



&lt;FR1 n41\_HPUE\_Ant 2\_Sensor ON&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 509202                   | 518598                      | 528000                    | 16.0                   |
| Frequency (MHz) |            |         |           | 2546.01                  | 2592.99                     | 2640                      |                        |
| 100             | PI/2 BPSK  | 1       | 1         | 14.82                    | 14.95                       | 14.77                     |                        |
| 100             | PI/2 BPSK  | 1       | 137       | 14.63                    | 14.76                       | 14.49                     | 16.0                   |
| 100             | PI/2 BPSK  | 1       | 271       | 14.70                    | 14.69                       | 14.66                     |                        |
| 100             | PI/2 BPSK  | 135     | 0         | 14.52                    | 14.72                       | 14.54                     |                        |
| 100             | PI/2 BPSK  | 135     | 69        | 14.60                    | 14.68                       | 14.63                     | 16.0                   |
| 100             | PI/2 BPSK  | 135     | 138       | 14.72                    | 14.72                       | 14.65                     |                        |
| 100             | PI/2 BPSK  | 270     | 0         | 14.61                    | 14.66                       | 14.47                     |                        |
| 100             | QPSK       | 1       | 1         | 14.60                    | 14.78                       | 14.53                     | 16.0                   |
| 100             | QPSK       | 1       | 137       | 14.70                    | 14.81                       | 14.56                     |                        |
| 100             | QPSK       | 1       | 271       | 14.63                    | 14.72                       | 14.59                     |                        |
| 100             | QPSK       | 135     | 0         | 14.66                    | 14.76                       | 14.53                     | 16.0                   |
| 100             | QPSK       | 135     | 69        | 14.68                    | 14.70                       | 14.67                     |                        |
| 100             | QPSK       | 135     | 138       | 14.54                    | 14.74                       | 14.65                     |                        |
| 100             | QPSK       | 270     | 0         | 14.60                    | 14.72                       | 14.67                     | 16.0                   |
| 100             | 16QAM      | 1       | 1         | 14.65                    | 14.79                       | 14.57                     |                        |
| 100             | 64QAM      | 1       | 1         | 14.70                    | 14.83                       | 14.61                     |                        |
| 100             | 256QAM     | 1       | 1         | 14.70                    | 14.68                       | 14.66                     | 16.0                   |
| Channel         |            |         |           | 508200                   | 518598                      | 528996                    | 16.0                   |
| Frequency (MHz) |            |         |           | 2541                     | 2592.99                     | 2644.98                   |                        |
| 90              | PI/2 BPSK  | 1       | 1         | 14.66                    | 14.77                       | 14.51                     |                        |
| Channel         |            |         |           | 507204                   | 518598                      | 529998                    | 16.0                   |
| Frequency (MHz) |            |         |           | 2536.02                  | 2592.99                     | 2649.99                   |                        |
| 80              | PI/2 BPSK  | 1       | 1         | 14.67                    | 14.85                       | 14.60                     |                        |
| Channel         |            |         |           | 506202                   | 518598                      | 531000                    | 16.0                   |
| Frequency (MHz) |            |         |           | 2531.01                  | 2592.99                     | 2655                      |                        |
| 70              | PI/2 BPSK  | 1       | 1         | 14.57                    | 14.83                       | 14.61                     |                        |
| Channel         |            |         |           | 505200                   | 518598                      | 531996                    | 16.0                   |
| Frequency (MHz) |            |         |           | 2526                     | 2592.99                     | 2659.98                   |                        |
| 60              | PI/2 BPSK  | 1       | 1         | 14.53                    | 14.68                       | 14.66                     |                        |
| Channel         |            |         |           | 504204                   | 518598                      | 532998                    | 16.0                   |
| Frequency (MHz) |            |         |           | 2521.02                  | 2592.99                     | 2664.99                   |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 14.70                    | 14.83                       | 14.51                     |                        |
| Channel         |            |         |           | 503202                   | 518598                      | 534000                    | 16.0                   |
