 | 25.0 |
| Channel | | | | 515500 | 519000 | 522500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2577.5 | 2595 | 2612.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.80 | 23.83 | 23.84 | 25.0 |
| Channel | | | | 515000 | 519000 | 523000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2575 | 2595 | 2615 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.78 | 23.81 | 23.77 | 25.0 |



<FR1 n38_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 518000 | 519000 | 520000 | |
| Frequency (MHz) | | | | 2590 | 2595 | 2600 | |
| 40 | PI/2 BPSK | 1 | 1 | 13.92 | 13.93 | 13.88 | |
| 40 | PI/2 BPSK | 1 | 53 | 13.87 | 13.88 | 13.83 | 14.5 |
| 40 | PI/2 BPSK | 1 | 104 | 13.90 | 13.91 | 13.86 | 14.5 |
| 40 | PI/2 BPSK | 50 | 0 | 13.84 | 13.85 | 13.80 | |
| 40 | PI/2 BPSK | 50 | 28 | 13.85 | 13.86 | 13.81 | 14.5 |
| 40 | PI/2 BPSK | 50 | 56 | 13.82 | 13.83 | 13.78 | 14.5 |
| 40 | PI/2 BPSK | 100 | 0 | 13.84 | 13.85 | 13.80 | |
| 40 | QPSK | 1 | 1 | 13.90 | 13.91 | 13.86 | 14.5 |
| 40 | QPSK | 1 | 53 | 13.86 | 13.87 | 13.82 | |
| 40 | QPSK | 1 | 104 | 13.85 | 13.86 | 13.81 | |
| 40 | QPSK | 50 | 0 | 13.84 | 13.85 | 13.80 | 14.5 |
| 40 | QPSK | 50 | 28 | 13.82 | 13.83 | 13.78 | |
| 40 | QPSK | 50 | 56 | 13.80 | 13.81 | 13.76 | |
| 40 | QPSK | 100 | 0 | 13.83 | 13.84 | 13.79 | 14.5 |
| 40 | 16QAM | 1 | 1 | 13.83 | 13.84 | 13.79 | 14.5 |
| 40 | 64QAM | 1 | 1 | 13.91 | 13.92 | 13.87 | 14.5 |
| 40 | 256QAM | 1 | 1 | 13.57 | 13.58 | 13.53 | 14.0 |
| Channel | | | | 517000 | 519000 | 521000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2585 | 2595 | 2605 | |
| 30 | PI/2 BPSK | 1 | 1 | 13.80 | 13.86 | 13.78 | 14.5 |
| Channel | | | | 516000 | 519000 | 522000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2580 | 2595 | 2610 | |
| 20 | PI/2 BPSK | 1 | 1 | 13.86 | 13.85 | 13.79 | 14.5 |
| Channel | | | | 515500 | 519000 | 522500 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2577.5 | 2595 | 2612.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 13.85 | 13.85 | 13.82 | 14.5 |
| Channel | | | | 515000 | 519000 | 523000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2575 | 2595 | 2615 | |
| 10 | PI/2 BPSK | 1 | 1 | 13.82 | 13.83 | 13.77 | 14.5 |



<FR1 n38_Ant MIMO 2_Sensor ON>

| Channel | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|---------|-----------------------|--------------------------|------------------------|---------------------|
| 40 | 15.46 | 15.72 | 15.69 | 16.5 |
| 40 | 15.36 | 15.67 | 15.64 | |
| 40 | 15.31 | 15.55 | 15.52 | |
| 40 | 15.36 | 15.67 | 15.65 | 16.5 |
| 40 | 15.38 | 15.68 | 15.66 | 16.5 |
| 40 | 15.28 | 15.58 | 15.50 | 16.5 |
| 40 | 15.36 | 15.63 | 15.59 | |
| 40 | 15.45 | 15.69 | 15.68 | 16.5 |
| 40 | 15.43 | 15.71 | 15.64 | |
| 40 | 15.38 | 15.65 | 15.61 | |
| 40 | 15.35 | 15.62 | 15.59 | 16.5 |
| 40 | 15.38 | 15.63 | 15.61 | 16.5 |
| 40 | 15.26 | 15.52 | 15.48 | 16.5 |
| 40 | 15.28 | 15.56 | 15.52 | 16.5 |
| 40 | 15.20 | 15.48 | 15.46 | 16.5 |
| 40 | 15.35 | 15.62 | 15.57 | 16.5 |
| 40 | 15.23 | 15.54 | 15.48 | 16.5 |
| 30 | 15.26 | 15.59 | 15.52 | 16.5 |
| 20 | 15.34 | 15.57 | 15.53 | 16.5 |
| 15 | 15.36 | 15.56 | 15.55 | 16.5 |
| 10 | 15.31 | 15.56 | 15.59 | 16.5 |



<FR1 n38_Ant MIMO 1_Sensor ON>

| Channel | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | | | |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|-------|-------|------|
| Channel | 518000 | 519000 | 520000 | | | | |
| Frequency (MHz) | 2590 | 2595 | 2600 | | | | |
| 40 | PI/2 BPSK | 1 | 1 | 14.88 | 15.00 | 14.96 | 16.0 |
| 40 | PI/2 BPSK | 1 | 53 | 14.87 | 14.98 | 14.90 | |
| 40 | PI/2 BPSK | 1 | 104 | 14.63 | 14.69 | 14.71 | |
| 40 | PI/2 BPSK | 50 | 0 | 14.85 | 14.97 | 14.91 | 16.0 |
| 40 | PI/2 BPSK | 50 | 28 | 14.93 | 14.98 | 14.96 | 16.0 |
| 40 | PI/2 BPSK | 50 | 56 | 14.80 | 14.78 | 14.78 | 16.0 |
| 40 | PI/2 BPSK | 100 | 0 | 14.75 | 14.85 | 14.86 | |
| 40 | QPSK | 1 | 1 | 14.90 | 14.94 | 14.93 | 16.0 |
| 40 | QPSK | 1 | 53 | 14.91 | 14.99 | 14.93 | |
| 40 | QPSK | 1 | 104 | 14.63 | 14.60 | 14.67 | |
| 40 | QPSK | 50 | 0 | 14.94 | 14.93 | 14.93 | 16.0 |
| 40 | QPSK | 50 | 28 | 14.86 | 14.92 | 14.84 | |
| 40 | QPSK | 50 | 56 | 14.75 | 14.83 | 14.80 | |
| 40 | QPSK | 100 | 0 | 14.80 | 14.83 | 14.77 | 16.0 |
| 40 | 16QAM | 1 | 1 | 14.98 | 14.92 | 14.99 | 16.0 |
| 40 | 64QAM | 1 | 1 | 14.88 | 14.87 | 14.90 | 16.0 |
| 40 | 256QAM | 1 | 1 | 14.52 | 14.49 | 14.45 | 16.0 |
| Channel | 517000 | 519000 | 521000 | Tune-up limit (dBm) | | | |
| Frequency (MHz) | 2585 | 2595 | 2605 | | | | |
| 30 | PI/2 BPSK | 1 | 1 | 14.77 | 14.82 | 14.80 | 16.0 |
| Channel | 516000 | 519000 | 522000 | Tune-up limit (dBm) | | | |
| Frequency (MHz) | 2580 | 2595 | 2610 | | | | |
| 20 | PI/2 BPSK | 1 | 1 | 14.75 | 14.81 | 14.86 | 16.0 |
| Channel | 515500 | 519000 | 522500 | Tune-up limit (dBm) | | | |
| Frequency (MHz) | 2577.5 | 2595 | 2612.5 | | | | |
| 15 | PI/2 BPSK | 1 | 1 | 14.76 | 14.90 | 14.83 | 16.0 |
| Channel | 515000 | 519000 | 523000 | Tune-up limit (dBm) | | | |
| Frequency (MHz) | 2575 | 2595 | 2615 | | | | |
| 10 | PI/2 BPSK | 1 | 1 | 14.70 | 14.85 | 14.85 | 16.0 |



<FR1 n38_Ant Aux_Sensor ON>

| Channel | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | 518000 | 519000 | 520000 | |
| Frequency (MHz) | 2590 | 2595 | 2600 | |
| 40 | PI/2 BPSK | 1 | 1 | 13.5 |
| 40 | PI/2 BPSK | 1 | 53 | |
| 40 | PI/2 BPSK | 1 | 104 | |
| 40 | PI/2 BPSK | 50 | 0 | 13.5 |
| 40 | PI/2 BPSK | 50 | 28 | 13.5 |
| 40 | PI/2 BPSK | 50 | 56 | 13.5 |
| 40 | PI/2 BPSK | 100 | 0 | |
| 40 | QPSK | 1 | 1 | 13.5 |
| 40 | QPSK | 1 | 53 | |
| 40 | QPSK | 1 | 104 | |
| 40 | QPSK | 50 | 0 | 13.5 |
| 40 | QPSK | 50 | 28 | |
| 40 | QPSK | 50 | 56 | |
| 40 | QPSK | 100 | 0 | 13.5 |
| 40 | 16QAM | 1 | 1 | 13.5 |
| 40 | 64QAM | 1 | 1 | 13.5 |
| 40 | 256QAM | 1 | 1 | 13.5 |
| Channel | 517000 | 519000 | 521000 | Tune-up limit (dBm) |
| Frequency (MHz) | 2585 | 2595 | 2605 | |
| 30 | PI/2 BPSK | 1 | 1 | 13.5 |
| Channel | 516000 | 519000 | 522000 | Tune-up limit (dBm) |
| Frequency (MHz) | 2580 | 2595 | 2610 | |
| 20 | PI/2 BPSK | 1 | 1 | 13.5 |
| Channel | 515500 | 519000 | 522500 | Tune-up limit (dBm) |
| Frequency (MHz) | 2577.5 | 2595 | 2612.5 | |
| 15 | PI/2 BPSK | 1 | 1 | 13.5 |
| Channel | 515000 | 519000 | 523000 | Tune-up limit (dBm) |
| Frequency (MHz) | 2575 | 2595 | 2615 | |
| 10 | PI/2 BPSK | 1 | 1 | 13.5 |



<FR1 n41_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 509202 | 518598 | 528000 | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | |
| 100 | PI/2 BPSK | 1 | 1 | 23.26 | 23.31 | 23.25 | 25.0 |
| 100 | PI/2 BPSK | 1 | 137 | 23.25 | 23.30 | 23.24 | |
| 100 | PI/2 BPSK | 1 | 271 | 23.21 | 23.29 | 23.20 | |
| 100 | PI/2 BPSK | 135 | 0 | 22.81 | 22.85 | 22.86 | 24.5 |
| 100 | PI/2 BPSK | 135 | 69 | 23.25 | 23.29 | 23.24 | 25.0 |
| 100 | PI/2 BPSK | 135 | 138 | 22.76 | 22.83 | 22.77 | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | 22.87 | 22.88 | 22.82 | |
| 100 | QPSK | 1 | 1 | 23.24 | 23.19 | 23.20 | 25.0 |
| 100 | QPSK | 1 | 137 | 23.28 | 23.24 | 23.22 | |
| 100 | QPSK | 1 | 271 | 23.24 | 23.23 | 23.15 | |
| 100 | QPSK | 135 | 0 | 23.06 | 23.02 | 23.05 | 25.0 |
| 100 | QPSK | 135 | 69 | 23.28 | 23.24 | 23.24 | |
| 100 | QPSK | 135 | 138 | 23.01 | 23.05 | 23.01 | |
| 100 | QPSK | 270 | 0 | 22.38 | 22.30 | 22.31 | 24.0 |
| 100 | 16QAM | 1 | 1 | 22.33 | 22.71 | 22.45 | 24.0 |
| 100 | 64QAM | 1 | 1 | 20.73 | 20.74 | 20.94 | 22.5 |
| 100 | 256QAM | 1 | 1 | 18.67 | 18.68 | 18.51 | 20.5 |
| Channel | | | | 508200 | 518598 | 528996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2541 | 2592.99 | 2644.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 23.17 | 23.17 | 23.17 | 25.0 |
| Channel | | | | 507204 | 518598 | 529998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2536.02 | 2592.99 | 2649.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 23.14 | 23.11 | 23.13 | 25.0 |
| Channel | | | | 506202 | 518598 | 531000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2531.01 | 2592.99 | 2655 | |
| 70 | PI/2 BPSK | 1 | 1 | 23.11 | 23.20 | 23.16 | 25.0 |
| Channel | | | | 505200 | 518598 | 531996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2526 | 2592.99 | 2659.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 23.14 | 23.14 | 23.19 | 25.0 |
| Channel | | | | 504204 | 518598 | 532998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2521.02 | 2592.99 | 2664.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 23.14 | 23.15 | 23.17 | 25.0 |
| Channel | | | | 503202 | 518598 | 534000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2516.01 | 2592.99 | 2670 | |
| 40 | PI/2 BPSK | 1 | 1 | 23.12 | 23.12 | 23.23 | 25.0 |
| Channel | | | | 502200 | 518598 | 534996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2511 | 2592.99 | 2674.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.14 | 23.18 | 23.21 | 25.0 |
| Channel | | | | 501204 | 518598 | 535998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2506.02 | 2592.99 | 2679.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.15 | 23.13 | 23.20 | 25.0 |



<FR1 n41_Ant MIMO 2_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 509202 | 518598 | 528000 | 24.0 |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | |
| 100 | PI/2 BPSK | 1 | 1 | 23.67 | 23.77 | 23.67 | |
| 100 | PI/2 BPSK | 1 | 137 | 23.66 | 23.75 | 23.61 | 23.5 |
| 100 | PI/2 BPSK | 1 | 271 | 23.66 | 23.72 | 23.59 | |
| 100 | PI/2 BPSK | 135 | 0 | 23.31 | 23.39 | 23.48 | 24.0 |
| 100 | PI/2 BPSK | 135 | 69 | 23.68 | 23.74 | 23.66 | |
| 100 | PI/2 BPSK | 135 | 138 | 23.19 | 23.31 | 23.32 | 23.5 |
| 100 | PI/2 BPSK | 270 | 0 | 23.24 | 23.27 | 23.26 | |
| 100 | QPSK | 1 | 1 | 23.64 | 23.69 | 23.49 | 24.0 |
| 100 | QPSK | 1 | 137 | 23.68 | 23.74 | 23.58 | |
| 100 | QPSK | 1 | 271 | 23.70 | 23.73 | 23.52 | |
| 100 | QPSK | 135 | 0 | 22.80 | 22.87 | 22.56 | 24.0 |
| 100 | QPSK | 135 | 69 | 23.72 | 23.76 | 23.64 | |
| 100 | QPSK | 135 | 138 | 22.71 | 22.79 | 22.59 | |
| 100 | QPSK | 270 | 0 | 22.75 | 22.83 | 22.52 | 23.0 |
| 100 | 16QAM | 1 | 1 | 22.98 | 22.96 | 22.97 | 23.0 |
| 100 | 64QAM | 1 | 1 | 21.30 | 21.36 | 21.19 | 21.5 |
| 100 | 256QAM | 1 | 1 | 19.28 | 19.31 | 19.00 | 19.5 |
| Channel | | | | 508200 | 518598 | 528996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2541 | 2592.99 | 2644.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 23.55 | 23.67 | 23.51 | 24.0 |
| Channel | | | | 507204 | 518598 | 529998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2536.02 | 2592.99 | 2649.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 23.55 | 23.63 | 23.53 | 24.0 |
| Channel | | | | 506202 | 518598 | 531000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2531.01 | 2592.99 | 2655 | |
| 70 | PI/2 BPSK | 1 | 1 | 23.61 | 23.68 | 23.54 | 24.0 |
| Channel | | | | 505200 | 518598 | 531996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2526 | 2592.99 | 2659.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 23.52 | 23.66 | 23.61 | 24.0 |
| Channel | | | | 504204 | 518598 | 532998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2521.02 | 2592.99 | 2664.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 23.54 | 23.65 | 23.59 | 24.0 |
| Channel | | | | 503202 | 518598 | 534000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2516.01 | 2592.99 | 2670 | |
| 40 | PI/2 BPSK | 1 | 1 | 23.56 | 23.67 | 23.61 | 24.0 |
| Channel | | | | 502200 | 518598 | 534996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2511 | 2592.99 | 2674.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.57 | 23.71 | 23.56 | 24.0 |
| Channel | | | | 501204 | 518598 | 535998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2506.02 | 2592.99 | 2679.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.59 | 23.70 | 23.58 | 24.0 |



<FR1 n41_Ant MIMO 1_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 509202 | 518598 | 528000 | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | |
| 100 | PI/2 BPSK | 1 | 1 | 23.38 | 23.51 | 23.40 | 25.0 |
| 100 | PI/2 BPSK | 1 | 137 | 23.33 | 23.50 | 23.35 | |
| 100 | PI/2 BPSK | 1 | 271 | 23.16 | 23.30 | 23.20 | |
| 100 | PI/2 BPSK | 135 | 0 | 23.32 | 23.49 | 23.29 | 24.5 |
| 100 | PI/2 BPSK | 135 | 69 | 23.33 | 23.50 | 23.33 | 25.0 |
| 100 | PI/2 BPSK | 135 | 138 | 23.30 | 23.42 | 23.24 | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | 23.32 | 23.47 | 23.32 | |
| 100 | QPSK | 1 | 1 | 23.23 | 23.38 | 23.20 | 25.0 |
| 100 | QPSK | 1 | 137 | 23.23 | 23.41 | 23.22 | |
| 100 | QPSK | 1 | 271 | 23.26 | 23.38 | 23.23 | |
| 100 | QPSK | 135 | 0 | 23.06 | 23.10 | 23.08 | 25.0 |
| 100 | QPSK | 135 | 69 | 23.37 | 23.47 | 23.27 | |
| 100 | QPSK | 135 | 138 | 23.02 | 23.03 | 23.01 | |
| 100 | QPSK | 270 | 0 | 22.83 | 23.02 | 22.88 | 24.0 |
| 100 | 16QAM | 1 | 1 | 23.24 | 23.36 | 23.25 | 24.0 |
| 100 | 64QAM | 1 | 1 | 23.24 | 23.44 | 23.30 | 23.5 |
| 100 | 256QAM | 1 | 1 | 21.60 | 21.70 | 21.59 | 22.0 |
| Channel | | | | 508200 | 518598 | 528996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2541 | 2592.99 | 2644.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 23.19 | 23.29 | 23.15 | 25.0 |
| Channel | | | | 507204 | 518598 | 529998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2536.02 | 2592.99 | 2649.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 23.15 | 23.34 | 23.16 | 25.0 |
| Channel | | | | 506202 | 518598 | 531000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2531.01 | 2592.99 | 2655 | |
| 70 | PI/2 BPSK | 1 | 1 | 23.23 | 23.35 | 23.19 | 25.0 |
| Channel | | | | 505200 | 518598 | 531996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2526 | 2592.99 | 2659.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 23.20 | 23.33 | 23.14 | 25.0 |
| Channel | | | | 504204 | 518598 | 532998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2521.02 | 2592.99 | 2664.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 23.21 | 23.31 | 23.14 | 25.0 |
| Channel | | | | 503202 | 518598 | 534000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2516.01 | 2592.99 | 2670 | |
| 40 | PI/2 BPSK | 1 | 1 | 23.17 | 23.29 | 23.12 | 25.0 |
| Channel | | | | 502200 | 518598 | 534996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2511 | 2592.99 | 2674.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.14 | 23.35 | 23.20 | 25.0 |
| Channel | | | | 501204 | 518598 | 535998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2506.02 | 2592.99 | 2679.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.15 | 23.26 | 23.19 | 25.0 |



<FR1 n41_Ant Aux_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 509202 | 518598 | 528000 | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | |
| 100 | PI/2 BPSK | 1 | 1 | 23.10 | 23.64 | 23.35 | 25.0 |
| 100 | PI/2 BPSK | 1 | 137 | 23.07 | 23.12 | 23.34 | |
| 100 | PI/2 BPSK | 1 | 271 | 23.04 | 23.14 | 23.32 | |
| 100 | PI/2 BPSK | 135 | 0 | 22.78 | 22.79 | 23.19 | 24.5 |
| 100 | PI/2 BPSK | 135 | 69 | 23.18 | 23.59 | 23.25 | 25.0 |
| 100 | PI/2 BPSK | 135 | 138 | 22.75 | 22.76 | 23.16 | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | 22.69 | 23.20 | 23.10 | |
| 100 | QPSK | 1 | 1 | 23.15 | 23.19 | 23.62 | 25.0 |
| 100 | QPSK | 1 | 137 | 23.09 | 23.14 | 23.62 | |
| 100 | QPSK | 1 | 271 | 23.04 | 23.14 | 23.57 | |
| 100 | QPSK | 135 | 0 | 22.20 | 22.25 | 22.72 | 24.0 |
| 100 | QPSK | 135 | 69 | 23.17 | 23.20 | 23.59 | 25.0 |
| 100 | QPSK | 135 | 138 | 22.18 | 22.19 | 22.67 | 24.0 |
| 100 | QPSK | 270 | 0 | 22.19 | 22.23 | 22.70 | |
| 100 | 16QAM | 1 | 1 | 22.04 | 22.13 | 22.61 | 24.0 |
| 100 | 64QAM | 1 | 1 | 21.02 | 21.03 | 21.42 | 23.0 |
| 100 | 256QAM | 1 | 1 | 18.64 | 18.74 | 19.23 | 20.5 |
| Channel | | | | 508200 | 518598 | 528996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2541 | 2592.99 | 2644.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 23.04 | 23.03 | 23.11 | 25.0 |
| Channel | | | | 507204 | 518598 | 529998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2536.02 | 2592.99 | 2649.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 23.04 | 23.04 | 23.05 | 25.0 |
| Channel | | | | 506202 | 518598 | 531000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2531.01 | 2592.99 | 2655 | |
| 70 | PI/2 BPSK | 1 | 1 | 23.01 | 23.04 | 23.14 | 25.0 |
| Channel | | | | 505200 | 518598 | 531996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2526 | 2592.99 | 2659.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 23.00 | 23.06 | 23.11 | 25.0 |
| Channel | | | | 504204 | 518598 | 532998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2521.02 | 2592.99 | 2664.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 23.00 | 23.00 | 23.14 | 25.0 |
| Channel | | | | 503202 | 518598 | 534000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2516.01 | 2592.99 | 2670 | |
| 40 | PI/2 BPSK | 1 | 1 | 23.06 | 23.04 | 23.14 | 25.0 |
| Channel | | | | 502200 | 518598 | 534996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2511 | 2592.99 | 2674.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.02 | 23.02 | 23.07 | 25.0 |
| Channel | | | | 501204 | 518598 | 535998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2506.02 | 2592.99 | 2679.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.06 | 23.01 | 23.09 | 25.0 |



<FR1 n41_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 509202 | 518598 | 528000 | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | |
| 100 | PI/2 BPSK | 1 | 1 | 13.23 | 13.50 | 13.34 | 14.5 |
| 100 | PI/2 BPSK | 1 | 137 | 13.15 | 13.42 | 13.26 | |
| 100 | PI/2 BPSK | 1 | 271 | 13.12 | 13.39 | 13.23 | |
| 100 | PI/2 BPSK | 135 | 0 | 13.19 | 13.46 | 13.30 | 14.5 |
| 100 | PI/2 BPSK | 135 | 69 | 13.20 | 13.47 | 13.31 | 14.5 |
| 100 | PI/2 BPSK | 135 | 138 | 13.04 | 13.31 | 13.15 | 14.5 |
| 100 | PI/2 BPSK | 270 | 0 | 13.15 | 13.42 | 13.26 | |
| 100 | QPSK | 1 | 1 | 13.15 | 13.42 | 13.26 | |
| 100 | QPSK | 1 | 137 | 13.22 | 13.49 | 13.33 | 14.5 |
| 100 | QPSK | 1 | 271 | 13.15 | 13.42 | 13.26 | |
| 100 | QPSK | 135 | 0 | 13.21 | 13.48 | 13.32 | |
| 100 | QPSK | 135 | 69 | 13.19 | 13.46 | 13.30 | 14.5 |
| 100 | QPSK | 135 | 138 | 13.05 | 13.32 | 13.16 | |
| 100 | QPSK | 270 | 0 | 13.10 | 13.37 | 13.21 | |
| 100 | 16QAM | 1 | 1 | 13.21 | 13.48 | 13.32 | 14.5 |
| 100 | 64QAM | 1 | 1 | 13.19 | 13.46 | 13.30 | 14.5 |
| 100 | 256QAM | 1 | 1 | 12.72 | 12.99 | 12.83 | 14.0 |
| Channel | | | | 508200 | 518598 | 528996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2541 | 2592.99 | 2644.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 13.18 | 13.42 | 13.23 | 14.5 |
| Channel | | | | 507204 | 518598 | 529998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2536.02 | 2592.99 | 2649.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 13.15 | 13.39 | 13.27 | 14.5 |
| Channel | | | | 506202 | 518598 | 531000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2531.01 | 2592.99 | 2655 | |
| 70 | PI/2 BPSK | 1 | 1 | 13.12 | 13.39 | 13.23 | 14.5 |
| Channel | | | | 505200 | 518598 | 531996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2526 | 2592.99 | 2659.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 13.13 | 13.36 | 13.17 | 14.5 |
| Channel | | | | 504204 | 518598 | 532998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2521.02 | 2592.99 | 2664.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 13.15 | 13.35 | 13.23 | 14.5 |
| Channel | | | | 503202 | 518598 | 534000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2516.01 | 2592.99 | 2670 | |
| 40 | PI/2 BPSK | 1 | 1 | 13.16 | 13.42 | 13.24 | 14.5 |
| Channel | | | | 502200 | 518598 | 534996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2511 | 2592.99 | 2674.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 13.18 | 13.43 | 13.22 | 14.5 |
| Channel | | | | 501204 | 518598 | 535998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2506.02 | 2592.99 | 2679.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 13.17 | 13.35 | 13.18 | 14.5 |



<FR1 n41_Ant MIMO 2_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 509202 | 518598 | 528000 | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | |
| 100 | PI/2 BPSK | 1 | 1 | 15.52 | 15.79 | 15.76 | 16.5 |
| 100 | PI/2 BPSK | 1 | 137 | 15.45 | 15.72 | 15.69 | |
| 100 | PI/2 BPSK | 1 | 271 | 15.36 | 15.63 | 15.60 | |
| 100 | PI/2 BPSK | 135 | 0 | 15.45 | 15.72 | 15.69 | 16.5 |
| 100 | PI/2 BPSK | 135 | 69 | 15.46 | 15.73 | 15.70 | 16.5 |
| 100 | PI/2 BPSK | 135 | 138 | 15.35 | 15.62 | 15.59 | 16.5 |
| 100 | PI/2 BPSK | 270 | 0 | 15.42 | 15.69 | 15.66 | |
| 100 | QPSK | 1 | 1 | 15.51 | 15.78 | 15.75 | 16.5 |
| 100 | QPSK | 1 | 137 | 15.49 | 15.76 | 15.73 | |
| 100 | QPSK | 1 | 271 | 15.42 | 15.69 | 15.66 | |
| 100 | QPSK | 135 | 0 | 15.40 | 15.67 | 15.64 | 16.5 |
| 100 | QPSK | 135 | 69 | 15.44 | 15.71 | 15.68 | |
| 100 | QPSK | 135 | 138 | 15.33 | 15.60 | 15.57 | |
| 100 | QPSK | 270 | 0 | 15.37 | 15.64 | 15.61 | 16.5 |
| 100 | 16QAM | 1 | 1 | 15.28 | 15.55 | 15.52 | 16.5 |
| 100 | 64QAM | 1 | 1 | 15.40 | 15.67 | 15.64 | 16.5 |
| 100 | 256QAM | 1 | 1 | 15.31 | 15.58 | 15.55 | 16.5 |
| Channel | | | | 508200 | 518598 | 528996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2541 | 2592.99 | 2644.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 15.42 | 15.73 | 15.64 | 16.5 |
| Channel | | | | 507204 | 518598 | 529998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2536.02 | 2592.99 | 2649.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 15.46 | 15.69 | 15.68 | 16.5 |
| Channel | | | | 506202 | 518598 | 531000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2531.01 | 2592.99 | 2655 | |
| 70 | PI/2 BPSK | 1 | 1 | 15.44 | 15.67 | 15.63 | 16.5 |
| Channel | | | | 505200 | 518598 | 531996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2526 | 2592.99 | 2659.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 15.40 | 15.66 | 15.63 | 16.5 |
| Channel | | | | 504204 | 518598 | 532998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2521.02 | 2592.99 | 2664.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 15.41 | 15.66 | 15.63 | 16.5 |
| Channel | | | | 503202 | 518598 | 534000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2516.01 | 2592.99 | 2670 | |
| 40 | PI/2 BPSK | 1 | 1 | 15.47 | 15.64 | 15.65 | 16.5 |
| Channel | | | | 502200 | 518598 | 534996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2511 | 2592.99 | 2674.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 15.40 | 15.64 | 15.66 | 16.5 |
| Channel | | | | 501204 | 518598 | 535998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2506.02 | 2592.99 | 2679.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 15.46 | 15.70 | 15.63 | 16.5 |



<FR1 n41_Ant MIMO 1_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 509202 | 518598 | 528000 | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | |
| 100 | PI/2 BPSK | 1 | 1 | 15.08 | 15.12 | 15.11 | 16.0 |
| 100 | PI/2 BPSK | 1 | 137 | 15.06 | 15.09 | 15.08 | |
| 100 | PI/2 BPSK | 1 | 271 | 14.81 | 14.84 | 14.83 | |
| 100 | PI/2 BPSK | 135 | 0 | 15.05 | 15.08 | 15.07 | 16.0 |
| 100 | PI/2 BPSK | 135 | 69 | 15.07 | 15.10 | 15.09 | 16.0 |
| 100 | PI/2 BPSK | 135 | 138 | 14.90 | 14.93 | 14.92 | 16.0 |
| 100 | PI/2 BPSK | 270 | 0 | 14.94 | 14.97 | 14.96 | |
| 100 | QPSK | 1 | 1 | 15.05 | 15.08 | 15.07 | 16.0 |
| 100 | QPSK | 1 | 137 | 15.08 | 15.11 | 15.10 | |
| 100 | QPSK | 1 | 271 | 14.77 | 14.80 | 14.79 | |
| 100 | QPSK | 135 | 0 | 15.07 | 15.10 | 15.09 | 16.0 |
| 100 | QPSK | 135 | 69 | 15.01 | 15.04 | 15.03 | |
| 100 | QPSK | 135 | 138 | 14.92 | 14.95 | 14.94 | |
| 100 | QPSK | 270 | 0 | 14.95 | 14.98 | 14.97 | 16.0 |
| 100 | 16QAM | 1 | 1 | 15.08 | 15.11 | 15.10 | 16.0 |
| 100 | 64QAM | 1 | 1 | 15.03 | 15.06 | 15.05 | 16.0 |
| 100 | 256QAM | 1 | 1 | 14.62 | 14.65 | 14.64 | 16.0 |
| Channel | | | | 508200 | 518598 | 528996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2541 | 2592.99 | 2644.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 14.93 | 15.01 | 14.94 | 16.0 |
| Channel | | | | 507204 | 518598 | 529998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2536.02 | 2592.99 | 2649.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 14.94 | 15.01 | 15.01 | 16.0 |
| Channel | | | | 506202 | 518598 | 531000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2531.01 | 2592.99 | 2655 | |
| 70 | PI/2 BPSK | 1 | 1 | 14.98 | 15.01 | 14.99 | 16.0 |
| Channel | | | | 505200 | 518598 | 531996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2526 | 2592.99 | 2659.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 14.96 | 14.96 | 14.95 | 16.0 |
| Channel | | | | 504204 | 518598 | 532998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2521.02 | 2592.99 | 2664.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 14.94 | 15.00 | 14.99 | 16.0 |
| Channel | | | | 503202 | 518598 | 534000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2516.01 | 2592.99 | 2670 | |
| 40 | PI/2 BPSK | 1 | 1 | 14.90 | 15.00 | 14.95 | 16.0 |
| Channel | | | | 502200 | 518598 | 534996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2511 | 2592.99 | 2674.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 14.95 | 14.93 | 14.94 | 16.0 |
| Channel | | | | 501204 | 518598 | 535998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2506.02 | 2592.99 | 2679.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 14.92 | 14.93 | 14.92 | 16.0 |



<FR1 n41_Ant Aux_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 509202 | 518598 | 528000 | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | |
| 100 | PI/2 BPSK | 1 | 1 | 12.90 | 13.02 | 12.97 | 13.5 |
| 100 | PI/2 BPSK | 1 | 137 | 12.87 | 12.95 | 12.86 | |
| 100 | PI/2 BPSK | 1 | 271 | 12.88 | 12.96 | 12.87 | |
| 100 | PI/2 BPSK | 135 | 0 | 12.86 | 12.97 | 12.87 | 13.5 |
| 100 | PI/2 BPSK | 135 | 69 | 12.93 | 12.98 | 12.88 | 13.5 |
| 100 | PI/2 BPSK | 135 | 138 | 12.83 | 12.96 | 12.84 | 13.5 |
| 100 | PI/2 BPSK | 270 | 0 | 12.88 | 12.93 | 12.85 | |
| 100 | QPSK | 1 | 1 | 12.86 | 12.96 | 12.89 | 13.5 |
| 100 | QPSK | 1 | 137 | 12.83 | 12.95 | 12.87 | |
| 100 | QPSK | 1 | 271 | 12.89 | 12.97 | 12.92 | |
| 100 | QPSK | 135 | 0 | 12.83 | 12.96 | 12.90 | 13.5 |
| 100 | QPSK | 135 | 69 | 12.89 | 12.98 | 12.85 | 13.5 |
| 100 | QPSK | 135 | 138 | 12.89 | 12.95 | 12.84 | 13.5 |
| 100 | QPSK | 270 | 0 | 12.83 | 12.93 | 12.80 | |
| 100 | 16QAM | 1 | 1 | 12.87 | 12.93 | 12.82 | 13.5 |
| 100 | 64QAM | 1 | 1 | 12.83 | 12.95 | 12.86 | 13.5 |
| 100 | 256QAM | 1 | 1 | 12.90 | 12.97 | 12.89 | 13.5 |
| Channel | | | | 508200 | 518598 | 528996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2541 | 2592.99 | 2644.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 12.80 | 12.97 | 12.86 | 13.5 |
| Channel | | | | 507204 | 518598 | 529998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2536.02 | 2592.99 | 2649.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 12.81 | 12.93 | 12.90 | 13.5 |
| Channel | | | | 506202 | 518598 | 531000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2531.01 | 2592.99 | 2655 | |
| 70 | PI/2 BPSK | 1 | 1 | 12.83 | 12.96 | 12.87 | 13.5 |
| Channel | | | | 505200 | 518598 | 531996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2526 | 2592.99 | 2659.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 12.84 | 12.93 | 12.92 | 13.5 |
| Channel | | | | 504204 | 518598 | 532998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2521.02 | 2592.99 | 2664.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 12.84 | 12.95 | 12.92 | 13.5 |
| Channel | | | | 503202 | 518598 | 534000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2516.01 | 2592.99 | 2670 | |
| 40 | PI/2 BPSK | 1 | 1 | 12.84 | 12.92 | 12.88 | 13.5 |
| Channel | | | | 502200 | 518598 | 534996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2511 | 2592.99 | 2674.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 12.80 | 12.96 | 12.91 | 13.5 |
| Channel | | | | 501204 | 518598 | 535998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2506.02 | 2592.99 | 2679.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 12.80 | 12.92 | 12.87 | 13.5 |



<FR1 n41_HPUE_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 509202 | 518598 | 528000 | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | |
| 100 | PI/2 BPSK | 1 | 1 | 25.73 | 25.79 | 25.75 | 27.5 |
| 100 | PI/2 BPSK | 1 | 137 | 25.71 | 25.78 | 25.74 | |
| 100 | PI/2 BPSK | 1 | 271 | 25.70 | 25.77 | 25.72 | |
| 100 | PI/2 BPSK | 135 | 0 | 23.33 | 23.36 | 23.35 | 24.5 |
| 100 | PI/2 BPSK | 135 | 69 | 25.72 | 25.77 | 25.73 | 27.5 |
| 100 | PI/2 BPSK | 135 | 138 | 23.38 | 23.33 | 23.22 | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | 23.37 | 23.38 | 23.33 | |
| 100 | QPSK | 1 | 1 | 25.74 | 25.73 | 25.67 | 27.5 |
| 100 | QPSK | 1 | 137 | 25.74 | 25.76 | 25.68 | |
| 100 | QPSK | 1 | 271 | 25.75 | 25.77 | 25.62 | |
| 100 | QPSK | 135 | 0 | 22.81 | 22.85 | 22.86 | 24.5 |
| 100 | QPSK | 135 | 69 | 25.74 | 25.75 | 25.72 | 27.5 |
| 100 | QPSK | 135 | 138 | 22.85 | 22.82 | 22.73 | 24.5 |
| 100 | QPSK | 270 | 0 | 22.83 | 22.78 | 22.80 | 24.5 |
| 100 | 16QAM | 1 | 1 | 24.62 | 25.04 | 24.78 | 26.5 |
| 100 | 64QAM | 1 | 1 | 23.23 | 23.30 | 23.11 | 25.0 |
| 100 | 256QAM | 1 | 1 | 21.10 | 21.31 | 21.23 | 23.0 |
| Channel | | | | 508200 | 518598 | 528996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2541 | 2592.99 | 2644.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 25.63 | 25.70 | 25.70 | 27.5 |
| Channel | | | | 507204 | 518598 | 529998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2536.02 | 2592.99 | 2649.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 25.59 | 25.68 | 25.64 | 27.5 |
| Channel | | | | 506202 | 518598 | 531000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2531.01 | 2592.99 | 2655 | |
| 70 | PI/2 BPSK | 1 | 1 | 25.59 | 25.68 | 25.70 | 27.5 |
| Channel | | | | 505200 | 518598 | 531996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2526 | 2592.99 | 2659.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 25.67 | 25.67 | 25.63 | 27.5 |
| Channel | | | | 504204 | 518598 | 532998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2521.02 | 2592.99 | 2664.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 25.62 | 25.67 | 25.71 | 27.5 |
| Channel | | | | 503202 | 518598 | 534000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2516.01 | 2592.99 | 2670 | |
| 40 | PI/2 BPSK | 1 | 1 | 25.65 | 25.66 | 25.64 | 27.5 |
| Channel | | | | 502200 | 518598 | 534996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2511 | 2592.99 | 2674.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 25.69 | 25.62 | 25.67 | 27.5 |
| Channel | | | | 501204 | 518598 | 535998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2506.02 | 2592.99 | 2679.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 25.66 | 25.65 | 25.73 | 27.5 |



<FR1 n41_HPUE_Ant MIMO 2_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 509202 | 518598 | 528000 | 27.5 |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | |
| 100 | PI/2 BPSK | 1 | 1 | 26.09 | 26.15 | 26.12 | |
| 100 | PI/2 BPSK | 1 | 137 | 26.03 | 26.12 | 26.06 | 24.5 |
| 100 | PI/2 BPSK | 1 | 271 | 26.08 | 26.12 | 26.11 | |
| 100 | PI/2 BPSK | 135 | 0 | 23.68 | 23.76 | 23.70 | |
| 100 | PI/2 BPSK | 135 | 69 | 26.06 | 26.11 | 26.05 | 27.5 |
| 100 | PI/2 BPSK | 135 | 138 | 23.57 | 23.69 | 23.62 | |
| 100 | PI/2 BPSK | 270 | 0 | 23.64 | 23.70 | 23.67 | |
| 100 | QPSK | 1 | 1 | 26.03 | 26.09 | 26.01 | 24.5 |
| 100 | QPSK | 1 | 137 | 26.04 | 26.09 | 26.08 | |
| 100 | QPSK | 1 | 271 | 25.97 | 26.08 | 26.05 | |
| 100 | QPSK | 135 | 0 | 23.18 | 23.27 | 23.17 | 27.5 |
| 100 | QPSK | 135 | 69 | 26.04 | 26.14 | 26.10 | |
| 100 | QPSK | 135 | 138 | 23.11 | 23.23 | 23.21 | |
| 100 | QPSK | 270 | 0 | 23.10 | 23.17 | 23.12 | 24.5 |
| 100 | 16QAM | 1 | 1 | 25.29 | 25.33 | 25.24 | |
| 100 | 64QAM | 1 | 1 | 23.41 | 23.46 | 23.42 | |
| 100 | 256QAM | 1 | 1 | 21.52 | 21.58 | 21.48 | 25.0 |
| Channel | | | | 508200 | 518598 | 528996 | |
| Frequency (MHz) | | | | 2541 | 2592.99 | 2644.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 25.97 | 26.10 | 26.01 | 23.0 |
| Channel | | | | 507204 | 518598 | 529998 | |
| Frequency (MHz) | | | | 2536.02 | 2592.99 | 2649.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 26.05 | 26.12 | 26.09 | 27.5 |
| Channel | | | | 506202 | 518598 | 531000 | |
| Frequency (MHz) | | | | 2531.01 | 2592.99 | 2655 | |
| 70 | PI/2 BPSK | 1 | 1 | 26.05 | 26.06 | 26.03 | 27.5 |
| Channel | | | | 505200 | 518598 | 531996 | |
| Frequency (MHz) | | | | 2526 | 2592.99 | 2659.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 26.03 | 26.12 | 26.05 | 27.5 |
| Channel | | | | 504204 | 518598 | 532998 | |
| Frequency (MHz) | | | | 2521.02 | 2592.99 | 2664.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 26.00 | 26.11 | 26.08 | 27.5 |
| Channel | | | | 503202 | 518598 | 534000 | |
| Frequency (MHz) | | | | 2516.01 | 2592.99 | 2670 | |
| 40 | PI/2 BPSK | 1 | 1 | 25.97 | 26.08 | 26.00 | 27.5 |
| Channel | | | | 502200 | 518598 | 534996 | |
| Frequency (MHz) | | | | 2511 | 2592.99 | 2674.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 26.06 | 26.01 | 26.07 | 27.5 |
| Channel | | | | 501204 | 518598 | 535998 | |
| Frequency (MHz) | | | | 2506.02 | 2592.99 | 2679.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 25.99 | 26.08 | 26.09 | 27.5 |



<FR1 n41_HPUE_Ant MIMO 1_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 509202 | 518598 | 528000 | 27.5 |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | |
| 100 | PI/2 BPSK | 1 | 1 | 26.02 | 26.06 | 25.99 | |
| 100 | PI/2 BPSK | 1 | 137 | 25.98 | 26.00 | 25.98 | 24.5 |
| 100 | PI/2 BPSK | 1 | 271 | 25.87 | 25.90 | 25.88 | |
| 100 | PI/2 BPSK | 135 | 0 | 23.60 | 23.65 | 23.60 | 27.5 |
| 100 | PI/2 BPSK | 135 | 69 | 26.00 | 26.03 | 26.02 | |
| 100 | PI/2 BPSK | 135 | 138 | 23.56 | 23.57 | 23.56 | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | 23.51 | 23.54 | 23.53 | |
| 100 | QPSK | 1 | 1 | 25.97 | 25.98 | 25.95 | 27.5 |
| 100 | QPSK | 1 | 137 | 25.96 | 26.01 | 25.96 | |
| 100 | QPSK | 1 | 271 | 25.86 | 25.90 | 25.88 | |
| 100 | QPSK | 135 | 0 | 23.12 | 23.13 | 23.12 | 24.5 |
| 100 | QPSK | 135 | 69 | 25.97 | 26.00 | 25.97 | |
| 100 | QPSK | 135 | 138 | 23.01 | 23.06 | 23.02 | 24.5 |
| 100 | QPSK | 270 | 0 | 23.01 | 23.05 | 23.00 | |
| 100 | 16QAM | 1 | 1 | 25.00 | 25.04 | 25.01 | 26.5 |
| 100 | 64QAM | 1 | 1 | 23.47 | 23.52 | 23.50 | 25.0 |
| 100 | 256QAM | 1 | 1 | 21.26 | 21.28 | 21.23 | 23.0 |
| Channel | | | | 508200 | 518598 | 528996 | 27.5 |
| Frequency (MHz) | | | | 2541 | 2592.99 | 2644.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 25.78 | 25.89 | 25.80 | |
| Channel | | | | 507204 | 518598 | 529998 | 27.5 |
| Frequency (MHz) | | | | 2536.02 | 2592.99 | 2649.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 25.85 | 25.89 | 25.77 | |
| Channel | | | | 506202 | 518598 | 531000 | 27.5 |
| Frequency (MHz) | | | | 2531.01 | 2592.99 | 2655 | |
| 70 | PI/2 BPSK | 1 | 1 | 25.79 | 25.87 | 25.81 | |
| Channel | | | | 505200 | 518598 | 531996 | 27.5 |
| Frequency (MHz) | | | | 2526 | 2592.99 | 2659.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 25.83 | 25.86 | 25.76 | |
| Channel | | | | 504204 | 518598 | 532998 | 27.5 |
| Frequency (MHz) | | | | 2521.02 | 2592.99 | 2664.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 25.80 | 25.81 | 25.77 | |
| Channel | | | | 503202 | 518598 | 534000 | 27.5 |
| Frequency (MHz) | | | | 2516.01 | 2592.99 | 2670 | |
| 40 | PI/2 BPSK | 1 | 1 | 25.79 | 25.88 | 25.77 | |
| Channel | | | | 502200 | 518598 | 534996 | 27.5 |
| Frequency (MHz) | | | | 2511 | 2592.99 | 2674.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 25.82 | 25.87 | 25.84 | |
| Channel | | | | 501204 | 518598 | 535998 | 27.5 |
| Frequency (MHz) | | | | 2506.02 | 2592.99 | 2679.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 25.82 | 25.80 | 25.81 | |



<FR1 n41_HPUE_Ant Aux_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 509202 | 518598 | 528000 | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | |
| 100 | PI/2 BPSK | 1 | 1 | 25.64 | 25.69 | 25.63 | 27.5 |
| 100 | PI/2 BPSK | 1 | 137 | 25.60 | 25.66 | 25.62 | |
| 100 | PI/2 BPSK | 1 | 271 | 25.61 | 25.68 | 25.60 | |
| 100 | PI/2 BPSK | 135 | 0 | 23.20 | 23.23 | 23.22 | 24.5 |
| 100 | PI/2 BPSK | 135 | 69 | 25.58 | 25.68 | 25.59 | 27.5 |
| 100 | PI/2 BPSK | 135 | 138 | 23.15 | 23.21 | 23.18 | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | 23.19 | 23.23 | 23.20 | |
| 100 | QPSK | 1 | 1 | 25.57 | 25.56 | 25.53 | 27.5 |
| 100 | QPSK | 1 | 137 | 25.54 | 25.61 | 25.53 | |
| 100 | QPSK | 1 | 271 | 25.55 | 25.58 | 25.55 | |
| 100 | QPSK | 135 | 0 | 22.68 | 22.77 | 22.68 | 24.5 |
| 100 | QPSK | 135 | 69 | 25.61 | 25.68 | 25.59 | 27.5 |
| 100 | QPSK | 135 | 138 | 22.67 | 22.75 | 22.74 | 24.5 |
| 100 | QPSK | 270 | 0 | 22.73 | 22.74 | 22.70 | 24.5 |
| 100 | 16QAM | 1 | 1 | 24.59 | 24.51 | 24.55 | 26.5 |
| 100 | 64QAM | 1 | 1 | 23.14 | 23.16 | 23.15 | 25.0 |
| 100 | 256QAM | 1 | 1 | 21.07 | 21.13 | 21.04 | 23.0 |
| Channel | | | | 508200 | 518598 | 528996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2541 | 2592.99 | 2644.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 25.56 | 25.56 | 25.60 | 27.5 |
| Channel | | | | 507204 | 518598 | 529998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2536.02 | 2592.99 | 2649.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 25.55 | 25.61 | 25.53 | 27.5 |
| Channel | | | | 506202 | 518598 | 531000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2531.01 | 2592.99 | 2655 | |
| 70 | PI/2 BPSK | 1 | 1 | 25.59 | 25.55 | 25.61 | 27.5 |
| Channel | | | | 505200 | 518598 | 531996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2526 | 2592.99 | 2659.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 25.55 | 25.55 | 25.54 | 27.5 |
| Channel | | | | 504204 | 518598 | 532998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2521.02 | 2592.99 | 2664.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 25.57 | 25.62 | 25.59 | 27.5 |
| Channel | | | | 503202 | 518598 | 534000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2516.01 | 2592.99 | 2670 | |
| 40 | PI/2 BPSK | 1 | 1 | 25.59 | 25.61 | 25.57 | 27.5 |
| Channel | | | | 502200 | 518598 | 534996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2511 | 2592.99 | 2674.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 25.54 | 25.59 | 25.55 | 27.5 |
| Channel | | | | 501204 | 518598 | 535998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2506.02 | 2592.99 | 2679.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 25.56 | 25.58 | 25.53 | 27.5 |



<FR1 n41_HPUE_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 509202 | 518598 | 528000 | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | |
| 100 | PI/2 BPSK | 1 | 1 | 16.35 | 16.55 | 16.46 | 17.5 |
| 100 | PI/2 BPSK | 1 | 137 | 16.28 | 16.48 | 16.39 | |
| 100 | PI/2 BPSK | 1 | 271 | 16.24 | 16.44 | 16.35 | |
| 100 | PI/2 BPSK | 135 | 0 | 16.24 | 16.44 | 16.35 | 17.5 |
| 100 | PI/2 BPSK | 135 | 69 | 16.27 | 16.47 | 16.38 | 17.5 |
| 100 | PI/2 BPSK | 135 | 138 | 16.11 | 16.31 | 16.22 | 17.5 |
| 100 | PI/2 BPSK | 270 | 0 | 16.22 | 16.42 | 16.33 | |
| 100 | QPSK | 1 | 1 | 16.34 | 16.54 | 16.45 | 17.5 |
| 100 | QPSK | 1 | 137 | 16.31 | 16.51 | 16.42 | |
| 100 | QPSK | 1 | 271 | 16.25 | 16.45 | 16.36 | |
| 100 | QPSK | 135 | 0 | 16.25 | 16.45 | 16.36 | 17.5 |
| 100 | QPSK | 135 | 69 | 16.24 | 16.44 | 16.35 | 17.5 |
| 100 | QPSK | 135 | 138 | 16.12 | 16.32 | 16.23 | 17.5 |
| 100 | QPSK | 270 | 0 | 16.20 | 16.40 | 16.31 | 17.5 |
| 100 | 16QAM | 1 | 1 | 16.10 | 16.30 | 16.21 | 17.5 |
| 100 | 64QAM | 1 | 1 | 16.25 | 16.45 | 16.36 | 17.5 |
| 100 | 256QAM | 1 | 1 | 15.93 | 16.13 | 16.04 | 17.0 |
| Channel | | | | 508200 | 518598 | 528996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2541 | 2592.99 | 2644.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 16.32 | 16.44 | 16.37 | 17.5 |
| Channel | | | | 507204 | 518598 | 529998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2536.02 | 2592.99 | 2649.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 16.26 | 16.40 | 16.34 | 17.5 |
| Channel | | | | 506202 | 518598 | 531000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2531.01 | 2592.99 | 2655 | |
| 70 | PI/2 BPSK | 1 | 1 | 16.25 | 16.48 | 16.36 | 17.5 |
| Channel | | | | 505200 | 518598 | 531996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2526 | 2592.99 | 2659.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 16.26 | 16.47 | 16.37 | 17.5 |
| Channel | | | | 504204 | 518598 | 532998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2521.02 | 2592.99 | 2664.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 16.31 | 16.49 | 16.32 | 17.5 |
| Channel | | | | 503202 | 518598 | 534000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2516.01 | 2592.99 | 2670 | |
| 40 | PI/2 BPSK | 1 | 1 | 16.29 | 16.43 | 16.38 | 17.5 |
| Channel | | | | 502200 | 518598 | 534996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2511 | 2592.99 | 2674.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 16.25 | 16.44 | 16.36 | 17.5 |
| Channel | | | | 501204 | 518598 | 535998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2506.02 | 2592.99 | 2679.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 16.27 | 16.48 | 16.32 | 17.5 |



<FR1 n41_HPUE_Ant MIMO 2_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 509202 | 518598 | 528000 | |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | |
| 100 | PI/2 BPSK | 1 | 1 | 18.46 | 18.75 | 18.70 | 19.5 |
| 100 | PI/2 BPSK | 1 | 137 | 18.36 | 18.65 | 18.60 | |
| 100 | PI/2 BPSK | 1 | 271 | 18.31 | 18.60 | 18.55 | |
| 100 | PI/2 BPSK | 135 | 0 | 18.36 | 18.65 | 18.60 | 19.5 |
| 100 | PI/2 BPSK | 135 | 69 | 18.37 | 18.66 | 18.61 | 19.5 |
| 100 | PI/2 BPSK | 135 | 138 | 18.27 | 18.56 | 18.51 | 19.5 |
| 100 | PI/2 BPSK | 270 | 0 | 18.33 | 18.62 | 18.57 | |
| 100 | QPSK | 1 | 1 | 18.43 | 18.72 | 18.67 | 19.5 |
| 100 | QPSK | 1 | 137 | 18.42 | 18.71 | 18.66 | |
| 100 | QPSK | 1 | 271 | 18.40 | 18.69 | 18.64 | |
| 100 | QPSK | 135 | 0 | 18.39 | 18.68 | 18.63 | 19.5 |
| 100 | QPSK | 135 | 69 | 18.38 | 18.67 | 18.62 | 19.5 |
| 100 | QPSK | 135 | 138 | 18.29 | 18.58 | 18.53 | 19.5 |
| 100 | QPSK | 270 | 0 | 18.33 | 18.62 | 18.57 | 19.5 |
| 100 | 16QAM | 1 | 1 | 18.44 | 18.73 | 18.68 | 19.5 |
| 100 | 64QAM | 1 | 1 | 18.45 | 18.74 | 18.69 | 19.0 |
| 100 | 256QAM | 1 | 1 | 17.90 | 18.19 | 18.14 | 19.0 |
| Channel | | | | 508200 | 518598 | 528996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2541 | 2592.99 | 2644.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 18.31 | 18.68 | 18.63 | 19.5 |
| Channel | | | | 507204 | 518598 | 529998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2536.02 | 2592.99 | 2649.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 18.37 | 18.67 | 18.62 | 19.5 |
| Channel | | | | 506202 | 518598 | 531000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2531.01 | 2592.99 | 2655 | |
| 70 | PI/2 BPSK | 1 | 1 | 18.31 | 18.66 | 18.54 | 19.5 |
| Channel | | | | 505200 | 518598 | 531996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2526 | 2592.99 | 2659.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 18.40 | 18.69 | 18.62 | 19.5 |
| Channel | | | | 504204 | 518598 | 532998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2521.02 | 2592.99 | 2664.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 18.38 | 18.60 | 18.61 | 19.5 |
| Channel | | | | 503202 | 518598 | 534000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2516.01 | 2592.99 | 2670 | |
| 40 | PI/2 BPSK | 1 | 1 | 18.29 | 18.57 | 18.55 | 19.5 |
| Channel | | | | 502200 | 518598 | 534996 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2511 | 2592.99 | 2674.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 18.38 | 18.67 | 18.52 | 19.5 |
| Channel | | | | 501204 | 518598 | 535998 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 2506.02 | 2592.99 | 2679.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 18.39 | 18.63 | 18.62 | 19.5 |



<FR1 n41_HPUE_Ant MIMO 1_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 509202 | 518598 | 528000 | 19.0 |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | |
| 100 | PI/2 BPSK | 1 | 1 | 18.15 | 18.16 | 18.12 | |
| 100 | PI/2 BPSK | 1 | 137 | 18.13 | 18.14 | 18.10 | 19.0 |
| 100 | PI/2 BPSK | 1 | 271 | 17.81 | 17.82 | 17.78 | |
| 100 | PI/2 BPSK | 135 | 0 | 18.06 | 18.07 | 18.03 | 19.0 |
| 100 | PI/2 BPSK | 135 | 69 | 18.07 | 18.08 | 18.04 | 19.0 |
| 100 | PI/2 BPSK | 135 | 138 | 17.92 | 17.93 | 17.89 | 19.0 |
| 100 | PI/2 BPSK | 270 | 0 | 17.97 | 17.98 | 17.94 | |
| 100 | QPSK | 1 | 1 | 18.12 | 18.13 | 18.09 | 19.0 |
| 100 | QPSK | 1 | 137 | 18.10 | 18.11 | 18.07 | |
| 100 | QPSK | 1 | 271 | 17.77 | 17.78 | 17.74 | |
| 100 | QPSK | 135 | 0 | 18.12 | 18.13 | 18.09 | 19.0 |
| 100 | QPSK | 135 | 69 | 18.05 | 18.06 | 18.02 | 19.0 |
| 100 | QPSK | 135 | 138 | 17.90 | 17.91 | 17.87 | 19.0 |
| 100 | QPSK | 270 | 0 | 18.01 | 18.02 | 17.98 | |
| 100 | 16QAM | 1 | 1 | 18.13 | 18.14 | 18.10 | 19.0 |
| 100 | 64QAM | 1 | 1 | 18.14 | 18.15 | 18.11 | 19.0 |
| 100 | 256QAM | 1 | 1 | 17.70 | 17.71 | 17.67 | 18.5 |
| Channel | | | | 508200 | 518598 | 528996 | 19.0 |
| Frequency (MHz) | | | | 2541 | 2592.99 | 2644.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 18.01 | 18.05 | 17.99 | 19.0 |
| Channel | | | | 507204 | 518598 | 529998 | 19.0 |
| Frequency (MHz) | | | | 2536.02 | 2592.99 | 2649.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 17.99 | 17.96 | 17.94 | 19.0 |
| Channel | | | | 506202 | 518598 | 531000 | 19.0 |
| Frequency (MHz) | | | | 2531.01 | 2592.99 | 2655 | |
| 70 | PI/2 BPSK | 1 | 1 | 17.98 | 17.96 | 17.92 | 19.0 |
| Channel | | | | 505200 | 518598 | 531996 | 19.0 |
| Frequency (MHz) | | | | 2526 | 2592.99 | 2659.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 17.99 | 18.01 | 17.92 | 19.0 |
| Channel | | | | 504204 | 518598 | 532998 | 19.0 |
| Frequency (MHz) | | | | 2521.02 | 2592.99 | 2664.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 17.98 | 18.06 | 18.02 | 19.0 |
| Channel | | | | 503202 | 518598 | 534000 | 19.0 |
| Frequency (MHz) | | | | 2516.01 | 2592.99 | 2670 | |
| 40 | PI/2 BPSK | 1 | 1 | 18.04 | 18.04 | 17.96 | 19.0 |
| Channel | | | | 502200 | 518598 | 534996 | 19.0 |
| Frequency (MHz) | | | | 2511 | 2592.99 | 2674.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 18.04 | 18.03 | 17.99 | 19.0 |
| Channel | | | | 501204 | 518598 | 535998 | 19.0 |
| Frequency (MHz) | | | | 2506.02 | 2592.99 | 2679.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 17.95 | 17.99 | 18.02 | 19.0 |



<FR1 n41_HPUE_Ant Aux_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 509202 | 518598 | 528000 | 16.5 |
| Frequency (MHz) | | | | 2546.01 | 2592.99 | 2640 | |
| 100 | PI/2 BPSK | 1 | 1 | 15.96 | 16.05 | 15.98 | |
| 100 | PI/2 BPSK | 1 | 137 | 15.89 | 15.96 | 15.91 | 16.5 |
| 100 | PI/2 BPSK | 1 | 271 | 15.92 | 15.97 | 15.90 | |
| 100 | PI/2 BPSK | 135 | 0 | 15.87 | 15.96 | 15.92 | |
| 100 | PI/2 BPSK | 135 | 69 | 15.95 | 16.00 | 15.93 | 16.5 |
| 100 | PI/2 BPSK | 135 | 138 | 15.89 | 15.96 | 15.92 | |
| 100 | PI/2 BPSK | 270 | 0 | 15.91 | 15.99 | 15.96 | |
| 100 | QPSK | 1 | 1 | 15.92 | 15.97 | 15.92 | 16.5 |
| 100 | QPSK | 1 | 137 | 15.92 | 15.98 | 15.93 | |
| 100 | QPSK | 1 | 271 | 15.92 | 16.00 | 15.91 | |
| 100 | QPSK | 135 | 0 | 15.92 | 16.00 | 15.91 | 16.0 |
| 100 | QPSK | 135 | 69 | 15.87 | 15.96 | 15.91 | 16.5 |
| 100 | QPSK | 135 | 138 | 15.89 | 15.97 | 15.91 | 16.5 |
| 100 | QPSK | 270 | 0 | 15.93 | 15.99 | 15.95 | 16.5 |
| 100 | 16QAM | 1 | 1 | 15.91 | 15.97 | 15.93 | 16.5 |
| 100 | 64QAM | 1 | 1 | 15.93 | 15.98 | 15.94 | 16.5 |
| 100 | 256QAM | 1 | 1 | 15.92 | 15.96 | 15.92 | 16.5 |
| Channel | | | | 508200 | 518598 | 528996 | 16.5 |
| Frequency (MHz) | | | | 2541 | 2592.99 | 2644.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 15.86 | 15.94 | 15.90 | |
| Channel | | | | 507204 | 518598 | 529998 | 16.5 |
| Frequency (MHz) | | | | 2536.02 | 2592.99 | 2649.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 15.86 | 15.99 | 15.87 | |
| Channel | | | | 506202 | 518598 | 531000 | 16.5 |
| Frequency (MHz) | | | | 2531.01 | 2592.99 | 2655 | |
| 70 | PI/2 BPSK | 1 | 1 | 15.91 | 15.98 | 15.93 | |
| Channel | | | | 505200 | 518598 | 531996 | 16.5 |
| Frequency (MHz) | | | | 2526 | 2592.99 | 2659.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 15.88 | 15.98 | 15.88 | |
| Channel | | | | 504204 | 518598 | 532998 | 16.5 |
| Frequency (MHz) | | | | 2521.02 | 2592.99 | 2664.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 15.86 | 15.96 | 15.91 | |
| Channel | | | | 503202 | 518598 | 534000 | 16.5 |
| Frequency (MHz) | | | | 2516.01 | 2592.99 | 2670 | |
| 40 | PI/2 BPSK | 1 | 1 | 15.85 | 15.98 | 15.90 | |
| Channel | | | | 502200 | 518598 | 534996 | 16.5 |
| Frequency (MHz) | | | | 2511 | 2592.99 | 2674.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 15.88 | 15.96 | 15.89 | |
| Channel | | | | 501204 | 518598 | 535998 | 16.5 |
| Frequency (MHz) | | | | 2506.02 | 2592.99 | 2679.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 15.89 | 15.96 | 15.91 | |



<FR1 n48_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 638000 | 641666 | 645332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3570 | 3624.99 | 3679.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 21.19 | 21.21 | 20.86 | 22.0 |
| 40 | PI/2 BPSK | 1 | 53 | 21.17 | 21.18 | 20.67 | |
| 40 | PI/2 BPSK | 1 | 104 | 21.14 | 21.11 | 20.56 | |
| 40 | PI/2 BPSK | 50 | 0 | 21.11 | 21.15 | 20.70 | 21.5 |
| 40 | PI/2 BPSK | 50 | 28 | 21.15 | 21.17 | 20.80 | 22.0 |
| 40 | PI/2 BPSK | 50 | 56 | 21.13 | 21.03 | 20.64 | 21.5 |
| 40 | PI/2 BPSK | 100 | 0 | 21.16 | 21.17 | 20.71 | |
| 40 | QPSK | 1 | 1 | 21.12 | 21.20 | 20.80 | 22.0 |
| 40 | QPSK | 1 | 53 | 21.10 | 21.18 | 20.66 | |
| 40 | QPSK | 1 | 104 | 21.16 | 21.09 | 20.56 | |
| 40 | QPSK | 50 | 0 | 21.09 | 21.15 | 20.79 | 22.0 |
| 40 | QPSK | 50 | 28 | 21.13 | 21.14 | 20.73 | |
| 40 | QPSK | 50 | 56 | 21.13 | 20.99 | 20.55 | |
| 40 | QPSK | 100 | 0 | 20.92 | 20.95 | 20.73 | 21.0 |
| 40 | 16QAM | 1 | 1 | 20.94 | 21.00 | 20.96 | 21.0 |
| 40 | 64QAM | 1 | 1 | 19.46 | 19.49 | 19.43 | 19.5 |
| 40 | 256QAM | 1 | 1 | 17.48 | 17.48 | 17.21 | 17.5 |
| Channel | | | | 637668 | 641666 | 645666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3565.02 | 3624.99 | 3684.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 21.11 | 21.15 | 20.78 | 22.0 |
| Channel | | | | 637334 | 641666 | 646000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3560.01 | 3624.99 | 3690 | |
| 20 | PI/2 BPSK | 1 | 1 | 21.08 | 21.19 | 20.84 | 22.0 |
| Channel | | | | 637000 | 641666 | 646332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3555 | 3624.99 | 3694.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 21.13 | 21.12 | 20.86 | 22.0 |



<FR1 n48_Ant MIMO 2_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 638000 | 641666 | 645332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3570 | 3624.99 | 3679.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 20.48 | 20.61 | 20.43 | 22.0 |
| 40 | PI/2 BPSK | 1 | 53 | 20.42 | 20.59 | 20.37 | |
| 40 | PI/2 BPSK | 1 | 104 | 20.46 | 20.60 | 20.39 | |
| 40 | PI/2 BPSK | 50 | 0 | 19.92 | 20.03 | 19.87 | 21.5 |
| 40 | PI/2 BPSK | 50 | 28 | 20.38 | 20.48 | 20.27 | 22.0 |
| 40 | PI/2 BPSK | 50 | 56 | 19.83 | 19.95 | 19.80 | 21.5 |
| 40 | PI/2 BPSK | 100 | 0 | 19.80 | 19.92 | 19.73 | |
| 40 | QPSK | 1 | 1 | 20.45 | 20.50 | 20.32 | 21.0 |
| 40 | QPSK | 1 | 53 | 20.47 | 20.56 | 20.41 | |
| 40 | QPSK | 1 | 104 | 20.51 | 20.59 | 20.39 | |
| 40 | QPSK | 50 | 0 | 19.46 | 19.53 | 19.37 | 21.0 |
| 40 | QPSK | 50 | 28 | 20.32 | 20.42 | 20.23 | |
| 40 | QPSK | 50 | 56 | 19.35 | 19.42 | 19.23 | |
| 40 | QPSK | 100 | 0 | 19.38 | 19.45 | 19.25 | 21.0 |
| 40 | 16QAM | 1 | 1 | 19.64 | 19.76 | 19.55 | 21.0 |
| 40 | 64QAM | 1 | 1 | 17.84 | 17.91 | 17.69 | 19.5 |
| 40 | 256QAM | 1 | 1 | 15.94 | 15.99 | 15.82 | 17.5 |
| Channel | | | | 637668 | 641666 | 645666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3565.02 | 3624.99 | 3684.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 20.41 | 20.55 | 20.32 | 22.0 |
| Channel | | | | 637334 | 641666 | 646000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3560.01 | 3624.99 | 3690 | |
| 20 | PI/2 BPSK | 1 | 1 | 20.38 | 20.57 | 20.33 | 22.0 |
| Channel | | | | 637000 | 641666 | 646332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3555 | 3624.99 | 3694.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 20.35 | 20.56 | 20.38 | 22.0 |



<FR1 n48_Ant MIMO 1_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 638000 | 641666 | 645332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3570 | 3624.99 | 3679.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 20.97 | 20.98 | 20.97 | 22.0 |
| 40 | PI/2 BPSK | 1 | 53 | 20.74 | 20.78 | 20.77 | |
| 40 | PI/2 BPSK | 1 | 104 | 20.80 | 20.82 | 20.81 | |
| 40 | PI/2 BPSK | 50 | 0 | 20.80 | 20.83 | 20.80 | 21.5 |
| 40 | PI/2 BPSK | 50 | 28 | 20.82 | 20.84 | 20.81 | 22.0 |
| 40 | PI/2 BPSK | 50 | 56 | 20.80 | 20.81 | 20.76 | 21.5 |
| 40 | PI/2 BPSK | 100 | 0 | 20.79 | 20.82 | 20.80 | |
| 40 | QPSK | 1 | 1 | 20.95 | 20.97 | 20.94 | 22.0 |
| 40 | QPSK | 1 | 53 | 20.76 | 20.80 | 20.75 | |
| 40 | QPSK | 1 | 104 | 20.76 | 20.79 | 20.76 | |
| 40 | QPSK | 50 | 0 | 20.80 | 20.83 | 20.79 | 22.0 |
| 40 | QPSK | 50 | 28 | 20.78 | 20.81 | 20.77 | |
| 40 | QPSK | 50 | 56 | 20.75 | 20.80 | 20.75 | |
| 40 | QPSK | 100 | 0 | 20.78 | 20.81 | 20.77 | 21.0 |
| 40 | 16QAM | 1 | 1 | 20.93 | 20.95 | 20.94 | 21.0 |
| 40 | 64QAM | 1 | 1 | 20.42 | 20.44 | 20.42 | 20.5 |
| 40 | 256QAM | 1 | 1 | 18.28 | 18.31 | 18.28 | 18.5 |
| Channel | | | | 637668 | 641666 | 645666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3565.02 | 3624.99 | 3684.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 20.79 | 20.79 | 20.78 | 22.0 |
| Channel | | | | 637334 | 641666 | 646000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3560.01 | 3624.99 | 3690 | |
| 20 | PI/2 BPSK | 1 | 1 | 20.83 | 20.88 | 20.87 | 22.0 |
| Channel | | | | 637000 | 641666 | 646332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3555 | 3624.99 | 3694.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 20.81 | 20.87 | 20.80 | 22.0 |



<FR1 n48_Ant Aux_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 638000 | 641666 | 645332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3570 | 3624.99 | 3679.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 21.00 | 21.14 | 21.08 | 22.0 |
| 40 | PI/2 BPSK | 1 | 53 | 20.90 | 21.12 | 21.03 | |
| 40 | PI/2 BPSK | 1 | 104 | 20.95 | 21.13 | 21.05 | |
| 40 | PI/2 BPSK | 50 | 0 | 20.44 | 20.60 | 20.58 | 21.5 |
| 40 | PI/2 BPSK | 50 | 28 | 20.93 | 21.08 | 21.04 | 22.0 |
| 40 | PI/2 BPSK | 50 | 56 | 20.40 | 20.57 | 20.54 | 21.5 |
| 40 | PI/2 BPSK | 100 | 0 | 20.38 | 20.60 | 20.53 | |
| 40 | QPSK | 1 | 1 | 20.85 | 20.91 | 20.90 | 22.0 |
| 40 | QPSK | 1 | 53 | 20.78 | 20.94 | 20.84 | |
| 40 | QPSK | 1 | 104 | 20.86 | 21.00 | 20.96 | |
| 40 | QPSK | 50 | 0 | 19.94 | 20.10 | 20.05 | 21.0 |
| 40 | QPSK | 50 | 28 | 20.77 | 20.95 | 20.85 | 22.0 |
| 40 | QPSK | 50 | 56 | 19.88 | 20.04 | 19.95 | 21.0 |
| 40 | QPSK | 100 | 0 | 19.97 | 20.06 | 20.02 | |
| 40 | 16QAM | 1 | 1 | 19.99 | 20.15 | 20.08 | 21.0 |
| 40 | 64QAM | 1 | 1 | 18.74 | 18.91 | 18.85 | 19.5 |
| 40 | 256QAM | 1 | 1 | 16.44 | 16.61 | 16.55 | 17.5 |
| Channel | | | | 637668 | 641666 | 645666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3565.02 | 3624.99 | 3684.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 20.87 | 20.97 | 21.02 | 22.0 |
| Channel | | | | 637334 | 641666 | 646000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3560.01 | 3624.99 | 3690 | |
| 20 | PI/2 BPSK | 1 | 1 | 20.84 | 20.97 | 20.99 | 22.0 |
| Channel | | | | 637000 | 641666 | 646332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3555 | 3624.99 | 3694.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 20.86 | 21.02 | 20.98 | 22.0 |



<FR1 n48_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 638000 | 641666 | 645332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3570 | 3624.99 | 3679.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 14.91 | 15.02 | 14.95 | 15.5 |
| 40 | PI/2 BPSK | 1 | 53 | 14.88 | 14.99 | 14.92 | |
| 40 | PI/2 BPSK | 1 | 104 | 14.87 | 14.98 | 14.91 | |
| 40 | PI/2 BPSK | 50 | 0 | 14.85 | 14.96 | 14.89 | 15.5 |
| 40 | PI/2 BPSK | 50 | 28 | 14.87 | 14.98 | 14.91 | 15.5 |
| 40 | PI/2 BPSK | 50 | 56 | 14.83 | 14.94 | 14.87 | 15.5 |
| 40 | PI/2 BPSK | 100 | 0 | 14.85 | 14.96 | 14.89 | |
| 40 | QPSK | 1 | 1 | 14.89 | 15.00 | 14.93 | 15.5 |
| 40 | QPSK | 1 | 53 | 14.88 | 14.99 | 14.92 | |
| 40 | QPSK | 1 | 104 | 14.87 | 14.98 | 14.91 | |
| 40 | QPSK | 50 | 0 | 14.85 | 14.96 | 14.89 | 15.5 |
| 40 | QPSK | 50 | 28 | 14.84 | 14.95 | 14.88 | |
| 40 | QPSK | 50 | 56 | 14.82 | 14.93 | 14.86 | |
| 40 | QPSK | 100 | 0 | 14.82 | 14.93 | 14.86 | 15.5 |
| 40 | 16QAM | 1 | 1 | 14.65 | 14.76 | 14.69 | 15.5 |
| 40 | 64QAM | 1 | 1 | 14.90 | 15.01 | 14.94 | 15.5 |
| 40 | 256QAM | 1 | 1 | 14.51 | 14.62 | 14.55 | 15.0 |
| Channel | | | | 637668 | 641666 | 645666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3565.02 | 3624.99 | 3684.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 14.85 | 14.95 | 14.89 | 15.5 |
| Channel | | | | 637334 | 641666 | 646000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3560.01 | 3624.99 | 3690 | |
| 20 | PI/2 BPSK | 1 | 1 | 14.79 | 14.97 | 14.86 | 15.5 |
| Channel | | | | 637000 | 641666 | 646332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3555 | 3624.99 | 3694.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 14.80 | 14.90 | 14.88 | 15.5 |



<FR1 n48_Ant MIMO 2_Sensor ON>

| Channel | BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 638000 | 641666 | 645332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | | 3570 | 3624.99 | 3679.98 | |
| 40 | PI/2 BPSK | 1 | 1 | | 13.45 | 13.47 | 13.42 | 14.5 |
| 40 | PI/2 BPSK | 1 | 53 | | 13.31 | 13.38 | 13.29 | |
| 40 | PI/2 BPSK | 1 | 104 | | 13.31 | 13.40 | 13.32 | |
| 40 | PI/2 BPSK | 50 | 0 | | 13.33 | 13.40 | 13.31 | 14.5 |
| 40 | PI/2 BPSK | 50 | 28 | | 13.36 | 13.45 | 13.36 | 14.5 |
| 40 | PI/2 BPSK | 50 | 56 | | 13.32 | 13.42 | 13.32 | 14.5 |
| 40 | PI/2 BPSK | 100 | 0 | | 13.35 | 13.41 | 13.32 | |
| 40 | QPSK | 1 | 1 | | 13.29 | 13.39 | 13.31 | 14.5 |
| 40 | QPSK | 1 | 53 | | 13.30 | 13.40 | 13.34 | |
| 40 | QPSK | 1 | 104 | | 13.33 | 13.42 | 13.37 | |
| 40 | QPSK | 50 | 0 | | 13.31 | 13.38 | 13.30 | 14.5 |
| 40 | QPSK | 50 | 28 | | 13.35 | 13.40 | 13.31 | |
| 40 | QPSK | 50 | 56 | | 13.37 | 13.42 | 13.34 | |
| 40 | QPSK | 100 | 0 | | 13.36 | 13.42 | 13.35 | 14.5 |
| 40 | 16QAM | 1 | 1 | | 13.33 | 13.42 | 13.37 | 14.5 |
| 40 | 64QAM | 1 | 1 | | 13.34 | 13.42 | 13.36 | 12.0 |
| 40 | 256QAM | 1 | 1 | | 13.28 | 13.38 | 13.28 | 14.5 |
| Channel | | | | | 637668 | 641666 | 645666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | | 3565.02 | 3624.99 | 3684.99 | |
| 30 | PI/2 BPSK | 1 | 1 | | 13.21 | 13.31 | 13.24 | 14.5 |
| Channel | | | | | 637334 | 641666 | 646000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | | 3560.01 | 3624.99 | 3690 | |
| 20 | PI/2 BPSK | 1 | 1 | | 13.28 | 13.33 | 13.23 | 14.5 |
| Channel | | | | | 637000 | 641666 | 646332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | | 3555 | 3624.99 | 3694.98 | |
| 10 | PI/2 BPSK | 1 | 1 | | 13.26 | 13.33 | 13.29 | 14.5 |



<FR1 n48_Ant MIMO 1_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 638000 | 641666 | 645332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3570 | 3624.99 | 3679.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 8.55 | 8.58 | 8.52 | 9.5 |
| 40 | PI/2 BPSK | 1 | 53 | 8.46 | 8.54 | 8.47 | |
| 40 | PI/2 BPSK | 1 | 104 | 8.48 | 8.52 | 8.44 | |
| 40 | PI/2 BPSK | 50 | 0 | 8.43 | 8.50 | 8.42 | 9.5 |
| 40 | PI/2 BPSK | 50 | 28 | 8.44 | 8.52 | 8.49 | 9.5 |
| 40 | PI/2 BPSK | 50 | 56 | 8.45 | 8.51 | 8.48 | 9.5 |
| 40 | PI/2 BPSK | 100 | 0 | 8.42 | 8.49 | 8.43 | |
| 40 | QPSK | 1 | 1 | 8.43 | 8.49 | 8.44 | 9.5 |
| 40 | QPSK | 1 | 53 | 8.41 | 8.49 | 8.45 | |
| 40 | QPSK | 1 | 104 | 8.47 | 8.53 | 8.45 | |
| 40 | QPSK | 50 | 0 | 8.46 | 8.52 | 8.49 | 9.5 |
| 40 | QPSK | 50 | 28 | 8.46 | 8.51 | 8.47 | |
| 40 | QPSK | 50 | 56 | 8.45 | 8.51 | 8.48 | |
| 40 | QPSK | 100 | 0 | 8.44 | 8.52 | 8.49 | 9.5 |
| 40 | 16QAM | 1 | 1 | 8.49 | 8.54 | 8.48 | 9.5 |
| 40 | 64QAM | 1 | 1 | 8.42 | 8.50 | 8.46 | 9.5 |
| 40 | 256QAM | 1 | 1 | 8.45 | 8.51 | 8.43 | 9.5 |
| Channel | | | | 637668 | 641666 | 645666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3565.02 | 3624.99 | 3684.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 8.50 | 8.49 | 8.46 | 9.5 |
| Channel | | | | 637334 | 641666 | 646000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3560.01 | 3624.99 | 3690 | |
| 20 | PI/2 BPSK | 1 | 1 | 8.47 | 8.51 | 8.41 | 9.5 |
| Channel | | | | 637000 | 641666 | 646332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3555 | 3624.99 | 3694.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 8.44 | 8.51 | 8.41 | 9.5 |



<FR1 n48_Ant Aux_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 638000 | 641666 | 645332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3570 | 3624.99 | 3679.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 17.85 | 17.95 | 17.86 | 18.5 |
| 40 | PI/2 BPSK | 1 | 53 | 17.80 | 17.91 | 17.80 | |
| 40 | PI/2 BPSK | 1 | 104 | 17.79 | 17.88 | 17.81 | |
| 40 | PI/2 BPSK | 50 | 0 | 17.84 | 17.91 | 17.80 | 18.5 |
| 40 | PI/2 BPSK | 50 | 28 | 17.77 | 17.92 | 17.75 | 18.5 |
| 40 | PI/2 BPSK | 50 | 56 | 17.83 | 17.89 | 17.81 | 18.5 |
| 40 | PI/2 BPSK | 100 | 0 | 17.82 | 17.91 | 17.82 | |
| 40 | QPSK | 1 | 1 | 17.82 | 17.90 | 17.83 | 18.5 |
| 40 | QPSK | 1 | 53 | 17.79 | 17.87 | 17.79 | |
| 40 | QPSK | 1 | 104 | 17.84 | 17.91 | 17.81 | |
| 40 | QPSK | 50 | 0 | 17.83 | 17.89 | 17.78 | 18.5 |
| 40 | QPSK | 50 | 28 | 17.77 | 17.86 | 17.78 | 18.5 |
| 40 | QPSK | 50 | 56 | 17.84 | 17.89 | 17.80 | 18.5 |
| 40 | QPSK | 100 | 0 | 17.84 | 17.89 | 17.80 | |
| 40 | 16QAM | 1 | 1 | 17.81 | 17.89 | 17.81 | 18.5 |
| 40 | 64QAM | 1 | 1 | 17.80 | 17.87 | 17.80 | 18.5 |
| 40 | 256QAM | 1 | 1 | 17.79 | 17.88 | 17.82 | 18.5 |
| Channel | | | | 637668 | 641666 | 645666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3565.02 | 3624.99 | 3684.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 17.80 | 17.85 | 17.81 | 18.5 |
| Channel | | | | 637334 | 641666 | 646000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3560.01 | 3624.99 | 3690 | |
| 20 | PI/2 BPSK | 1 | 1 | 17.75 | 17.88 | 17.81 | 18.5 |
| Channel | | | | 637000 | 641666 | 646332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3555 | 3624.99 | 3694.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 17.76 | 17.86 | 17.75 | 18.5 |



<FR1 n77_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 650000 | 656000 | 662000 | |
| Frequency (MHz) | | | | 3750 | 3840 | 3930 | |
| 100 | PI/2 BPSK | 1 | 1 | 24.41 | 24.42 | 24.35 | 25.0 |
| 100 | PI/2 BPSK | 1 | 137 | 24.35 | 24.39 | 24.34 | |
| 100 | PI/2 BPSK | 1 | 271 | 24.39 | 24.17 | 24.22 | |
| 100 | PI/2 BPSK | 135 | 0 | 24.27 | 24.18 | 24.31 | 24.5 |
| 100 | PI/2 BPSK | 135 | 69 | 24.33 | 24.37 | 24.33 | 25.0 |
| 100 | PI/2 BPSK | 135 | 138 | 24.21 | 24.32 | 24.25 | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | 24.31 | 24.36 | 24.30 | |
| 100 | QPSK | 1 | 1 | 24.36 | 24.11 | 24.34 | 25.0 |
| 100 | QPSK | 1 | 137 | 24.34 | 24.36 | 24.35 | |
| 100 | QPSK | 1 | 271 | 24.39 | 24.40 | 24.21 | |
| 100 | QPSK | 135 | 0 | 23.83 | 23.81 | 23.93 | 25.0 |
| 100 | QPSK | 135 | 69 | 24.29 | 24.36 | 24.35 | |
| 100 | QPSK | 135 | 138 | 23.81 | 23.96 | 23.86 | |
| 100 | QPSK | 270 | 0 | 23.85 | 23.92 | 23.90 | 24.0 |
| 100 | 16QAM | 1 | 1 | 23.83 | 23.81 | 23.72 | 24.0 |
| 100 | 64QAM | 1 | 1 | 22.21 | 22.09 | 22.21 | 22.5 |
| 100 | 256QAM | 1 | 1 | 20.02 | 19.88 | 20.35 | 20.5 |
| Channel | | | | 649668 | 656000 | 662332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3934.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 24.37 | 24.03 | 24.32 | 25.0 |
| Channel | | | | 649334 | 656000 | 662666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3939.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 24.36 | 24.08 | 24.29 | 25.0 |
| Channel | | | | 649000 | 656000 | 663000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | |
| 70 | PI/2 BPSK | 1 | 1 | 24.35 | 24.09 | 24.29 | 25.0 |
| Channel | | | | 648668 | 656000 | 663332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3840 | 3949.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 24.30 | 24.08 | 24.29 | 25.0 |
| Channel | | | | 648334 | 656000 | 663666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3954.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 24.35 | 24.07 | 24.31 | 25.0 |
| Channel | | | | 648000 | 656000 | 664000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | |
| 40 | PI/2 BPSK | 1 | 1 | 24.31 | 24.12 | 24.24 | 25.0 |
| Channel | | | | 647668 | 656000 | 664332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3840.00 | 3964.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 24.31 | 24.09 | 24.23 | 25.0 |
| Channel | | | | 647334 | 656000 | 664666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3969.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 24.37 | 24.08 | 24.32 | 25.0 |
| Channel | | | | 647168 | 656000 | 664832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 24.31 | 24.08 | 24.23 | 25.0 |
| Channel | | | | 647000 | 656000 | 665000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | |
| 10 | PI/2 BPSK | 1 | 1 | 24.32 | 24.03 | 24.28 | 25.0 |



<FR1 n77_Ant MIMO 2_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 650000 | 656000 | 662000 | |
| Frequency (MHz) | | | | 3750 | 3840 | 3930 | |
| 100 | PI/2 BPSK | 1 | 1 | 23.43 | 23.62 | 23.35 | 25.0 |
| 100 | PI/2 BPSK | 1 | 137 | 23.33 | 23.57 | 23.33 | |
| 100 | PI/2 BPSK | 1 | 271 | 23.38 | 23.60 | 23.34 | |
| 100 | PI/2 BPSK | 135 | 0 | 22.66 | 22.88 | 22.61 | 24.5 |
| 100 | PI/2 BPSK | 135 | 69 | 23.29 | 23.54 | 23.29 | 25.0 |
| 100 | PI/2 BPSK | 135 | 138 | 22.79 | 23.05 | 22.85 | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | 22.77 | 23.05 | 22.76 | |
| 100 | QPSK | 1 | 1 | 23.15 | 23.35 | 23.14 | 24.0 |
| 100 | QPSK | 1 | 137 | 23.38 | 23.61 | 23.33 | |
| 100 | QPSK | 1 | 271 | 23.28 | 23.56 | 23.28 | |
| 100 | QPSK | 135 | 0 | 22.18 | 22.40 | 22.12 | 24.0 |
| 100 | QPSK | 135 | 69 | 23.24 | 23.54 | 23.34 | |
| 100 | QPSK | 135 | 138 | 22.25 | 22.54 | 22.25 | |
| 100 | QPSK | 270 | 0 | 22.28 | 22.51 | 22.28 | 24.0 |
| 100 | 16QAM | 1 | 1 | 22.30 | 22.57 | 22.29 | 24.0 |
| 100 | 64QAM | 1 | 1 | 20.49 | 20.72 | 20.48 | 22.5 |
| 100 | 256QAM | 1 | 1 | 18.58 | 18.79 | 18.51 | 20.5 |
| Channel | | | | 649668 | 656000 | 662332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3934.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 23.38 | 23.54 | 23.33 | 25.0 |
| Channel | | | | 649334 | 656000 | 662666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3939.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 23.37 | 23.52 | 23.27 | 25.0 |
| Channel | | | | 649000 | 656000 | 663000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | |
| 70 | PI/2 BPSK | 1 | 1 | 23.42 | 23.54 | 23.33 | 25.0 |
| Channel | | | | 648668 | 656000 | 663332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3840 | 3949.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 23.40 | 23.60 | 23.27 | 25.0 |
| Channel | | | | 648334 | 656000 | 663666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3954.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 23.41 | 23.55 | 23.34 | 25.0 |
| Channel | | | | 648000 | 656000 | 664000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | |
| 40 | PI/2 BPSK | 1 | 1 | 23.36 | 23.60 | 23.29 | 25.0 |
| Channel | | | | 647668 | 656000 | 664332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3840.00 | 3964.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.39 | 23.53 | 23.32 | 25.0 |
| Channel | | | | 647334 | 656000 | 664666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3969.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.34 | 23.58 | 23.34 | 25.0 |
| Channel | | | | 647168 | 656000 | 664832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.33 | 23.56 | 23.30 | 25.0 |
| Channel | | | | 647000 | 656000 | 665000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.37 | 23.58 | 23.26 | 25.0 |



<FR1 n77_Ant MIMO 1_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 650000 | 656000 | 662000 | |
| Frequency (MHz) | | | | 3750 | 3840 | 3930 | |
| 100 | PI/2 BPSK | 1 | 1 | 24.73 | 24.77 | 24.60 | 25.0 |
| 100 | PI/2 BPSK | 1 | 137 | 24.62 | 24.76 | 24.57 | |
| 100 | PI/2 BPSK | 1 | 271 | 24.54 | 24.70 | 24.59 | |
| 100 | PI/2 BPSK | 135 | 0 | 24.37 | 24.50 | 24.33 | 24.5 |
| 100 | PI/2 BPSK | 135 | 69 | 24.52 | 24.69 | 24.49 | 25.0 |
| 100 | PI/2 BPSK | 135 | 138 | 24.39 | 24.50 | 24.30 | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | 24.31 | 24.50 | 24.37 | |
| 100 | QPSK | 1 | 1 | 24.30 | 24.44 | 24.24 | 25.0 |
| 100 | QPSK | 1 | 137 | 24.51 | 24.68 | 24.48 | |
| 100 | QPSK | 1 | 271 | 24.46 | 24.62 | 24.52 | |
| 100 | QPSK | 135 | 0 | 24.09 | 24.22 | 24.02 | 25.0 |
| 100 | QPSK | 135 | 69 | 24.56 | 24.68 | 24.54 | |
| 100 | QPSK | 135 | 138 | 24.05 | 24.23 | 24.12 | |
| 100 | QPSK | 270 | 0 | 23.84 | 24.00 | 23.89 | 24.0 |
| 100 | 16QAM | 1 | 1 | 23.81 | 23.94 | 23.80 | 24.0 |
| 100 | 64QAM | 1 | 1 | 22.25 | 22.43 | 22.24 | 23.0 |
| 100 | 256QAM | 1 | 1 | 20.40 | 20.50 | 20.37 | 21.0 |
| Channel | | | | 649668 | 656000 | 662332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3934.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 24.59 | 24.42 | 24.41 | 25.0 |
| Channel | | | | 649334 | 656000 | 662666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3939.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 24.53 | 24.40 | 24.49 | 25.0 |
| Channel | | | | 649000 | 656000 | 663000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | |
| 70 | PI/2 BPSK | 1 | 1 | 24.62 | 24.41 | 24.46 | 25.0 |
| Channel | | | | 648668 | 656000 | 663332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3840 | 3949.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 24.56 | 24.40 | 24.44 | 25.0 |
| Channel | | | | 648334 | 656000 | 663666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3954.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 24.62 | 24.45 | 24.45 | 25.0 |
| Channel | | | | 648000 | 656000 | 664000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | |
| 40 | PI/2 BPSK | 1 | 1 | 24.58 | 24.39 | 24.47 | 25.0 |
| Channel | | | | 647668 | 656000 | 664332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3840.00 | 3964.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 24.62 | 24.40 | 24.46 | 25.0 |
| Channel | | | | 647334 | 656000 | 664666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3969.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 24.61 | 24.39 | 24.41 | 25.0 |
| Channel | | | | 647168 | 656000 | 664832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 24.58 | 24.47 | 24.40 | 25.0 |
| Channel | | | | 647000 | 656000 | 665000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | |
| 10 | PI/2 BPSK | 1 | 1 | 24.53 | 24.44 | 24.40 | 25.0 |



<FR1 n77_Ant Aux_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 650000 | 656000 | 662000 | |
| Frequency (MHz) | | | | 3750 | 3840 | 3930 | |
| 100 | PI/2 BPSK | 1 | 1 | 23.82 | 23.87 | 23.86 | 25.0 |
| 100 | PI/2 BPSK | 1 | 137 | 23.73 | 23.78 | 23.77 | |
| 100 | PI/2 BPSK | 1 | 271 | 23.81 | 23.86 | 23.85 | |
| 100 | PI/2 BPSK | 135 | 0 | 23.27 | 23.32 | 23.31 | 24.5 |
| 100 | PI/2 BPSK | 135 | 69 | 23.73 | 23.78 | 23.77 | 25.0 |
| 100 | PI/2 BPSK | 135 | 138 | 23.38 | 23.43 | 23.42 | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | 23.29 | 23.34 | 23.33 | |
| 100 | QPSK | 1 | 1 | 23.77 | 23.82 | 23.81 | 25.0 |
| 100 | QPSK | 1 | 137 | 23.80 | 23.85 | 23.84 | |
| 100 | QPSK | 1 | 271 | 23.81 | 23.86 | 23.85 | |
| 100 | QPSK | 135 | 0 | 22.77 | 22.82 | 22.81 | 24.0 |
| 100 | QPSK | 135 | 69 | 23.79 | 23.84 | 23.83 | 25.0 |
| 100 | QPSK | 135 | 138 | 22.87 | 22.92 | 22.91 | 24.0 |
| 100 | QPSK | 270 | 0 | 22.84 | 22.89 | 22.88 | |
| 100 | 16QAM | 1 | 1 | 22.92 | 22.97 | 22.96 | 24.0 |
| 100 | 64QAM | 1 | 1 | 21.45 | 21.50 | 21.49 | 22.5 |
| 100 | 256QAM | 1 | 1 | 19.10 | 19.15 | 19.14 | 20.5 |
| Channel | | | | 649668 | 656000 | 662332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3934.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 23.73 | 23.81 | 23.80 | 25.0 |
| Channel | | | | 649334 | 656000 | 662666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3939.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 23.73 | 23.74 | 23.79 | 25.0 |
| Channel | | | | 649000 | 656000 | 663000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | |
| 70 | PI/2 BPSK | 1 | 1 | 23.73 | 23.82 | 23.73 | 25.0 |
| Channel | | | | 648668 | 656000 | 663332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3840 | 3949.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 23.71 | 23.78 | 23.81 | 25.0 |
| Channel | | | | 648334 | 656000 | 663666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3954.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 23.76 | 23.74 | 23.74 | 25.0 |
| Channel | | | | 648000 | 656000 | 664000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | |
| 40 | PI/2 BPSK | 1 | 1 | 23.69 | 23.77 | 23.78 | 25.0 |
| Channel | | | | 647668 | 656000 | 664332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3840.00 | 3964.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.77 | 23.80 | 23.79 | 25.0 |
| Channel | | | | 647334 | 656000 | 664666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3969.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.75 | 23.72 | 23.75 | 25.0 |
| Channel | | | | 647168 | 656000 | 664832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.73 | 23.74 | 23.80 | 25.0 |
| Channel | | | | 647000 | 656000 | 665000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.71 | 23.76 | 23.78 | 25.0 |



<FR1 n77_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 650000 | 656000 | 662000 | |
| Frequency (MHz) | | | | 3750 | 3840 | 3930 | |
| 100 | PI/2 BPSK | 1 | 1 | 14.02 | 14.07 | 13.98 | 15.0 |
| 100 | PI/2 BPSK | 1 | 137 | 13.87 | 13.92 | 13.83 | |
| 100 | PI/2 BPSK | 1 | 271 | 13.97 | 14.02 | 13.93 | |
| 100 | PI/2 BPSK | 135 | 0 | 13.85 | 13.90 | 13.81 | 15.0 |
| 100 | PI/2 BPSK | 135 | 69 | 13.86 | 13.91 | 13.82 | 15.0 |
| 100 | PI/2 BPSK | 135 | 138 | 13.85 | 13.90 | 13.81 | 15.0 |
| 100 | PI/2 BPSK | 270 | 0 | 13.79 | 13.84 | 13.75 | |
| 100 | QPSK | 1 | 1 | 13.86 | 13.91 | 13.82 | 15.0 |
| 100 | QPSK | 1 | 137 | 13.94 | 13.99 | 13.90 | |
| 100 | QPSK | 1 | 271 | 13.86 | 13.91 | 13.82 | |
| 100 | QPSK | 135 | 0 | 13.83 | 13.88 | 13.79 | 15.0 |
| 100 | QPSK | 135 | 69 | 13.82 | 13.87 | 13.78 | |
| 100 | QPSK | 135 | 138 | 13.82 | 13.87 | 13.78 | |
| 100 | QPSK | 270 | 0 | 13.84 | 13.89 | 13.80 | 15.0 |
| 100 | 16QAM | 1 | 1 | 13.66 | 13.71 | 13.62 | 15.0 |
| 100 | 64QAM | 1 | 1 | 13.88 | 13.93 | 13.84 | 15.0 |
| 100 | 256QAM | 1 | 1 | 13.51 | 13.56 | 13.47 | 14.5 |
| Channel | | | | 649668 | 656000 | 662332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3934.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 13.94 | 13.97 | 13.87 | 15.0 |
| Channel | | | | 649334 | 656000 | 662666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3939.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 13.90 | 13.98 | 13.83 | 15.0 |
| Channel | | | | 649000 | 656000 | 663000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | |
| 70 | PI/2 BPSK | 1 | 1 | 13.86 | 13.93 | 13.86 | 15.0 |
| Channel | | | | 648668 | 656000 | 663332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3840 | 3949.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 13.88 | 13.95 | 13.89 | 15.0 |
| Channel | | | | 648334 | 656000 | 663666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3954.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 13.86 | 13.99 | 13.87 | 15.0 |
| Channel | | | | 648000 | 656000 | 664000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | |
| 40 | PI/2 BPSK | 1 | 1 | 13.87 | 13.94 | 13.90 | 15.0 |
| Channel | | | | 647668 | 656000 | 664332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3840.00 | 3964.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 13.86 | 13.98 | 13.87 | 15.0 |
| Channel | | | | 647334 | 656000 | 664666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3969.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 13.94 | 13.95 | 13.83 | 15.0 |
| Channel | | | | 647168 | 656000 | 664832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 13.94 | 13.96 | 13.82 | 15.0 |
| Channel | | | | 647000 | 656000 | 665000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | |
| 10 | PI/2 BPSK | 1 | 1 | 13.86 | 13.99 | 13.90 | 15.0 |



<FR1 n77_Ant MIMO 2_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 650000 | 656000 | 662000 | |
| Frequency (MHz) | | | | 3750 | 3840 | 3930 | |
| 100 | PI/2 BPSK | 1 | 1 | 14.01 | 14.04 | 13.98 | 14.5 |
| 100 | PI/2 BPSK | 1 | 137 | 13.87 | 13.90 | 13.84 | |
| 100 | PI/2 BPSK | 1 | 271 | 13.95 | 13.98 | 13.92 | |
| 100 | PI/2 BPSK | 135 | 0 | 13.91 | 13.94 | 13.88 | 14.5 |
| 100 | PI/2 BPSK | 135 | 69 | 13.93 | 13.96 | 13.90 | 14.5 |
| 100 | PI/2 BPSK | 135 | 138 | 13.82 | 13.85 | 13.79 | 14.5 |
| 100 | PI/2 BPSK | 270 | 0 | 13.89 | 13.92 | 13.86 | |
| 100 | QPSK | 1 | 1 | 13.79 | 13.82 | 13.76 | 14.5 |
| 100 | QPSK | 1 | 137 | 13.89 | 13.92 | 13.86 | |
| 100 | QPSK | 1 | 271 | 13.97 | 14.00 | 13.94 | |
| 100 | QPSK | 135 | 0 | 13.89 | 13.92 | 13.86 | 14.5 |
| 100 | QPSK | 135 | 69 | 13.92 | 13.95 | 13.89 | |
| 100 | QPSK | 135 | 138 | 13.84 | 13.87 | 13.81 | |
| 100 | QPSK | 270 | 0 | 13.88 | 13.91 | 13.85 | 14.5 |
| 100 | 16QAM | 1 | 1 | 13.83 | 13.86 | 13.80 | 14.5 |
| 100 | 64QAM | 1 | 1 | 13.93 | 13.96 | 13.90 | 14.5 |
| 100 | 256QAM | 1 | 1 | 13.59 | 13.62 | 13.56 | 14.5 |
| Channel | | | | 649668 | 656000 | 662332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3934.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 13.93 | 13.89 | 13.83 | 14.5 |
| Channel | | | | 649334 | 656000 | 662666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3939.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 13.92 | 13.90 | 13.86 | 14.5 |
| Channel | | | | 649000 | 656000 | 663000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | |
| 70 | PI/2 BPSK | 1 | 1 | 13.93 | 13.93 | 13.83 | 14.5 |
| Channel | | | | 648668 | 656000 | 663332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3840 | 3949.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 13.90 | 13.94 | 13.90 | 14.5 |
| Channel | | | | 648334 | 656000 | 663666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3954.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 13.92 | 13.96 | 13.85 | 14.5 |
| Channel | | | | 648000 | 656000 | 664000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | |
| 40 | PI/2 BPSK | 1 | 1 | 13.91 | 13.90 | 13.90 | 14.5 |
| Channel | | | | 647668 | 656000 | 664332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3840.00 | 3964.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 13.93 | 13.92 | 13.87 | 14.5 |
| Channel | | | | 647334 | 656000 | 664666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3969.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 13.86 | 13.91 | 13.84 | 14.5 |
| Channel | | | | 647168 | 656000 | 664832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 13.89 | 13.91 | 13.83 | 14.5 |
| Channel | | | | 647000 | 656000 | 665000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | |
| 10 | PI/2 BPSK | 1 | 1 | 13.90 | 13.90 | 13.89 | 14.5 |



<FR1 n77_Ant MIMO 1_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 650000 | 656000 | 662000 | 9.0 |
| Frequency (MHz) | | | | 3750 | 3840 | 3930 | |
| 100 | PI/2 BPSK | 1 | 1 | 8.08 | 8.16 | 8.01 | 9.0 |
| 100 | PI/2 BPSK | 1 | 137 | 8.04 | 8.12 | 7.97 | |
| 100 | PI/2 BPSK | 1 | 271 | 8.03 | 8.11 | 7.96 | |
| 100 | PI/2 BPSK | 135 | 0 | 8.03 | 8.11 | 7.96 | 9.0 |
| 100 | PI/2 BPSK | 135 | 69 | 8.07 | 8.15 | 8.00 | 9.0 |
| 100 | PI/2 BPSK | 135 | 138 | 8.06 | 8.14 | 7.99 | 9.0 |
| 100 | PI/2 BPSK | 270 | 0 | 8.06 | 8.14 | 7.99 | |
| 100 | QPSK | 1 | 1 | 7.95 | 8.03 | 7.88 | 9.0 |
| 100 | QPSK | 1 | 137 | 8.03 | 8.11 | 7.96 | |
| 100 | QPSK | 1 | 271 | 8.02 | 8.10 | 7.95 | |
| 100 | QPSK | 135 | 0 | 8.01 | 8.09 | 7.94 | 9.0 |
| 100 | QPSK | 135 | 69 | 8.04 | 8.12 | 7.97 | |
| 100 | QPSK | 135 | 138 | 8.03 | 8.11 | 7.96 | |
| 100 | QPSK | 270 | 0 | 8.02 | 8.10 | 7.95 | 9.0 |
| 100 | 16QAM | 1 | 1 | 8.06 | 8.14 | 7.99 | 9.0 |
| 100 | 64QAM | 1 | 1 | 8.07 | 8.15 | 8.00 | 9.0 |
| 100 | 256QAM | 1 | 1 | 7.68 | 7.76 | 7.61 | 9.0 |
| Channel | | | | 649668 | 656000 | 662332 | 9.0 |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3934.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 7.91 | 8.05 | 7.82 | 9.0 |
| Channel | | | | 649334 | 656000 | 662666 | 9.0 |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3939.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 7.91 | 7.96 | 7.85 | 9.0 |
| Channel | | | | 649000 | 656000 | 663000 | 9.0 |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | |
| 70 | PI/2 BPSK | 1 | 1 | 7.88 | 7.97 | 7.89 | 9.0 |
| Channel | | | | 648668 | 656000 | 663332 | 9.0 |
| Frequency (MHz) | | | | 3730.02 | 3840 | 3949.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 7.92 | 7.98 | 7.84 | 9.0 |
| Channel | | | | 648334 | 656000 | 663666 | 9.0 |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3954.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 7.92 | 8.00 | 7.90 | 9.0 |
| Channel | | | | 648000 | 656000 | 664000 | 9.0 |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | |
| 40 | PI/2 BPSK | 1 | 1 | 7.96 | 8.02 | 7.82 | 9.0 |
| Channel | | | | 647668 | 656000 | 664332 | 9.0 |
| Frequency (MHz) | | | | 3715.02 | 3840.00 | 3964.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 7.89 | 7.98 | 7.82 | 9.0 |
| Channel | | | | 647334 | 656000 | 664666 | 9.0 |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3969.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 7.98 | 8.02 | 7.91 | 9.0 |
| Channel | | | | 647168 | 656000 | 664832 | 9.0 |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 7.90 | 8.06 | 7.83 | 9.0 |
| Channel | | | | 647000 | 656000 | 665000 | 9.0 |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | |
| 10 | PI/2 BPSK | 1 | 1 | 7.96 | 8.01 | 7.89 | 9.0 |



<FR1 n77_Ant Aux_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 650000 | 656000 | 662000 | |
| Frequency (MHz) | | | | 3750 | 3840 | 3930 | |
| 100 | PI/2 BPSK | 1 | 1 | 16.61 | 16.67 | 16.62 | 17.5 |
| 100 | PI/2 BPSK | 1 | 137 | 16.45 | 16.56 | 16.50 | |
| 100 | PI/2 BPSK | 1 | 271 | 16.53 | 16.61 | 16.53 | |
| 100 | PI/2 BPSK | 135 | 0 | 16.51 | 16.63 | 16.50 | 17.5 |
| 100 | PI/2 BPSK | 135 | 69 | 16.52 | 16.64 | 16.52 | 17.5 |
| 100 | PI/2 BPSK | 135 | 138 | 16.51 | 16.59 | 16.48 | 17.5 |
| 100 | PI/2 BPSK | 270 | 0 | 16.53 | 16.62 | 16.54 | |
| 100 | QPSK | 1 | 1 | 16.51 | 16.61 | 16.51 | 17.5 |
| 100 | QPSK | 1 | 137 | 16.48 | 16.57 | 16.47 | |
| 100 | QPSK | 1 | 271 | 16.50 | 16.60 | 16.49 | |
| 100 | QPSK | 135 | 0 | 16.51 | 16.59 | 16.53 | 17.5 |
| 100 | QPSK | 135 | 69 | 16.56 | 16.63 | 16.52 | 17.5 |
| 100 | QPSK | 135 | 138 | 16.53 | 16.58 | 16.51 | 17.5 |
| 100 | QPSK | 270 | 0 | 16.45 | 16.56 | 16.51 | |
| 100 | 16QAM | 1 | 1 | 16.49 | 16.60 | 16.52 | 17.5 |
| 100 | 64QAM | 1 | 1 | 16.52 | 16.62 | 16.53 | 17.5 |
| 100 | 256QAM | 1 | 1 | 16.47 | 16.57 | 16.49 | 17.5 |
| Channel | | | | 649668 | 656000 | 662332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3934.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 16.51 | 16.60 | 16.51 | 17.5 |
| Channel | | | | 649334 | 656000 | 662666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3939.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 16.48 | 16.56 | 16.52 | 17.5 |
| Channel | | | | 649000 | 656000 | 663000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | |
| 70 | PI/2 BPSK | 1 | 1 | 16.51 | 16.56 | 16.50 | 17.5 |
| Channel | | | | 648668 | 656000 | 663332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3840 | 3949.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 16.52 | 16.56 | 16.49 | 17.5 |
| Channel | | | | 648334 | 656000 | 663666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3954.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 16.55 | 16.60 | 16.52 | 17.5 |
| Channel | | | | 648000 | 656000 | 664000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | |
| 40 | PI/2 BPSK | 1 | 1 | 16.54 | 16.56 | 16.52 | 17.5 |
| Channel | | | | 647668 | 656000 | 664332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3840.00 | 3964.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 16.49 | 16.54 | 16.54 | 17.5 |
| Channel | | | | 647334 | 656000 | 664666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3969.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 16.52 | 16.56 | 16.52 | 17.5 |
| Channel | | | | 647168 | 656000 | 664832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 16.53 | 16.59 | 16.55 | 17.5 |
| Channel | | | | 647000 | 656000 | 665000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | |
| 10 | PI/2 BPSK | 1 | 1 | 16.50 | 16.56 | 16.56 | 17.5 |



<FR1 n77_HPUE_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 650000 | 656000 | 662000 | |
| Frequency (MHz) | | | | 3750 | 3840 | 3930 | |
| 100 | PI/2 BPSK | 1 | 1 | 27.42 | 27.44 | 27.32 | 27.5 |
| 100 | PI/2 BPSK | 1 | 137 | 27.34 | 27.40 | 27.31 | |
| 100 | PI/2 BPSK | 1 | 271 | 27.37 | 27.11 | 27.14 | |
| 100 | PI/2 BPSK | 135 | 0 | 26.91 | 26.86 | 26.93 | 27.0 |
| 100 | PI/2 BPSK | 135 | 69 | 27.33 | 27.39 | 27.30 | 27.5 |
| 100 | PI/2 BPSK | 135 | 138 | 26.84 | 26.98 | 26.79 | 27.0 |
| 100 | PI/2 BPSK | 270 | 0 | 26.91 | 26.99 | 26.87 | |
| 100 | QPSK | 1 | 1 | 27.25 | 27.23 | 27.34 | 27.5 |
| 100 | QPSK | 1 | 137 | 27.26 | 27.42 | 27.35 | |
| 100 | QPSK | 1 | 271 | 27.26 | 27.38 | 27.09 | |
| 100 | QPSK | 135 | 0 | 26.41 | 26.33 | 26.47 | 27.5 |
| 100 | QPSK | 135 | 69 | 27.31 | 27.38 | 27.32 | |
| 100 | QPSK | 135 | 138 | 26.35 | 26.48 | 26.29 | |
| 100 | QPSK | 270 | 0 | 26.44 | 26.49 | 26.39 | 26.5 |
| 100 | 16QAM | 1 | 1 | 26.30 | 26.08 | 26.40 | 26.5 |
| 100 | 64QAM | 1 | 1 | 24.89 | 24.58 | 24.78 | 25.0 |
| 100 | 256QAM | 1 | 1 | 22.93 | 22.46 | 22.80 | 23.0 |
| Channel | | | | 649668 | 656000 | 662332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3934.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 27.34 | 27.07 | 27.27 | 27.5 |
| Channel | | | | 649334 | 656000 | 662666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3939.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 27.40 | 27.03 | 27.25 | 27.5 |
| Channel | | | | 649000 | 656000 | 663000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | |
| 70 | PI/2 BPSK | 1 | 1 | 27.38 | 27.05 | 27.27 | 27.5 |
| Channel | | | | 648668 | 656000 | 663332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3840 | 3949.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 27.38 | 27.08 | 27.27 | 27.5 |
| Channel | | | | 648334 | 656000 | 663666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3954.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 27.42 | 27.03 | 27.24 | 27.5 |
| Channel | | | | 648000 | 656000 | 664000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | |
| 40 | PI/2 BPSK | 1 | 1 | 27.38 | 27.04 | 27.21 | 27.5 |
| Channel | | | | 647668 | 656000 | 664332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3840.00 | 3964.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 27.40 | 27.02 | 27.20 | 27.5 |
| Channel | | | | 647334 | 656000 | 664666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3969.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 27.34 | 27.03 | 27.25 | 27.5 |
| Channel | | | | 647168 | 656000 | 664832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 27.38 | 27.10 | 27.26 | 27.5 |
| Channel | | | | 647000 | 656000 | 665000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | |
| 10 | PI/2 BPSK | 1 | 1 | 27.40 | 27.04 | 27.19 | 27.5 |



<FR1 n77_HPUE_Ant MIMO 2_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 650000 | 656000 | 662000 | |
| Frequency (MHz) | | | | 3750 | 3840 | 3930 | |
| 100 | PI/2 BPSK | 1 | 1 | 26.15 | 26.53 | 26.14 | 27.5 |
| 100 | PI/2 BPSK | 1 | 137 | 26.11 | 26.16 | 26.11 | |
| 100 | PI/2 BPSK | 1 | 271 | 26.14 | 26.23 | 26.13 | |
| 100 | PI/2 BPSK | 135 | 0 | 25.88 | 25.46 | 25.45 | 27.0 |
| 100 | PI/2 BPSK | 135 | 69 | 26.15 | 26.17 | 26.04 | 27.5 |
| 100 | PI/2 BPSK | 135 | 138 | 25.54 | 25.58 | 25.53 | 27.0 |
| 100 | PI/2 BPSK | 270 | 0 | 25.56 | 25.57 | 25.49 | |
| 100 | QPSK | 1 | 1 | 25.84 | 25.90 | 25.86 | 26.5 |
| 100 | QPSK | 1 | 137 | 26.08 | 26.11 | 26.07 | |
| 100 | QPSK | 1 | 271 | 26.17 | 26.25 | 26.21 | |
| 100 | QPSK | 135 | 0 | 25.76 | 25.45 | 25.42 | 26.5 |
| 100 | QPSK | 135 | 69 | 26.14 | 26.12 | 26.09 | |
| 100 | QPSK | 135 | 138 | 25.57 | 25.57 | 25.52 | |
| 100 | QPSK | 270 | 0 | 25.66 | 25.60 | 25.57 | 26.5 |
| 100 | 16QAM | 1 | 1 | 24.84 | 24.80 | 24.76 | 26.5 |
| 100 | 64QAM | 1 | 1 | 23.27 | 23.31 | 23.30 | 25.0 |
| 100 | 256QAM | 1 | 1 | 21.34 | 21.25 | 21.21 | 23.0 |
| Channel | | | | 649668 | 656000 | 662332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3934.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 26.01 | 26.48 | 26.03 | 27.5 |
| Channel | | | | 649334 | 656000 | 662666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3939.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 26.03 | 26.51 | 26.06 | 27.5 |
| Channel | | | | 649000 | 656000 | 663000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | |
| 70 | PI/2 BPSK | 1 | 1 | 26.01 | 26.48 | 26.07 | 27.5 |
| Channel | | | | 648668 | 656000 | 663332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3840 | 3949.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 26.00 | 26.50 | 26.04 | 27.5 |
| Channel | | | | 648334 | 656000 | 663666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3954.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 26.02 | 26.48 | 26.05 | 27.5 |
| Channel | | | | 648000 | 656000 | 664000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | |
| 40 | PI/2 BPSK | 1 | 1 | 26.00 | 26.50 | 26.07 | 27.5 |
| Channel | | | | 647668 | 656000 | 664332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3840.00 | 3964.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 26.03 | 26.52 | 26.06 | 27.5 |
| Channel | | | | 647334 | 656000 | 664666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3969.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 25.99 | 26.49 | 26.04 | 27.5 |
| Channel | | | | 647168 | 656000 | 664832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 26.02 | 26.51 | 26.05 | 27.5 |
| Channel | | | | 647000 | 656000 | 665000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | |
| 10 | PI/2 BPSK | 1 | 1 | 25.99 | 26.49 | 26.05 | 27.5 |



<FR1 n77_HPUE_Ant MIMO 1_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 650000 | 656000 | 662000 | |
| Frequency (MHz) | | | | 3750 | 3840 | 3930 | |
| 100 | PI/2 BPSK | 1 | 1 | 26.27 | 26.35 | 26.31 | 27.5 |
| 100 | PI/2 BPSK | 1 | 137 | 26.25 | 26.34 | 26.30 | |
| 100 | PI/2 BPSK | 1 | 271 | 26.26 | 26.32 | 26.27 | |
| 100 | PI/2 BPSK | 135 | 0 | 26.23 | 26.28 | 26.27 | 27.0 |
| 100 | PI/2 BPSK | 135 | 69 | 26.26 | 26.34 | 26.33 | 27.5 |
| 100 | PI/2 BPSK | 135 | 138 | 26.24 | 26.31 | 26.30 | 27.0 |
| 100 | PI/2 BPSK | 270 | 0 | 26.21 | 26.23 | 26.20 | |
| 100 | QPSK | 1 | 1 | 26.06 | 26.08 | 26.05 | 27.5 |
| 100 | QPSK | 1 | 137 | 26.35 | 26.34 | 26.33 | |
| 100 | QPSK | 1 | 271 | 26.21 | 26.25 | 26.20 | |
| 100 | QPSK | 135 | 0 | 26.20 | 26.23 | 26.21 | 27.5 |
| 100 | QPSK | 135 | 69 | 26.35 | 26.34 | 26.34 | |
| 100 | QPSK | 135 | 138 | 26.27 | 26.30 | 26.27 | |
| 100 | QPSK | 270 | 0 | 26.20 | 26.23 | 26.21 | 26.5 |
| 100 | 16QAM | 1 | 1 | 26.33 | 26.34 | 26.34 | 26.5 |
| 100 | 64QAM | 1 | 1 | 25.26 | 25.31 | 25.28 | 25.5 |
| 100 | 256QAM | 1 | 1 | 23.24 | 23.25 | 23.23 | 23.5 |
| Channel | | | | 649668 | 656000 | 662332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3934.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 25.94 | 25.99 | 25.91 | 27.5 |
| Channel | | | | 649334 | 656000 | 662666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3939.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 26.03 | 26.01 | 25.97 | 27.5 |
| Channel | | | | 649000 | 656000 | 663000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | |
| 70 | PI/2 BPSK | 1 | 1 | 26.01 | 25.98 | 25.97 | 27.5 |
| Channel | | | | 648668 | 656000 | 663332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3840 | 3949.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 26.01 | 25.99 | 25.93 | 27.5 |
| Channel | | | | 648334 | 656000 | 663666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3954.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 26.01 | 25.98 | 25.99 | 27.5 |
| Channel | | | | 648000 | 656000 | 664000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | |
| 40 | PI/2 BPSK | 1 | 1 | 26.00 | 26.03 | 25.93 | 27.5 |
| Channel | | | | 647668 | 656000 | 664332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3840.00 | 3964.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 25.96 | 25.96 | 25.93 | 27.5 |
| Channel | | | | 647334 | 656000 | 664666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3969.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 25.97 | 25.98 | 25.96 | 27.5 |
| Channel | | | | 647168 | 656000 | 664832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 25.94 | 26.01 | 25.95 | 27.5 |
| Channel | | | | 647000 | 656000 | 665000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | |
| 10 | PI/2 BPSK | 1 | 1 | 26.02 | 25.95 | 25.98 | 27.5 |



<FR1 n77_HPUE_Ant Aux_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 650000 | 656000 | 662000 | |
| Frequency (MHz) | | | | 3750 | 3840 | 3930 | |
| 100 | PI/2 BPSK | 1 | 1 | 26.35 | 26.43 | 26.42 | 27.5 |
| 100 | PI/2 BPSK | 1 | 137 | 26.27 | 26.35 | 26.34 | |
| 100 | PI/2 BPSK | 1 | 271 | 26.34 | 26.42 | 26.41 | |
| 100 | PI/2 BPSK | 135 | 0 | 25.85 | 25.93 | 25.92 | 27.0 |
| 100 | PI/2 BPSK | 135 | 69 | 26.20 | 26.28 | 26.27 | 27.5 |
| 100 | PI/2 BPSK | 135 | 138 | 25.87 | 25.95 | 25.94 | 27.0 |
| 100 | PI/2 BPSK | 270 | 0 | 25.80 | 25.88 | 25.87 | |
| 100 | QPSK | 1 | 1 | 26.16 | 26.24 | 26.23 | 27.5 |
| 100 | QPSK | 1 | 137 | 26.25 | 26.33 | 26.32 | |
| 100 | QPSK | 1 | 271 | 26.34 | 26.42 | 26.41 | |
| 100 | QPSK | 135 | 0 | 25.33 | 25.41 | 25.40 | 26.5 |
| 100 | QPSK | 135 | 69 | 26.26 | 26.34 | 26.33 | 27.5 |
| 100 | QPSK | 135 | 138 | 25.42 | 25.50 | 25.49 | 26.5 |
| 100 | QPSK | 270 | 0 | 25.34 | 25.42 | 25.41 | |
| 100 | 16QAM | 1 | 1 | 25.24 | 25.32 | 25.31 | 26.5 |
| 100 | 64QAM | 1 | 1 | 24.12 | 24.20 | 24.19 | 25.0 |
| 100 | 256QAM | 1 | 1 | 21.57 | 21.65 | 21.64 | 23.0 |
| Channel | | | | 649668 | 656000 | 662332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3934.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 26.20 | 26.35 | 26.31 | 27.5 |
| Channel | | | | 649334 | 656000 | 662666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3939.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 26.21 | 26.32 | 26.28 | 27.5 |
| Channel | | | | 649000 | 656000 | 663000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | |
| 70 | PI/2 BPSK | 1 | 1 | 26.23 | 26.33 | 26.28 | 27.5 |
| Channel | | | | 648668 | 656000 | 663332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3840 | 3949.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 26.22 | 26.34 | 26.32 | 27.5 |
| Channel | | | | 648334 | 656000 | 663666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3954.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 26.20 | 26.32 | 26.31 | 27.5 |
| Channel | | | | 648000 | 656000 | 664000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | |
| 40 | PI/2 BPSK | 1 | 1 | 26.20 | 26.35 | 26.37 | 27.5 |
| Channel | | | | 647668 | 656000 | 664332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3840.00 | 3964.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 26.25 | 26.37 | 26.33 | 27.5 |
| Channel | | | | 647334 | 656000 | 664666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3969.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 26.20 | 26.38 | 26.29 | 27.5 |
| Channel | | | | 647168 | 656000 | 664832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 26.26 | 26.28 | 26.27 | 27.5 |
| Channel | | | | 647000 | 656000 | 665000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | |
| 10 | PI/2 BPSK | 1 | 1 | 26.22 | 26.31 | 26.27 | 27.5 |



<FR1 n77_HPUE_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 650000 | 656000 | 662000 | |
| Frequency (MHz) | | | | 3750 | 3840 | 3930 | |
| 100 | PI/2 BPSK | 1 | 1 | 17.02 | 17.18 | 17.13 | 18.0 |
| 100 | PI/2 BPSK | 1 | 137 | 16.82 | 16.98 | 16.93 | |
| 100 | PI/2 BPSK | 1 | 271 | 16.82 | 16.98 | 16.93 | |
| 100 | PI/2 BPSK | 135 | 0 | 16.82 | 16.98 | 16.93 | 18.0 |
| 100 | PI/2 BPSK | 135 | 69 | 16.89 | 17.05 | 17.00 | 18.0 |
| 100 | PI/2 BPSK | 135 | 138 | 16.86 | 17.02 | 16.97 | 18.0 |
| 100 | PI/2 BPSK | 270 | 0 | 16.84 | 17.00 | 16.95 | |
| 100 | QPSK | 1 | 1 | 16.71 | 16.87 | 16.82 | 18.0 |
| 100 | QPSK | 1 | 137 | 16.91 | 17.07 | 17.02 | |
| 100 | QPSK | 1 | 271 | 16.95 | 17.11 | 17.06 | |
| 100 | QPSK | 135 | 0 | 16.83 | 16.99 | 16.94 | 18.0 |
| 100 | QPSK | 135 | 69 | 16.86 | 17.02 | 16.97 | |
| 100 | QPSK | 135 | 138 | 16.89 | 17.05 | 17.00 | |
| 100 | QPSK | 270 | 0 | 16.82 | 16.98 | 16.93 | 18.0 |
| 100 | 16QAM | 1 | 1 | 16.86 | 17.02 | 16.97 | 18.0 |
| 100 | 64QAM | 1 | 1 | 16.94 | 17.10 | 17.05 | 18.0 |
| 100 | 256QAM | 1 | 1 | 16.52 | 16.68 | 16.63 | 17.5 |
| Channel | | | | 649668 | 656000 | 662332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3934.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 16.88 | 17.05 | 17.01 | 18.0 |
| Channel | | | | 649334 | 656000 | 662666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3939.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 16.96 | 17.12 | 17.02 | 18.0 |
| Channel | | | | 649000 | 656000 | 663000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | |
| 70 | PI/2 BPSK | 1 | 1 | 16.87 | 17.06 | 17.05 | 18.0 |
| Channel | | | | 648668 | 656000 | 663332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3840 | 3949.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 16.91 | 17.11 | 17.00 | 18.0 |
| Channel | | | | 648334 | 656000 | 663666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3954.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 16.91 | 17.05 | 17.02 | 18.0 |
| Channel | | | | 648000 | 656000 | 664000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | |
| 40 | PI/2 BPSK | 1 | 1 | 16.90 | 17.11 | 17.06 | 18.0 |
| Channel | | | | 647668 | 656000 | 664332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3840.00 | 3964.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 16.90 | 17.06 | 17.01 | 18.0 |
| Channel | | | | 647334 | 656000 | 664666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3969.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 16.93 | 17.04 | 17.00 | 18.0 |
| Channel | | | | 647168 | 656000 | 664832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 16.92 | 17.08 | 17.05 | 18.0 |
| Channel | | | | 647000 | 656000 | 665000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | |
| 10 | PI/2 BPSK | 1 | 1 | 16.94 | 17.10 | 17.07 | 18.0 |



<FR1 n77_HPUE_Ant MIMO 2_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 650000 | 656000 | 662000 | |
| Frequency (MHz) | | | | 3750 | 3840 | 3930 | |
| 100 | PI/2 BPSK | 1 | 1 | 16.95 | 17.02 | 16.97 | 17.5 |
| 100 | PI/2 BPSK | 1 | 137 | 16.89 | 16.96 | 16.91 | |
| 100 | PI/2 BPSK | 1 | 271 | 16.91 | 16.98 | 16.93 | |
| 100 | PI/2 BPSK | 135 | 0 | 16.82 | 16.89 | 16.84 | 17.5 |
| 100 | PI/2 BPSK | 135 | 69 | 16.88 | 16.95 | 16.90 | 17.5 |
| 100 | PI/2 BPSK | 135 | 138 | 16.87 | 16.94 | 16.89 | 17.5 |
| 100 | PI/2 BPSK | 270 | 0 | 16.79 | 16.86 | 16.81 | |
| 100 | QPSK | 1 | 1 | 16.81 | 16.88 | 16.83 | 17.5 |
| 100 | QPSK | 1 | 137 | 16.90 | 16.97 | 16.92 | |
| 100 | QPSK | 1 | 271 | 16.94 | 17.01 | 16.96 | |
| 100 | QPSK | 135 | 0 | 16.79 | 16.86 | 16.81 | 17.5 |
| 100 | QPSK | 135 | 69 | 16.89 | 16.96 | 16.91 | |
| 100 | QPSK | 135 | 138 | 16.82 | 16.89 | 16.84 | |
| 100 | QPSK | 270 | 0 | 16.89 | 16.96 | 16.91 | 17.5 |
| 100 | 16QAM | 1 | 1 | 16.59 | 16.66 | 16.61 | 17.5 |
| 100 | 64QAM | 1 | 1 | 16.93 | 17.00 | 16.95 | 17.5 |
| 100 | 256QAM | 1 | 1 | 16.79 | 16.86 | 16.81 | 17.5 |
| Channel | | | | 649668 | 656000 | | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3840 | -6000 | |
| 90 | PI/2 BPSK | 1 | 1 | 16.84 | 16.94 | 16.85 | 17.5 |
| Channel | | | | 649334 | 656000 | 662666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3939.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 16.87 | 16.92 | 16.83 | 17.5 |
| Channel | | | | 649000 | 656000 | 663000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | |
| 70 | PI/2 BPSK | 1 | 1 | 16.82 | 16.92 | 16.85 | 17.5 |
| Channel | | | | 648668 | 656000 | 663332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3840 | 3949.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 16.88 | 16.93 | 16.82 | 17.5 |
| Channel | | | | 648334 | 656000 | 663666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3954.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 16.86 | 16.90 | 16.82 | 17.5 |
| Channel | | | | 648000 | 656000 | 664000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | |
| 40 | PI/2 BPSK | 1 | 1 | 16.85 | 16.90 | 16.86 | 17.5 |
| Channel | | | | 647668 | 656000 | 664332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3840.00 | 3964.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 16.85 | 16.95 | 16.85 | 17.5 |
| Channel | | | | 647334 | 656000 | 664666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3969.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 16.84 | 16.87 | 16.88 | 17.5 |
| Channel | | | | 647168 | 656000 | 664832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 16.89 | 16.88 | 16.89 | 17.5 |
| Channel | | | | 647000 | 656000 | 665000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | |
| 10 | PI/2 BPSK | 1 | 1 | 16.85 | 16.93 | 16.84 | 17.5 |



<FR1 n77_HPUE_Ant MIMO 1_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 650000 | 656000 | 662000 | |
| Frequency (MHz) | | | | 3750 | 3840 | 3930 | |
| 100 | PI/2 BPSK | 1 | 1 | 11.16 | 11.18 | 11.17 | 12.0 |
| 100 | PI/2 BPSK | 1 | 137 | 11.14 | 11.16 | 11.15 | |
| 100 | PI/2 BPSK | 1 | 271 | 11.15 | 11.17 | 11.16 | |
| 100 | PI/2 BPSK | 135 | 0 | 11.13 | 11.15 | 11.14 | 12.0 |
| 100 | PI/2 BPSK | 135 | 69 | 11.15 | 11.17 | 11.16 | 12.0 |
| 100 | PI/2 BPSK | 135 | 138 | 11.14 | 11.16 | 11.15 | 12.0 |
| 100 | PI/2 BPSK | 270 | 0 | 11.14 | 11.16 | 11.15 | |
| 100 | QPSK | 1 | 1 | 11.13 | 11.15 | 11.14 | 12.0 |
| 100 | QPSK | 1 | 137 | 11.12 | 11.14 | 11.13 | |
| 100 | QPSK | 1 | 271 | 11.15 | 11.17 | 11.16 | |
| 100 | QPSK | 135 | 0 | 11.09 | 11.11 | 11.10 | 12.0 |
| 100 | QPSK | 135 | 69 | 11.11 | 11.13 | 11.12 | |
| 100 | QPSK | 135 | 138 | 11.13 | 11.15 | 11.14 | |
| 100 | QPSK | 270 | 0 | 11.10 | 11.12 | 11.11 | 12.0 |
| 100 | 16QAM | 1 | 1 | 10.83 | 10.85 | 10.84 | 12.0 |
| 100 | 64QAM | 1 | 1 | 11.15 | 11.17 | 11.16 | 12.0 |
| 100 | 256QAM | 1 | 1 | 10.83 | 10.85 | 10.84 | 12.0 |
| Channel | | | | 649668 | 656000 | 662332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3934.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 11.01 | 11.03 | 11.01 | 12.0 |
| Channel | | | | 649334 | 656000 | 662666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3939.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 10.98 | 11.06 | 11.00 | 12.0 |
| Channel | | | | 649000 | 656000 | 663000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | |
| 70 | PI/2 BPSK | 1 | 1 | 10.99 | 10.98 | 11.06 | 12.0 |
| Channel | | | | 648668 | 656000 | 663332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3840 | 3949.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 10.99 | 10.98 | 11.06 | 12.0 |
| Channel | | | | 648334 | 656000 | 663666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3954.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 10.97 | 11.06 | 11.07 | 12.0 |
| Channel | | | | 648000 | 656000 | 664000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | |
| 40 | PI/2 BPSK | 1 | 1 | 11.05 | 11.01 | 11.01 | 12.0 |
| Channel | | | | 647668 | 656000 | 664332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3840.00 | 3964.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 10.99 | 11.02 | 10.98 | 12.0 |
| Channel | | | | 647334 | 656000 | 664666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3969.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 11.04 | 11.01 | 10.97 | 12.0 |
| Channel | | | | 647168 | 656000 | 664832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 11.06 | 10.98 | 11.01 | 12.0 |
| Channel | | | | 647000 | 656000 | 665000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | |
| 10 | PI/2 BPSK | 1 | 1 | 10.98 | 10.99 | 10.97 | 12.0 |



<FR1 n77_HPUE_Ant Aux_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | 650000 | 656000 | 662000 | |
| Frequency (MHz) | | | | 3750 | 3840 | 3930 | |
| 100 | PI/2 BPSK | 1 | 1 | 19.62 | 19.66 | 19.62 | 20.5 |
| 100 | PI/2 BPSK | 1 | 137 | 19.54 | 19.62 | 19.58 | |
| 100 | PI/2 BPSK | 1 | 271 | 19.54 | 19.61 | 19.57 | |
| 100 | PI/2 BPSK | 135 | 0 | 19.53 | 19.57 | 19.50 | 20.5 |
| 100 | PI/2 BPSK | 135 | 69 | 19.55 | 19.58 | 19.56 | 20.5 |
| 100 | PI/2 BPSK | 135 | 138 | 19.54 | 19.56 | 19.54 | 20.5 |
| 100 | PI/2 BPSK | 270 | 0 | 19.56 | 19.57 | 19.55 | |
| 100 | QPSK | 1 | 1 | 19.51 | 19.58 | 19.51 | 20.5 |
| 100 | QPSK | 1 | 137 | 19.53 | 19.58 | 19.52 | |
| 100 | QPSK | 1 | 271 | 19.54 | 19.62 | 19.55 | |
| 100 | QPSK | 135 | 0 | 19.55 | 19.61 | 19.54 | 20.5 |
| 100 | QPSK | 135 | 69 | 19.57 | 19.62 | 19.56 | 20.5 |
| 100 | QPSK | 135 | 138 | 19.57 | 19.61 | 19.53 | 20.5 |
| 100 | QPSK | 270 | 0 | 19.54 | 19.60 | 19.52 | |
| 100 | 16QAM | 1 | 1 | 19.53 | 19.59 | 19.50 | 20.5 |
| 100 | 64QAM | 1 | 1 | 19.54 | 19.62 | 19.56 | 20.5 |
| 100 | 256QAM | 1 | 1 | 19.54 | 19.61 | 19.57 | 20.5 |
| Channel | | | | 649668 | 656000 | 662332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3840 | 3934.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 19.56 | 19.57 | 19.54 | 20.5 |
| Channel | | | | 649334 | 656000 | 662666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3840 | 3939.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 19.51 | 19.57 | 19.54 | 20.5 |
| Channel | | | | 649000 | 656000 | 663000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3840 | 3945 | |
| 70 | PI/2 BPSK | 1 | 1 | 19.49 | 19.58 | 19.52 | 20.5 |
| Channel | | | | 648668 | 656000 | 663332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3840 | 3949.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 19.53 | 19.60 | 19.53 | 20.5 |
| Channel | | | | 648334 | 656000 | 663666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3840 | 3954.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 19.49 | 19.60 | 19.52 | 20.5 |
| Channel | | | | 648000 | 656000 | 664000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3840 | 3960 | |
| 40 | PI/2 BPSK | 1 | 1 | 19.52 | 19.57 | 19.56 | 20.5 |
| Channel | | | | 647668 | 656000 | 664332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3840.00 | 3964.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 19.54 | 19.56 | 19.49 | 20.5 |
| Channel | | | | 647334 | 656000 | 664666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3840 | 3969.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 19.52 | 19.58 | 19.53 | 20.5 |
| Channel | | | | 647168 | 656000 | 664832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3840 | 3972.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 19.53 | 19.54 | 19.50 | 20.5 |
| Channel | | | | 647000 | 656000 | 665000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3840 | 3975 | |
| 10 | PI/2 BPSK | 1 | 1 | 19.53 | 19.58 | 19.53 | 20.5 |



<FR1 n77_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | 25.0 |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 24.25 | | 25.0 |
| 100 | PI/2 BPSK | 1 | 137 | | 24.03 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 24.11 | | 24.5 |
| 100 | PI/2 BPSK | 135 | 0 | | 23.95 | | |
| 100 | PI/2 BPSK | 135 | 69 | | 24.07 | | 25.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 23.98 | | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 23.99 | | |
| 100 | QPSK | 1 | 1 | | 23.95 | | 25.0 |
| 100 | QPSK | 1 | 137 | | 23.87 | | |
| 100 | QPSK | 1 | 271 | | 24.07 | | 25.0 |
| 100 | QPSK | 135 | 0 | | 23.97 | | |
| 100 | QPSK | 135 | 69 | | 23.98 | | 25.0 |
| 100 | QPSK | 135 | 138 | | 24.01 | | |
| 100 | QPSK | 270 | 0 | | 23.97 | | 24.0 |
| 100 | 16QAM | 1 | 1 | | 23.99 | | 24.0 |
| 100 | 64QAM | 1 | 1 | | 22.46 | | 23.0 |
| 100 | 256QAM | 1 | 1 | | 20.43 | | 21.0 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 23.95 | 23.98 | 23.92 | 25.0 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 23.87 | 23.97 | 23.91 | 25.0 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 23.88 | 23.97 | 23.91 | 25.0 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 23.94 | 23.97 | 23.89 | 25.0 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 23.88 | 23.98 | 23.83 | 25.0 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 23.88 | 23.94 | 23.90 | 25.0 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.90 | 23.90 | 23.89 | 25.0 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.90 | 23.89 | 23.87 | 25.0 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.95 | 23.96 | 23.87 | 25.0 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.91 | 23.92 | 23.89 | 25.0 |



<FR1 n77_Ant MIMO 2_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | 25.0 |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 23.50 | | 25.0 |
| 100 | PI/2 BPSK | 1 | 137 | | 23.41 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 23.46 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 22.70 | | 24.5 |
| 100 | PI/2 BPSK | 135 | 69 | | 23.40 | | 25.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 22.90 | | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 22.91 | | |
| 100 | QPSK | 1 | 1 | | 23.15 | | 24.0 |
| 100 | QPSK | 1 | 137 | | 23.48 | | |
| 100 | QPSK | 1 | 271 | | 23.42 | | |
| 100 | QPSK | 135 | 0 | | 22.27 | | 24.0 |
| 100 | QPSK | 135 | 69 | | 23.35 | | |
| 100 | QPSK | 135 | 138 | | 22.35 | | |
| 100 | QPSK | 270 | 0 | | 22.31 | | 24.0 |
| 100 | 16QAM | 1 | 1 | | 22.41 | | 24.0 |
| 100 | 64QAM | 1 | 1 | | 20.61 | | 22.5 |
| 100 | 256QAM | 1 | 1 | | 18.66 | | 20.5 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 23.41 | 23.43 | 23.29 | 25.0 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 23.38 | 23.41 | 23.30 | 25.0 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 23.37 | 23.43 | 23.27 | 25.0 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 23.34 | 23.46 | 23.25 | 25.0 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 23.33 | 23.49 | 23.32 | 25.0 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 23.38 | 23.44 | 23.28 | 25.0 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.40 | 23.49 | 23.25 | 25.0 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.34 | 23.46 | 23.30 | 25.0 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.35 | 23.48 | 23.29 | 25.0 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.33 | 23.46 | 23.32 | 25.0 |



<FR1 n77_Ant MIMO 1_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 24.55 | | 25.0 |
| 100 | PI/2 BPSK | 1 | 137 | | 24.46 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 24.54 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 24.38 | | 24.5 |
| 100 | PI/2 BPSK | 135 | 69 | | 24.51 | | 25.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 24.46 | | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 24.50 | | |
| 100 | QPSK | 1 | 1 | | 24.29 | | 25.0 |
| 100 | QPSK | 1 | 137 | | 24.29 | | |
| 100 | QPSK | 1 | 271 | | 24.52 | | |
| 100 | QPSK | 135 | 0 | | 24.00 | | 25.0 |
| 100 | QPSK | 135 | 69 | | 24.49 | | |
| 100 | QPSK | 135 | 138 | | 24.13 | | |
| 100 | QPSK | 270 | 0 | | 24.00 | | 24.0 |
| 100 | 16QAM | 1 | 1 | | 24.00 | | 24.0 |
| 100 | 64QAM | 1 | 1 | | 22.35 | | 23.0 |
| 100 | 256QAM | 1 | 1 | | 20.40 | | 21.0 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 24.26 | 24.30 | 24.25 | 25.0 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 24.26 | 24.23 | 24.20 | 25.0 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 24.25 | 24.25 | 24.20 | 25.0 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 24.28 | 24.23 | 24.20 | 25.0 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 24.25 | 24.23 | 24.20 | 25.0 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 24.21 | 24.30 | 24.24 | 25.0 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 24.28 | 24.21 | 24.25 | 25.0 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 24.21 | 24.28 | 24.24 | 25.0 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 24.26 | 24.20 | 24.24 | 25.0 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 24.28 | 24.30 | 24.25 | 25.0 |



<FR1 n77_Ant Aux_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | 25.0 |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 23.96 | | 25.0 |
| 100 | PI/2 BPSK | 1 | 137 | | 23.81 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 23.95 | | 24.5 |
| 100 | PI/2 BPSK | 135 | 0 | | 23.48 | | |
| 100 | PI/2 BPSK | 135 | 69 | | 23.89 | | 25.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 23.43 | | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 23.50 | | |
| 100 | QPSK | 1 | 1 | | 23.85 | | 25.0 |
| 100 | QPSK | 1 | 137 | | 23.82 | | |
| 100 | QPSK | 1 | 271 | | 23.83 | | 24.0 |
| 100 | QPSK | 135 | 0 | | 22.93 | | |
| 100 | QPSK | 135 | 69 | | 23.89 | | 25.0 |
| 100 | QPSK | 135 | 138 | | 22.91 | | 24.0 |
| 100 | QPSK | 270 | 0 | | 22.96 | | |
| 100 | 16QAM | 1 | 1 | | 23.02 | | 24.0 |
| 100 | 64QAM | 1 | 1 | | 21.72 | | 22.5 |
| 100 | 256QAM | 1 | 1 | | 19.06 | | 20.5 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 23.90 | 23.89 | 23.81 | 25.0 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 23.86 | 23.88 | 23.88 | 25.0 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 23.82 | 23.83 | 23.88 | 25.0 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 23.84 | 23.89 | 23.86 | 25.0 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 23.89 | 23.84 | 23.86 | 25.0 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 23.84 | 23.80 | 23.82 | 25.0 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.80 | 23.85 | 23.82 | 25.0 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.86 | 23.84 | 23.80 | 25.0 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.82 | 23.90 | 23.88 | 25.0 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.80 | 23.86 | 23.83 | 25.0 |



<FR1 n77_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | 15.0 |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 14.04 | | |
| 100 | PI/2 BPSK | 1 | 137 | | 13.97 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 14.02 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 13.95 | | |
| 100 | PI/2 BPSK | 135 | 69 | | 14.03 | | |
| 100 | PI/2 BPSK | 135 | 138 | | 13.93 | | |
| 100 | PI/2 BPSK | 270 | 0 | | 14.01 | | |
| 100 | QPSK | 1 | 1 | | 14.03 | | |
| 100 | QPSK | 1 | 137 | | 13.99 | | |
| X | QPSK | 1 | 271 | | 14.02 | | |
| 100 | QPSK | 135 | 0 | | 13.96 | | |
| 100 | QPSK | 135 | 69 | | 13.99 | | |
| 100 | QPSK | 135 | 138 | | 13.98 | | |
| 100 | QPSK | 270 | 0 | | 14.01 | | |
| 100 | 16QAM | 1 | 1 | | 13.74 | | |
| 100 | 64QAM | 1 | 1 | | 14.03 | | |
| 100 | 256QAM | 1 | 1 | | 13.71 | | |
| Channel | | | | 633000 | 633332 | 633666 | 15.0 |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 13.96 | 13.88 | 13.87 | |
| Channel | | | | 632668 | 633332 | 634000 | 15.0 |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 13.98 | 13.92 | 13.98 | |
| Channel | | | | 632334 | 633332 | 634332 | 15.0 |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 13.88 | 13.94 | 13.87 | |
| Channel | | | | 632000 | 633332 | 634666 | 15.0 |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 13.95 | 13.95 | 13.97 | |
| Channel | | | | 631668 | 633332 | 635000 | 15.0 |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 13.86 | 13.93 | 13.89 | |
| Channel | | | | 631334 | 633332 | 635332 | 15.0 |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 13.88 | 13.96 | 13.89 | |
| Channel | | | | 631000 | 633332 | 635666 | 15.0 |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 13.92 | 13.96 | 13.92 | |
| Channel | | | | 630668 | 633332 | 636000 | 15.0 |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 13.95 | 13.86 | 13.87 | |
| Channel | | | | 630500 | 633332 | 636166 | 15.0 |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 13.94 | 13.87 | 13.97 | |
| Channel | | | | 630334 | 633332 | 636332 | 15.0 |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 13.86 | 13.95 | 13.93 | |



<FR1 n77_Ant MIMO 2_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | 14.5 |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 14.24 | | 14.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 14.15 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 14.18 | | 14.5 |
| 100 | PI/2 BPSK | 135 | 0 | | 14.14 | | |
| 100 | PI/2 BPSK | 135 | 69 | | 14.15 | | 14.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 14.12 | | |
| 100 | PI/2 BPSK | 270 | 0 | | 14.11 | | 14.5 |
| 100 | QPSK | 1 | 1 | | 14.24 | | |
| 100 | QPSK | 1 | 137 | | 14.21 | | 14.5 |
| 100 | QPSK | 1 | 271 | | 14.18 | | |
| 100 | QPSK | 135 | 0 | | 14.20 | | 14.5 |
| 100 | QPSK | 135 | 69 | | 14.15 | | |
| 100 | QPSK | 135 | 138 | | 14.19 | | 14.5 |
| 100 | QPSK | 270 | 0 | | 14.21 | | |
| 100 | 16QAM | 1 | 1 | | 14.06 | | 14.5 |
| 100 | 64QAM | 1 | 1 | | 14.14 | | |
| 100 | 256QAM | 1 | 1 | | 13.78 | | 14.5 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 14.12 | 14.15 | 14.16 | 14.5 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 14.15 | 14.10 | 14.16 | 14.5 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 14.11 | 14.12 | 14.14 | 14.5 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 14.16 | 14.11 | 14.14 | 14.5 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 14.15 | 14.08 | 14.13 | 14.5 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 14.09 | 14.16 | 14.15 | 14.5 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 14.13 | 14.13 | 14.09 | 14.5 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 14.12 | 14.10 | 14.11 | 14.5 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 14.10 | 14.08 | 14.13 | 14.5 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 14.12 | 14.08 | 14.09 | 14.5 |



<FR1 n77_Ant MIMO 1_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 8.06 | | 9.0 |
| 100 | PI/2 BPSK | 1 | 137 | | 7.98 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 8.05 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 7.99 | | 9.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 8.04 | | 9.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 8.03 | | 9.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 8.00 | | |
| 100 | QPSK | 1 | 1 | | 8.00 | | 9.0 |
| 100 | QPSK | 1 | 137 | | 7.93 | | |
| 100 | QPSK | 1 | 271 | | 8.05 | | |
| 100 | QPSK | 135 | 0 | | 7.99 | | 9.0 |
| 100 | QPSK | 135 | 69 | | 7.97 | | |
| 100 | QPSK | 135 | 138 | | 8.04 | | |
| 100 | QPSK | 270 | 0 | | 8.01 | | 9.0 |
| 100 | 16QAM | 1 | 1 | | 7.98 | | 9.0 |
| 100 | 64QAM | 1 | 1 | | 8.04 | | 9.0 |
| 100 | 256QAM | 1 | 1 | | 7.78 | | 9.0 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 8.00 | 8.04 | 8.01 | 9.0 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 7.80 | 7.89 | 7.81 | 9.0 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 7.84 | 7.86 | 7.85 | 9.0 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 7.89 | 7.89 | 7.83 | 9.0 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 7.80 | 7.84 | 7.83 | 9.0 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 7.83 | 7.90 | 7.82 | 9.0 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 7.90 | 7.93 | 7.82 | 9.0 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 7.80 | 7.94 | 7.91 | 9.0 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 7.83 | 7.84 | 7.91 | 9.0 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 7.87 | 7.86 | 7.88 | 9.0 |



<FR1 n77_Ant Aux_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 17.04 | | 17.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 16.98 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 16.95 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 16.96 | | 17.5 |
| 100 | PI/2 BPSK | 135 | 69 | | 17.01 | | 17.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 16.97 | | 17.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 17.00 | | |
| 100 | QPSK | 1 | 1 | | 16.99 | | 17.5 |
| 100 | QPSK | 1 | 137 | | 16.98 | | |
| 100 | QPSK | 1 | 271 | | 16.98 | | |
| 100 | QPSK | 135 | 0 | | 16.99 | | 17.5 |
| 100 | QPSK | 135 | 69 | | 16.95 | | 17.5 |
| 100 | QPSK | 135 | 138 | | 16.98 | | 17.5 |
| 100 | QPSK | 270 | 0 | | 16.95 | | |
| 100 | 16QAM | 1 | 1 | | 17.00 | | 17.5 |
| 100 | 64QAM | 1 | 1 | | 16.96 | | 17.5 |
| 100 | 256QAM | 1 | 1 | | 16.98 | | 17.5 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 16.98 | 16.92 | 16.96 | 17.5 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 16.93 | 16.96 | 16.92 | 17.5 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 16.91 | 16.90 | 16.91 | 17.5 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 16.95 | 16.98 | 16.93 | 17.5 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 16.95 | 16.91 | 16.95 | 17.5 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 16.91 | 16.94 | 16.96 | 17.5 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 16.95 | 16.95 | 16.94 | 17.5 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 16.96 | 16.91 | 16.91 | 17.5 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 16.95 | 16.95 | 16.91 | 17.5 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 16.96 | 16.95 | 16.92 | 17.5 |



<FR1 n77_HPUE_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 26.30 | | 27.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 26.05 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 26.14 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 26.06 | | 27.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 26.10 | | 27.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 26.08 | | 27.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 26.06 | | |
| 100 | QPSK | 1 | 1 | | 26.10 | | 27.5 |
| 100 | QPSK | 1 | 137 | | 26.08 | | |
| 100 | QPSK | 1 | 271 | | 26.28 | | |
| 100 | QPSK | 135 | 0 | | 26.07 | | 27.5 |
| 100 | QPSK | 135 | 69 | | 26.05 | | |
| 100 | QPSK | 135 | 138 | | 26.03 | | |
| 100 | QPSK | 270 | 0 | | 26.07 | | 26.5 |
| 100 | 16QAM | 1 | 1 | | 25.82 | | 26.5 |
| 100 | 64QAM | 1 | 1 | | 25.05 | | 25.5 |
| 100 | 256QAM | 1 | 1 | | 23.10 | | 23.5 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 26.15 | 26.11 | 26.13 | 27.5 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 26.08 | 26.06 | 26.08 | 27.5 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 26.10 | 26.01 | 26.03 | 27.5 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 26.13 | 26.09 | 26.10 | 27.5 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 26.13 | 26.01 | 26.06 | 27.5 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 26.12 | 26.04 | 26.05 | 27.5 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 26.05 | 26.03 | 26.09 | 27.5 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 26.08 | 26.03 | 26.12 | 27.5 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 26.12 | 26.09 | 26.04 | 27.5 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 26.09 | 26.02 | 26.06 | 27.5 |



<FR1 n77_HPUE_Ant MIMO 2_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 26.28 | | 27.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 26.09 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 26.15 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 25.73 | | 27.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 26.19 | | 27.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 25.56 | | 27.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 25.69 | | |
| 100 | QPSK | 1 | 1 | | 26.27 | | 26.5 |
| 100 | QPSK | 1 | 137 | | 26.22 | | |
| 100 | QPSK | 1 | 271 | | 26.22 | | |
| 100 | QPSK | 135 | 0 | | 25.21 | | 26.5 |
| 100 | QPSK | 135 | 69 | | 26.21 | | |
| 100 | QPSK | 135 | 138 | | 25.07 | | |
| 100 | QPSK | 270 | 0 | | 25.21 | | 26.5 |
| 100 | 16QAM | 1 | 1 | | 25.06 | | 26.5 |
| 100 | 64QAM | 1 | 1 | | 23.63 | | 25.0 |
| 100 | 256QAM | 1 | 1 | | 21.51 | | 23.0 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 26.27 | 26.27 | 26.25 | 27.5 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 26.25 | 26.26 | 26.26 | 27.5 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 26.24 | 26.26 | 26.26 | 27.5 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 26.25 | 26.26 | 26.26 | 27.5 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 26.27 | 26.23 | 26.25 | 27.5 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 26.23 | 26.26 | 26.25 | 27.5 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 26.23 | 26.23 | 26.26 | 27.5 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 26.26 | 26.25 | 26.26 | 27.5 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 26.27 | 26.27 | 26.25 | 27.5 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 26.26 | 26.26 | 26.26 | 27.5 |



<FR1 n77_HPUE_Ant MIMO 1_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 26.31 | | 27.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 26.28 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 26.30 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 26.14 | | 27.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 26.15 | | 27.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 26.14 | | 27.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 26.14 | | |
| 100 | QPSK | 1 | 1 | | 26.23 | | 27.5 |
| 100 | QPSK | 1 | 137 | | 26.25 | | |
| 100 | QPSK | 1 | 271 | | 26.27 | | |
| 100 | QPSK | 135 | 0 | | 26.09 | | 27.5 |
| 100 | QPSK | 135 | 69 | | 26.17 | | |
| 100 | QPSK | 135 | 138 | | 26.27 | | |
| 100 | QPSK | 270 | 0 | | 26.16 | | 26.5 |
| 100 | 16QAM | 1 | 1 | | 25.98 | | 26.5 |
| 100 | 64QAM | 1 | 1 | | 25.09 | | 25.5 |
| 100 | 256QAM | 1 | 1 | | 23.20 | | 23.5 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 25.94 | 25.96 | 25.94 | 27.5 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 25.98 | 26.01 | 25.95 | 27.5 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 25.94 | 25.96 | 26.01 | 27.5 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 26.01 | 25.92 | 25.96 | 27.5 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 25.96 | 25.99 | 26.01 | 27.5 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 25.96 | 25.97 | 25.94 | 27.5 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 25.96 | 25.98 | 25.97 | 27.5 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 25.97 | 25.91 | 25.93 | 27.5 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 26.00 | 25.99 | 25.94 | 27.5 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 25.96 | 25.98 | 25.96 | 27.5 |



<FR1 n77_HPUE_Ant Aux_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 26.59 | | 27.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 26.51 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 26.27 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 26.06 | | 27.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 26.36 | | 27.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 26.02 | | 27.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 26.01 | | |
| 100 | QPSK | 1 | 1 | | 26.58 | | 27.5 |
| 100 | QPSK | 1 | 137 | | 26.42 | | |
| 100 | QPSK | 1 | 271 | | 26.16 | | |
| 100 | QPSK | 135 | 0 | | 25.57 | | 26.5 |
| 100 | QPSK | 135 | 69 | | 26.38 | | 27.5 |
| 100 | QPSK | 135 | 138 | | 25.55 | | 26.5 |
| 100 | QPSK | 270 | 0 | | 25.50 | | |
| 100 | 16QAM | 1 | 1 | | 25.59 | | 26.5 |
| 100 | 64QAM | 1 | 1 | | 24.35 | | 25.0 |
| 100 | 256QAM | 1 | 1 | | 21.64 | | 23.0 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 26.52 | 26.49 | 26.48 | 27.5 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 26.50 | 26.53 | 26.49 | 27.5 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 26.51 | 26.53 | 26.48 | 27.5 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 26.48 | 26.51 | 26.48 | 27.5 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 26.53 | 26.52 | 26.52 | 27.5 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 26.51 | 26.50 | 26.51 | 27.5 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 26.52 | 26.53 | 26.52 | 27.5 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 26.49 | 26.51 | 26.49 | 27.5 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 26.52 | 26.53 | 26.51 | 27.5 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 26.51 | 26.55 | 26.54 | 27.5 |



<FR1 n77_HPUE_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | 18.0 |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 17.15 | | 18.0 |
| 100 | PI/2 BPSK | 1 | 137 | | 17.08 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 17.14 | | 18.0 |
| 100 | PI/2 BPSK | 135 | 0 | | 17.10 | | |
| 100 | PI/2 BPSK | 135 | 69 | | 17.12 | | 18.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 17.09 | | |
| 100 | PI/2 BPSK | 270 | 0 | | 17.10 | | 18.0 |
| 100 | QPSK | 1 | 1 | | 17.07 | | |
| 100 | QPSK | 1 | 137 | | 17.00 | | 18.0 |
| 100 | QPSK | 1 | 271 | | 17.11 | | |
| 100 | QPSK | 135 | 0 | | 17.02 | | 18.0 |
| 100 | QPSK | 135 | 69 | | 17.09 | | |
| 100 | QPSK | 135 | 138 | | 17.10 | | 18.0 |
| 100 | QPSK | 270 | 0 | | 17.12 | | |
| 100 | 16QAM | 1 | 1 | | 17.11 | | 18.0 |
| 100 | 64QAM | 1 | 1 | | 17.08 | | |
| 100 | 256QAM | 1 | 1 | | 16.84 | | 18.0 |
| Channel | | | | 633000 | 633332 | 633666 | 18.0 |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 17.02 | 17.05 | 17.03 | 18.0 |
| Channel | | | | 632668 | 633332 | 634000 | 18.0 |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 17.00 | 17.04 | 17.06 | 18.0 |
| Channel | | | | 632334 | 633332 | 634332 | 18.0 |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 17.03 | 17.07 | 17.06 | 18.0 |
| Channel | | | | 632000 | 633332 | 634666 | 18.0 |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 17.04 | 17.09 | 17.06 | 18.0 |
| Channel | | | | 631668 | 633332 | 635000 | 18.0 |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 17.04 | 17.03 | 17.03 | 18.0 |
| Channel | | | | 631334 | 633332 | 635332 | 18.0 |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 17.04 | 17.07 | 17.03 | 18.0 |
| Channel | | | | 631000 | 633332 | 635666 | 18.0 |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 17.02 | 17.05 | 17.07 | 18.0 |
| Channel | | | | 630668 | 633332 | 636000 | 18.0 |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 17.08 | 17.08 | 17.08 | 18.0 |
| Channel | | | | 630500 | 633332 | 636166 | 18.0 |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 17.07 | 17.01 | 17.00 | 18.0 |
| Channel | | | | 630334 | 633332 | 636332 | 18.0 |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 17.01 | 17.00 | 17.01 | 18.0 |



<FR1 n77_HPUE_Ant MIMO 2_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 17.23 | | 17.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 17.16 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 17.18 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 17.19 | | 17.5 |
| 100 | PI/2 BPSK | 135 | 69 | | 17.21 | | 17.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 17.15 | | 17.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 17.17 | | |
| 100 | QPSK | 1 | 1 | | 17.22 | | 17.5 |
| 100 | QPSK | 1 | 137 | | 17.21 | | |
| 100 | QPSK | 1 | 271 | | 17.18 | | |
| 100 | QPSK | 135 | 0 | | 17.22 | | 17.5 |
| 100 | QPSK | 135 | 69 | | 17.15 | | |
| 100 | QPSK | 135 | 138 | | 17.19 | | |
| 100 | QPSK | 270 | 0 | | 17.21 | | 17.5 |
| 100 | 16QAM | 1 | 1 | | 17.03 | | 17.5 |
| 100 | 64QAM | 1 | 1 | | 17.15 | | 17.5 |
| 100 | 256QAM | 1 | 1 | | 16.78 | | 17.5 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 17.12 | 17.16 | 17.10 | 17.5 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 17.08 | 17.09 | 17.13 | 17.5 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 17.14 | 17.11 | 17.08 | 17.5 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 17.10 | 17.09 | 17.16 | 17.5 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 17.13 | 17.13 | 17.16 | 17.5 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 17.11 | 17.09 | 17.12 | 17.5 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 17.11 | 17.08 | 17.13 | 17.5 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 17.11 | 17.08 | 17.11 | 17.5 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 17.13 | 17.15 | 17.10 | 17.5 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 17.17 | 17.10 | 17.09 | 17.5 |



<FR1 n77_HPUE_Ant MIMO 1_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | 12.0 |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 11.09 | | 12.0 |
| 100 | PI/2 BPSK | 1 | 137 | | 11.07 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 11.08 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 11.02 | | 12.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 11.03 | | 12.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 11.02 | | 12.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 11.01 | | |
| 100 | QPSK | 1 | 1 | | 10.97 | | 12.0 |
| 100 | QPSK | 1 | 137 | | 11.04 | | |
| 100 | QPSK | 1 | 271 | | 11.08 | | |
| 100 | QPSK | 135 | 0 | | 10.97 | | 12.0 |
| 100 | QPSK | 135 | 69 | | 10.98 | | |
| 100 | QPSK | 135 | 138 | | 11.07 | | |
| 100 | QPSK | 270 | 0 | | 10.99 | | 12.0 |
| 100 | 16QAM | 1 | 1 | | 10.94 | | 12.0 |
| 100 | 64QAM | 1 | 1 | | 11.08 | | 12.0 |
| 100 | 256QAM | 1 | 1 | | 10.78 | | 12.0 |
| Channel | | | | 633000 | 633332 | 633666 | 12.0 |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 11.00 | 11.05 | 11.03 | 12.0 |
| Channel | | | | 632668 | 633332 | 634000 | 12.0 |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 10.86 | 10.90 | 10.86 | 12.0 |
| Channel | | | | 632334 | 633332 | 634332 | 12.0 |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 10.83 | 10.95 | 10.89 | 12.0 |
| Channel | | | | 632000 | 633332 | 634666 | 12.0 |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 10.84 | 10.87 | 10.85 | 12.0 |
| Channel | | | | 631668 | 633332 | 635000 | 12.0 |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 10.89 | 10.87 | 10.91 | 12.0 |
| Channel | | | | 631334 | 633332 | 635332 | 12.0 |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 10.81 | 10.91 | 10.93 | 12.0 |
| Channel | | | | 631000 | 633332 | 635666 | 12.0 |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 10.85 | 10.85 | 10.92 | 12.0 |
| Channel | | | | 630668 | 633332 | 636000 | 12.0 |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 10.85 | 10.92 | 10.83 | 12.0 |
| Channel | | | | 630500 | 633332 | 636166 | 12.0 |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 10.88 | 10.92 | 10.83 | 12.0 |
| Channel | | | | 630334 | 633332 | 636332 | 12.0 |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 10.81 | 10.86 | 10.86 | 12.0 |



<FR1 n77_HPUE_Ant Aux_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | 20.5 |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 20.02 | | 20.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 19.97 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 19.97 | | 20.5 |
| 100 | PI/2 BPSK | 135 | 0 | | 19.96 | | |
| 100 | PI/2 BPSK | 135 | 69 | | 19.98 | | 20.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 19.97 | | |
| 100 | PI/2 BPSK | 270 | 0 | | 19.94 | | 20.5 |
| 100 | QPSK | 1 | 1 | | 19.96 | | |
| 100 | QPSK | 1 | 137 | | 19.95 | | 20.5 |
| 100 | QPSK | 1 | 271 | | 19.97 | | |
| 100 | QPSK | 135 | 0 | | 19.98 | | 20.5 |
| 100 | QPSK | 135 | 69 | | 19.96 | | |
| 100 | QPSK | 135 | 138 | | 19.95 | | 20.5 |
| 100 | QPSK | 270 | 0 | | 19.97 | | |
| 100 | 16QAM | 1 | 1 | | 19.98 | | 20.5 |
| 100 | 64QAM | 1 | 1 | | 19.93 | | |
| 100 | 256QAM | 1 | 1 | | 19.97 | | 20.5 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 19.96 | 19.93 | 19.90 | 20.5 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 19.94 | 19.95 | 19.95 | 20.5 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 19.93 | 19.92 | 19.93 | 20.5 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 19.94 | 19.96 | 19.94 | 20.5 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 19.93 | 19.95 | 19.89 | 20.5 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 19.90 | 19.90 | 19.96 | 20.5 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 19.96 | 19.91 | 19.95 | 20.5 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 19.94 | 19.91 | 19.95 | 20.5 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 19.92 | 19.94 | 19.95 | 20.5 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 19.96 | 19.89 | 19.90 | 20.5 |



<FR1 n78_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 650000 | | |
| Frequency (MHz) | | | | | 3750 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 24.37 | | 25.0 |
| 100 | PI/2 BPSK | 1 | 137 | | 24.34 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 24.36 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 24.29 | | 24.5 |
| 100 | PI/2 BPSK | 135 | 69 | | 24.31 | | 25.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 24.28 | | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 24.23 | | |
| 100 | QPSK | 1 | 1 | | 24.32 | | 25.0 |
| 100 | QPSK | 1 | 137 | | 24.25 | | |
| 100 | QPSK | 1 | 271 | | 24.29 | | |
| 100 | QPSK | 135 | 0 | | 23.87 | | 25.0 |
| 100 | QPSK | 135 | 69 | | 24.23 | | |
| 100 | QPSK | 135 | 138 | | 23.84 | | |
| 100 | QPSK | 270 | 0 | | 23.82 | | 24.0 |
| 100 | 16QAM | 1 | 1 | | 23.98 | | 24.0 |
| 100 | 64QAM | 1 | 1 | | 22.33 | | 22.5 |
| 100 | 256QAM | 1 | 1 | | 20.28 | | 20.5 |
| Channel | | | | 649668 | 650000 | 650332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3750 | 3754.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 24.29 | 24.27 | 24.33 | 25.0 |
| Channel | | | | 649334 | 650000 | 650666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3750 | 3759.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 24.27 | 24.19 | 24.27 | 25.0 |
| Channel | | | | 649000 | 650000 | 651000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3750 | 3765 | |
| 70 | PI/2 BPSK | 1 | 1 | 24.29 | 24.22 | 24.25 | 25.0 |
| Channel | | | | 648668 | 650000 | 651332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3750 | 3769.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 24.25 | 24.26 | 24.31 | 25.0 |
| Channel | | | | 648334 | 650000 | 651666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3750 | 3774.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 24.20 | 24.18 | 24.29 | 25.0 |
| Channel | | | | 648000 | 650000 | 652000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3750 | 3780 | |
| 40 | PI/2 BPSK | 1 | 1 | 24.25 | 24.17 | 24.26 | 25.0 |
| Channel | | | | 647668 | 650000 | 652332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3750.00 | 3784.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 24.19 | 24.17 | 24.27 | 25.0 |
| Channel | | | | 647334 | 650000 | 652666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3750 | 3789.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 24.25 | 24.25 | 24.26 | 25.0 |
| Channel | | | | 647168 | 650000 | 652832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3750 | 3792.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 24.20 | 24.18 | 24.24 | 25.0 |
| Channel | | | | 647000 | 650000 | 653000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3750 | 3795 | |
| 10 | PI/2 BPSK | 1 | 1 | 24.26 | 24.25 | 24.25 | 25.0 |



<FR1 n78_Ant MIMO 2_Sensor OFF>

| Channel | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | 650000 | | |
| Frequency (MHz) | | 3750 | | |
| 100 | PI/2 BPSK | 1 | 1 | 23.51 |
| 100 | PI/2 BPSK | 1 | 137 | 23.43 |
| 100 | PI/2 BPSK | 1 | 271 | 23.35 |
| 100 | PI/2 BPSK | 135 | 0 | 22.96 |
| 100 | PI/2 BPSK | 135 | 69 | 23.36 |
| 100 | PI/2 BPSK | 135 | 138 | 22.77 |
| 100 | PI/2 BPSK | 270 | 0 | 22.88 |
| 100 | QPSK | 1 | 1 | 23.46 |
| 100 | QPSK | 1 | 137 | 23.44 |
| 100 | QPSK | 1 | 271 | 23.42 |
| 100 | QPSK | 135 | 0 | 22.35 |
| 100 | QPSK | 135 | 69 | 23.35 |
| 100 | QPSK | 135 | 138 | 22.24 |
| 100 | QPSK | 270 | 0 | 22.33 |
| 100 | 16QAM | 1 | 1 | 22.20 |
| 100 | 64QAM | 1 | 1 | 20.89 |
| 100 | 256QAM | 1 | 1 | 18.66 |
| Channel | 649668 | 650000 | 650332 | Tune-up limit (dBm) |
| Frequency (MHz) | 3745.02 | 3750 | 3754.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 23.46 |
| Channel | 649334 | 650000 | 650666 | Tune-up limit (dBm) |
| Frequency (MHz) | 3740.01 | 3750 | 3759.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 23.40 |
| Channel | 649000 | 650000 | 651000 | Tune-up limit (dBm) |
| Frequency (MHz) | 3735 | 3750 | 3765 | |
| 70 | PI/2 BPSK | 1 | 1 | 23.39 |
| Channel | 648668 | 650000 | 651332 | Tune-up limit (dBm) |
| Frequency (MHz) | 3730.02 | 3750 | 3769.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 23.42 |
| Channel | 648334 | 650000 | 651666 | Tune-up limit (dBm) |
| Frequency (MHz) | 3725.01 | 3750 | 3774.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 23.44 |
| Channel | 648000 | 650000 | 652000 | Tune-up limit (dBm) |
| Frequency (MHz) | 3720 | 3750 | 3780 | |
| 40 | PI/2 BPSK | 1 | 1 | 23.42 |
| Channel | 647668 | 650000 | 652332 | Tune-up limit (dBm) |
| Frequency (MHz) | 3715.02 | 3750.00 | 3784.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.38 |
| Channel | 647334 | 650000 | 652666 | Tune-up limit (dBm) |
| Frequency (MHz) | 3710.01 | 3750 | 3789.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.40 |
| Channel | 647168 | 24 | 652832 | Tune-up limit (dBm) |
| Frequency (MHz) | 3707.52 | -5999.6355 | 3792.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.41 |
| Channel | 647000 | 650000 | 653000 | Tune-up limit (dBm) |
| Frequency (MHz) | 3705 | 3750 | 3795 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.42 |



<FR1 n78_Ant MIMO 1_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 650000 | | 25.0 |
| Frequency (MHz) | | | | | 3750 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 24.23 | | |
| 100 | PI/2 BPSK | 1 | 137 | | 24.22 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 24.20 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 24.16 | | 24.5 |
| 100 | PI/2 BPSK | 135 | 69 | | 24.21 | | 25.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 24.16 | | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 24.20 | | |
| 100 | QPSK | 1 | 1 | | 24.14 | | 25.0 |
| 100 | QPSK | 1 | 137 | | 24.22 | | |
| 100 | QPSK | 1 | 271 | | 24.18 | | |
| 100 | QPSK | 135 | 0 | | 24.13 | | 25.0 |
| 100 | QPSK | 135 | 69 | | 24.22 | | |
| 100 | QPSK | 135 | 138 | | 24.13 | | |
| 100 | QPSK | 270 | 0 | | 24.00 | | 24.0 |
| 100 | 16QAM | 1 | 1 | | 24.00 | | 24.0 |
| 100 | 64QAM | 1 | 1 | | 22.81 | | 23.0 |
| 100 | 256QAM | 1 | 1 | | 20.63 | | 21.0 |
| Channel | | | | 649668 | 650000 | 650332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3750 | 3754.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 24.06 | 24.00 | 24.03 | 25.0 |
| Channel | | | | 649334 | 650000 | 650666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3750 | 3759.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 23.99 | 24.00 | 24.08 | 25.0 |
| Channel | | | | 649000 | 650000 | 651000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3750 | 3765 | |
| 70 | PI/2 BPSK | 1 | 1 | 24.01 | 24.02 | 24.01 | 25.0 |
| Channel | | | | 648668 | 650000 | 651332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3750 | 3769.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 23.99 | 23.99 | 24.01 | 25.0 |
| Channel | | | | 648334 | 650000 | 651666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3750 | 3774.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 24.08 | 24.02 | 24.02 | 25.0 |
| Channel | | | | 648000 | 650000 | 652000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3750 | 3780 | |
| 40 | PI/2 BPSK | 1 | 1 | 24.04 | 24.01 | 23.99 | 25.0 |
| Channel | | | | 647668 | 650000 | 652332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3750.00 | 3784.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 24.06 | 24.01 | 24.01 | 25.0 |
| Channel | | | | 647334 | 650000 | 652666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3750 | 3789.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 24.07 | 24.00 | 24.01 | 25.0 |
| Channel | | | | 647168 | 650000 | 652832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3750 | 3792.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 24.08 | 24.02 | 24.04 | 25.0 |
| Channel | | | | 647000 | 650000 | 653000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3750 | 3795 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.98 | 24.05 | 24.08 | 25.0 |



<FR1 n78_Ant Aux_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 650000 | | 25.0 |
| Frequency (MHz) | | | | | 3750 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 23.56 | | |
| 100 | PI/2 BPSK | 1 | 137 | | 23.53 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 23.55 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 22.87 | | 24.5 |
| 100 | PI/2 BPSK | 135 | 69 | | 23.42 | | 25.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 22.90 | | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 22.91 | | |
| 100 | QPSK | 1 | 1 | | 23.51 | | 25.0 |
| 100 | QPSK | 1 | 137 | | 23.42 | | |
| 100 | QPSK | 1 | 271 | | 23.52 | | |
| 100 | QPSK | 135 | 0 | | 22.39 | | 24.0 |
| 100 | QPSK | 135 | 69 | | 23.41 | | 25.0 |
| 100 | QPSK | 135 | 138 | | 22.40 | | 24.0 |
| 100 | QPSK | 270 | 0 | | 22.36 | | |
| 100 | 16QAM | 1 | 1 | | 22.49 | | 24.0 |
| 100 | 64QAM | 1 | 1 | | 21.24 | | 22.5 |
| 100 | 256QAM | 1 | 1 | | 18.93 | | 20.5 |
| Channel | | | | 649668 | 650000 | 650332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3750 | 3754.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 23.42 | 23.45 | 23.44 | 25.0 |
| Channel | | | | 649334 | 650000 | 650666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3750 | 3759.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 23.35 | 23.42 | 23.36 | 25.0 |
| Channel | | | | 649000 | 650000 | 651000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3750 | 3765 | |
| 70 | PI/2 BPSK | 1 | 1 | 23.39 | 23.39 | 23.35 | 25.0 |
| Channel | | | | 648668 | 650000 | 651332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3750 | 3769.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 23.39 | 23.39 | 23.36 | 25.0 |
| Channel | | | | 648334 | 650000 | 651666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3750 | 3774.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 23.36 | 23.35 | 23.40 | 25.0 |
| Channel | | | | 648000 | 650000 | 652000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3750 | 3780 | |
| 40 | PI/2 BPSK | 1 | 1 | 23.34 | 23.45 | 23.40 | 25.0 |
| Channel | | | | 647668 | 650000 | 652332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3750.00 | 3784.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.37 | 23.35 | 23.35 | 25.0 |
| Channel | | | | 647334 | 650000 | 652666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3750 | 3789.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.42 | 23.38 | 23.34 | 25.0 |
| Channel | | | | 647168 | 650000 | 652832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3750 | 3792.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.35 | 23.37 | 23.43 | 25.0 |
| Channel | | | | 647000 | 650000 | 653000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3750 | 3795 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.38 | 23.44 | 23.36 | 25.0 |



<FR1 n78_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 650000 | | 15.0 |
| Frequency (MHz) | | | | | 3750 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 14.20 | | |
| 100 | PI/2 BPSK | 1 | 137 | | 14.17 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 14.15 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 14.12 | | 15.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 14.17 | | 15.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 14.08 | | 15.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 14.13 | | |
| 100 | QPSK | 1 | 1 | | 14.14 | | 15.0 |
| 100 | QPSK | 1 | 137 | | 14.16 | | |
| 100 | QPSK | 1 | 271 | | 14.13 | | |
| 100 | QPSK | 135 | 0 | | 14.12 | | 15.0 |
| 100 | QPSK | 135 | 69 | | 14.16 | | |
| 100 | QPSK | 135 | 138 | | 14.05 | | |
| 100 | QPSK | 270 | 0 | | 14.13 | | 15.0 |
| 100 | 16QAM | 1 | 1 | | 14.19 | | 15.0 |
| 100 | 64QAM | 1 | 1 | | 14.18 | | 15.0 |
| 100 | 256QAM | 1 | 1 | | 13.96 | | 14.5 |
| Channel | | | | 649668 | 650000 | 650332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3750 | 3754.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 14.12 | 14.07 | 14.13 | 15.0 |
| Channel | | | | 649334 | 650000 | 650666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3750 | 3759.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 14.04 | 14.06 | 14.06 | 15.0 |
| Channel | | | | 649000 | 650000 | 651000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3750 | 3765 | |
| 70 | PI/2 BPSK | 1 | 1 | 14.06 | 14.06 | 14.06 | 15.0 |
| Channel | | | | 648668 | 650000 | 651332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3750 | 3769.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 14.11 | 14.11 | 14.13 | 15.0 |
| Channel | | | | 648334 | 650000 | 651666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3750 | 3774.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 14.04 | 14.05 | 14.12 | 15.0 |
| Channel | | | | 648000 | 650000 | 652000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3750 | 3780 | |
| 40 | PI/2 BPSK | 1 | 1 | 14.12 | 14.13 | 14.13 | 15.0 |
| Channel | | | | 647668 | 650000 | 652332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3750.00 | 3784.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 14.08 | 14.12 | 14.05 | 15.0 |
| Channel | | | | 647334 | 650000 | 652666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3750 | 3789.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 14.11 | 14.11 | 14.12 | 15.0 |
| Channel | | | | 647168 | 650000 | 652832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3750 | 3792.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 14.11 | 14.13 | 14.08 | 15.0 |
| Channel | | | | 647000 | 650000 | 653000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3750 | 3795 | |
| 10 | PI/2 BPSK | 1 | 1 | 14.13 | 14.08 | 14.14 | 15.0 |



<FR1 n78_Ant MIMO 2_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 650000 | | |
| Frequency (MHz) | | | | | 3750 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 13.92 | | 14.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 13.81 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 13.87 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 13.84 | | 14.5 |
| 100 | PI/2 BPSK | 135 | 69 | | 13.85 | | 14.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 13.73 | | 14.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 13.85 | | |
| 100 | QPSK | 1 | 1 | | 13.73 | | 14.5 |
| 100 | QPSK | 1 | 137 | | 13.81 | | |
| 100 | QPSK | 1 | 271 | | 13.90 | | |
| 100 | QPSK | 135 | 0 | | 13.83 | | 14.5 |
| 100 | QPSK | 135 | 69 | | 13.85 | | |
| 100 | QPSK | 135 | 138 | | 13.78 | | |
| 100 | QPSK | 270 | 0 | | 13.81 | | 14.5 |
| 100 | 16QAM | 1 | 1 | | 13.76 | | 14.5 |
| 100 | 64QAM | 1 | 1 | | 13.86 | | 14.5 |
| 100 | 256QAM | 1 | 1 | | 13.55 | | 14.5 |
| Channel | | | | 649668 | 650000 | 650332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3750 | 3754.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 13.88 | 13.91 | 13.85 | 14.5 |
| Channel | | | | 649334 | 650000 | 650666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3750 | 3759.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 13.72 | 13.78 | 13.72 | 14.5 |
| Channel | | | | 649000 | 650000 | 651000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3750 | 3765 | |
| 70 | PI/2 BPSK | 1 | 1 | 13.77 | 13.72 | 13.72 | 14.5 |
| Channel | | | | 648668 | 650000 | 651332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3750 | 3769.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 13.70 | 13.77 | 13.65 | 14.5 |
| Channel | | | | 648334 | 650000 | 651666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3750 | 3774.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 13.75 | 13.80 | 13.65 | 14.5 |
| Channel | | | | 648000 | 650000 | 652000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3750 | 3780 | |
| 40 | PI/2 BPSK | 1 | 1 | 13.77 | 13.81 | 13.72 | 14.5 |
| Channel | | | | 647668 | 650000 | 652332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3750.00 | 3784.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 13.71 | 13.76 | 13.70 | 14.5 |
| Channel | | | | 647334 | 650000 | 652666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3750 | 3789.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 13.74 | 13.74 | 13.73 | 14.5 |
| Channel | | | | 647168 | 24 | 652832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | -5999.6355 | 3792.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 13.71 | 13.73 | 13.72 | 14.5 |
| Channel | | | | 647000 | 650000 | 653000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3750 | 3795 | |
| 10 | PI/2 BPSK | 1 | 1 | 13.71 | 13.71 | 13.67 | 14.5 |



<FR1 n78_Ant MIMO 1_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 650000 | | 9.0 |
| Frequency (MHz) | | | | | 3750 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 8.06 | | 9.0 |
| 100 | PI/2 BPSK | 1 | 137 | | 8.00 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 8.01 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 7.99 | | 9.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 8.04 | | 9.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 8.03 | | 9.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 8.02 | | |
| 100 | QPSK | 1 | 1 | | 7.92 | | 9.0 |
| 100 | QPSK | 1 | 137 | | 8.00 | | |
| 100 | QPSK | 1 | 271 | | 7.98 | | |
| 100 | QPSK | 135 | 0 | | 7.98 | | 9.0 |
| 100 | QPSK | 135 | 69 | | 8.02 | | |
| 100 | QPSK | 135 | 138 | | 8.00 | | |
| 100 | QPSK | 270 | 0 | | 7.98 | | 9.0 |
| 100 | 16QAM | 1 | 1 | | 8.05 | | 9.0 |
| 100 | 64QAM | 1 | 1 | | 8.05 | | 9.0 |
| 100 | 256QAM | 1 | 1 | | 7.67 | | 9.0 |
| Channel | | | | 649668 | 650000 | 650332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3750 | 3754.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 8.00 | 8.04 | 8.01 | 9.0 |
| Channel | | | | 649334 | 650000 | 650666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3750 | 3759.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 7.87 | 7.95 | 7.90 | 9.0 |
| Channel | | | | 649000 | 650000 | 651000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3750 | 3765 | |
| 70 | PI/2 BPSK | 1 | 1 | 7.89 | 7.92 | 7.89 | 9.0 |
| Channel | | | | 648668 | 650000 | 651332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3750 | 3769.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 7.91 | 7.93 | 7.92 | 9.0 |
| Channel | | | | 648334 | 650000 | 651666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3750 | 3774.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 7.91 | 7.95 | 7.89 | 9.0 |
| Channel | | | | 648000 | 650000 | 652000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3750 | 3780 | |
| 40 | PI/2 BPSK | 1 | 1 | 7.87 | 7.92 | 7.88 | 9.0 |
| Channel | | | | 647668 | 650000 | 652332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3750.00 | 3784.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 7.89 | 7.91 | 7.92 | 9.0 |
| Channel | | | | 647334 | 650000 | 652666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3750 | 3789.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 7.90 | 7.93 | 7.92 | 9.0 |
| Channel | | | | 647168 | 650000 | 652832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3750 | 3792.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 7.87 | 7.91 | 7.91 | 9.0 |
| Channel | | | | 647000 | 650000 | 653000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3750 | 3795 | |
| 10 | PI/2 BPSK | 1 | 1 | 7.88 | 7.92 | 7.88 | 9.0 |



<FR1 n78_Ant Aux_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 650000 | | |
| Frequency (MHz) | | | | | 3750 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 16.56 | | 17.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 16.40 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 16.46 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 16.49 | | 17.5 |
| 100 | PI/2 BPSK | 135 | 69 | | 16.47 | | 17.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 16.47 | | 17.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 16.46 | | |
| 100 | QPSK | 1 | 1 | | 16.47 | | 17.5 |
| 100 | QPSK | 1 | 137 | | 16.41 | | |
| 100 | QPSK | 1 | 271 | | 16.44 | | |
| 100 | QPSK | 135 | 0 | | 16.47 | | 17.5 |
| 100 | QPSK | 135 | 69 | | 16.48 | | 17.5 |
| 100 | QPSK | 135 | 138 | | 16.47 | | 17.5 |
| 100 | QPSK | 270 | 0 | | 16.38 | | |
| 100 | 16QAM | 1 | 1 | | 16.44 | | 17.5 |
| 100 | 64QAM | 1 | 1 | | 16.47 | | 17.5 |
| 100 | 256QAM | 1 | 1 | | 16.42 | | 17.5 |
| Channel | | | | 649668 | 650000 | 650332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3750 | 3754.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 16.46 | 16.45 | 16.48 | 17.5 |
| Channel | | | | 649334 | 650000 | 650666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3750 | 3759.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 16.42 | 16.43 | 16.49 | 17.5 |
| Channel | | | | 649000 | 650000 | 651000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3750 | 3765 | |
| 70 | PI/2 BPSK | 1 | 1 | 16.49 | 16.46 | 16.44 | 17.5 |
| Channel | | | | 648668 | 650000 | 651332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3750 | 3769.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 16.45 | 16.43 | 16.46 | 17.5 |
| Channel | | | | 648334 | 650000 | 651666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3750 | 3774.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 16.45 | 16.45 | 16.47 | 17.5 |
| Channel | | | | 648000 | 650000 | 652000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3750 | 3780 | |
| 40 | PI/2 BPSK | 1 | 1 | 16.47 | 16.47 | 16.45 | 17.5 |
| Channel | | | | 647668 | 650000 | 652332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3750.00 | 3784.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 16.46 | 16.49 | 16.48 | 17.5 |
| Channel | | | | 647334 | 650000 | 652666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3750 | 3789.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 16.43 | 16.44 | 16.49 | 17.5 |
| Channel | | | | 647168 | 650000 | 652832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3750 | 3792.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 16.48 | 16.49 | 16.50 | 17.5 |
| Channel | | | | 647000 | 650000 | 653000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3750 | 3795 | |
| 10 | PI/2 BPSK | 1 | 1 | 16.44 | 16.46 | 16.47 | 17.5 |



<FR1 n78_HPUE_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 650000 | | |
| Frequency (MHz) | | | | | 3750 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 27.35 | | 27.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 27.28 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 27.32 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 26.89 | | 27.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 27.32 | | 27.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 26.84 | | 27.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 26.93 | | |
| 100 | QPSK | 1 | 1 | | 27.26 | | 27.5 |
| 100 | QPSK | 1 | 137 | | 27.30 | | |
| 100 | QPSK | 1 | 271 | | 27.31 | | |
| 100 | QPSK | 135 | 0 | | 26.39 | | 27.5 |
| 100 | QPSK | 135 | 69 | | 27.31 | | |
| 100 | QPSK | 135 | 138 | | 26.33 | | |
| 100 | QPSK | 270 | 0 | | 26.41 | | 26.5 |
| 100 | 16QAM | 1 | 1 | | 26.29 | | 26.5 |
| 100 | 64QAM | 1 | 1 | | 24.66 | | 25.0 |
| 100 | 256QAM | 1 | 1 | | 22.81 | | 23.0 |
| Channel | | | | 649668 | 650000 | 650332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3750 | 3754.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 27.25 | 27.28 | 27.29 | 27.5 |
| Channel | | | | 649334 | 650000 | 650666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3750 | 3759.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 27.22 | 27.20 | 27.22 | 27.5 |
| Channel | | | | 649000 | 650000 | 651000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3750 | 3765 | |
| 70 | PI/2 BPSK | 1 | 1 | 27.24 | 27.25 | 27.21 | 27.5 |
| Channel | | | | 648668 | 650000 | 651332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3750 | 3769.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 27.21 | 27.27 | 27.20 | 27.5 |
| Channel | | | | 648334 | 650000 | 651666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3750 | 3774.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 27.17 | 27.26 | 27.26 | 27.5 |
| Channel | | | | 648000 | 650000 | 652000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3750 | 3780 | |
| 40 | PI/2 BPSK | 1 | 1 | 27.17 | 27.24 | 27.23 | 27.5 |
| Channel | | | | 647668 | 650000 | 652332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3750.00 | 3784.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 27.15 | 27.20 | 27.29 | 27.5 |
| Channel | | | | 647334 | 650000 | 652666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3750 | 3789.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 27.19 | 27.28 | 27.22 | 27.5 |
| Channel | | | | 647168 | 650000 | 652832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3750 | 3792.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 27.16 | 27.22 | 27.19 | 27.5 |
| Channel | | | | 647000 | 650000 | 653000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3750 | 3795 | |
| 10 | PI/2 BPSK | 1 | 1 | 27.23 | 27.24 | 27.21 | 27.5 |



<FR1 n78_HPUE_Ant MIMO 2_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 650000 | | |
| Frequency (MHz) | | | | | 3750 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 26.15 | | 27.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 26.10 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 25.97 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 25.50 | | 27.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 25.94 | | 27.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 25.44 | | 27.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 25.41 | | |
| 100 | QPSK | 1 | 1 | | 26.10 | | 26.5 |
| 100 | QPSK | 1 | 137 | | 26.11 | | |
| 100 | QPSK | 1 | 271 | | 25.97 | | |
| 100 | QPSK | 135 | 0 | | 25.01 | | 26.5 |
| 100 | QPSK | 135 | 69 | | 25.90 | | |
| 100 | QPSK | 135 | 138 | | 24.93 | | |
| 100 | QPSK | 270 | 0 | | 24.94 | | 26.5 |
| 100 | 16QAM | 1 | 1 | | 25.22 | | 26.5 |
| 100 | 64QAM | 1 | 1 | | 23.41 | | 25.0 |
| 100 | 256QAM | 1 | 1 | | 21.62 | | 23.0 |
| Channel | | | | 649668 | 650000 | 650332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3750 | 3754.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 25.96 | 26.05 | 25.95 | 27.5 |
| Channel | | | | 649334 | 650000 | 650666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3750 | 3759.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 26.03 | 25.98 | 25.99 | 27.5 |
| Channel | | | | 649000 | 650000 | 651000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3750 | 3765 | |
| 70 | PI/2 BPSK | 1 | 1 | 26.05 | 26.04 | 26.01 | 27.5 |
| Channel | | | | 648668 | 650000 | 651332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3750 | 3769.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 25.99 | 26.05 | 26.01 | 27.5 |
| Channel | | | | 648334 | 650000 | 651666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3750 | 3774.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 25.96 | 26.05 | 26.01 | 27.5 |
| Channel | | | | 648000 | 650000 | 652000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3750 | 3780 | |
| 40 | PI/2 BPSK | 1 | 1 | 25.96 | 25.99 | 26.05 | 27.5 |
| Channel | | | | 647668 | 650000 | 652332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3750.00 | 3784.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 25.96 | 26.01 | 26.03 | 27.5 |
| Channel | | | | 647334 | 650000 | 652666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3750 | 3789.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 26.03 | 26.03 | 26.00 | 27.5 |
| Channel | | | | 647168 | 650000 | 652832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3750 | 3792.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 25.99 | 26.02 | 26.04 | 27.5 |
| Channel | | | | 647000 | 650000 | 653000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3750 | 3795 | |
| 10 | PI/2 BPSK | 1 | 1 | 26.05 | 25.95 | 25.99 | 27.5 |



<FR1 n78_HPUE_Ant MIMO 1_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 650000 | | |
| Frequency (MHz) | | | | | 3750 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 26.41 | | 27.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 26.30 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 26.27 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 26.31 | | 27.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 26.32 | | 27.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 26.27 | | 27.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 26.28 | | |
| 100 | QPSK | 1 | 1 | | 26.38 | | 27.5 |
| 100 | QPSK | 1 | 137 | | 26.34 | | |
| 100 | QPSK | 1 | 271 | | 26.31 | | |
| 100 | QPSK | 135 | 0 | | 26.29 | | 27.5 |
| 100 | QPSK | 135 | 69 | | 26.25 | | |
| 100 | QPSK | 135 | 138 | | 26.25 | | |
| 100 | QPSK | 270 | 0 | | 26.25 | | 26.5 |
| 100 | 16QAM | 1 | 1 | | 26.28 | | 26.5 |
| 100 | 64QAM | 1 | 1 | | 25.37 | | 25.5 |
| 100 | 256QAM | 1 | 1 | | 23.17 | | 23.5 |
| Channel | | | | 649668 | 650000 | 650332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3750 | 3754.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 26.28 | 26.27 | 26.30 | 27.5 |
| Channel | | | | 649334 | 650000 | 650666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3750 | 3759.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 26.27 | 26.26 | 26.22 | 27.5 |
| Channel | | | | 649000 | 650000 | 651000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3750 | 3765 | |
| 70 | PI/2 BPSK | 1 | 1 | 26.28 | 26.24 | 26.28 | 27.5 |
| Channel | | | | 648668 | 650000 | 651332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3750 | 3769.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 26.24 | 26.28 | 26.22 | 27.5 |
| Channel | | | | 648334 | 650000 | 651666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3750 | 3774.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 26.24 | 26.26 | 26.23 | 27.5 |
| Channel | | | | 648000 | 650000 | 652000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3750 | 3780 | |
| 40 | PI/2 BPSK | 1 | 1 | 26.23 | 26.28 | 26.23 | 27.5 |
| Channel | | | | 647668 | 650000 | 652332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3750.00 | 3784.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 26.31 | 26.23 | 26.26 | 27.5 |
| Channel | | | | 647334 | 650000 | 652666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3750 | 3789.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 26.21 | 26.26 | 26.28 | 27.5 |
| Channel | | | | 647168 | 650000 | 652832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3750 | 3792.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 26.26 | 26.31 | 26.25 | 27.5 |
| Channel | | | | 647000 | 650000 | 653000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3750 | 3795 | |
| 10 | PI/2 BPSK | 1 | 1 | 26.22 | 26.31 | 26.25 | 27.5 |



<FR1 n78_HPUE_Ant Aux_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 650000 | | |
| Frequency (MHz) | | | | | 3750 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 26.03 | | 27.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 25.92 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 26.02 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 25.47 | | 27.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 25.91 | | 27.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 25.50 | | 27.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 25.51 | | |
| 100 | QPSK | 1 | 1 | | 25.82 | | 27.5 |
| 100 | QPSK | 1 | 137 | | 25.88 | | |
| 100 | QPSK | 1 | 271 | | 25.86 | | |
| 100 | QPSK | 135 | 0 | | 24.99 | | 26.5 |
| 100 | QPSK | 135 | 69 | | 25.90 | | 27.5 |
| 100 | QPSK | 135 | 138 | | 25.00 | | 26.5 |
| 100 | QPSK | 270 | 0 | | 24.99 | | |
| 100 | 16QAM | 1 | 1 | | 24.94 | | 26.5 |
| 100 | 64QAM | 1 | 1 | | 23.45 | | 25.0 |
| 100 | 256QAM | 1 | 1 | | 21.63 | | 23.0 |
| Channel | | | | 649668 | 650000 | 650332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3750 | 3754.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 25.96 | 25.97 | 25.96 | 27.5 |
| Channel | | | | 649334 | 650000 | 650666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3750 | 3759.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 25.88 | 25.94 | 25.95 | 27.5 |
| Channel | | | | 649000 | 650000 | 651000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3750 | 3765 | |
| 70 | PI/2 BPSK | 1 | 1 | 25.91 | 25.88 | 25.92 | 27.5 |
| Channel | | | | 648668 | 650000 | 651332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3750 | 3769.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 25.91 | 25.96 | 25.91 | 27.5 |
| Channel | | | | 648334 | 650000 | 651666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3750 | 3774.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 25.94 | 25.92 | 25.93 | 27.5 |
| Channel | | | | 648000 | 650000 | 652000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3750 | 3780 | |
| 40 | PI/2 BPSK | 1 | 1 | 25.93 | 25.94 | 25.94 | 27.5 |
| Channel | | | | 647668 | 650000 | 652332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3750.00 | 3784.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 25.92 | 25.92 | 25.87 | 27.5 |
| Channel | | | | 647334 | 650000 | 652666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3750 | 3789.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 25.87 | 25.93 | 25.87 | 27.5 |
| Channel | | | | 647168 | 650000 | 652832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3750 | 3792.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 25.94 | 25.87 | 25.95 | 27.5 |
| Channel | | | | 647000 | 650000 | 653000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3750 | 3795 | |
| 10 | PI/2 BPSK | 1 | 1 | 25.91 | 25.95 | 25.89 | 27.5 |



<FR1 n78_HPUE_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 650000 | | |
| Frequency (MHz) | | | | | 3750 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 17.26 | | 18.0 |
| 100 | PI/2 BPSK | 1 | 137 | | 17.22 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 17.18 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 17.17 | | 18.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 17.19 | | 18.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 17.05 | | 18.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 17.12 | | |
| 100 | QPSK | 1 | 1 | | 17.24 | | 18.0 |
| 100 | QPSK | 1 | 137 | | 17.18 | | |
| 100 | QPSK | 1 | 271 | | 17.19 | | |
| 100 | QPSK | 135 | 0 | | 17.15 | | 18.0 |
| 100 | QPSK | 135 | 69 | | 17.16 | | |
| 100 | QPSK | 135 | 138 | | 17.08 | | |
| 100 | QPSK | 270 | 0 | | 17.17 | | 18.0 |
| 100 | 16QAM | 1 | 1 | | 17.14 | | 18.0 |
| 100 | 64QAM | 1 | 1 | | 17.25 | | 18.0 |
| 100 | 256QAM | 1 | 1 | | 17.01 | | 17.5 |
| Channel | | | | 649668 | 650000 | 650332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3750 | 3754.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 17.13 | 17.19 | 17.12 | 18.0 |
| Channel | | | | 649334 | 650000 | 650666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3750 | 3759.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 17.15 | 17.20 | 17.13 | 18.0 |
| Channel | | | | 649000 | 650000 | 651000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3750 | 3765 | |
| 70 | PI/2 BPSK | 1 | 1 | 17.16 | 17.11 | 17.16 | 18.0 |
| Channel | | | | 648668 | 650000 | 651332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3750 | 3769.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 17.13 | 17.17 | 17.12 | 18.0 |
| Channel | | | | 648334 | 650000 | 651666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3750 | 3774.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 17.12 | 17.17 | 17.20 | 18.0 |
| Channel | | | | 648000 | 650000 | 652000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3750 | 3780 | |
| 40 | PI/2 BPSK | 1 | 1 | 17.12 | 17.11 | 17.19 | 18.0 |
| Channel | | | | 647668 | 650000 | 652332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3750.00 | 3784.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 17.20 | 17.15 | 17.11 | 18.0 |
| Channel | | | | 647334 | 650000 | 652666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3750 | 3789.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 17.11 | 17.12 | 17.12 | 18.0 |
| Channel | | | | 647168 | 650000 | 652832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3750 | 3792.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 17.12 | 17.18 | 17.17 | 18.0 |
| Channel | | | | 647000 | 650000 | 653000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3750 | 3795 | |
| 10 | PI/2 BPSK | 1 | 1 | 17.18 | 17.11 | 17.18 | 18.0 |



<FR1 n78_HPUE_Ant MIMO 2_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 650000 | | |
| Frequency (MHz) | | | | | 3750 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 16.88 | | 17.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 16.84 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 16.87 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 16.75 | | 17.5 |
| 100 | PI/2 BPSK | 135 | 69 | | 16.80 | | 17.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 16.81 | | 17.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 16.74 | | |
| 100 | QPSK | 1 | 1 | | 16.76 | | 17.5 |
| 100 | QPSK | 1 | 137 | | 16.86 | | |
| 100 | QPSK | 1 | 271 | | 16.86 | | |
| 100 | QPSK | 135 | 0 | | 16.74 | | 17.5 |
| 100 | QPSK | 135 | 69 | | 16.84 | | |
| 100 | QPSK | 135 | 138 | | 16.73 | | |
| 100 | QPSK | 270 | 0 | | 16.85 | | 17.5 |
| 100 | 16QAM | 1 | 1 | | 16.52 | | 17.5 |
| 100 | 64QAM | 1 | 1 | | 16.87 | | 17.5 |
| 100 | 256QAM | 1 | 1 | | 16.73 | | 17.5 |
| Channel | | | | 649668 | 650000 | 650332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3750 | 3754.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 16.85 | 16.87 | 16.82 | 17.5 |
| Channel | | | | 649334 | 650000 | 650666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3750 | 3759.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 16.73 | 16.76 | 16.72 | 17.5 |
| Channel | | | | 649000 | 650000 | 651000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3750 | 3765 | |
| 70 | PI/2 BPSK | 1 | 1 | 16.70 | 16.70 | 16.67 | 17.5 |
| Channel | | | | 648668 | 650000 | 651332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3750 | 3769.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 16.65 | 16.73 | 16.67 | 17.5 |
| Channel | | | | 648334 | 650000 | 651666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3750 | 3774.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 16.70 | 16.69 | 16.65 | 17.5 |
| Channel | | | | 648000 | 650000 | 652000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3750 | 3780 | |
| 40 | PI/2 BPSK | 1 | 1 | 16.68 | 16.75 | 16.71 | 17.5 |
| Channel | | | | 647668 | 650000 | 652332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3750.00 | 3784.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 16.65 | 16.74 | 16.67 | 17.5 |
| Channel | | | | 647334 | 650000 | 652666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3750 | 3789.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 16.68 | 16.74 | 16.67 | 17.5 |
| Channel | | | | 647168 | 650000 | 652832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3750 | 3792.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 16.67 | 16.72 | 16.63 | 17.5 |
| Channel | | | | 647000 | 650000 | 653000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3750 | 3795 | |
| 10 | PI/2 BPSK | 1 | 1 | 16.66 | 16.70 | 16.68 | 17.5 |



<FR1 n78_HPUE_Ant MIMO 1_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 650000 | | 12.0 |
| Frequency (MHz) | | | | | 3750 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 11.14 | | |
| 100 | PI/2 BPSK | 1 | 137 | | 11.09 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 11.10 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 11.08 | | 12.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 11.09 | | 12.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 11.08 | | 12.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 11.08 | | 12.0 |
| 100 | QPSK | 1 | 1 | | 11.09 | | 12.0 |
| 100 | QPSK | 1 | 137 | | 11.06 | | |
| 100 | QPSK | 1 | 271 | | 11.12 | | |
| 100 | QPSK | 135 | 0 | | 11.05 | | 12.0 |
| 100 | QPSK | 135 | 69 | | 11.07 | | |
| 100 | QPSK | 135 | 138 | | 11.08 | | |
| 100 | QPSK | 270 | 0 | | 11.07 | | 12.0 |
| 100 | 16QAM | 1 | 1 | | 10.80 | | 12.0 |
| 100 | 64QAM | 1 | 1 | | 11.10 | | 12.0 |
| 100 | 256QAM | 1 | 1 | | 10.79 | | 12.0 |
| Channel | | | | 649668 | 650000 | 650332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3750 | 3754.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 11.10 | 11.12 | 11.08 | 12.0 |
| Channel | | | | 649334 | 650000 | 650666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3750 | 3759.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 10.99 | 11.01 | 10.96 | 12.0 |
| Channel | | | | 649000 | 650000 | 651000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3750 | 3765 | |
| 70 | PI/2 BPSK | 1 | 1 | 10.97 | 10.99 | 10.98 | 12.0 |
| Channel | | | | 648668 | 650000 | 651332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3750 | 3769.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 10.98 | 11.03 | 10.99 | 12.0 |
| Channel | | | | 648334 | 650000 | 651666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3750 | 3774.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 10.97 | 11.03 | 10.99 | 12.0 |
| Channel | | | | 648000 | 650000 | 652000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3750 | 3780 | |
| 40 | PI/2 BPSK | 1 | 1 | 11.02 | 11.02 | 10.99 | 12.0 |
| Channel | | | | 647668 | 650000 | 652332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3750.00 | 3784.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 11.00 | 10.99 | 10.95 | 12.0 |
| Channel | | | | 647334 | 650000 | 652666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3750 | 3789.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 10.97 | 11.03 | 10.99 | 12.0 |
| Channel | | | | 647168 | 650000 | 652832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3750 | 3792.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 11.01 | 11.03 | 10.98 | 12.0 |
| Channel | | | | 647000 | 650000 | 653000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3750 | 3795 | |
| 10 | PI/2 BPSK | 1 | 1 | 11.02 | 11.04 | 10.97 | 12.0 |



<FR1 n78_HPUE_Ant Aux_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 650000 | | |
| Frequency (MHz) | | | | | 3750 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 19.49 | | 20.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 19.32 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 19.42 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 19.42 | | 20.5 |
| 100 | PI/2 BPSK | 135 | 69 | | 19.40 | | 20.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 19.40 | | 20.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 19.41 | | |
| 100 | QPSK | 1 | 1 | | 19.40 | | 20.5 |
| 100 | QPSK | 1 | 137 | | 19.32 | | |
| 100 | QPSK | 1 | 271 | | 19.40 | | |
| 100 | QPSK | 135 | 0 | | 19.40 | | 20.5 |
| 100 | QPSK | 135 | 69 | | 19.42 | | 20.5 |
| 100 | QPSK | 135 | 138 | | 19.39 | | 20.5 |
| 100 | QPSK | 270 | 0 | | 19.30 | | |
| 100 | 16QAM | 1 | 1 | | 19.40 | | 20.5 |
| 100 | 64QAM | 1 | 1 | | 19.40 | | 20.5 |
| 100 | 256QAM | 1 | 1 | | 19.36 | | 20.5 |
| Channel | | | | 649668 | 650000 | 650332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3745.02 | 3750 | 3754.98 | |
| 90 | PI/2 BPSK | 1 | 1 | 19.38 | 19.43 | 19.36 | 20.5 |
| Channel | | | | 649334 | 650000 | 650666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3740.01 | 3750 | 3759.99 | |
| 80 | PI/2 BPSK | 1 | 1 | 19.39 | 19.39 | 19.43 | 20.5 |
| Channel | | | | 649000 | 650000 | 651000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3735 | 3750 | 3765 | |
| 70 | PI/2 BPSK | 1 | 1 | 19.42 | 19.42 | 19.43 | 20.5 |
| Channel | | | | 648668 | 650000 | 651332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3730.02 | 3750 | 3769.98 | |
| 60 | PI/2 BPSK | 1 | 1 | 19.38 | 19.40 | 19.36 | 20.5 |
| Channel | | | | 648334 | 650000 | 651666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3725.01 | 3750 | 3774.99 | |
| 50 | PI/2 BPSK | 1 | 1 | 19.42 | 19.41 | 19.42 | 20.5 |
| Channel | | | | 648000 | 650000 | 652000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3720 | 3750 | 3780 | |
| 40 | PI/2 BPSK | 1 | 1 | 19.43 | 19.41 | 19.36 | 20.5 |
| Channel | | | | 647668 | 650000 | 652332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3715.02 | 3750.00 | 3784.98 | |
| 30 | PI/2 BPSK | 1 | 1 | 19.40 | 19.41 | 19.39 | 20.5 |
| Channel | | | | 647334 | 650000 | 652666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3710.01 | 3750 | 3789.99 | |
| 20 | PI/2 BPSK | 1 | 1 | 19.37 | 19.43 | 19.41 | 20.5 |
| Channel | | | | 647168 | 650000 | 652832 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3707.52 | 3750 | 3792.48 | |
| 15 | PI/2 BPSK | 1 | 1 | 19.39 | 19.41 | 19.36 | 20.5 |
| Channel | | | | 647000 | 650000 | 653000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3705 | 3750 | 3795 | |
| 10 | PI/2 BPSK | 1 | 1 | 19.38 | 19.43 | 19.36 | 20.5 |



<FR1 n78_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 24.01 | | 25.0 |
| 100 | PI/2 BPSK | 1 | 137 | | 23.81 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 23.78 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 23.79 | | 24.5 |
| 100 | PI/2 BPSK | 135 | 69 | | 23.90 | | 25.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 23.88 | | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 23.80 | | |
| 100 | QPSK | 1 | 1 | | 23.83 | | 25.0 |
| 100 | QPSK | 1 | 137 | | 23.81 | | |
| 100 | QPSK | 1 | 271 | | 23.97 | | |
| 100 | QPSK | 135 | 0 | | 23.78 | | 25.0 |
| 100 | QPSK | 135 | 69 | | 23.80 | | |
| 100 | QPSK | 135 | 138 | | 23.91 | | |
| 100 | QPSK | 270 | 0 | | 23.80 | | 24.0 |
| 100 | 16QAM | 1 | 1 | | 23.99 | | 24.0 |
| 100 | 64QAM | 1 | 1 | | 22.38 | | 23.0 |
| 100 | 256QAM | 1 | 1 | | 20.30 | | 21.0 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 23.77 | 23.75 | 23.80 | 25.0 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 23.76 | 23.74 | 23.75 | 25.0 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 23.72 | 23.71 | 23.76 | 25.0 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 23.73 | 23.73 | 23.80 | 25.0 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 23.67 | 23.75 | 23.74 | 25.0 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 23.76 | 23.74 | 23.70 | 25.0 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.73 | 23.67 | 23.74 | 25.0 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.77 | 23.71 | 23.76 | 25.0 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.73 | 23.72 | 23.79 | 25.0 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.73 | 23.70 | 23.80 | 25.0 |



<FR1 n78_Ant MIMO 2_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 23.51 | | 25.0 |
| 100 | PI/2 BPSK | 1 | 137 | | 23.34 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 23.26 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 22.95 | | 24.5 |
| 100 | PI/2 BPSK | 135 | 69 | | 23.31 | | 25.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 22.70 | | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 22.79 | | |
| 100 | QPSK | 1 | 1 | | 23.44 | | 24.0 |
| 100 | QPSK | 1 | 137 | | 23.38 | | |
| 100 | QPSK | 1 | 271 | | 23.41 | | |
| 100 | QPSK | 135 | 0 | | 22.30 | | 24.0 |
| 100 | QPSK | 135 | 69 | | 23.31 | | |
| 100 | QPSK | 135 | 138 | | 22.17 | | |
| 100 | QPSK | 270 | 0 | | 22.30 | | 24.0 |
| 100 | 16QAM | 1 | 1 | | 22.13 | | 24.0 |
| 100 | 64QAM | 1 | 1 | | 20.87 | | 22.5 |
| 100 | 256QAM | 1 | 1 | | 18.59 | | 20.5 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 23.39 | 23.42 | 23.40 | 25.0 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 23.38 | 23.42 | 23.43 | 25.0 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 23.42 | 23.40 | 23.44 | 25.0 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 23.38 | 23.40 | 23.44 | 25.0 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 23.40 | 23.43 | 23.47 | 25.0 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 23.37 | 23.41 | 23.47 | 25.0 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.38 | 23.41 | 23.49 | 25.0 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.37 | 23.42 | 23.49 | 25.0 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.40 | 23.41 | 23.48 | 25.0 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.42 | 23.42 | 23.44 | 25.0 |



<FR1 n78_Ant MIMO 1_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 23.92 | | 25.0 |
| 100 | PI/2 BPSK | 1 | 137 | | 23.87 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 23.91 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 23.77 | | 24.5 |
| 100 | PI/2 BPSK | 135 | 69 | | 23.86 | | 25.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 23.84 | | 24.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 23.85 | | |
| 100 | QPSK | 1 | 1 | | 23.65 | | 25.0 |
| 100 | QPSK | 1 | 137 | | 23.86 | | |
| 100 | QPSK | 1 | 271 | | 23.89 | | |
| 100 | QPSK | 135 | 0 | | 23.73 | | 25.0 |
| 100 | QPSK | 135 | 69 | | 23.85 | | |
| 100 | QPSK | 135 | 138 | | 23.91 | | |
| 100 | QPSK | 270 | 0 | | 23.87 | | 24.0 |
| 100 | 16QAM | 1 | 1 | | 23.70 | | 24.0 |
| 100 | 64QAM | 1 | 1 | | 22.33 | | 23.0 |
| 100 | 256QAM | 1 | 1 | | 20.25 | | 21.0 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 23.59 | 23.57 | 23.59 | 25.0 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 23.56 | 23.53 | 23.54 | 25.0 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 23.57 | 23.53 | 23.53 | 25.0 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 23.59 | 23.58 | 23.61 | 25.0 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 23.62 | 23.56 | 23.62 | 25.0 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 23.60 | 23.53 | 23.62 | 25.0 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.59 | 23.54 | 23.53 | 25.0 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.59 | 23.56 | 23.54 | 25.0 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.52 | 23.59 | 23.62 | 25.0 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.56 | 23.56 | 23.52 | 25.0 |



<FR1 n78_Ant Aux_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | 25.0 |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 23.90 | | 24.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 23.87 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 23.82 | | 25.0 |
| 100 | PI/2 BPSK | 135 | 0 | | 23.21 | | |
| 100 | PI/2 BPSK | 135 | 69 | | 23.80 | | 24.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 23.26 | | |
| 100 | PI/2 BPSK | 270 | 0 | | 23.31 | | 25.0 |
| 100 | QPSK | 1 | 1 | | 23.88 | | |
| 100 | QPSK | 1 | 137 | | 23.77 | | 24.0 |
| 100 | QPSK | 1 | 271 | | 23.84 | | |
| 100 | QPSK | 135 | 0 | | 22.79 | | 25.0 |
| 100 | QPSK | 135 | 69 | | 23.78 | | |
| 100 | QPSK | 135 | 138 | | 22.78 | | 24.0 |
| 100 | QPSK | 270 | 0 | | 22.74 | | |
| 100 | 16QAM | 1 | 1 | | 22.88 | | 24.0 |
| 100 | 64QAM | 1 | 1 | | 21.61 | | |
| 100 | 256QAM | 1 | 1 | | 19.27 | | 20.5 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 23.76 | 23.80 | 23.75 | 25.0 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 23.69 | 23.77 | 23.73 | 25.0 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 23.69 | 23.72 | 23.68 | 25.0 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 23.69 | 23.77 | 23.75 | 25.0 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 23.67 | 23.70 | 23.74 | 25.0 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 23.66 | 23.72 | 23.75 | 25.0 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 23.69 | 23.74 | 23.71 | 25.0 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 23.66 | 23.73 | 23.68 | 25.0 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 23.69 | 23.72 | 23.70 | 25.0 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 23.66 | 23.74 | 23.65 | 25.0 |



<FR1 n78_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 14.24 | | 15.0 |
| 100 | PI/2 BPSK | 1 | 137 | | 14.21 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 14.23 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 14.16 | | 15.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 14.17 | | 15.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 14.14 | | 15.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 14.12 | | |
| 100 | QPSK | 1 | 1 | | 14.18 | | 15.0 |
| 100 | QPSK | 1 | 137 | | 14.16 | | |
| 100 | QPSK | 1 | 271 | | 14.14 | | |
| 100 | QPSK | 135 | 0 | | 14.13 | | 15.0 |
| 100 | QPSK | 135 | 69 | | 14.11 | | |
| 100 | QPSK | 135 | 138 | | 14.17 | | |
| 100 | QPSK | 270 | 0 | | 14.16 | | 15.0 |
| 100 | 16QAM | 1 | 1 | | 14.03 | | 15.0 |
| 100 | 64QAM | 1 | 1 | | 14.23 | | 15.0 |
| 100 | 256QAM | 1 | 1 | | 13.83 | | 15.0 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 14.15 | 14.12 | 14.13 | 15.0 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 14.13 | 14.12 | 14.15 | 15.0 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 14.15 | 14.16 | 14.19 | 15.0 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 14.17 | 14.17 | 14.16 | 15.0 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 14.17 | 14.15 | 14.16 | 15.0 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 14.18 | 14.15 | 14.13 | 15.0 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 14.12 | 14.15 | 14.16 | 15.0 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 14.14 | 14.18 | 14.12 | 15.0 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 14.18 | 14.16 | 14.12 | 15.0 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 14.16 | 14.18 | 14.18 | 15.0 |



<FR1 n78_Ant MIMO 2_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | 14.5 |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 14.08 | | 14.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 13.94 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 13.87 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 13.99 | | 14.5 |
| 100 | PI/2 BPSK | 135 | 69 | | 14.00 | | 14.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 13.86 | | 14.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 13.97 | | |
| 100 | QPSK | 1 | 1 | | 14.05 | | 14.5 |
| 100 | QPSK | 1 | 137 | | 13.98 | | |
| 100 | QPSK | 1 | 271 | | 13.89 | | |
| 100 | QPSK | 135 | 0 | | 13.97 | | 14.5 |
| 100 | QPSK | 135 | 69 | | 13.83 | | |
| 100 | QPSK | 135 | 138 | | 13.88 | | |
| 100 | QPSK | 270 | 0 | | 13.86 | | 14.5 |
| 100 | 16QAM | 1 | 1 | | 14.06 | | 14.5 |
| 100 | 64QAM | 1 | 1 | | 14.03 | | 14.5 |
| 100 | 256QAM | 1 | 1 | | 13.61 | | 14.5 |
| Channel | | | | 633000 | 633332 | 633666 | 14.5 |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 14.05 | 14.07 | 14.06 | 14.5 |
| Channel | | | | 632668 | 633332 | 634000 | 14.5 |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 13.95 | 13.96 | 13.96 | 14.5 |
| Channel | | | | 632334 | 633332 | 634332 | 14.5 |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 13.94 | 13.87 | 13.86 | 14.5 |
| Channel | | | | 632000 | 633332 | 634666 | 14.5 |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 13.94 | 13.95 | 13.94 | 14.5 |
| Channel | | | | 631668 | 633332 | 635000 | 14.5 |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 13.90 | 13.93 | 13.93 | 14.5 |
| Channel | | | | 631334 | 633332 | 635332 | 14.5 |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 13.91 | 13.90 | 13.93 | 14.5 |
| Channel | | | | 631000 | 633332 | 635666 | 14.5 |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 13.87 | 13.92 | 13.91 | 14.5 |
| Channel | | | | 630668 | 633332 | 636000 | 14.5 |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 13.91 | 13.93 | 13.87 | 14.5 |
| Channel | | | | 630500 | 633332 | 636166 | 14.5 |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 13.87 | 13.93 | 13.86 | 14.5 |
| Channel | | | | 630334 | 633332 | 636332 | 14.5 |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 13.92 | 13.96 | 13.93 | 14.5 |



<FR1 n78_Ant MIMO 1_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | 9.0 |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 8.02 | | 9.0 |
| 100 | PI/2 BPSK | 1 | 137 | | 7.92 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 7.99 | | 9.0 |
| 100 | PI/2 BPSK | 135 | 0 | | 7.94 | | |
| 100 | PI/2 BPSK | 135 | 69 | | 7.98 | | 9.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 7.98 | | |
| 100 | PI/2 BPSK | 270 | 0 | | 7.97 | | 9.0 |
| 100 | QPSK | 1 | 1 | | 7.95 | | |
| 100 | QPSK | 1 | 137 | | 7.90 | | 9.0 |
| 100 | QPSK | 1 | 271 | | 8.01 | | |
| 100 | QPSK | 135 | 0 | | 7.95 | | 9.0 |
| 100 | QPSK | 135 | 69 | | 7.92 | | |
| 100 | QPSK | 135 | 138 | | 7.99 | | 9.0 |
| 100 | QPSK | 270 | 0 | | 7.98 | | |
| 100 | 16QAM | 1 | 1 | | 7.94 | | 9.0 |
| 100 | 64QAM | 1 | 1 | | 7.98 | | |
| 100 | 256QAM | 1 | 1 | | 7.74 | | 9.0 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 7.97 | 8.01 | 7.95 | 9.0 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 7.83 | 7.92 | 7.86 | 9.0 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 7.81 | 7.89 | 7.79 | 9.0 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 7.85 | 7.92 | 7.84 | 9.0 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 7.86 | 7.85 | 7.86 | 9.0 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 7.83 | 7.85 | 7.80 | 9.0 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 7.83 | 7.88 | 7.86 | 9.0 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 7.83 | 7.87 | 7.79 | 9.0 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 7.87 | 7.90 | 7.84 | 9.0 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 7.82 | 7.90 | 7.84 | 9.0 |



<FR1 n78_Ant Aux_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 16.97 | | 17.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 16.91 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 16.89 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 16.92 | | 17.5 |
| 100 | PI/2 BPSK | 135 | 69 | | 16.93 | | 17.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 16.95 | | 17.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 16.94 | | |
| 100 | QPSK | 1 | 1 | | 16.92 | | 17.5 |
| 100 | QPSK | 1 | 137 | | 16.94 | | |
| 100 | QPSK | 1 | 271 | | 16.90 | | |
| 100 | QPSK | 135 | 0 | | 16.90 | | 17.5 |
| 100 | QPSK | 135 | 69 | | 16.87 | | 17.5 |
| 100 | QPSK | 135 | 138 | | 16.92 | | 17.5 |
| 100 | QPSK | 270 | 0 | | 16.88 | | |
| 100 | 16QAM | 1 | 1 | | 16.96 | | 17.5 |
| 100 | 64QAM | 1 | 1 | | 16.88 | | 17.5 |
| 100 | 256QAM | 1 | 1 | | 16.93 | | 17.5 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 16.84 | 16.91 | 16.83 | 17.5 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 16.85 | 16.89 | 16.89 | 17.5 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 16.83 | 16.86 | 16.88 | 17.5 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 16.85 | 16.83 | 16.90 | 17.5 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 16.90 | 16.89 | 16.84 | 17.5 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 16.91 | 16.84 | 16.90 | 17.5 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 16.89 | 16.90 | 16.85 | 17.5 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 16.84 | 16.85 | 16.88 | 17.5 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 16.91 | 16.88 | 16.85 | 17.5 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 16.88 | 16.87 | 16.88 | 17.5 |



<FR1 n78_HPUE_Ant Main_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 26.10 | | 27.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 25.95 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 25.88 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 25.88 | | 27.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 26.00 | | 27.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 25.92 | | 27.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 25.90 | | |
| 100 | QPSK | 1 | 1 | | 25.84 | | 27.5 |
| 100 | QPSK | 1 | 137 | | 25.93 | | |
| 100 | QPSK | 1 | 271 | | 26.04 | | |
| 100 | QPSK | 135 | 0 | | 25.88 | | 27.5 |
| 100 | QPSK | 135 | 69 | | 25.89 | | |
| 100 | QPSK | 135 | 138 | | 25.95 | | |
| 100 | QPSK | 270 | 0 | | 25.90 | | 26.5 |
| 100 | 16QAM | 1 | 1 | | 25.89 | | 26.5 |
| 100 | 64QAM | 1 | 1 | | 24.81 | | 25.5 |
| 100 | 256QAM | 1 | 1 | | 22.63 | | 23.5 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 25.88 | 25.90 | 25.89 | 27.5 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 25.81 | 25.87 | 25.84 | 27.5 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 25.81 | 25.81 | 25.82 | 27.5 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 25.85 | 25.89 | 25.84 | 27.5 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 25.84 | 25.87 | 25.81 | 27.5 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 25.87 | 25.85 | 25.83 | 27.5 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 25.79 | 25.81 | 25.87 | 27.5 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 25.79 | 25.83 | 25.80 | 27.5 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 25.79 | 25.88 | 25.80 | 27.5 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 25.86 | 25.86 | 25.86 | 27.5 |



<FR1 n78_HPUE_Ant MIMO 2_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 26.17 | | 27.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 26.02 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 25.96 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 25.56 | | 27.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 26.03 | | 27.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 25.46 | | 27.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 25.58 | | |
| 100 | QPSK | 1 | 1 | | 26.05 | | 26.5 |
| 100 | QPSK | 1 | 137 | | 26.08 | | |
| 100 | QPSK | 1 | 271 | | 25.94 | | |
| 100 | QPSK | 135 | 0 | | 25.16 | | 26.5 |
| 100 | QPSK | 135 | 69 | | 26.06 | | |
| 100 | QPSK | 135 | 138 | | 24.95 | | |
| 100 | QPSK | 270 | 0 | | 25.05 | | 26.5 |
| 100 | 16QAM | 1 | 1 | | 24.81 | | 26.5 |
| 100 | 64QAM | 1 | 1 | | 23.65 | | 25.0 |
| 100 | 256QAM | 1 | 1 | | 21.64 | | 23.0 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 25.98 | 26.00 | 26.06 | 27.5 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 25.97 | 25.98 | 26.06 | 27.5 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 26.05 | 26.06 | 25.99 | 27.5 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 25.97 | 26.04 | 26.01 | 27.5 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 26.02 | 25.97 | 26.03 | 27.5 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 25.98 | 26.00 | 25.97 | 27.5 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 26.00 | 26.03 | 25.98 | 27.5 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 25.97 | 26.05 | 25.98 | 27.5 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 26.01 | 26.06 | 26.07 | 27.5 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 26.03 | 26.01 | 26.04 | 27.5 |



<FR1 n78_HPUE_Ant MIMO 1_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 26.03 | | 27.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 26.01 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 26.02 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 25.90 | | 27.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 25.96 | | 27.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 25.94 | | 27.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 25.93 | | |
| 100 | QPSK | 1 | 1 | | 25.81 | | 27.5 |
| 100 | QPSK | 1 | 137 | | 25.99 | | |
| 100 | QPSK | 1 | 271 | | 26.02 | | |
| 100 | QPSK | 135 | 0 | | 25.92 | | 27.5 |
| 100 | QPSK | 135 | 69 | | 25.91 | | |
| 100 | QPSK | 135 | 138 | | 25.93 | | |
| 100 | QPSK | 270 | 0 | | 25.93 | | 26.5 |
| 100 | 16QAM | 1 | 1 | | 25.93 | | 26.5 |
| 100 | 64QAM | 1 | 1 | | 24.96 | | 25.5 |
| 100 | 256QAM | 1 | 1 | | 23.19 | | 23.5 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 25.69 | 25.63 | 25.68 | 27.5 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 25.67 | 25.63 | 25.65 | 27.5 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 25.64 | 25.71 | 25.69 | 27.5 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 25.65 | 25.65 | 25.65 | 27.5 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 25.63 | 25.69 | 25.66 | 27.5 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 25.63 | 25.68 | 25.68 | 27.5 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 25.67 | 25.72 | 25.71 | 27.5 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 25.67 | 25.68 | 25.63 | 27.5 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 25.64 | 25.68 | 25.66 | 27.5 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 25.66 | 25.71 | 25.68 | 27.5 |



<FR1 n78_HPUE_Ant Aux_Sensor OFF>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 26.24 | | 27.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 26.15 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 26.06 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 25.81 | | 27.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 26.16 | | 27.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 25.67 | | 27.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 25.74 | | |
| 100 | QPSK | 1 | 1 | | 26.04 | | 27.5 |
| 100 | QPSK | 1 | 137 | | 26.03 | | |
| 100 | QPSK | 1 | 271 | | 25.89 | | |
| 100 | QPSK | 135 | 0 | | 25.31 | | 26.5 |
| 100 | QPSK | 135 | 69 | | 26.13 | | 27.5 |
| 100 | QPSK | 135 | 138 | | 25.14 | | 26.5 |
| 100 | QPSK | 270 | 0 | | 25.26 | | |
| 100 | 16QAM | 1 | 1 | | 25.23 | | 26.5 |
| 100 | 64QAM | 1 | 1 | | 23.68 | | 25.0 |
| 100 | 256QAM | 1 | 1 | | 21.97 | | 23.0 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 26.18 | 26.23 | 26.14 | 27.5 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 26.13 | 26.16 | 26.11 | 27.5 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 26.18 | 26.16 | 26.14 | 27.5 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 26.14 | 26.21 | 26.13 | 27.5 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 26.08 | 26.14 | 26.07 | 27.5 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 26.15 | 26.21 | 26.05 | 27.5 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 26.17 | 26.15 | 26.07 | 27.5 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 26.09 | 26.16 | 26.12 | 27.5 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 26.08 | 26.23 | 26.08 | 27.5 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 26.11 | 26.20 | 26.09 | 27.5 |



<FR1 n78_HPUE_Ant Main_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | 18.0 |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 17.28 | | |
| 100 | PI/2 BPSK | 1 | 137 | | 17.26 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 17.24 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 17.21 | | 18.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 17.24 | | 18.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 17.23 | | 18.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 17.21 | | |
| 100 | QPSK | 1 | 1 | | 17.19 | | 18.0 |
| 100 | QPSK | 1 | 137 | | 17.15 | | |
| 100 | QPSK | 1 | 271 | | 17.25 | | |
| 100 | QPSK | 135 | 0 | | 17.23 | | 18.0 |
| 100 | QPSK | 135 | 69 | | 17.19 | | |
| 100 | QPSK | 135 | 138 | | 17.21 | | |
| 100 | QPSK | 270 | 0 | | 17.26 | | 18.0 |
| 100 | 16QAM | 1 | 1 | | 17.18 | | 18.0 |
| 100 | 64QAM | 1 | 1 | | 17.27 | | 18.0 |
| 100 | 256QAM | 1 | 1 | | 16.90 | | 18.0 |
| Channel | | | | 633000 | 633332 | 633666 | 18.0 |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 17.20 | 17.18 | 17.19 | |
| Channel | | | | 632668 | 633332 | 634000 | 18.0 |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 17.22 | 17.20 | 17.17 | |
| Channel | | | | 632334 | 633332 | 634332 | 18.0 |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 17.22 | 17.19 | 17.18 | |
| Channel | | | | 632000 | 633332 | 634666 | 18.0 |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 17.21 | 17.16 | 17.21 | |
| Channel | | | | 631668 | 633332 | 635000 | 18.0 |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 17.21 | 17.19 | 17.21 | |
| Channel | | | | 631334 | 633332 | 635332 | 18.0 |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 17.18 | 17.17 | 17.17 | |
| Channel | | | | 631000 | 633332 | 635666 | 18.0 |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 17.20 | 17.21 | 17.21 | |
| Channel | | | | 630668 | 633332 | 636000 | 18.0 |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 17.19 | 17.21 | 17.16 | |
| Channel | | | | 630500 | 633332 | 636166 | 18.0 |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 17.19 | 17.19 | 17.18 | |
| Channel | | | | 630334 | 633332 | 636332 | 18.0 |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 17.22 | 17.20 | 17.20 | |



<FR1 n78_HPUE_Ant MIMO 2_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 17.11 | | 17.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 16.99 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 17.01 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 17.05 | | 17.5 |
| 100 | PI/2 BPSK | 135 | 69 | | 17.09 | | 17.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 16.94 | | 17.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 17.04 | | |
| 100 | QPSK | 1 | 1 | | 17.06 | | 17.5 |
| 100 | QPSK | 1 | 137 | | 16.99 | | |
| 100 | QPSK | 1 | 271 | | 16.98 | | |
| 100 | QPSK | 135 | 0 | | 17.03 | | 17.5 |
| 100 | QPSK | 135 | 69 | | 17.05 | | |
| 100 | QPSK | 135 | 138 | | 16.94 | | |
| 100 | QPSK | 270 | 0 | | 17.04 | | 17.5 |
| 100 | 16QAM | 1 | 1 | | 17.10 | | 17.5 |
| 100 | 64QAM | 1 | 1 | | 17.11 | | 17.5 |
| 100 | 256QAM | 1 | 1 | | 16.71 | | 17.5 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 17.05 | 17.08 | 17.04 | 17.5 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 16.90 | 16.89 | 16.91 | 17.5 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 16.85 | 16.91 | 16.90 | 17.5 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 16.95 | 16.88 | 16.88 | 17.5 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 16.85 | 16.92 | 16.92 | 17.5 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 16.89 | 16.98 | 16.86 | 17.5 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 16.89 | 16.89 | 16.90 | 17.5 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 16.85 | 16.94 | 16.94 | 17.5 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 16.89 | 16.98 | 16.88 | 17.5 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 16.89 | 16.88 | 16.86 | 17.5 |



<FR1 n78_HPUE_Ant MIMO 1_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 11.06 | | 12.0 |
| 100 | PI/2 BPSK | 1 | 137 | | 11.00 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 11.05 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 10.95 | | 12.0 |
| 100 | PI/2 BPSK | 135 | 69 | | 10.96 | | 12.0 |
| 100 | PI/2 BPSK | 135 | 138 | | 10.95 | | 12.0 |
| 100 | PI/2 BPSK | 270 | 0 | | 10.93 | | |
| 100 | QPSK | 1 | 1 | | 10.93 | | 12.0 |
| 100 | QPSK | 1 | 137 | | 11.00 | | |
| 100 | QPSK | 1 | 271 | | 11.05 | | |
| 100 | QPSK | 135 | 0 | | 10.94 | | 12.0 |
| 100 | QPSK | 135 | 69 | | 10.94 | | |
| 100 | QPSK | 135 | 138 | | 11.02 | | |
| 100 | QPSK | 270 | 0 | | 10.93 | | 12.0 |
| 100 | 16QAM | 1 | 1 | | 10.90 | | 12.0 |
| 100 | 64QAM | 1 | 1 | | 11.02 | | 12.0 |
| 100 | 256QAM | 1 | 1 | | 10.71 | | 12.0 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 11.01 | 11.05 | 11.03 | 12.0 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 10.91 | 10.97 | 10.89 | 12.0 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 10.87 | 10.95 | 10.91 | 12.0 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 10.91 | 10.97 | 10.90 | 12.0 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 10.91 | 10.96 | 10.95 | 12.0 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 10.92 | 10.93 | 10.95 | 12.0 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 10.91 | 10.97 | 10.94 | 12.0 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 10.91 | 10.91 | 10.89 | 12.0 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 10.90 | 10.91 | 10.91 | 12.0 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 10.88 | 10.93 | 10.90 | 12.0 |



<FR1 n78_HPUE_Ant Aux_Sensor ON>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel | | | | | 633332 | | |
| Frequency (MHz) | | | | | 3499.98 | | |
| 100 | PI/2 BPSK | 1 | 1 | | 19.90 | | 20.5 |
| 100 | PI/2 BPSK | 1 | 137 | | 19.86 | | |
| 100 | PI/2 BPSK | 1 | 271 | | 19.84 | | |
| 100 | PI/2 BPSK | 135 | 0 | | 19.83 | | 20.5 |
| 100 | PI/2 BPSK | 135 | 69 | | 19.87 | | 20.5 |
| 100 | PI/2 BPSK | 135 | 138 | | 19.89 | | 20.5 |
| 100 | PI/2 BPSK | 270 | 0 | | 19.88 | | |
| 100 | QPSK | 1 | 1 | | 19.88 | | 20.5 |
| 100 | QPSK | 1 | 137 | | 19.85 | | |
| 100 | QPSK | 1 | 271 | | 19.86 | | |
| 100 | QPSK | 135 | 0 | | 19.82 | | 20.5 |
| 100 | QPSK | 135 | 69 | | 19.81 | | 20.5 |
| 100 | QPSK | 135 | 138 | | 19.86 | | 20.5 |
| 100 | QPSK | 270 | 0 | | 19.82 | | |
| 100 | 16QAM | 1 | 1 | | 19.89 | | 20.5 |
| 100 | 64QAM | 1 | 1 | | 19.80 | | 20.5 |
| 100 | 256QAM | 1 | 1 | | 19.86 | | 20.5 |
| Channel | | | | 633000 | 633332 | 633666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3495 | 3499.98 | 3504.99 | |
| 90 | PI/2 BPSK | 1 | 1 | 19.82 | 19.78 | 19.81 | 20.5 |
| Channel | | | | 632668 | 633332 | 634000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3490.02 | 3499.98 | 3510 | |
| 80 | PI/2 BPSK | 1 | 1 | 19.84 | 19.79 | 19.78 | 20.5 |
| Channel | | | | 632334 | 633332 | 634332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3485.01 | 3499.98 | 3514.98 | |
| 70 | PI/2 BPSK | 1 | 1 | 19.81 | 19.83 | 19.83 | 20.5 |
| Channel | | | | 632000 | 633332 | 634666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3480 | 3499.98 | 3519.99 | |
| 60 | PI/2 BPSK | 1 | 1 | 19.84 | 19.79 | 19.81 | 20.5 |
| Channel | | | | 631668 | 633332 | 635000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3475.02 | 3499.98 | 3525 | |
| 50 | PI/2 BPSK | 1 | 1 | 19.83 | 19.81 | 19.80 | 20.5 |
| Channel | | | | 631334 | 633332 | 635332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3470.01 | 3499.98 | 3529.98 | |
| 40 | PI/2 BPSK | 1 | 1 | 19.83 | 19.84 | 19.79 | 20.5 |
| Channel | | | | 631000 | 633332 | 635666 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3465 | 3499.98 | 3534.99 | |
| 30 | PI/2 BPSK | 1 | 1 | 19.81 | 19.81 | 19.76 | 20.5 |
| Channel | | | | 630668 | 633332 | 636000 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3460.02 | 3499.98 | 3540 | |
| 20 | PI/2 BPSK | 1 | 1 | 19.84 | 19.82 | 19.81 | 20.5 |
| Channel | | | | 630500 | 633332 | 636166 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3457.5 | 3499.98 | 3542.49 | |
| 15 | PI/2 BPSK | 1 | 1 | 19.79 | 19.76 | 19.79 | 20.5 |
| Channel | | | | 630334 | 633332 | 636332 | Tune-up limit (dBm) |
| Frequency (MHz) | | | | 3455.01 | 3499.98 | 3544.98 | |
| 10 | PI/2 BPSK | 1 | 1 | 19.78 | 19.77 | 19.82 | 20.5 |



<SAR test exclusion table>

General Note:

1. The below table, when the distance is < 50 mm exclusion threshold is "Ratio", when the distance is > 50 mm exclusion threshold is "mW"
2. Maximum power is the source-based time-average power and represents the maximum RF output power among production units
3. Per KDB 447498 D01v06, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
4. Per KDB 447498 D01v06, standalone SAR test exclusion threshold is applied; If the test separation distance is < 5mm, 5mm is used to determine SAR exclusion threshold.
5. Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:
 - $[(max. \text{ power of channel, including tune-up tolerance, mW}) / (min. \text{ test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison
6. Per KDB 447498 D01v06, at 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following
 - a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · (f(MHz)/150)] mW, at 100 MHz to 1500 MHz
 - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at > 1500 MHz and ≤ 6 GHz

<Main Ant>

| Exposure Position | Wireless Interface | WCDMA Band V | WCDMA Band IV | WCDMA Band II | LTE Band 71/n71 | LTE Band 12/17/n12/n17 | LTE Band 13/n13 | LTE Band 14/n14 | LTE Band 5/26/n5/n26 | LTE Band 4/66/n4/n66 | LTE Band 2/5/n2/n25 | LTE Band 30/n30 | LTE Band 7/n7 | LTE Band 38/41/n38/n41 | LTE Band 42 | LTE Band 48/n48 | LTE Band n77 | LTE Band n78 |
|-------------------------|----------------------------|--------------|---------------|---------------|-----------------|------------------------|-----------------|-----------------|----------------------|----------------------|---------------------|-----------------|---------------|------------------------|-------------|-----------------|--------------|--------------|
| | Calculated Frequency (MHz) | 846 | 1750 | 1907 | 695 | 715 | 784 | 795 | 848 | 1779 | 1914 | 2312 | 2567 | 2690 | 3550 | 3700 | 3980 | 3800 |
| Maximum power (dBm) | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 23.0 | 25.0 | 27.5 | 22.0 | 22.0 | 27.5 | 27.5 | |
| Maximum rated power(mW) | 316.23 | 316.23 | 316.23 | 316.23 | 316.23 | 316.23 | 316.23 | 316.23 | 316.23 | 316.23 | 199.53 | 316.23 | 562.34 | 158.49 | 158.49 | 562.34 | 562.34 | |
| Bottom of Laptop | Separation distance(mm) | 5.0 | | | | | | | | | | | | | | | | |
| | exclusion threshold | 58.2 | 83.7 | 87.3 | 52.7 | 53.5 | 56.0 | 56.4 | 58.2 | 84.4 | 87.5 | 60.7 | 101.3 | 184.5 | 59.7 | 61.0 | 224.4 | 219.2 |
| | Testing required? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

<Aux Ant>

| Exposure Position | Wireless Interface | FR1 Band n38/n41 | FR1 Band n48 | FR1 Band n77 | FR1 Band n78 |
|-------------------------|----------------------------|------------------|--------------|--------------|--------------|
| | Calculated Frequency (MHz) | 2690 | 3700 | 3980 | 3800 |
| Maximum power (dBm) | 27.5 | 22.0 | 27.5 | 27.5 | |
| Maximum rated power(mW) | 562.34 | 158.49 | 562.34 | 562.34 | |
| Bottom of Laptop | Separation distance(mm) | 5.0 | | | |
| | exclusion threshold | 184.5 | 61.0 | 224.4 | 219.2 |
| | Testing required? | Yes | Yes | Yes | Yes |



<MIMO 1 Ant>

| Exposure Position | Wireless Interface | FR1 Band n38/n41 | FR1 Band n48 | FR1 Band n77 | FR1 Band n78 |
|-------------------|----------------------------|------------------|--------------|--------------|--------------|
| | Calculated Frequency (MHz) | 2690 | 3700 | 3980 | 3800 |
| | Maximum power (dBm) | 27.5 | 22.0 | 27.5 | 27.5 |
| | Maximum rated power(mW) | 562.34 | 158.49 | 562.34 | 562.34 |
| Bottom of Laptop | Separation distance(mm) | 5.0 | | | |
| | exclusion threshold | 184.5 | 61.0 | 224.4 | 219.2 |
| | Testing required? | Yes | Yes | Yes | Yes |

<MIMO 2 Ant>

| Exposure Position | Wireless Interface | LTE Band 4/66/n4/n66 | LTE Band 2/25/n2/n25 | LTE Band 30/n30 | LTE Band 7/n7 | LTE Band 38/41/n38/n41 | LTE Band 42 | LTE Band 43 | LTE Band 48/n48 | LTE Band n77 | LTE Band n78 |
|-------------------|----------------------------|----------------------|----------------------|-----------------|---------------|------------------------|-------------|-------------|-----------------|--------------|--------------|
| | Calculated Frequency (MHz) | 1779 | 1914 | 2312 | 2567 | 2690 | 3550 | 3800 | 3700 | 3980 | 3800 |
| | Maximum power (dBm) | 24.0 | 24.0 | 23.0 | 24.0 | 27.5 | 22.0 | 22.0 | 22.0 | 27.5 | 27.5 |
| | Maximum rated power(mW) | 251.19 | 251.19 | 199.53 | 251.19 | 562.34 | 158.49 | 158.49 | 158.49 | 562.34 | 562.34 |
| Bottom of Laptop | Separation distance(mm) | 5.0 | | | | | | | | | |
| | exclusion threshold | 67.0 | 69.5 | 60.7 | 80.5 | 184.5 | 59.7 | 61.8 | 61.0 | 224.4 | 219.2 |
| | Testing required? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

13. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - c. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $63.3\%/62.9\% = 1.006$ is applied to scale-up the measured SAR result. The Reported TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
4. For the exposure positions that proximity sensor power reduction is applied for SAR compliance, additional SAR testing with EUT transmitting full power in sensor trigger distance was performed according to section 4. The test results just verification the sensor trigger distance to meet KDB 616217 requirement, when in normal usage will not operate at trigger distance, therefore, these results were not using performed Sim-Tx analysis.

UMTS Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq 1/4$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than $1/4$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $>$ not $1/2$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $1/2$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4/B5/B12/B17/B26/B38/B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE band 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; according to TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. The maximum output power, including tolerance, for the smaller band is \leq the larger band to qualify for the SAR test exclusion.
 - b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.

5G NR Note:

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below:
 - a. To start SAR test for the largest channel bandwidth for PI/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. Also do SAR test for 50% RB allocation for PI/2 BPSK SAR testing using 1RB PI/2 BPSK allocation procedure
 - b. For PI/2 BPSK with 100% RB allocation, SAR test is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - c. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not $\frac{1}{2}$ dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - d. Smaller bandwidth output power for each RB allocation configuration for this device is not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
 - e. For 5G FR1 n5/n12/n41/n71/n77, the maximum channel bandwidth does not support three non-overlapping channels in the frequency band, the middle channel of the group of overlapping channels were selected for testing.
 - f. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission. And only for TDD power class2 was performed using Factory Test Mode software to establish the connection and perform SAR with 50% transmission.
 - g. For NR FDD was establishing connections via a base station simulator to use for output power measurement and SAR testing
 - h. 5G FR1 n2/5/38/78 SAR test was covered by 5G FR1 n25/26/41/77; due to the maximum output power, including tolerance, for the smaller band is \leq the larger band, and the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.



13.1 Body SAR

<WCDMA SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Antenna | Power Reduction | Ch. | Freq. (MHz) | Sample | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------------|--------------|------------------|----------|---------|-----------------|------|-------------|----------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | WCDMA II_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 9400 | 1880 | Sample 1 | 18.42 | 18.50 | 1.019 | -0.05 | 0.903 | 0.920 |
| | WCDMA II_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 9262 | 1852.4 | Sample 1 | 18.39 | 18.50 | 1.026 | 0.18 | 0.940 | 0.964 |
| | WCDMA II_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 9538 | 1907.6 | Sample 1 | 18.36 | 18.50 | 1.033 | 0.14 | 0.956 | 0.987 |
| | WCDMA II_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 24mm | Main | OFF | 9400 | 1880 | Sample 1 | 23.75 | 25.00 | 1.334 | 0.17 | 0.153 | 0.204 |
| | WCDMA II_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 9538 | 1907.6 | Sample 2 | 18.36 | 18.50 | 1.033 | -0.17 | 1.070 | 1.105 |
| | WCDMA II_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 9262 | 1852.4 | Sample 2 | 18.39 | 18.50 | 1.026 | 0.1 | 1.030 | 1.056 |
| | WCDMA II_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 9400 | 1880 | Sample 2 | 18.42 | 18.50 | 1.019 | 0.01 | 1.130 | 1.151 |
| 01 | WCDMA II_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 9538 | 1907.6 | Sample 3 | 18.36 | 18.50 | 1.033 | -0.09 | 1.140 | 1.177 |
| | WCDMA II_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 9262 | 1852.4 | Sample 3 | 18.39 | 18.50 | 1.026 | -0.01 | 1.020 | 1.046 |
| | WCDMA II_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 9400 | 1880 | Sample 3 | 18.42 | 18.50 | 1.019 | 0.04 | 1.060 | 1.080 |
| | WCDMA II_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 9538 | 1907.6 | Sample 4 | 18.36 | 18.50 | 1.033 | 0.06 | 1.040 | 1.074 |
| | WCDMA II_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 9262 | 1852.4 | Sample 4 | 18.39 | 18.50 | 1.026 | 0.05 | 0.977 | 1.002 |
| | WCDMA II_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 9400 | 1880 | Sample 4 | 18.42 | 18.50 | 1.019 | -0.08 | 1.030 | 1.049 |
| | WCDMA IV_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 1413 | 1732.6 | Sample 1 | 17.98 | 18.50 | 1.127 | 0.08 | 0.756 | 0.852 |
| | WCDMA IV_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 1312 | 1712.4 | Sample 1 | 17.79 | 18.50 | 1.178 | 0.01 | 0.744 | 0.876 |
| | WCDMA IV_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 1513 | 1752.6 | Sample 1 | 17.86 | 18.50 | 1.159 | 0.03 | 0.679 | 0.787 |
| | WCDMA IV_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 24mm | Main | OFF | 1413 | 1732.6 | Sample 1 | 23.85 | 25.00 | 1.303 | -0.08 | 0.297 | 0.387 |
| | WCDMA IV_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 1312 | 1712.4 | Sample 2 | 17.79 | 18.50 | 1.178 | 0.1 | 0.766 | 0.902 |
| | WCDMA IV_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 1413 | 1732.6 | Sample 2 | 17.98 | 18.50 | 1.127 | -0.18 | 0.735 | 0.828 |
| | WCDMA IV_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 1513 | 1752.6 | Sample 2 | 17.86 | 18.50 | 1.159 | 0.12 | 0.691 | 0.801 |
| 02 | WCDMA IV_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 1312 | 1712.4 | Sample 3 | 17.79 | 18.50 | 1.178 | -0.13 | 0.936 | 1.102 |
| | WCDMA IV_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 1413 | 1732.6 | Sample 3 | 17.98 | 18.50 | 1.127 | 0.08 | 0.849 | 0.957 |
| | WCDMA IV_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 1513 | 1752.6 | Sample 3 | 17.86 | 18.50 | 1.159 | -0.17 | 0.802 | 0.929 |
| | WCDMA IV_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 1312 | 1712.4 | Sample 4 | 17.79 | 18.50 | 1.178 | -0.03 | 0.626 | 0.737 |
| | WCDMA V_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 4182 | 836.4 | Sample 1 | 23.10 | 24.00 | 1.230 | 0.12 | 0.776 | 0.955 |
| | WCDMA V_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 4132 | 826.4 | Sample 1 | 22.96 | 24.00 | 1.271 | 0.03 | 0.757 | 0.962 |
| | WCDMA V_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 4233 | 846.6 | Sample 1 | 23.08 | 24.00 | 1.236 | 0.18 | 0.837 | 1.034 |
| | WCDMA V_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 24mm | Main | OFF | 4182 | 836.4 | Sample 1 | 24.23 | 25.00 | 1.194 | 0.03 | 0.088 | 0.105 |
| | WCDMA V_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 4233 | 846.6 | Sample 2 | 23.08 | 24.00 | 1.236 | 0.07 | 0.906 | 1.120 |
| 03 | WCDMA V_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 4132 | 826.4 | Sample 2 | 22.96 | 24.00 | 1.271 | 0.02 | 0.891 | 1.132 |
| | WCDMA V_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 4182 | 836.4 | Sample 2 | 23.10 | 24.00 | 1.230 | -0.1 | 0.883 | 1.086 |
| | WCDMA V_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 4233 | 846.6 | Sample 3 | 23.08 | 24.00 | 1.236 | 0.01 | 0.725 | 0.896 |
| | WCDMA V_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 4132 | 826.4 | Sample 3 | 22.96 | 24.00 | 1.271 | -0.1 | 0.757 | 0.962 |
| | WCDMA V_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 4182 | 836.4 | Sample 3 | 23.10 | 24.00 | 1.230 | 0.18 | 0.747 | 0.919 |
| | WCDMA V_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 4233 | 846.6 | Sample 4 | 23.08 | 24.00 | 1.236 | 0.07 | 0.724 | 0.895 |
| | WCDMA V_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 4132 | 826.4 | Sample 4 | 22.96 | 24.00 | 1.271 | 0.19 | 0.749 | 0.952 |
| | WCDMA V_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 4182 | 836.4 | Sample 4 | 23.10 | 24.00 | 1.230 | -0.15 | 0.727 | 0.894 |



FCC SAR TEST REPORT

Report No. : FA3N1058

<LTE SAR>

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Antenna | Power Reduction | Ch. | Freq. (MHz) | Sample | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-----------------------|----------|------------|---------|-----------|------------------|----------|---------|-----------------|-------------|-------------|----------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | LTE Band 7_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 21100 | 2535 | Sample 1 | 14.35 | 15.00 | 1.161 | -0.17 | 0.240 | 0.279 |
| | LTE Band 7_Ant Main | 20M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | Main | ON | 21100 | 2535 | Sample 1 | 13.37 | 14.00 | 1.156 | 0.11 | 0.197 | 0.228 |
| | LTE Band 7_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 24mm | Main | OFF | 21100 | 2535 | Sample 1 | 23.66 | 25.00 | 1.361 | 0.14 | 0.204 | 0.278 |
| | LTE Band 7_Ant Main | 20M | QPSK | 50 | 0 | Bottom of Laptop | 24mm | Main | OFF | 21100 | 2535 | Sample 1 | 22.78 | 24.00 | 1.324 | 0.11 | 0.163 | 0.216 |
| | LTE Band 7_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 21100 | 2535 | Sample 2 | 14.35 | 15.00 | 1.161 | 0.14 | 0.210 | 0.244 |
| | LTE Band 7_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 21100 | 2535 | Sample 3 | 14.35 | 15.00 | 1.161 | -0.05 | 0.233 | 0.271 |
| | LTE Band 7_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 21100 | 2535 | Sample 4 | 14.35 | 15.00 | 1.161 | 0 | 0.332 | 0.386 |
| | LTE Band 7C_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 21100+20902 | 2535 | Sample 4 | 14.25 | 15.00 | 1.189 | 0.06 | 0.208 | 0.247 |
| | LTE Band 7_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 21100 | 2535 | Sample 1 | 16.27 | 17.00 | 1.183 | 0.15 | 0.741 | 0.877 |
| | LTE Band 7_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 20850 | 2510 | Sample 1 | 16.12 | 17.00 | 1.225 | -0.09 | 0.715 | 0.876 |
| | LTE Band 7_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 21350 | 2560 | Sample 1 | 16.25 | 17.00 | 1.189 | 0.11 | 0.702 | 0.834 |
| | LTE Band 7_Ant MIMO 2 | 20M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 21100 | 2535 | Sample 1 | 16.07 | 17.00 | 1.239 | -0.05 | 0.654 | 0.810 |
| | LTE Band 7_Ant MIMO 2 | 20M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 20850 | 2510 | Sample 1 | 15.99 | 17.00 | 1.262 | -0.08 | 0.633 | 0.799 |
| | LTE Band 7_Ant MIMO 2 | 20M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 21350 | 2560 | Sample 1 | 16.04 | 17.00 | 1.247 | 0.16 | 0.629 | 0.785 |
| | LTE Band 7_Ant MIMO 2 | 20M | QPSK | 100 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 21100 | 2535 | Sample 1 | 16.04 | 17.00 | 1.247 | 0.05 | 0.644 | 0.803 |
| | LTE Band 7_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 16mm | MIMO2 | OFF | 21100 | 2535 | Sample 1 | 22.66 | 24.00 | 1.361 | -0.15 | 0.321 | 0.437 |
| | LTE Band 7_Ant MIMO 2 | 20M | QPSK | 50 | 0 | Bottom of Laptop | 16mm | MIMO2 | OFF | 21100 | 2535 | Sample 1 | 21.68 | 23.00 | 1.355 | 0.02 | 0.244 | 0.331 |
| | LTE Band 7_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 21100 | 2535 | Sample 2 | 16.27 | 17.00 | 1.183 | 0.13 | 0.485 | 0.574 |
| | LTE Band 7_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 21100 | 2535 | Sample 3 | 16.27 | 17.00 | 1.183 | 0.16 | 0.594 | 0.703 |
| | LTE Band 7_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 21100 | 2535 | Sample 4 | 16.27 | 17.00 | 1.183 | 0 | 0.853 | 1.009 |
| | LTE Band 7_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 20850 | 2510 | Sample 4 | 16.12 | 17.00 | 1.225 | 0.01 | 0.771 | 0.944 |
| 04 | LTE Band 7_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 21350 | 2560 | Sample 4 | 16.25 | 17.00 | 1.189 | 0.03 | 0.885 | 1.052 |
| | LTE Band 12_Ant Main | 10M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 23095 | 707.5 | Sample 1 | 23.81 | 24.00 | 1.045 | -0.08 | 1.040 | 1.087 |
| | LTE Band 12_Ant Main | 10M | QPSK | 25 | 0 | Bottom of Laptop | 0mm | Main | ON | 23095 | 707.5 | Sample 1 | 22.87 | 23.00 | 1.030 | 0.1 | 0.832 | 0.857 |
| | LTE Band 12_Ant Main | 10M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | Main | ON | 23095 | 707.5 | Sample 1 | 22.85 | 23.00 | 1.035 | -0.18 | 0.811 | 0.840 |
| | LTE Band 12_Ant Main | 10M | QPSK | 1 | 0 | Bottom of Laptop | 24mm | Main | OFF | 23095 | 707.5 | Sample 1 | 23.81 | 25.00 | 1.315 | 0.05 | 0.089 | 0.117 |
| | LTE Band 12_Ant Main | 10M | QPSK | 25 | 0 | Bottom of Laptop | 24mm | Main | OFF | 23095 | 707.5 | Sample 1 | 22.87 | 24.00 | 1.297 | 0.09 | 0.073 | 0.095 |
| | LTE Band 12_Ant Main | 10M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 23095 | 707.5 | Sample 2 | 23.81 | 24.00 | 1.045 | 0.12 | 0.868 | 0.907 |
| | LTE Band 12_Ant Main | 10M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 23095 | 707.5 | Sample 3 | 23.81 | 24.00 | 1.045 | 0.08 | 1.100 | 1.149 |
| 05 | LTE Band 12_Ant Main | 10M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 23095 | 707.5 | Sample 4 | 23.81 | 24.00 | 1.045 | -0.07 | 1.120 | 1.170 |
| | LTE Band 13_Ant Main | 10M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 23230 | 782 | Sample 1 | 22.79 | 23.50 | 1.178 | -0.01 | 0.868 | 1.022 |
| | LTE Band 13_Ant Main | 10M | QPSK | 25 | 0 | Bottom of Laptop | 0mm | Main | ON | 23230 | 782 | Sample 1 | 21.89 | 22.50 | 1.151 | -0.06 | 0.694 | 0.799 |
| | LTE Band 13_Ant Main | 10M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | Main | ON | 23230 | 782 | Sample 1 | 21.86 | 22.50 | 1.159 | -0.04 | 0.688 | 0.797 |
| | LTE Band 13_Ant Main | 10M | QPSK | 1 | 0 | Bottom of Laptop | 24mm | Main | OFF | 23230 | 782 | Sample 1 | 23.73 | 25.00 | 1.340 | 0.18 | 0.088 | 0.118 |
| | LTE Band 13_Ant Main | 10M | QPSK | 25 | 0 | Bottom of Laptop | 24mm | Main | OFF | 23230 | 782 | Sample 1 | 22.79 | 24.00 | 1.321 | -0.17 | 0.063 | 0.083 |
| | LTE Band 13_Ant Main | 10M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 23230 | 782 | Sample 2 | 22.79 | 23.50 | 1.178 | 0 | 0.814 | 0.959 |
| | LTE Band 13_Ant Main | 10M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 23230 | 782 | Sample 3 | 22.79 | 23.50 | 1.178 | -0.13 | 0.817 | 0.962 |
| 06 | LTE Band 13_Ant Main | 10M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 23230 | 782 | Sample 4 | 22.79 | 23.50 | 1.178 | 0.01 | 0.968 | 1.140 |
| | LTE Band 14_Ant Main | 10M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 23330 | 793 | Sample 1 | 22.95 | 23.50 | 1.135 | -0.14 | 0.875 | 0.993 |
| | LTE Band 14_Ant Main | 10M | QPSK | 25 | 0 | Bottom of Laptop | 0mm | Main | ON | 23330 | 793 | Sample 1 | 21.86 | 22.50 | 1.159 | -0.19 | 0.700 | 0.811 |
| | LTE Band 14_Ant Main | 10M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | Main | ON | 23330 | 793 | Sample 1 | 21.78 | 22.50 | 1.180 | 0.01 | 0.688 | 0.812 |
| | LTE Band 14_Ant Main | 10M | QPSK | 1 | 0 | Bottom of Laptop | 24mm | Main | OFF | 23330 | 793 | Sample 1 | 23.86 | 25.00 | 1.300 | -0.16 | 0.087 | 0.113 |
| | LTE Band 14_Ant Main | 10M | QPSK | 25 | 0 | Bottom of Laptop | 24mm | Main | OFF | 23330 | 793 | Sample 1 | 22.85 | 24.00 | 1.303 | -0.12 | 0.073 | 0.095 |
| | LTE Band 14_Ant Main | 10M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 23330 | 793 | Sample 2 | 22.95 | 23.50 | 1.135 | -0.05 | 0.855 | 0.970 |
| | LTE Band 14_Ant Main | 10M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 23330 | 793 | Sample 3 | 22.95 | 23.50 | 1.135 | -0.13 | 0.804 | 0.913 |
| 07 | LTE Band 14_Ant Main | 10M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 23330 | 793 | Sample 4 | 22.95 | 23.50 | 1.135 | 0.02 | 0.961 | 1.091 |
| | LTE Band 25_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 26340 | 1880 | Sample 1 | 17.94 | 18.50 | 1.138 | -0.09 | 0.978 | 1.113 |
| | LTE Band 25_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 26590 | 1905 | Sample 1 | 17.84 | 18.50 | 1.164 | -0.08 | 1.000 | 1.164 |
| | LTE Band 25_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 26140 | 1860 | Sample 1 | 17.91 | 18.50 | 1.146 | 0.13 | 0.961 | 1.101 |
| | LTE Band 25_Ant Main | 20M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | Main | ON | 26340 | 1880 | Sample 1 | 16.98 | 17.50 | 1.127 | 0.12 | 0.781 | 0.880 |
| | LTE Band 25_Ant Main | 20M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | Main | ON | 26590 | 1905 | Sample 1 | 16.93 | 17.50 | 1.140 | 0.03 | 0.804 | 0.917 |
| | LTE Band 25_Ant Main | 20M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | Main | ON | 26140 | 1860 | Sample 1 | 16.94 | 17.50 | 1.138 | 0.18 | 0.770 | 0.876 |
| | LTE Band 25_Ant Main | 20M | QPSK | 100 | 0 | Bottom of Laptop | 0mm | Main | ON | 26340 | 1880 | Sample 1 | 16.97 | 17.50 | 1.130 | 0.16 | 0.753 | 0.851 |
| | LTE Band 25_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 24mm | Main | OFF | 26340 | 1880 | Sample 1 | 23.27 | 25.00 | 1.489 | 0.18 | 0.150 | 0.223 |
| | LTE Band 25_Ant Main | 20M | QPSK | 50 | 0 | Bottom of Laptop | 24mm | Main | OFF | 26340 | 1880 | Sample 1 | 22.36 | 24.00 | 1.459 | -0.1 | 0.112 | 0.163 |
| | LTE Band 25_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 26590 | 1905 | Sample 2 | 17.84 | 18.50 | 1.164 | 0.07 | 1.010 | 1.176 |
| | LTE Band 25_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 26140 | 1860 | Sample 2 | 17.91 | 18.50 | 1.146 | -0.18 | 0.969 | 1.110 |
| | LTE Band 25_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 26340 | 1880 | Sample 2 | 17.94 | 18.50 | 1.138 | 0.19 | 1.010 | 1.149 |
| 08 | LTE Band 25_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 26590 | 1905 | Sample 3 | 17.84 | 18.50 | 1.164 | -0.15 | 1.020 | 1.187 |



FCC SAR TEST REPORT

Report No. : FA3N1058

Table with columns: Band, Power, Modulation, Tx/Rx, Position, Distance, Mode, Status, Frequency, Power, Sample, E1, E2, E3, E4, E5, E6, E7, E8. Includes rows for LTE Bands 25, 26, 30, 5B, and 5A.



FCC SAR TEST REPORT

Report No. : FA3N1058

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Antenna | Power Reduction | Ch. | Freq. (MHz) | Sample | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------------------------|----------|------------|---------|-----------|------------------|----------|---------|-----------------|-------------|-------------|----------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| | LTE Band 41_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 40185 | 2549.5 | Sample 1 | 15.65 | 16.50 | 1.216 | 62.9 | 1.006 | 0.08 | 0.488 | 0.597 |
| | LTE Band 41_Ant Main | 20M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | Main | ON | 40185 | 2549.5 | Sample 1 | 14.73 | 15.50 | 1.194 | 62.9 | 1.006 | -0.18 | 0.377 | 0.453 |
| | LTE Band 41_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 24mm | Main | OFF | 40185 | 2549.5 | Sample 1 | 23.74 | 25.00 | 1.337 | 62.9 | 1.006 | 0.05 | 0.222 | 0.299 |
| | LTE Band 41_Ant Main | 20M | QPSK | 50 | 0 | Bottom of Laptop | 24mm | Main | OFF | 40185 | 2549.5 | Sample 1 | 22.81 | 24.00 | 1.315 | 62.9 | 1.006 | -0.07 | 0.189 | 0.250 |
| | LTE Band 41_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 40185 | 2549.5 | Sample 2 | 15.65 | 16.50 | 1.216 | 62.9 | 1.006 | 0.14 | 0.387 | 0.473 |
| | LTE Band 41_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 40185 | 2549.5 | Sample 3 | 15.65 | 16.50 | 1.216 | 62.9 | 1.006 | 0.17 | 0.337 | 0.412 |
| | LTE Band 41_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 40185 | 2549.5 | Sample 4 | 15.65 | 16.50 | 1.216 | 62.9 | 1.006 | 0.03 | 0.494 | 0.604 |
| | LTE Band 41_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 39750 | 2506 | Sample 4 | 15.50 | 16.50 | 1.259 | 62.9 | 1.006 | 0.08 | 0.373 | 0.472 |
| | LTE Band 41_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 40620 | 2593 | Sample 4 | 15.62 | 16.50 | 1.225 | 62.9 | 1.006 | 0.03 | 0.397 | 0.489 |
| | LTE Band 41_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 41055 | 2636.5 | Sample 4 | 15.64 | 16.50 | 1.219 | 62.9 | 1.006 | -0.08 | 0.262 | 0.321 |
| | LTE Band 41_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 41490 | 2680 | Sample 4 | 15.41 | 16.50 | 1.285 | 62.9 | 1.006 | -0.08 | 0.256 | 0.331 |
| | LTE Band 41_HPUE_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 40185 | 2549.5 | Sample 4 | 17.71 | 18.50 | 1.199 | 42.9 | 1.009 | -0.02 | 0.492 | 0.595 |
| | LTE Band 41C_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 40620+40422 | 2593 | Sample 4 | 15.58 | 16.50 | 1.236 | 62.9 | 1.006 | -0.09 | 0.244 | 0.303 |
| | LTE Band 41C_HPUE_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 40620+40422 | 2593 | Sample 4 | 17.45 | 18.50 | 1.274 | 42.9 | 1.009 | 0.13 | 0.222 | 0.285 |
| | LTE Band 41_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 40620 | 2593 | Sample 1 | 17.85 | 18.50 | 1.161 | 62.9 | 1.006 | 0.12 | 0.466 | 0.544 |
| | LTE Band 41_Ant MIMO 2 | 20M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 40620 | 2593 | Sample 1 | 17.72 | 18.50 | 1.197 | 62.9 | 1.006 | 0.18 | 0.447 | 0.538 |
| | LTE Band 41_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 16mm | MIMO2 | OFF | 40620 | 2593 | Sample 1 | 22.75 | 24.00 | 1.334 | 62.9 | 1.006 | 0.05 | 0.251 | 0.337 |
| | LTE Band 41_Ant MIMO 2 | 20M | QPSK | 50 | 0 | Bottom of Laptop | 16mm | MIMO2 | OFF | 40620 | 2593 | Sample 1 | 21.78 | 23.00 | 1.324 | 62.9 | 1.006 | 0.04 | 0.177 | 0.236 |
| | LTE Band 41_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 40620 | 2593 | Sample 2 | 17.85 | 18.50 | 1.161 | 62.9 | 1.006 | 0.17 | 0.844 | 0.986 |
| | LTE Band 41_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 39750 | 2506 | Sample 2 | 17.41 | 18.50 | 1.285 | 62.9 | 1.006 | -0.04 | 0.825 | 1.067 |
| | LTE Band 41_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 40185 | 2549.5 | Sample 2 | 17.57 | 18.50 | 1.239 | 62.9 | 1.006 | -0.08 | 0.867 | 1.080 |
| | LTE Band 41_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 41055 | 2636.5 | Sample 2 | 17.56 | 18.50 | 1.242 | 62.9 | 1.006 | 0.18 | 0.656 | 0.819 |
| | LTE Band 41_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 41490 | 2680 | Sample 2 | 17.64 | 18.50 | 1.219 | 62.9 | 1.006 | -0.04 | 0.494 | 0.606 |
| | LTE Band 41_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 40620 | 2593 | Sample 3 | 17.85 | 18.50 | 1.161 | 62.9 | 1.006 | 0.06 | 0.474 | 0.554 |
| | LTE Band 41_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 40620 | 2593 | Sample 4 | 17.85 | 18.50 | 1.161 | 62.9 | 1.006 | 0.05 | 0.837 | 0.978 |
| | LTE Band 41_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 39750 | 2506 | Sample 4 | 17.41 | 18.50 | 1.285 | 62.9 | 1.006 | -0.07 | 0.763 | 0.987 |
| 11 | LTE Band 41_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 40185 | 2549.5 | Sample 4 | 17.57 | 18.50 | 1.239 | 62.9 | 1.006 | -0.01 | 0.869 | 1.083 |
| | LTE Band 41_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 41055 | 2636.5 | Sample 4 | 17.56 | 18.50 | 1.242 | 62.9 | 1.006 | -0.11 | 0.763 | 0.953 |
| | LTE Band 41_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 41490 | 2680 | Sample 4 | 17.64 | 18.50 | 1.219 | 62.9 | 1.006 | -0.12 | 0.685 | 0.840 |



FCC SAR TEST REPORT

Report No. : FA3N1058

Table with columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Test Position, Gap (mm), Antenna, Power Reduction, Ch., Freq. (MHz), Sample, Average Power (dBm), Tune-Up Limit (dBm), Tune-up Scaling Factor, Duty Cycle %, Duty Cycle Scaling Factor, Power Drift (dB), Measured 1g SAR (W/kg), Reported 1g SAR (W/kg). Rows include LTE Band 42_Ant Main, LTE Band 42_Ant MIMO 2, LTE Band 42C_Ant Main, and LTE Band 43_Ant MIMO 2.



FCC SAR TEST REPORT

Report No. : FA3N1058

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Antenna | Power Reduction | Ch. | Freq. (MHz) | Sample | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------------------|----------|------------|---------|-----------|------------------|----------|---------|-----------------|-------------|-------------|----------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| | LTE Band 48_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 55830 | 3609 | Sample 1 | 16.74 | 17.50 | 1.191 | 62.9 | 1.006 | -0.08 | 0.667 | 0.799 |
| | LTE Band 48_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 55340 | 3560 | Sample 1 | 16.78 | 17.50 | 1.180 | 62.9 | 1.006 | 0.16 | 0.682 | 0.810 |
| | LTE Band 48_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 56150 | 3641 | Sample 1 | 16.77 | 17.50 | 1.183 | 62.9 | 1.006 | 0.05 | 0.836 | 0.995 |
| | LTE Band 48_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 56640 | 3690 | Sample 1 | 16.75 | 17.50 | 1.189 | 62.9 | 1.006 | 0.05 | 0.810 | 0.968 |
| | LTE Band 48_Ant Main | 20M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | Main | ON | 55830 | 3609 | Sample 1 | 16.73 | 17.50 | 1.194 | 62.9 | 1.006 | -0.1 | 0.654 | 0.786 |
| | LTE Band 48_Ant Main | 20M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | Main | ON | 55340 | 3560 | Sample 1 | 16.77 | 17.50 | 1.183 | 62.9 | 1.006 | 0.18 | 0.669 | 0.796 |
| | LTE Band 48_Ant Main | 20M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | Main | ON | 56150 | 3641 | Sample 1 | 16.76 | 17.50 | 1.186 | 62.9 | 1.006 | -0.17 | 0.820 | 0.978 |
| | LTE Band 48_Ant Main | 20M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | Main | ON | 56640 | 3690 | Sample 1 | 16.74 | 17.50 | 1.191 | 62.9 | 1.006 | -0.04 | 0.794 | 0.952 |
| | LTE Band 48_Ant Main | 20M | QPSK | 100 | 0 | Bottom of Laptop | 0mm | Main | ON | 55830 | 3609 | Sample 1 | 16.72 | 17.50 | 1.197 | 62.9 | 1.006 | -0.05 | 0.646 | 0.778 |
| | LTE Band 48_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 24mm | Main | OFF | 55340 | 3560 | Sample 1 | 20.46 | 22.00 | 1.426 | 62.9 | 1.006 | -0.13 | 0.055 | 0.079 |
| | LTE Band 48_Ant Main | 20M | QPSK | 50 | 0 | Bottom of Laptop | 24mm | Main | OFF | 55340 | 3560 | Sample 1 | 19.49 | 21.00 | 1.416 | 62.9 | 1.006 | -0.01 | 0.038 | 0.054 |
| | LTE Band 48_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 56150 | 3641 | Sample 2 | 16.77 | 17.50 | 1.183 | 62.9 | 1.006 | 0.02 | 0.705 | 0.839 |
| | LTE Band 48_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 55340 | 3560 | Sample 2 | 16.78 | 17.50 | 1.180 | 62.9 | 1.006 | 0.16 | 0.679 | 0.806 |
| | LTE Band 48_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 55830 | 3609 | Sample 2 | 16.74 | 17.50 | 1.191 | 62.9 | 1.006 | -0.03 | 0.727 | 0.871 |
| | LTE Band 48_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 56640 | 3690 | Sample 2 | 16.75 | 17.50 | 1.189 | 62.9 | 1.006 | 0.07 | 0.787 | 0.941 |
| 14 | LTE Band 48_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 56150 | 3641 | Sample 3 | 16.77 | 17.50 | 1.183 | 62.9 | 1.006 | 0.01 | 0.926 | 1.102 |
| | LTE Band 48_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 55340 | 3560 | Sample 3 | 16.78 | 17.50 | 1.180 | 62.9 | 1.006 | 0 | 0.664 | 0.788 |
| | LTE Band 48_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 55830 | 3609 | Sample 3 | 16.74 | 17.50 | 1.191 | 62.9 | 1.006 | 0.01 | 0.896 | 1.074 |
| | LTE Band 48_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 56640 | 3690 | Sample 3 | 16.75 | 17.50 | 1.189 | 62.9 | 1.006 | -0.01 | 0.787 | 0.941 |
| | LTE Band 48_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 56150 | 3641 | Sample 4 | 16.77 | 17.50 | 1.183 | 62.9 | 1.006 | -0.06 | 0.374 | 0.445 |
| | LTE Band 48_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 55340 | 3560 | Sample 4 | 16.78 | 17.50 | 1.180 | 62.9 | 1.006 | -0.04 | 0.340 | 0.404 |
| | LTE Band 48_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 55830 | 3609 | Sample 4 | 16.74 | 17.50 | 1.191 | 62.9 | 1.006 | -0.09 | 0.341 | 0.409 |
| | LTE Band 48_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 56640 | 3690 | Sample 4 | 16.75 | 17.50 | 1.189 | 62.9 | 1.006 | -0.17 | 0.532 | 0.636 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 55830 | 3609 | Sample 1 | 16.12 | 16.50 | 1.091 | 62.9 | 1.006 | -0.08 | 0.611 | 0.671 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 55340 | 3560 | Sample 1 | 15.89 | 16.50 | 1.151 | 62.9 | 1.006 | 0.05 | 0.741 | 0.858 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 56150 | 3641 | Sample 1 | 16.11 | 16.50 | 1.094 | 62.9 | 1.006 | 0.06 | 0.618 | 0.680 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 56640 | 3690 | Sample 1 | 16.07 | 16.50 | 1.104 | 62.9 | 1.006 | -0.09 | 0.711 | 0.790 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 55830 | 3609 | Sample 1 | 15.33 | 15.50 | 1.040 | 62.9 | 1.006 | -0.08 | 0.487 | 0.509 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 100 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 56640 | 3690 | Sample 1 | 15.28 | 15.50 | 1.052 | 62.9 | 1.006 | 0.18 | 0.564 | 0.597 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 16mm | MIMO2 | OFF | 55830 | 3609 | Sample 1 | 20.97 | 22.00 | 1.268 | 62.9 | 1.006 | 0.03 | 0.125 | 0.159 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 50 | 0 | Bottom of Laptop | 16mm | MIMO2 | OFF | 55830 | 3609 | Sample 1 | 19.85 | 21.00 | 1.303 | 62.9 | 1.006 | 0.09 | 0.089 | 0.117 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 55340 | 3560 | Sample 2 | 15.89 | 16.50 | 1.151 | 62.9 | 1.006 | -0.15 | 0.851 | 0.985 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 55830 | 3609 | Sample 2 | 16.12 | 16.50 | 1.091 | 62.9 | 1.006 | 0.19 | 0.704 | 0.773 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 56150 | 3641 | Sample 2 | 16.11 | 16.50 | 1.094 | 62.9 | 1.006 | 0.07 | 0.674 | 0.742 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 56640 | 3690 | Sample 2 | 16.07 | 16.50 | 1.104 | 62.9 | 1.006 | -0.18 | 0.534 | 0.593 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 55340 | 3560 | Sample 3 | 15.89 | 16.50 | 1.151 | 62.9 | 1.006 | 0.03 | 0.654 | 0.757 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 55830 | 3609 | Sample 3 | 16.12 | 16.50 | 1.091 | 62.9 | 1.006 | -0.15 | 0.461 | 0.506 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 56150 | 3641 | Sample 3 | 16.11 | 16.50 | 1.094 | 62.9 | 1.006 | -0.15 | 0.414 | 0.456 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 56640 | 3690 | Sample 3 | 16.07 | 16.50 | 1.104 | 62.9 | 1.006 | 0.11 | 0.441 | 0.490 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 55340 | 3560 | Sample 4 | 15.89 | 16.50 | 1.151 | 62.9 | 1.006 | 0 | 0.928 | 1.074 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 55830 | 3609 | Sample 4 | 16.12 | 16.50 | 1.091 | 62.9 | 1.006 | -0.08 | 0.724 | 0.795 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 56150 | 3641 | Sample 4 | 16.11 | 16.50 | 1.094 | 62.9 | 1.006 | -0.17 | 0.661 | 0.727 |
| | LTE Band 48_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 56640 | 3690 | Sample 4 | 16.07 | 16.50 | 1.104 | 62.9 | 1.006 | -0.08 | 0.654 | 0.726 |
| | LTE Band 48C_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 55340+55538 | 3560 | Sample 4 | 16.21 | 16.50 | 1.069 | 62.9 | 1.006 | 0.03 | 0.600 | 0.645 |
| | LTE Band 48C_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 55632+55830 | 3589.2 | Sample 4 | 16.11 | 16.50 | 1.094 | 62.9 | 1.006 | -0.08 | 0.655 | 0.721 |
| | LTE Band 48C_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 55952+56150 | 3621.2 | Sample 4 | 16.03 | 16.50 | 1.114 | 62.9 | 1.006 | -0.05 | 0.602 | 0.675 |
| | LTE Band 48C_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 56442+56640 | 3670.2 | Sample 4 | 16.13 | 16.50 | 1.089 | 62.9 | 1.006 | 0.06 | 0.647 | 0.709 |



FCC SAR TEST REPORT

Report No. : FA3N1058

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Antenna | Power Reduction | Ch. | Freq. (MHz) | Sample | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------------------|----------|------------|---------|-----------|------------------|----------|---------|-----------------|---------------|-------------|----------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| | LTE Band 66_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 132322 | 1745 | Sample 1 | 17.43 | 18.00 | 1.140 | | 1.000 | -0.17 | 0.716 | 0.816 |
| | LTE Band 66_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 132072 | 1720 | Sample 1 | 17.37 | 18.00 | 1.156 | | 1.000 | -0.08 | 0.704 | 0.814 |
| | LTE Band 66_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 132572 | 1770 | Sample 1 | 17.42 | 18.00 | 1.143 | | 1.000 | -0.04 | 0.636 | 0.727 |
| | LTE Band 66_Ant Main | 20M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | Main | ON | 132322 | 1745 | Sample 1 | 16.43 | 17.00 | 1.140 | | 1.000 | -0.08 | 0.572 | 0.652 |
| | LTE Band 66_Ant Main | 20M | QPSK | 100 | 0 | Bottom of Laptop | 0mm | Main | ON | 132322 | 1745 | Sample 1 | 16.42 | 17.00 | 1.143 | | 1.000 | -0.04 | 0.549 | 0.627 |
| | LTE Band 66_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 24mm | Main | OFF | 132322 | 1745 | Sample 1 | 23.50 | 25.00 | 1.413 | | 1.000 | -0.13 | 0.274 | 0.387 |
| | LTE Band 66_Ant Main | 20M | QPSK | 50 | 0 | Bottom of Laptop | 24mm | Main | OFF | 132322 | 1745 | Sample 1 | 22.49 | 24.00 | 1.416 | | 1.000 | 0.06 | 0.238 | 0.337 |
| | LTE Band 66_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 132322 | 1745 | Sample 2 | 17.43 | 18.00 | 1.140 | | 1.000 | 0.08 | 0.681 | 0.777 |
| | LTE Band 66_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 132322 | 1745 | Sample 3 | 17.43 | 18.00 | 1.140 | | 1.000 | -0.11 | 0.803 | 0.916 |
| | LTE Band 66_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 132072 | 1720 | Sample 3 | 17.37 | 18.00 | 1.156 | | 1.000 | 0.03 | 0.889 | 1.028 |
| | LTE Band 66_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 132572 | 1770 | Sample 3 | 17.42 | 18.00 | 1.143 | | 1.000 | -0.12 | 0.669 | 0.765 |
| | LTE Band 66B_Ant Main | 15M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 132229+132322 | 1735.7 | Sample 3 | 17.25 | 18.00 | 1.189 | | 1.000 | 0.06 | 0.677 | 0.805 |
| | LTE Band 66B_Ant Main | 15M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 132047+132140 | 1717.5 | Sample 3 | 17.22 | 18.00 | 1.197 | | 1.000 | -0.08 | 0.655 | 0.784 |
| | LTE Band 66B_Ant Main | 15M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 132504+132597 | 1763.2 | Sample 3 | 17.12 | 18.00 | 1.225 | | 1.000 | -0.04 | 0.623 | 0.763 |
| | LTE Band 66C_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 132322+132124 | 1745 | Sample 3 | 17.37 | 18.00 | 1.156 | | 1.000 | 0.03 | 0.699 | 0.808 |
| | LTE Band 66C_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 132072+132270 | 1720 | Sample 3 | 17.05 | 18.00 | 1.245 | | 1.000 | -0.04 | 0.622 | 0.774 |
| | LTE Band 66C_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 132572+132374 | 1770 | Sample 3 | 17.35 | 18.00 | 1.161 | | 1.000 | 0.13 | 0.655 | 0.761 |
| | LTE Band 66_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | ON | 132322 | 1745 | Sample 4 | 17.43 | 18.00 | 1.140 | | 1.000 | 0.03 | 0.570 | 0.650 |
| | LTE Band 66_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 132322 | 1745 | Sample 1 | 17.78 | 18.00 | 1.052 | | 1.000 | -0.01 | 1.010 | 1.062 |
| | LTE Band 66_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 132072 | 1720 | Sample 1 | 17.71 | 18.00 | 1.069 | | 1.000 | -0.09 | 0.868 | 0.928 |
| 15 | LTE Band 66_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 132572 | 1770 | Sample 1 | 17.64 | 18.00 | 1.086 | | 1.000 | -0.16 | 1.020 | 1.108 |
| | LTE Band 66_Ant MIMO 2 | 20M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 132322 | 1745 | Sample 1 | 17.75 | 18.00 | 1.059 | | 1.000 | 0.05 | 0.955 | 1.012 |
| | LTE Band 66_Ant MIMO 2 | 20M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 132072 | 1720 | Sample 1 | 17.68 | 18.00 | 1.076 | | 1.000 | 0.02 | 0.852 | 0.917 |
| | LTE Band 66_Ant MIMO 2 | 20M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 132572 | 1770 | Sample 1 | 17.61 | 18.00 | 1.094 | | 1.000 | -0.13 | 0.961 | 1.051 |
| | LTE Band 66_Ant MIMO 2 | 20M | QPSK | 100 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 132322 | 1745 | Sample 1 | 17.65 | 18.00 | 1.084 | | 1.000 | 0.05 | 0.959 | 1.039 |
| | LTE Band 66_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 16mm | MIMO2 | OFF | 132322 | 1745 | Sample 1 | 22.77 | 24.00 | 1.327 | | 1.000 | 0 | 0.394 | 0.523 |
| | LTE Band 66_Ant MIMO 2 | 20M | QPSK | 50 | 0 | Bottom of Laptop | 16mm | MIMO2 | OFF | 132322 | 1745 | Sample 1 | 21.66 | 23.00 | 1.361 | | 1.000 | -0.04 | 0.343 | 0.467 |
| | LTE Band 66_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 132572 | 1770 | Sample 2 | 17.64 | 18.00 | 1.086 | | 1.000 | -0.02 | 0.803 | 0.872 |
| | LTE Band 66_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 132072 | 1720 | Sample 2 | 17.71 | 18.00 | 1.069 | | 1.000 | 0.1 | 0.703 | 0.752 |
| | LTE Band 66_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 132322 | 1745 | Sample 2 | 17.78 | 18.00 | 1.052 | | 1.000 | 0.04 | 0.764 | 0.804 |
| | LTE Band 66_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 132572 | 1770 | Sample 3 | 17.64 | 18.00 | 1.086 | | 1.000 | 0.13 | 0.952 | 1.034 |
| | LTE Band 66_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 132072 | 1720 | Sample 3 | 17.71 | 18.00 | 1.069 | | 1.000 | -0.18 | 0.826 | 0.883 |
| | LTE Band 66_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 132322 | 1745 | Sample 3 | 17.78 | 18.00 | 1.052 | | 1.000 | -0.11 | 0.936 | 0.985 |
| | LTE Band 66_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 132572 | 1770 | Sample 4 | 17.64 | 18.00 | 1.086 | | 1.000 | -0.16 | 0.822 | 0.893 |
| | LTE Band 66_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 132072 | 1720 | Sample 4 | 17.71 | 18.00 | 1.069 | | 1.000 | -0.15 | 0.764 | 0.817 |
| | LTE Band 66_Ant MIMO 2 | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 132322 | 1745 | Sample 4 | 17.78 | 18.00 | 1.052 | | 1.000 | -0.06 | 0.784 | 0.825 |
| | LTE Band 71_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | OFF | 133297 | 680.5 | Sample 1 | 23.98 | 25.00 | 1.265 | | 1.000 | 0.08 | 0.888 | 1.123 |
| | LTE Band 71_Ant Main | 20M | QPSK | 50 | 0 | Bottom of Laptop | 0mm | Main | OFF | 133297 | 680.5 | Sample 1 | 23.05 | 24.00 | 1.245 | | 1.000 | 0.02 | 0.710 | 0.884 |
| | LTE Band 71_Ant Main | 20M | QPSK | 100 | 0 | Bottom of Laptop | 0mm | Main | OFF | 133297 | 680.5 | Sample 1 | 23.04 | 24.00 | 1.247 | | 1.000 | 0.03 | 0.693 | 0.864 |
| | LTE Band 71_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | OFF | 133297 | 680.5 | Sample 2 | 23.98 | 25.00 | 1.265 | | 1.000 | 0.03 | 0.800 | 1.012 |
| | LTE Band 71_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | OFF | 133297 | 680.5 | Sample 3 | 23.98 | 25.00 | 1.265 | | 1.000 | -0.08 | 0.872 | 1.103 |
| 16 | LTE Band 71_Ant Main | 20M | QPSK | 1 | 0 | Bottom of Laptop | 0mm | Main | OFF | 133297 | 680.5 | Sample 4 | 23.98 | 25.00 | 1.265 | | 1.000 | -0.1 | 0.912 | 1.153 |



<5G NR SAR>

Table with columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Test Position, Gap (mm), Antenna, Power Reduction, Ch., Freq. (MHz), Sample, Average Power (dBm), Tune-Up Limit (dBm), Tune-up Scaling Factor, Power Drift (dB), Measured 1g SAR (W/kg), Reported 1g SAR (W/kg). Rows include various configurations for FR1 n7, n12, n13, n14, and n25 Ant Main and MIMO 2.



FCC SAR TEST REPORT

Report No. : FA3N1058

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|----|-------------------------|------|------|-----|----|------------------|------|-------|-----|--------|---------|----------|-------|-------|-------|-------|-------|-------|
| | FR1 n25_Ant MIMO 2 | 40M | BPSK | 108 | 54 | Bottom of Laptop | 0mm | MIMO2 | ON | 376500 | 1882.5 | Sample 2 | 17.89 | 19.00 | 1.291 | 0.13 | 0.898 | 1.160 |
| | FR1 n25_Ant MIMO 2 | 40M | BPSK | 108 | 54 | Bottom of Laptop | 0mm | MIMO2 | ON | 376500 | 1882.5 | Sample 3 | 17.89 | 19.00 | 1.291 | 0.12 | 0.778 | 1.005 |
| | FR1 n25_Ant MIMO 2 | 40M | BPSK | 108 | 54 | Bottom of Laptop | 0mm | MIMO2 | ON | 376500 | 1882.5 | Sample 4 | 17.89 | 19.00 | 1.291 | 0.03 | 0.825 | 1.065 |
| | FR1 n26_Ant Main | 20M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 166300 | 831.5 | Sample 1 | 23.55 | 24.50 | 1.245 | 0.08 | 0.817 | 1.017 |
| | FR1 n26_Ant Main | 20M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | Main | ON | 166300 | 831.5 | Sample 1 | 23.51 | 24.50 | 1.256 | 0.01 | 0.816 | 1.025 |
| | FR1 n26_Ant Main | 20M | BPSK | 100 | 0 | Bottom of Laptop | 0mm | Main | ON | 166300 | 831.5 | Sample 1 | 23.45 | 24.50 | 1.274 | 0.05 | 0.795 | 1.012 |
| | FR1 n26_Ant Main | 20M | BPSK | 1 | 1 | Bottom of Laptop | 24mm | Main | OFF | 166300 | 831.5 | Sample 1 | 24.06 | 25.00 | 1.242 | -0.08 | 0.069 | 0.086 |
| | FR1 n26_Ant Main | 20M | BPSK | 50 | 28 | Bottom of Laptop | 24mm | Main | OFF | 166300 | 831.5 | Sample 1 | 24.00 | 25.00 | 1.259 | 0.1 | 0.066 | 0.083 |
| 22 | FR1 n26_Ant Main | 20M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | Main | ON | 166300 | 831.5 | Sample 2 | 23.51 | 24.50 | 1.256 | 0.02 | 0.910 | 1.143 |
| | FR1 n26_Ant Main | 20M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | Main | ON | 166300 | 831.5 | Sample 3 | 23.51 | 24.50 | 1.256 | 0.12 | 0.715 | 0.898 |
| | FR1 n26_Ant Main | 20M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | Main | ON | 166300 | 831.5 | Sample 4 | 23.51 | 24.50 | 1.256 | 0.08 | 0.848 | 1.065 |
| | FR1 n30_Ant Main | 10M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 462000 | 2310 | Sample 1 | 16.08 | 16.50 | 1.102 | 0.18 | 0.941 | 1.037 |
| | FR1 n30_Ant Main | 10M | BPSK | 25 | 14 | Bottom of Laptop | 0mm | Main | ON | 462000 | 2310 | Sample 1 | 15.93 | 16.50 | 1.140 | 0.16 | 0.894 | 1.019 |
| | FR1 n30_Ant Main | 10M | BPSK | 50 | 0 | Bottom of Laptop | 0mm | Main | ON | 462000 | 2310 | Sample 1 | 15.92 | 16.50 | 1.143 | -0.1 | 0.870 | 0.994 |
| | FR1 n30_Ant Main | 10M | BPSK | 1 | 1 | Bottom of Laptop | 24mm | Main | OFF | 462000 | 2310 | Sample 1 | 21.83 | 23.00 | 1.309 | -0.1 | 0.166 | 0.217 |
| | FR1 n30_Ant Main | 10M | BPSK | 25 | 14 | Bottom of Laptop | 24mm | Main | OFF | 462000 | 2310 | Sample 1 | 21.69 | 23.00 | 1.352 | 0.01 | 0.158 | 0.214 |
| | FR1 n30_Ant Main | 10M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 462000 | 2310 | Sample 2 | 16.08 | 16.50 | 1.102 | 0.07 | 0.634 | 0.698 |
| 23 | FR1 n30_Ant Main | 10M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 462000 | 2310 | Sample 3 | 16.08 | 16.50 | 1.102 | -0.01 | 1.020 | 1.124 |
| | FR1 n30_Ant Main | 10M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 462000 | 2310 | Sample 4 | 16.08 | 16.50 | 1.102 | -0.18 | 0.627 | 0.691 |
| | FR1 n30_Ant MIMO 2 | 10M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 462000 | 2310 | Sample 1 | 16.41 | 17.00 | 1.146 | 0.03 | 0.778 | 0.891 |
| | FR1 n30_Ant MIMO 2 | 10M | BPSK | 25 | 14 | Bottom of Laptop | 0mm | MIMO2 | ON | 462000 | 2310 | Sample 1 | 16.26 | 17.00 | 1.186 | -0.15 | 0.736 | 0.873 |
| | FR1 n30_Ant MIMO 2 | 10M | BPSK | 50 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 462000 | 2310 | Sample 1 | 16.23 | 17.00 | 1.194 | -0.15 | 0.706 | 0.843 |
| | FR1 n30_Ant MIMO 2 | 10M | BPSK | 1 | 1 | Bottom of Laptop | 16mm | MIMO2 | OFF | 462000 | 2310 | Sample 1 | 21.71 | 23.00 | 1.346 | -0.17 | 0.258 | 0.347 |
| | FR1 n30_Ant MIMO 2 | 10M | BPSK | 25 | 14 | Bottom of Laptop | 16mm | MIMO2 | OFF | 462000 | 2310 | Sample 1 | 21.53 | 23.00 | 1.403 | -0.08 | 0.235 | 0.330 |
| | FR1 n30_Ant MIMO 2 | 10M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 462000 | 2310 | Sample 2 | 16.41 | 17.00 | 1.146 | 0.17 | 0.742 | 0.850 |
| | FR1 n30_Ant MIMO 2 | 10M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 462000 | 2310 | Sample 3 | 16.41 | 17.00 | 1.146 | 0.18 | 0.662 | 0.758 |
| | FR1 n30_Ant MIMO 2 | 10M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 462000 | 2310 | Sample 4 | 16.41 | 17.00 | 1.146 | 0.02 | 0.932 | 1.068 |
| | FR1 n41_Ant Main | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 518598 | 2592.99 | Sample 1 | 13.50 | 14.50 | 1.259 | 0.05 | 0.329 | 0.414 |
| | FR1 n41_Ant Main | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | Main | ON | 518598 | 2592.99 | Sample 1 | 13.47 | 14.50 | 1.268 | -0.11 | 0.342 | 0.434 |
| | FR1 n41_Ant Main | 100M | BPSK | 1 | 1 | Bottom of Laptop | 24mm | Main | OFF | 518598 | 2592.99 | Sample 1 | 23.31 | 25.00 | 1.476 | 0.14 | 0.271 | 0.400 |
| | FR1 n41_Ant Main | 100M | BPSK | 135 | 69 | Bottom of Laptop | 24mm | Main | OFF | 518598 | 2592.99 | Sample 1 | 23.29 | 25.00 | 1.483 | -0.17 | 0.263 | 0.390 |
| | FR1 n41_Ant Main | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | Main | ON | 518598 | 2592.99 | Sample 2 | 13.47 | 14.50 | 1.268 | -0.12 | 0.404 | 0.512 |
| | FR1 n41_Ant Main | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | Main | ON | 518598 | 2592.99 | Sample 3 | 13.47 | 14.50 | 1.268 | 0.03 | 0.332 | 0.421 |
| | FR1 n41_Ant Main | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | Main | ON | 518598 | 2592.99 | Sample 4 | 13.47 | 14.50 | 1.268 | -0.01 | 0.487 | 0.617 |
| | FR1 n41_HPUE_Ant Main | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 518598 | 2592.99 | Sample 4 | 16.55 | 17.50 | 1.245 | 0.02 | 0.456 | 0.567 |
| | FR1 n41_Ant MIMO 1 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO1 | ON | 518598 | 2592.99 | Sample 1 | 15.12 | 16.00 | 1.225 | 0.1 | 0.466 | 0.571 |
| | FR1 n41_Ant MIMO 1 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | MIMO1 | ON | 518598 | 2592.99 | Sample 1 | 15.10 | 16.00 | 1.230 | -0.18 | 0.390 | 0.480 |
| | FR1 n41_Ant MIMO 1 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO1 | ON | 518598 | 2592.99 | Sample 2 | 15.12 | 16.00 | 1.225 | 0.06 | 0.572 | 0.700 |
| | FR1 n41_HPUE_Ant MIMO 1 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO1 | ON | 518598 | 2592.99 | Sample 2 | 18.16 | 19.00 | 1.213 | 0.03 | 0.532 | 0.646 |
| | FR1 n41_Ant MIMO 1 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO1 | ON | 518598 | 2592.99 | Sample 3 | 15.12 | 16.00 | 1.225 | 0.12 | 0.517 | 0.633 |
| | FR1 n41_Ant MIMO 1 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO1 | ON | 518598 | 2592.99 | Sample 4 | 15.12 | 16.00 | 1.225 | 0.08 | 0.374 | 0.458 |
| | FR1 n41_Ant MIMO 2 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 518598 | 2592.99 | Sample 1 | 15.79 | 16.50 | 1.178 | 0.08 | 0.892 | 1.050 |
| | FR1 n41_Ant MIMO 2 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | MIMO2 | ON | 518598 | 2592.99 | Sample 1 | 15.73 | 16.50 | 1.194 | 0.01 | 0.855 | 1.021 |
| | FR1 n41_Ant MIMO 2 | 100M | BPSK | 270 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 518598 | 2592.99 | Sample 1 | 15.69 | 16.50 | 1.205 | 0.05 | 0.823 | 0.992 |
| | FR1 n41_Ant MIMO 2 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 16mm | MIMO2 | OFF | 518598 | 2592.99 | Sample 1 | 23.77 | 24.00 | 1.054 | 0.03 | 0.379 | 0.400 |
| | FR1 n41_Ant MIMO 2 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 16mm | MIMO2 | OFF | 518598 | 2592.99 | Sample 1 | 23.74 | 24.00 | 1.062 | 0.01 | 0.369 | 0.392 |
| | FR1 n41_Ant MIMO 2 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 518598 | 2592.99 | Sample 2 | 15.79 | 16.50 | 1.178 | -0.18 | 0.987 | 1.162 |
| | FR1 n41_Ant MIMO 2 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 518598 | 2592.99 | Sample 3 | 15.79 | 16.50 | 1.178 | 0.1 | 0.622 | 0.732 |
| 24 | FR1 n41_Ant MIMO 2 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 518598 | 2592.99 | Sample 4 | 15.79 | 16.50 | 1.178 | -0.01 | 0.993 | 1.169 |
| | FR1 n41_HPUE_Ant MIMO 2 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 518598 | 2592.99 | Sample 4 | 18.75 | 19.50 | 1.189 | 0.11 | 0.890 | 1.058 |
| | FR1 n41_Ant AUX | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | AUX | ON | 518598 | 2592.99 | Sample 1 | 13.02 | 13.50 | 1.117 | -0.03 | 0.461 | 0.515 |
| | FR1 n41_Ant AUX | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | AUX | ON | 518598 | 2592.99 | Sample 1 | 12.98 | 13.50 | 1.127 | 0.08 | 0.305 | 0.344 |
| | FR1 n41_Ant Aux | 100M | BPSK | 1 | 1 | Bottom of Laptop | 20mm | AUX | OFF | 518598 | 2592.99 | Sample 1 | 23.64 | 25.00 | 1.368 | -0.01 | 0.330 | 0.451 |
| | FR1 n41_Ant Aux | 100M | BPSK | 135 | 69 | Bottom of Laptop | 20mm | AUX | OFF | 518598 | 2592.99 | Sample 1 | 23.59 | 25.00 | 1.384 | -0.08 | 0.321 | 0.444 |
| | FR1 n41_HPUE_Ant AUX | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | AUX | ON | 518598 | 2592.99 | Sample 1 | 16.05 | 16.50 | 1.109 | 0.01 | 0.456 | 0.506 |
| | FR1 n41_Ant AUX | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | AUX | ON | 518598 | 2592.99 | Sample 2 | 13.02 | 13.50 | 1.117 | 0.03 | 0.146 | 0.163 |



FCC SAR TEST REPORT

Report No. : FA3N1058

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|----|--------------------|------|------|-----|----|------------------|------|-------|-----|--------|---------|----------|-------|-------|-------|-------|-------|-------|
| | FR1 n41_Ant AUX | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | AUX | ON | 518598 | 2592.99 | Sample 3 | 13.02 | 13.50 | 1.117 | -0.08 | 0.338 | 0.377 |
| | FR1 n41_Ant AUX | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | AUX | ON | 518598 | 2592.99 | Sample 4 | 13.02 | 13.50 | 1.117 | -0.08 | 0.155 | 0.173 |
| | FR1 n48_Ant Main | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 641666 | 3624.99 | Sample 1 | 15.02 | 15.50 | 1.117 | -0.05 | 0.808 | 0.902 |
| | FR1 n48_Ant Main | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 638000 | 3570 | Sample 1 | 14.91 | 15.50 | 1.146 | 0.04 | 0.644 | 0.738 |
| | FR1 n48_Ant Main | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 645332 | 3679.98 | Sample 1 | 14.95 | 15.50 | 1.135 | 0.02 | 0.801 | 0.909 |
| | FR1 n48_Ant Main | 40M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | Main | ON | 641666 | 3624.99 | Sample 1 | 14.98 | 15.50 | 1.127 | 0.18 | 0.827 | 0.932 |
| | FR1 n48_Ant Main | 40M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | Main | ON | 638000 | 3570 | Sample 1 | 14.87 | 15.50 | 1.156 | 0.14 | 0.659 | 0.762 |
| | FR1 n48_Ant Main | 40M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | Main | ON | 645332 | 3679.98 | Sample 1 | 14.91 | 15.50 | 1.146 | -0.17 | 0.820 | 0.939 |
| | FR1 n48_Ant Main | 40M | BPSK | 100 | 0 | Bottom of Laptop | 0mm | Main | ON | 641666 | 3624.99 | Sample 1 | 14.96 | 15.50 | 1.132 | 0.05 | 0.811 | 0.918 |
| | FR1 n48_Ant Main | 40M | BPSK | 1 | 1 | Bottom of Laptop | 24mm | Main | OFF | 641666 | 3624.99 | Sample 1 | 21.21 | 22.00 | 1.199 | 0.01 | 0.149 | 0.179 |
| | FR1 n48_Ant Main | 40M | BPSK | 50 | 28 | Bottom of Laptop | 24mm | Main | OFF | 641666 | 3624.99 | Sample 1 | 21.17 | 22.00 | 1.211 | 0.1 | 0.138 | 0.167 |
| | FR1 n48_Ant Main | 40M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | Main | ON | 645332 | 3679.98 | Sample 2 | 14.91 | 15.50 | 1.146 | -0.01 | 0.738 | 0.845 |
| | FR1 n48_Ant Main | 40M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | Main | ON | 638000 | 3570 | Sample 2 | 14.87 | 15.50 | 1.156 | -0.08 | 0.706 | 0.816 |
| | FR1 n48_Ant Main | 40M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | Main | ON | 641666 | 3624.99 | Sample 2 | 14.98 | 15.50 | 1.127 | 0.05 | 0.724 | 0.816 |
| | FR1 n48_Ant Main | 40M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | Main | ON | 645332 | 3679.98 | Sample 3 | 14.91 | 15.50 | 1.146 | 0.06 | 0.850 | 0.974 |
| | FR1 n48_Ant Main | 40M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | Main | ON | 638000 | 3570 | Sample 3 | 14.87 | 15.50 | 1.156 | -0.09 | 0.810 | 0.936 |
| | FR1 n48_Ant Main | 40M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | Main | ON | 641666 | 3624.99 | Sample 3 | 14.98 | 15.50 | 1.127 | 0 | 0.992 | 1.118 |
| | FR1 n48_Ant Main | 40M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | Main | ON | 645332 | 3679.98 | Sample 4 | 14.91 | 15.50 | 1.146 | -0.08 | 0.526 | 0.603 |
| | FR1 n48_Ant Main | 40M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | Main | ON | 638000 | 3570 | Sample 4 | 14.87 | 15.50 | 1.156 | 0.13 | 0.359 | 0.415 |
| | FR1 n48_Ant Main | 40M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | Main | ON | 641666 | 3624.99 | Sample 4 | 14.98 | 15.50 | 1.127 | 0.12 | 0.398 | 0.449 |
| | FR1 n48_Ant MIMO 1 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO1 | ON | 641666 | 3624.99 | Sample 1 | 8.58 | 9.50 | 1.236 | -0.04 | 0.067 | 0.083 |
| | FR1 n48_Ant MIMO 1 | 40M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | MIMO1 | ON | 641666 | 3624.99 | Sample 1 | 8.52 | 9.50 | 1.253 | -0.08 | 0.065 | 0.081 |
| | FR1 n48_Ant MIMO 1 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO1 | ON | 641666 | 3624.99 | Sample 2 | 8.58 | 9.50 | 1.236 | 0.05 | 0.316 | 0.391 |
| | FR1 n48_Ant MIMO 1 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO1 | ON | 641666 | 3624.99 | Sample 3 | 8.58 | 9.50 | 1.236 | 0.03 | 0.109 | 0.135 |
| | FR1 n48_Ant MIMO 1 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO1 | ON | 641666 | 3624.99 | Sample 4 | 8.58 | 9.50 | 1.236 | -0.04 | 0.375 | 0.463 |
| | FR1 n48_Ant MIMO 2 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 641666 | 3624.99 | Sample 1 | 13.47 | 14.50 | 1.268 | 0.08 | 0.505 | 0.640 |
| | FR1 n48_Ant MIMO 2 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 638000 | 3570 | Sample 1 | 13.45 | 14.50 | 1.274 | 0.01 | 0.731 | 0.931 |
| | FR1 n48_Ant MIMO 2 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 645332 | 3679.98 | Sample 1 | 13.42 | 14.50 | 1.282 | 0.03 | 0.514 | 0.659 |
| | FR1 n48_Ant MIMO 2 | 40M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | MIMO2 | ON | 641666 | 3624.99 | Sample 1 | 13.45 | 14.50 | 1.274 | -0.08 | 0.468 | 0.596 |
| | FR1 n48_Ant MIMO 2 | 40M | BPSK | 100 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 641666 | 3624.99 | Sample 1 | 13.41 | 14.50 | 1.285 | 0.04 | 0.464 | 0.596 |
| | FR1 n48_Ant MIMO 2 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 16mm | MIMO2 | OFF | 641666 | 3624.99 | Sample 1 | 20.61 | 22.00 | 1.377 | 0.05 | 0.252 | 0.347 |
| | FR1 n48_Ant MIMO 2 | 40M | BPSK | 50 | 28 | Bottom of Laptop | 16mm | MIMO2 | OFF | 641666 | 3624.99 | Sample 1 | 20.48 | 22.00 | 1.419 | -0.09 | 0.241 | 0.342 |
| | FR1 n48_Ant MIMO 2 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 638000 | 3570 | Sample 2 | 13.45 | 14.50 | 1.274 | -0.18 | 0.806 | 1.026 |
| | FR1 n48_Ant MIMO 2 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 641666 | 3624.99 | Sample 2 | 13.47 | 14.50 | 1.268 | 0.1 | 0.733 | 0.929 |
| | FR1 n48_Ant MIMO 2 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 645332 | 3679.98 | Sample 2 | 13.42 | 14.50 | 1.282 | 0.12 | 0.585 | 0.750 |
| | FR1 n48_Ant MIMO 2 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 638000 | 3570 | Sample 3 | 13.45 | 14.50 | 1.274 | 0.08 | 0.702 | 0.894 |
| | FR1 n48_Ant MIMO 2 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 641666 | 3624.99 | Sample 3 | 13.47 | 14.50 | 1.268 | -0.17 | 0.408 | 0.517 |
| | FR1 n48_Ant MIMO 2 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 645332 | 3679.98 | Sample 3 | 13.42 | 14.50 | 1.282 | -0.03 | 0.465 | 0.596 |
| 25 | FR1 n48_Ant MIMO 2 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 638000 | 3570 | Sample 4 | 13.45 | 14.50 | 1.274 | -0.02 | 0.937 | 1.193 |
| | FR1 n48_Ant MIMO 2 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 641666 | 3624.99 | Sample 4 | 13.47 | 14.50 | 1.268 | 0.14 | 0.649 | 0.823 |
| | FR1 n48_Ant MIMO 2 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 645332 | 3679.98 | Sample 4 | 13.42 | 14.50 | 1.282 | 0.11 | 0.583 | 0.748 |
| | FR1 n48_Ant Aux | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | AUX | ON | 641666 | 3624.99 | Sample 1 | 17.95 | 18.50 | 1.135 | 0.03 | 0.801 | 0.909 |
| | FR1 n48_Ant Aux | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | AUX | ON | 638000 | 3570 | Sample 1 | 17.85 | 18.50 | 1.161 | 0.18 | 0.842 | 0.978 |
| | FR1 n48_Ant Aux | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | AUX | ON | 645332 | 3679.98 | Sample 1 | 17.86 | 18.50 | 1.159 | 0.03 | 0.896 | 1.038 |
| | FR1 n48_Ant Aux | 40M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | AUX | ON | 641666 | 3624.99 | Sample 1 | 17.92 | 18.50 | 1.143 | 0.16 | 0.757 | 0.865 |
| | FR1 n48_Ant Aux | 40M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | AUX | ON | 638000 | 3570 | Sample 1 | 17.77 | 18.50 | 1.183 | 0.04 | 0.796 | 0.942 |
| | FR1 n48_Ant Aux | 40M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | AUX | ON | 645332 | 3679.98 | Sample 1 | 17.75 | 18.50 | 1.189 | 0.05 | 0.847 | 1.007 |
| | FR1 n48_Ant Aux | 40M | BPSK | 100 | 0 | Bottom of Laptop | 0mm | AUX | ON | 641666 | 3624.99 | Sample 1 | 17.91 | 18.50 | 1.146 | 0.04 | 0.752 | 0.861 |
| | FR1 n48_Ant Aux | 40M | BPSK | 1 | 1 | Bottom of Laptop | 20mm | AUX | OFF | 641666 | 3624.99 | Sample 1 | 21.14 | 22.00 | 1.219 | 0.18 | 0.326 | 0.397 |
| | FR1 n48_Ant Aux | 40M | BPSK | 50 | 28 | Bottom of Laptop | 20mm | AUX | OFF | 641666 | 3624.99 | Sample 1 | 21.08 | 22.00 | 1.236 | -0.1 | 0.311 | 0.384 |
| | FR1 n48_Ant Aux | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | AUX | ON | 645332 | 3679.98 | Sample 2 | 17.86 | 18.50 | 1.159 | 0.19 | 0.235 | 0.272 |
| | FR1 n48_Ant Aux | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | AUX | ON | 645332 | 3679.98 | Sample 3 | 17.86 | 18.50 | 1.159 | 0.03 | 0.747 | 0.866 |
| | FR1 n48_Ant Aux | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | AUX | ON | 641666 | 3624.99 | Sample 3 | 17.95 | 18.50 | 1.135 | -0.15 | 0.716 | 0.813 |
| | FR1 n48_Ant Aux | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | AUX | ON | 638000 | 3570 | Sample 3 | 17.85 | 18.50 | 1.161 | -0.15 | 0.689 | 0.800 |
| | FR1 n48_Ant Aux | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | AUX | ON | 645332 | 3679.98 | Sample 4 | 17.86 | 18.50 | 1.159 | 0.11 | 0.414 | 0.480 |
| | FR1 n66_Ant Main | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 349000 | 1745 | Sample 1 | 18.44 | 19.00 | 1.138 | 0.11 | 0.866 | 0.985 |



FCC SAR TEST REPORT

Report No. : FA3N1058

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|----|-------------------------|------|------|-----|----|------------------|------|-------|-----|--------|-------|----------|-------|-------|-------|-------|-------|-------|
| | FR1 n66_Ant Main | 40M | BPSK | 108 | 54 | Bottom of Laptop | 0mm | Main | ON | 349000 | 1745 | Sample 1 | 18.41 | 19.00 | 1.146 | -0.05 | 0.846 | 0.969 |
| | FR1 n66_Ant Main | 40M | BPSK | 216 | 0 | Bottom of Laptop | 0mm | Main | ON | 349000 | 1745 | Sample 1 | 18.40 | 19.00 | 1.148 | -0.08 | 0.819 | 0.940 |
| | FR1 n66_Ant Main | 40M | BPSK | 1 | 1 | Bottom of Laptop | 24mm | Main | OFF | 349000 | 1745 | Sample 1 | 23.80 | 25.00 | 1.318 | 0.05 | 0.266 | 0.351 |
| | FR1 n66_Ant Main | 40M | BPSK | 108 | 54 | Bottom of Laptop | 24mm | Main | OFF | 349000 | 1745 | Sample 1 | 23.73 | 25.00 | 1.340 | -0.03 | 0.259 | 0.347 |
| | FR1 n66_Ant Main | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 349000 | 1745 | Sample 2 | 18.44 | 19.00 | 1.138 | 0.07 | 0.857 | 0.975 |
| 26 | FR1 n66_Ant Main | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 349000 | 1745 | Sample 3 | 18.44 | 19.00 | 1.138 | 0.01 | 1.020 | 1.160 |
| | FR1 n66_Ant Main | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 349000 | 1745 | Sample 4 | 18.44 | 19.00 | 1.138 | 0.16 | 0.545 | 0.620 |
| | FR1 n66_Ant MIMO 2 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 349000 | 1745 | Sample 1 | 17.23 | 18.00 | 1.194 | 0.05 | 0.900 | 1.075 |
| | FR1 n66_Ant MIMO 2 | 40M | BPSK | 108 | 54 | Bottom of Laptop | 0mm | MIMO2 | ON | 349000 | 1745 | Sample 1 | 17.21 | 18.00 | 1.199 | 0.13 | 0.865 | 1.038 |
| | FR1 n66_Ant MIMO 2 | 40M | BPSK | 216 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 349000 | 1745 | Sample 1 | 17.19 | 18.00 | 1.205 | -0.18 | 0.846 | 1.019 |
| | FR1 n66_Ant MIMO 2 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 16mm | MIMO2 | OFF | 349000 | 1745 | Sample 1 | 22.68 | 24.00 | 1.355 | -0.03 | 0.377 | 0.511 |
| | FR1 n66_Ant MIMO 2 | 40M | BPSK | 108 | 54 | Bottom of Laptop | 16mm | MIMO2 | OFF | 349000 | 1745 | Sample 1 | 22.67 | 24.00 | 1.358 | 0.07 | 0.364 | 0.494 |
| | FR1 n66_Ant MIMO 2 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 349000 | 1745 | Sample 2 | 17.23 | 18.00 | 1.194 | -0.01 | 0.714 | 0.853 |
| | FR1 n66_Ant MIMO 2 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 349000 | 1745 | Sample 3 | 17.23 | 18.00 | 1.194 | -0.06 | 0.856 | 1.022 |
| | FR1 n66_Ant MIMO 2 | 40M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 349000 | 1745 | Sample 4 | 17.23 | 18.00 | 1.194 | -0.04 | 0.711 | 0.849 |
| | FR1 n71_Ant Main | 20M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 136100 | 680.5 | Sample 1 | 23.88 | 24.50 | 1.153 | -0.09 | 0.707 | 0.815 |
| | FR1 n71_Ant Main | 20M | BPSK | 50 | 28 | Bottom of Laptop | 0mm | Main | ON | 136100 | 680.5 | Sample 1 | 23.82 | 24.50 | 1.169 | -0.17 | 0.688 | 0.805 |
| | FR1 n71_Ant Main | 20M | BPSK | 100 | 0 | Bottom of Laptop | 0mm | Main | ON | 136100 | 680.5 | Sample 1 | 23.72 | 24.50 | 1.197 | -0.1 | 0.644 | 0.771 |
| | FR1 n71_Ant Main | 20M | BPSK | 1 | 1 | Bottom of Laptop | 24mm | Main | OFF | 136100 | 680.5 | Sample 1 | 24.28 | 25.00 | 1.180 | -0.05 | 0.092 | 0.109 |
| | FR1 n71_Ant Main | 20M | BPSK | 50 | 28 | Bottom of Laptop | 24mm | Main | OFF | 136100 | 680.5 | Sample 1 | 24.26 | 25.00 | 1.186 | 0 | 0.088 | 0.104 |
| | FR1 n71_Ant Main | 20M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 136100 | 680.5 | Sample 2 | 23.88 | 24.50 | 1.153 | 0.04 | 0.632 | 0.729 |
| | FR1 n71_Ant Main | 20M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 136100 | 680.5 | Sample 3 | 23.88 | 24.50 | 1.153 | 0.04 | 0.723 | 0.834 |
| 27 | FR1 n71_Ant Main | 20M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 136100 | 680.5 | Sample 4 | 23.88 | 24.50 | 1.153 | 0.03 | 0.877 | 1.012 |
| | FR1 n77_Ant Main | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 656000 | 3840 | Sample 1 | 14.07 | 15.00 | 1.239 | 0.06 | 0.692 | 0.857 |
| | FR1 n77_Ant Main | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | Main | ON | 656000 | 3840 | Sample 1 | 13.91 | 15.00 | 1.285 | -0.09 | 0.659 | 0.847 |
| | FR1 n77_Ant Main | 100M | BPSK | 270 | 0 | Bottom of Laptop | 0mm | Main | ON | 656000 | 3840 | Sample 1 | 13.84 | 15.00 | 1.306 | -0.08 | 0.652 | 0.852 |
| | FR1 n77_Ant Main | 100M | BPSK | 1 | 1 | Bottom of Laptop | 24mm | Main | OFF | 656000 | 3840 | Sample 1 | 24.42 | 25.00 | 1.143 | 0.01 | 0.694 | 0.793 |
| | FR1 n77_Ant Main | 100M | BPSK | 135 | 69 | Bottom of Laptop | 24mm | Main | OFF | 656000 | 3840 | Sample 1 | 24.37 | 25.00 | 1.156 | 0.15 | 0.468 | 0.541 |
| | FR1 n77_Ant Main | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 656000 | 3840 | Sample 2 | 14.07 | 15.00 | 1.239 | 0.12 | 0.595 | 0.737 |
| | FR1 n77_Ant Main | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 656000 | 3840 | Sample 3 | 14.07 | 15.00 | 1.239 | 0.03 | 0.695 | 0.861 |
| | FR1 n77_HPUE_Ant Main | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 656000 | 3840 | Sample 3 | 17.18 | 18.00 | 1.208 | 0.01 | 0.688 | 0.831 |
| | FR1 n77_Ant Main | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 656000 | 3840 | Sample 4 | 14.07 | 15.00 | 1.239 | 0.03 | 0.535 | 0.663 |
| | FR1 n77_Ant MIMO 1 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO1 | ON | 656000 | 3840 | Sample 1 | 8.16 | 9.00 | 1.213 | 0.04 | 0.165 | 0.200 |
| | FR1 n77_Ant MIMO 1 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | MIMO1 | ON | 656000 | 3840 | Sample 1 | 8.15 | 9.00 | 1.216 | -0.01 | 0.168 | 0.204 |
| | FR1 n77_Ant MIMO 1 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | MIMO1 | ON | 656000 | 3840 | Sample 2 | 8.15 | 9.00 | 1.216 | 0.05 | 0.286 | 0.348 |
| | FR1 n77_Ant MIMO 1 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | MIMO1 | ON | 656000 | 3840 | Sample 3 | 8.15 | 9.00 | 1.216 | 0.06 | 0.204 | 0.248 |
| | FR1 n77_Ant MIMO 1 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | MIMO1 | ON | 656000 | 3840 | Sample 4 | 8.15 | 9.00 | 1.216 | -0.09 | 0.302 | 0.367 |
| | FR1 n77_HPUE_Ant MIMO 1 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | MIMO1 | ON | 656000 | 3840 | Sample 4 | 11.17 | 12.00 | 1.211 | -0.08 | 0.289 | 0.350 |
| | FR1 n77_Ant MIMO 2 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 656000 | 3840 | Sample 1 | 14.04 | 14.50 | 1.112 | -0.1 | 0.646 | 0.718 |
| | FR1 n77_Ant MIMO 2 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | MIMO2 | ON | 656000 | 3840 | Sample 1 | 13.96 | 14.50 | 1.132 | 0.01 | 0.536 | 0.607 |
| | FR1 n77_Ant MIMO 2 | 100M | BPSK | 270 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 656000 | 3840 | Sample 1 | 13.92 | 14.50 | 1.143 | -0.15 | 0.533 | 0.609 |
| | FR1 n77_Ant MIMO 2 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 16mm | MIMO2 | OFF | 656000 | 3840 | Sample 1 | 23.62 | 25.00 | 1.374 | 0.11 | 0.521 | 0.716 |
| | FR1 n77_Ant MIMO 2 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 16mm | MIMO2 | OFF | 656000 | 3840 | Sample 1 | 23.54 | 25.00 | 1.400 | -0.08 | 0.446 | 0.624 |
| | FR1 n77_Ant MIMO 2 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 656000 | 3840 | Sample 2 | 14.04 | 14.50 | 1.112 | 0.19 | 0.740 | 0.823 |
| | FR1 n77_Ant MIMO 2 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 656000 | 3840 | Sample 3 | 14.04 | 14.50 | 1.112 | 0.07 | 0.543 | 0.604 |
| | FR1 n77_Ant MIMO 2 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 656000 | 3840 | Sample 4 | 14.04 | 14.50 | 1.112 | 0.01 | 0.849 | 0.944 |
| | FR1 n77_HPUE_Ant MIMO 2 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 656000 | 3840 | Sample 4 | 17.02 | 17.50 | 1.117 | 0.03 | 0.813 | 0.908 |
| | FR1 n77_Ant AUX | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | AUX | ON | 656000 | 3840 | Sample 1 | 16.67 | 17.50 | 1.211 | -0.17 | 0.619 | 0.749 |
| | FR1 n77_Ant AUX | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | AUX | ON | 656000 | 3840 | Sample 1 | 16.64 | 17.50 | 1.219 | 0.17 | 0.665 | 0.811 |
| | FR1 n77_Ant AUX | 100M | BPSK | 270 | 0 | Bottom of Laptop | 0mm | AUX | ON | 656000 | 3840 | Sample 1 | 16.62 | 17.50 | 1.225 | 0.04 | 0.651 | 0.797 |
| | FR1 n77_Ant AUX | 100M | BPSK | 1 | 1 | Bottom of Laptop | 20mm | AUX | OFF | 656000 | 3840 | Sample 1 | 23.87 | 25.00 | 1.297 | 0.16 | 0.310 | 0.402 |
| | FR1 n77_Ant AUX | 100M | BPSK | 135 | 69 | Bottom of Laptop | 20mm | AUX | OFF | 656000 | 3840 | Sample 1 | 23.78 | 25.00 | 1.324 | -0.04 | 0.295 | 0.391 |
| | FR1 n77_HPUE_Ant AUX | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | AUX | ON | 656000 | 3840 | Sample 1 | 19.58 | 20.50 | 1.236 | -0.05 | 0.617 | 0.763 |
| | FR1 n77_Ant AUX | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | AUX | ON | 656000 | 3840 | Sample 2 | 16.64 | 17.50 | 1.219 | 0.01 | 0.346 | 0.422 |
| | FR1 n77_Ant AUX | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | AUX | ON | 656000 | 3840 | Sample 3 | 16.64 | 17.50 | 1.219 | 0.1 | 0.577 | 0.703 |
| | FR1 n77_Ant AUX | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | AUX | ON | 656000 | 3840 | Sample 4 | 16.64 | 17.50 | 1.219 | -0.17 | 0.183 | 0.223 |



FCC SAR TEST REPORT

Report No. : FA3N1058

| | | | | | | | | | | | | | | | | | | |
|----|-------------------------|------|------|-----|----|------------------|------|-------|-----|--------|---------|----------|-------|-------|-------|-------|-------|-------|
| | FR1 n77_Ant Main | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | Main | ON | 633332 | 3499.98 | Sample 1 | 14.04 | 15.00 | 1.247 | 0.12 | 0.361 | 0.450 |
| | FR1 n77_Ant Main | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | Main | ON | 633332 | 3499.98 | Sample 1 | 14.03 | 15.00 | 1.250 | 0.08 | 0.446 | 0.558 |
| | FR1 n77_Ant Main | 100M | BPSK | 1 | 1 | Bottom of Laptop | 24mm | Main | OFF | 633332 | 3499.98 | Sample 1 | 24.25 | 25.00 | 1.189 | 0.11 | 0.227 | 0.270 |
| | FR1 n77_Ant Main | 100M | BPSK | 135 | 69 | Bottom of Laptop | 24mm | Main | OFF | 633332 | 3499.98 | Sample 1 | 24.07 | 25.00 | 1.239 | 0.1 | 0.299 | 0.370 |
| | FR1 n77_Ant Main | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | Main | ON | 633332 | 3499.98 | Sample 2 | 14.03 | 15.00 | 1.250 | 0.03 | 0.725 | 0.906 |
| | FR1 n77_HPUE_Ant Main | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | Main | ON | 633332 | 3499.98 | Sample 2 | 17.12 | 18.00 | 1.225 | -0.17 | 0.698 | 0.855 |
| | FR1 n77_Ant Main | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | Main | ON | 633332 | 3499.98 | Sample 3 | 14.03 | 15.00 | 1.250 | -0.03 | 0.402 | 0.503 |
| | FR1 n77_Ant Main | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | Main | ON | 633332 | 3499.98 | Sample 4 | 14.03 | 15.00 | 1.250 | 0.14 | 0.407 | 0.509 |
| | FR1 n77_Ant MIMO 1 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO1 | ON | 633332 | 3499.98 | Sample 1 | 8.06 | 9.00 | 1.242 | 0.08 | 0.080 | 0.099 |
| | FR1 n77_Ant MIMO 1 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | MIMO1 | ON | 633332 | 3499.98 | Sample 1 | 8.04 | 9.00 | 1.247 | 0.01 | 0.082 | 0.102 |
| | FR1 n77_Ant MIMO 1 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | MIMO1 | ON | 633332 | 3499.98 | Sample 2 | 8.04 | 9.00 | 1.247 | -0.08 | 0.326 | 0.407 |
| | FR1 n77_Ant MIMO 1 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | MIMO1 | ON | 633332 | 3499.98 | Sample 3 | 8.04 | 9.00 | 1.247 | -0.08 | 0.054 | 0.067 |
| | FR1 n77_Ant MIMO 1 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | MIMO1 | ON | 633332 | 3499.98 | Sample 4 | 8.04 | 9.00 | 1.247 | 0 | 0.327 | 0.408 |
| | FR1 n77_HPUE_Ant MIMO 1 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | MIMO1 | ON | 633332 | 3499.98 | Sample 4 | 11.03 | 12.00 | 1.250 | 0.03 | 0.313 | 0.391 |
| | FR1 n77_Ant MIMO 2 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | MIMO2 | ON | 633332 | 3499.98 | Sample 1 | 14.24 | 14.50 | 1.062 | 0.11 | 0.833 | 0.884 |
| | FR1 n77_Ant MIMO 2 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | MIMO2 | ON | 633332 | 3499.98 | Sample 1 | 14.15 | 14.50 | 1.084 | -0.05 | 0.877 | 0.951 |
| | FR1 n77_Ant MIMO 2 | 100M | BPSK | 270 | 0 | Bottom of Laptop | 0mm | MIMO2 | ON | 633332 | 3499.98 | Sample 1 | 14.11 | 14.50 | 1.094 | 0.18 | 0.828 | 0.906 |
| | FR1 n77_Ant MIMO 2 | 100M | BPSK | 1 | 1 | Bottom of Laptop | 16mm | MIMO2 | OFF | 633332 | 3499.98 | Sample 1 | 23.50 | 25.00 | 1.413 | 0.11 | 0.665 | 0.939 |
| | FR1 n77_Ant MIMO 2 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 16mm | MIMO2 | OFF | 633332 | 3499.98 | Sample 1 | 23.40 | 25.00 | 1.445 | -0.08 | 0.588 | 0.850 |
| | FR1 n77_Ant MIMO 2 | 100M | BPSK | 270 | 0 | Bottom of Laptop | 16mm | MIMO2 | OFF | 633332 | 3499.98 | Sample 1 | 22.91 | 24.50 | 1.442 | 0.04 | 0.616 | 0.888 |
| | FR1 n77_Ant MIMO 2 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | MIMO2 | ON | 633332 | 3499.98 | Sample 2 | 14.15 | 14.50 | 1.084 | -0.17 | 0.693 | 0.751 |
| | FR1 n77_Ant MIMO 2 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | MIMO2 | ON | 633332 | 3499.98 | Sample 3 | 14.15 | 14.50 | 1.084 | 0.17 | 0.655 | 0.710 |
| 28 | FR1 n77_Ant MIMO 2 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | MIMO2 | ON | 633332 | 3499.98 | Sample 4 | 14.15 | 14.50 | 1.084 | 0.07 | 0.962 | 1.043 |
| | FR1 n77_HPUE_Ant MIMO 2 | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | MIMO2 | ON | 633332 | 3499.98 | Sample 4 | 17.21 | 17.50 | 1.069 | 0.03 | 0.923 | 0.987 |
| | FR1 n77_Ant AUX | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | AUX | ON | 633332 | 3499.98 | Sample 1 | 17.04 | 17.50 | 1.112 | -0.02 | 0.888 | 0.987 |
| | FR1 n77_Ant AUX | 100M | BPSK | 135 | 69 | Bottom of Laptop | 0mm | AUX | ON | 633332 | 3499.98 | Sample 1 | 17.01 | 17.50 | 1.119 | 0.14 | 0.859 | 0.962 |
| | FR1 n77_Ant AUX | 100M | BPSK | 270 | 0 | Bottom of Laptop | 0mm | AUX | ON | 633332 | 3499.98 | Sample 1 | 17.00 | 17.50 | 1.122 | 0.05 | 0.848 | 0.951 |
| | FR1 n77_Ant AUX | 100M | BPSK | 1 | 1 | Bottom of Laptop | 20mm | AUX | OFF | 633332 | 3499.98 | Sample 1 | 23.96 | 25.00 | 1.271 | 0.11 | 0.439 | 0.558 |
| | FR1 n77_Ant AUX | 100M | BPSK | 135 | 69 | Bottom of Laptop | 20mm | AUX | OFF | 633332 | 3499.98 | Sample 1 | 23.89 | 25.00 | 1.291 | -0.03 | 0.467 | 0.603 |
| | FR1 n77_HPUE_Ant AUX | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | AUX | ON | 633332 | 3499.98 | Sample 1 | 20.02 | 20.50 | 1.117 | 0.11 | 0.882 | 0.985 |
| | FR1 n77_Ant AUX | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | AUX | ON | 633332 | 3499.98 | Sample 2 | 17.04 | 17.50 | 1.112 | -0.05 | 0.279 | 0.310 |
| | FR1 n77_Ant AUX | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | AUX | ON | 633332 | 3499.98 | Sample 3 | 17.04 | 17.50 | 1.112 | 0.18 | 0.669 | 0.744 |
| | FR1 n77_Ant AUX | 100M | BPSK | 1 | 1 | Bottom of Laptop | 0mm | AUX | ON | 633332 | 3499.98 | Sample 4 | 17.04 | 17.50 | 1.112 | 0.14 | 0.391 | 0.435 |



13.2 Repeated SAR Measurement

| Plot No. | Band | Mode | Test Position | Gap (mm) | Antenna | Power Reduction | Ch. | Freq. (MHz) | Sample | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Ratio | Reported 1g SAR (W/kg) |
|----------|------------------------|----------------|------------------|----------|---------|-----------------|--------|-------------|----------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|-------|------------------------|
| 1st | WCDMA II_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 9538 | 1907.6 | Sample 3 | 18.36 | 18.50 | 1.033 | | | -0.09 | 1.140 | - | 1.177 |
| 2nd | WCDMA II_Ant Main | RMC 12.2Kbps | Bottom of Laptop | 0mm | Main | ON | 9538 | 1907.6 | Sample 3 | 18.36 | 18.50 | 1.033 | | | 0.03 | 1.030 | 1.107 | 1.064 |
| 1st | LTE Band 12_Ant Main | 10M_QPSK_1_0 | Bottom of Laptop | 0mm | Main | ON | 23095 | 707.5 | Sample 4 | 23.81 | 24.00 | 1.045 | | | -0.07 | 1.120 | - | 1.170 |
| 2nd | LTE Band 12_Ant Main | 10M_QPSK_1_0 | Bottom of Laptop | 0mm | Main | ON | 23095 | 707.5 | Sample 4 | 23.81 | 24.00 | 1.045 | | | 0.06 | 1.030 | 1.087 | 1.076 |
| 1st | LTE Band 26_Ant Main | 15M_QPSK_1_0 | Bottom of Laptop | 0mm | Main | ON | 26865 | 831.5 | Sample 2 | 23.65 | 24.50 | 1.216 | | | 0.01 | 0.946 | - | 1.151 |
| 2nd | LTE Band 26_Ant Main | 15M_QPSK_1_0 | Bottom of Laptop | 0mm | Main | ON | 26865 | 831.5 | Sample 2 | 23.65 | 24.50 | 1.216 | | | 0.13 | 0.935 | 1.012 | 1.137 |
| 1st | LTE Band 42_Ant MIMO 2 | 20M_QPSK_1_0 | Bottom of Laptop | 0mm | MIMO2 | ON | 42590 | 3500 | Sample 4 | 16.14 | 16.50 | 1.086 | 62.9 | 1.006 | 0.18 | 1.070 | - | 1.169 |
| 2nd | LTE Band 42_Ant MIMO 2 | 20M_QPSK_1_0 | Bottom of Laptop | 0mm | MIMO2 | ON | 42590 | 3500 | Sample 4 | 16.14 | 16.50 | 1.086 | 62.9 | 1.006 | 0.13 | 1.010 | 1.059 | 1.104 |
| 1st | LTE Band 66_Ant MIMO 2 | 20M_QPSK_1_0 | Bottom of Laptop | 0mm | MIMO2 | ON | 132572 | 1770 | Sample 1 | 17.64 | 18.00 | 1.086 | | | -0.16 | 1.020 | - | 1.108 |
| 2nd | LTE Band 66_Ant MIMO 2 | 20M_QPSK_1_0 | Bottom of Laptop | 0mm | MIMO2 | ON | 132572 | 1770 | Sample 1 | 17.64 | 18.00 | 1.086 | | | 0.19 | 0.994 | 1.026 | 1.080 |
| 1st | FR1 n30_Ant Main | 10M_BPSK_1_1 | Bottom of Laptop | 0mm | Main | ON | 462000 | 2310 | Sample 3 | 16.08 | 16.50 | 1.102 | | | -0.01 | 1.020 | - | 1.124 |
| 2nd | FR1 n30_Ant Main | 10M_BPSK_1_1 | Bottom of Laptop | 0mm | Main | ON | 462000 | 2310 | Sample 3 | 16.08 | 16.50 | 1.102 | | | 0.06 | 0.963 | 1.059 | 1.061 |
| 1st | FR1 n41_Ant MIMO 2 | 100M_BPSK_1_1 | Bottom of Laptop | 0mm | MIMO2 | ON | 518598 | 2592.99 | Sample 4 | 15.79 | 16.50 | 1.178 | | | -0.01 | 0.993 | - | 1.169 |
| 2nd | FR1 n41_Ant MIMO 2 | 100M_BPSK_1_1 | Bottom of Laptop | 0mm | MIMO2 | ON | 518598 | 2592.99 | Sample 4 | 15.79 | 16.50 | 1.178 | | | 0.12 | 0.984 | 1.009 | 1.159 |
| 1st | FR1 n48_Ant Main | 40M_BPSK_50_28 | Bottom of Laptop | 0mm | Main | ON | 641666 | 3624.99 | Sample 3 | 14.98 | 15.50 | 1.127 | | | 0 | 0.992 | - | 1.118 |
| 2nd | FR1 n48_Ant Main | 40M_BPSK_50_28 | Bottom of Laptop | 0mm | Main | ON | 641666 | 3624.99 | Sample 3 | 14.98 | 15.50 | 1.127 | | | 0.06 | 0.933 | 1.063 | 1.052 |
| 1st | FR1 n77_Ant MIMO 2 | 100M_BPSK_1_1 | Bottom of Laptop | 0mm | MIMO2 | ON | 656000 | 3840 | Sample 4 | 14.04 | 14.50 | 1.112 | | | 0.01 | 0.849 | - | 0.944 |
| 2nd | FR1 n77_Ant MIMO 2 | 100M_BPSK_1_1 | Bottom of Laptop | 0mm | MIMO2 | ON | 656000 | 3840 | Sample 4 | 14.04 | 14.50 | 1.112 | | | 0.05 | 0.849 | 1.000 | 0.944 |

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8W/kg$.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45W/kg$, only one repeated measurement is required.
3. The ratio is the difference in percentage between original and repeated *measured SAR*.
4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

13.3 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device support Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with $< 10\%$ discrepancy between power classes and all reported SAR are $< 1.4 W/kg$, Separate SAR testing for Power Class 2 is not required

Use PC3 power level and SAR to estimated PC2 SAR linearly, and check if the deviation from the measured PC2 SAR is $< 10\%$

| | LTE Band 41_Ant Main (Power Class 3) | LTE Band 41_Ant Main (Power Class 2) |
|-------------------------------------|---|---|
| Maximum Tune up Power (dBm) | 16.5 | 18.5 |
| Reported 1g SAR (W/kg) | 0.604 | 0.595 |
| Duty Cycle | 63.30% | 43.30% |
| Frame Averaged (mW) | 28.28 | 30.65 |
| Linearity SAR(W/kg) | 0.65 | |
| % deviation from expected linearity | | -9.14% |



13.4 FR1 n41/n77 Power Class 2 and Power Class 3 Linearity

This device support Power Class 2 and Power Class 3 operations for FR1 n41/n77. The highest available duty cycle for Power Class 2 operation is 50%. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each FR1 configuration and exposure condition combination, according to the highest time averaged power for Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg, Separate SAR testing for Power Class 2 is not required. Use PC3 power level and SAR to estimated PC2 SAR linearly, and check if the deviation from the measured PC2 SAR is <10%

| | FR1 n41_Ant Main (Power Class 3) | FR1 n41_Ant Main (Power Class 2) |
|-------------------------------------|-------------------------------------|-------------------------------------|
| Maximum Tune up Power (dBm) | 14.5 | 17.5 |
| Reported 1g SAR (W/kg) | 0.617 | 0.567 |
| Duty Cycle | 100.00% | 50.00% |
| Frame Averaged (mW) | 28.18 | 28.12 |
| Linearity SAR(W/kg) | 0.62 | |
| % deviation from expected linearity | | -7.89% |

| | FR1 n41_Ant MIMO 1 (Power Class 3) | FR1 n41_Ant MIMO 1 (Power Class 2) |
|-------------------------------------|---------------------------------------|---------------------------------------|
| Maximum Tune up Power (dBm) | 16 | 19 |
| Reported 1g SAR (W/kg) | 0.7 | 0.646 |
| Duty Cycle | 100.00% | 50.00% |
| Frame Averaged (mW) | 39.81 | 39.72 |
| Linearity SAR(W/kg) | 0.70 | |
| % deviation from expected linearity | | -7.50% |

| | FR1 n41_Ant MIMO 2 (Power Class 3) | FR1 n41_Ant MIMO 2 (Power Class 2) |
|-------------------------------------|---------------------------------------|---------------------------------------|
| Maximum Tune up Power (dBm) | 16.5 | 19.5 |
| Reported 1g SAR (W/kg) | 1.169 | 1.058 |
| Duty Cycle | 100.00% | 50.00% |
| Frame Averaged (mW) | 44.67 | 44.56 |
| Linearity SAR(W/kg) | 1.17 | |
| % deviation from expected linearity | | -9.28% |

| | FR1 n41_Ant Aux (Power Class 3) | FR1 n41_Ant Aux (Power Class 2) |
|-------------------------------------|------------------------------------|------------------------------------|
| Maximum Tune up Power (dBm) | 13.5 | 16.5 |
| Reported 1g SAR (W/kg) | 0.515 | 0.506 |
| Duty Cycle | 100.00% | 50.00% |
| Frame Averaged (mW) | 22.39 | 22.33 |
| Linearity SAR(W/kg) | 0.51 | |
| % deviation from expected linearity | | -1.51% |



| | FR1 n77_Ant Main | FR1 n77_Ant Main |
|-------------------------------------|------------------|------------------|
| | (Power Class 3) | (Power Class 2) |
| Maximum Tune up Power (dBm) | 15 | 18 |
| Reported 1g SAR (W/kg) | 0.906 | 0.855 |
| Duty Cycle | 100.00% | 50.00% |
| Frame Averaged (mW) | 31.62 | 31.55 |
| Linearity SAR(W/kg) | 0.90 | |
| % deviation from expected linearity | | -5.41% |

| | FR1 n77_Ant MIMO 1 | FR1 n77_Ant MIMO 1 |
|-------------------------------------|--------------------|--------------------|
| | (Power Class 3) | (Power Class 2) |
| Maximum Tune up Power (dBm) | 9 | 12 |
| Reported 1g SAR (W/kg) | 0.408 | 0.391 |
| Duty Cycle | 100.00% | 50.00% |
| Frame Averaged (mW) | 7.94 | 7.92 |
| Linearity SAR(W/kg) | 0.41 | |
| % deviation from expected linearity | | -3.94% |

| | FR1 n77_Ant MIMO 2 | FR1 n77_Ant MIMO 2 |
|-------------------------------------|--------------------|--------------------|
| | (Power Class 3) | (Power Class 2) |
| Maximum Tune up Power (dBm) | 14.5 | 17.5 |
| Reported 1g SAR (W/kg) | 1.043 | 0.987 |
| Duty Cycle | 100.00% | 50.00% |
| Frame Averaged (mW) | 28.18 | 28.12 |
| Linearity SAR(W/kg) | 1.04 | |
| % deviation from expected linearity | | -5.14% |

| | FR1 n77_Ant AUX | FR1 n77_Ant AUX |
|-------------------------------------|-----------------|-----------------|
| | (Power Class 3) | (Power Class 2) |
| Maximum Tune up Power (dBm) | 17.5 | 20.5 |
| Reported 1g SAR (W/kg) | 0.987 | 0.985 |
| Duty Cycle | 100.00% | 50.00% |
| Frame Averaged (mW) | 56.23 | 56.10 |
| Linearity SAR(W/kg) | 0.98 | |
| % deviation from expected linearity | | 0.03% |

14. Simultaneous Transmission Analysis

| NO. | Simultaneous Transmission Configurations | Body |
|-----|--|------|
| 1. | WWAN Main + WWAN MIMO 2 + WLAN Main | Yes |
| 2. | WWAN Main + WWAN MIMO 2 + WLAN/BT Aux | Yes |
| 3. | WWAN MIMO 1 + WLAN Main | Yes |
| 4. | WWAN MIMO 1 + WLAN/BT Aux | Yes |
| 5. | WWAN Aux + WLAN Main | Yes |
| 6. | WWAN Aux + WLAN/BT Aux | Yes |

General Note:

1. The Intel AX211D2W WLAN/BT module (FCC ID: PD9AX211D2) is integrated into this host.
2. The Intel BE200D2W WLAN/BT module (FCC ID: PD9BE200D2) is also integrated into this host.
3. WiFi/BT SAR of 1.6 W/kg was used conservatively for the purpose of simultaneous transmission analysis.
4. The worst case WWAN SAR is using for Sim-Tx analysis.
5. The Scaled SAR summation is calculated based on the same configuration and test position.
6. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) Scalar SAR summation < 1.6W/kg.
 - ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
 - v) The SPLSR calculated results please refer to section 14.2.



14.1 Body Exposure Conditions

WWAN Main+WWAN MIMO2+ WLAN_AL Platform

| Exposure Position | 1 | 2 | 3 | 4 | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4 Summed 1g SAR (W/kg) | SPLSR | Case No. |
|-------------------------|-----------------------|------------------------|---------------|---------------|----------------------------|----------------------------|-------|----------|
| | Maximum WWAN Main Ant | Maximum WWAN MIMO2 Ant | WLAN Main | WLAN/BT Aux | | | | |
| | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | |
| Bottom of Laptop at 0mm | 1.187 | 1.193 | 1.600 | 1.600 | 3.980 | 3.980 | 0.020 | Case 1 |

WWAN MIMO1+ WLAN_AL Platform

| Exposure Position | 1 | 2 | 3 | 1+2 Summed 1g SAR (W/kg) | 1+3 Summed 1g SAR (W/kg) | SPLSR | Case No. |
|-------------------------|------------------------|---------------|---------------|--------------------------|--------------------------|-------|----------|
| | Maximum WWAN MIMO1 Ant | WLAN Main | WLAN/BT Aux | | | | |
| | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | |
| Bottom of Laptop at 0mm | 0.700 | 1.600 | 1.600 | 2.300 | 2.300 | 0.020 | Case 2 |

WWAN Aux+ WLAN_AL Platform

| Exposure Position | 1 | 2 | 3 | 1+2 Summed 1g SAR (W/kg) | 1+3 Summed 1g SAR (W/kg) | SPLSR | Case No. |
|-------------------------|----------------------|---------------|---------------|--------------------------|--------------------------|-------|----------|
| | Maximum WWAN Aux Ant | WLAN Main | WLAN/BT Aux | | | | |
| | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | |
| Bottom of Laptop at 0mm | 1.038 | 1.600 | 1.600 | 2.638 | 2.638 | 0.020 | Case 3 |

WWAN Main+WWAN MIMO2+ WLAN_PPS Platform

| Exposure Position | 1 | 2 | 3 | 4 | 1+2+3 Summed 1g SAR (W/kg) | 1+2+4 Summed 1g SAR (W/kg) | SPLSR | Case No. |
|-------------------------|-----------------------|------------------------|---------------|---------------|----------------------------|----------------------------|-------|----------|
| | Maximum WWAN Main Ant | Maximum WWAN MIMO2 Ant | WLAN Main | WLAN/BT Aux | | | | |
| | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | |
| Bottom of Laptop at 0mm | 1.187 | 1.193 | 1.600 | 1.600 | 3.980 | 3.980 | 0.020 | Case 4 |

WWAN MIMO1+ WLAN_PPS Platform

| Exposure Position | 1 | 2 | 3 | 1+2 Summed 1g SAR (W/kg) | 1+3 Summed 1g SAR (W/kg) | SPLSR | Case No. |
|-------------------------|------------------------|---------------|---------------|--------------------------|--------------------------|-------|----------|
| | Maximum WWAN MIMO1 Ant | WLAN Main | WLAN/BT Aux | | | | |
| | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | |
| Bottom of Laptop at 0mm | 0.700 | 1.600 | 1.600 | 2.300 | 2.300 | 0.010 | Case 5 |

WWAN Aux+ WLAN_PPS Platform

| Exposure Position | 1 | 2 | 3 | 1+2 Summed 1g SAR (W/kg) | 1+3 Summed 1g SAR (W/kg) | SPLSR | Case No. |
|-------------------------|----------------------|---------------|---------------|--------------------------|--------------------------|-------|----------|
| | Maximum WWAN Aux Ant | WLAN Main | WLAN/BT Aux | | | | |
| | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | |
| Bottom of Laptop at 0mm | 1.038 | 1.600 | 1.600 | 2.638 | 2.638 | 0.010 | Case 6 |



14.2 SPLSR Evaluation and Analysis

General Note:

1. According to antenna location of Appendix D, the minimum distance between each transmit antenna is using for SPLSR analysis.
2. Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneously transmitting antenna. When the sum of 1-g or 10-g SAR of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit, SAR test exclusion applies to that simultaneous transmission configuration. Therefore, the adjacent transmit antennas will be summed first, and then the SPLSR calculation will be evaluated with the farther transmitted antennas.
3. $SPLSR = (SAR_1 + SAR_2)^{1.5} / (min. \text{ separation distance, mm})$. If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary

| | Band | Position | SAR (W/kg) | Gap | Minimum distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|------------------------|------------------------|------------------|------------|-------|-----------------------|-------------------|---------------|------------------|
| | | | | (mm) | | | | |
| Case 1 | Maximum WWAN Main Ant | Bottom of Laptop | 1.187 | 0mm | 280.0 | 2.38 | 0.01 | Not required |
| | Maximum WWAN MIMO2 Ant | | 1.193 | 0mm | | | | |
| | Maximum WWAN Main Ant | Bottom of Laptop | 1.187 | 0mm | 275.0 | 2.79 | 0.02 | Not required |
| | WLAN Main Ant | | 1.6 | 0mm | | | | |
| | Maximum WWAN MIMO2 Ant | Bottom of Laptop | 1.193 | 0mm | 190.0 | 2.79 | 0.02 | Not required |
| | WLAN Main Ant | | 1.6 | 0mm | | | | |
| | Maximum WWAN Main Ant | Bottom of Laptop | 1.187 | 0mm | 220.0 | 2.79 | 0.02 | Not required |
| | WLAN/BT Aux Ant | | 1.6 | 0mm | | | | |
| Maximum WWAN MIMO2 Ant | Bottom of Laptop | 1.189 | 0mm | 240.0 | 2.79 | 0.02 | Not required | |
| WLAN/BT Aux Ant | | 1.6 | 0mm | | | | | |
| Case 2 | Maximum WWAN MIMO1 Ant | Bottom of Laptop | 0.7 | 0mm | 270.0 | 2.30 | 0.01 | Not required |
| | WLAN Main Ant | | 1.6 | 0mm | | | | |
| | Maximum WWAN MIMO1 Ant | Bottom of Laptop | 0.7 | 0mm | 225.0 | 2.30 | 0.02 | Not required |
| | WLAN/BT Aux Ant | | 1.6 | 0mm | | | | |
| Case 3 | Maximum WWAN Aux Ant | Bottom of Laptop | 1.038 | 0mm | 225.0 | 2.64 | 0.02 | Not required |
| | WLAN Main Ant | | 1.6 | 0mm | | | | |
| | Maximum WWAN Aux Ant | Bottom of Laptop | 1.038 | 0mm | 270.0 | 2.64 | 0.02 | Not required |
| | WLAN/BT Aux Ant | | 1.6 | 0mm | | | | |



| | Band | Position | SAR (W/kg) | Gap | Minimum distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|-----------------|------------------------|------------------|------------|------|-----------------------|-------------------|---------------|------------------|
| | | | | (mm) | | | | |
| Case 4 | Maximum WWAN Main Ant | Bottom of Laptop | 1.187 | 0mm | 280.0 | 2.38 | 0.01 | Not required |
| | Maximum WWAN MIMO2 Ant | | 1.193 | 0mm | | | | |
| | Maximum WWAN Main Ant | Bottom of Laptop | 1.187 | 0mm | 370.0 | 2.79 | 0.01 | Not required |
| | WLAN Main Ant | | 1.6 | 0mm | | | | |
| | Maximum WWAN MIMO2 Ant | Bottom of Laptop | 1.193 | 0mm | 280.0 | 2.79 | 0.02 | Not required |
| | WLAN Main Ant | | 1.6 | 0mm | | | | |
| | Maximum WWAN Main Ant | Bottom of Laptop | 1.187 | 0mm | 300.0 | 2.79 | 0.02 | Not required |
| | WLAN/BT Aux Ant | | 1.6 | 0mm | | | | |
| | Maximum WWAN MIMO2 Ant | Bottom of Laptop | 1.189 | 0mm | 360.0 | 2.79 | 0.01 | Not required |
| WLAN/BT Aux Ant | 1.6 | | 0mm | | | | | |
| Case 5 | Maximum WWAN MIMO1 Ant | Bottom of Laptop | 0.7 | 0mm | 360.0 | 2.30 | 0.01 | Not required |
| | WLAN Main Ant | | 1.6 | 0mm | | | | |
| | Maximum WWAN MIMO1 Ant | Bottom of Laptop | 0.7 | 0mm | 300.0 | 2.30 | 0.01 | Not required |
| | WLAN/BT Aux Ant | | 1.6 | 0mm | | | | |
| Case 6 | Maximum WWAN Aux Ant | Bottom of Laptop | 1.038 | 0mm | 300.0 | 2.64 | 0.01 | Not required |
| | WLAN Main Ant | | 1.6 | 0mm | | | | |
| | Maximum WWAN Aux Ant | Bottom of Laptop | 1.038 | 0mm | 360.0 | 2.64 | 0.01 | Not required |
| | WLAN/BT Aux Ant | | 1.6 | 0mm | | | | |

Test Engineer : Willy Yu



15. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg. Therefore, the measurement uncertainty table is not required in this report.

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

16. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [6] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [7] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [8] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [9] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [10] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [11] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.