| Frequency (MHz) |            |         |           | 2516.01                  | 2592.99                     | 2670                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 14.67                    | 14.69                       | 14.59                     |                        |
| Channel         |            |         |           | 502200                   | 518598                      | 534996                    | 16.0                   |
| Frequency (MHz) |            |         |           | 2511                     | 2592.99                     | 2674.98                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 14.62                    | 14.72                       | 14.56                     |                        |
| Channel         |            |         |           | 501702                   | 518598                      | 535500                    | 16.0                   |
| Frequency (MHz) |            |         |           | 2508.51                  | 2592.99                     | 2677.5                    |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 14.62                    | 14.84                       | 14.60                     |                        |
| Channel         |            |         |           | 501204                   | 518598                      | 535998                    | 16.0                   |
| Frequency (MHz) |            |         |           | 2506.02                  | 2592.99                     | 2679.99                   |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 14.67                    | 14.82                       | 14.54                     |                        |
| Channel         |            |         |           | 500700                   | 518598                      | 536496                    | 16.0                   |
| Frequency (MHz) |            |         |           | 2503.5                   | 2592.99                     | 2682.48                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 14.68                    | 14.71                       | 14.61                     |                        |
| Channel         |            |         |           | 500202                   | 518598                      | 537000                    | 16.0                   |
| Frequency (MHz) |            |         |           | 2501.01                  | 2592.99                     | 2685                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 14.71                    | 14.82                       | 14.54                     |                        |



&lt;FR1 n48\_Ant 0\_Sensor OFF&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 638000                   | 641666                      | 645332                    |                        |
| Frequency (MHz) |            |         |           | 3570                     | 3624.99                     | 3679.98                   |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 20.55                    | 20.82                       | 20.73                     | 22.0                   |
| 40              | PI/2 BPSK  | 1       | 53        | 20.49                    | 20.67                       | 20.70                     |                        |
| 40              | PI/2 BPSK  | 1       | 104       | 20.45                    | 20.70                       | 20.70                     |                        |
| 40              | PI/2 BPSK  | 50      | 0         | 20.42                    | 20.61                       | 20.64                     | 22.0                   |
| 40              | PI/2 BPSK  | 50      | 28        | 20.52                    | 20.69                       | 20.69                     | 22.0                   |
| 40              | PI/2 BPSK  | 50      | 56        | 20.44                    | 20.69                       | 20.68                     | 22.0                   |
| 40              | PI/2 BPSK  | 100     | 0         | 20.38                    | 20.62                       | 20.67                     |                        |
| 40              | QPSK       | 1       | 1         | 20.37                    | 20.63                       | 20.68                     | 22.0                   |
| 40              | QPSK       | 1       | 53        | 20.42                    | 20.62                       | 20.69                     |                        |
| 40              | QPSK       | 1       | 104       | 20.41                    | 20.67                       | 20.73                     |                        |
| 40              | QPSK       | 50      | 0         | 20.42                    | 20.61                       | 20.65                     | 22.0                   |
| 40              | QPSK       | 50      | 28        | 20.42                    | 20.60                       | 20.70                     | 22.0                   |
| 40              | QPSK       | 50      | 56        | 20.40                    | 20.67                       | 20.70                     | 22.0                   |
| 40              | QPSK       | 100     | 0         | 20.43                    | 20.65                       | 20.73                     |                        |
| 40              | 16QAM      | 1       | 1         | 20.40                    | 20.58                       | 20.62                     | 22.0                   |
| 40              | 64QAM      | 1       | 1         | 19.91                    | 20.11                       | 20.21                     | 20.5                   |
| 40              | 256QAM     | 1       | 1         | 17.86                    | 18.08                       | 18.10                     | 19.5                   |
| Channel         |            |         |           | 637668                   | 641666                      | 645666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3565.02                  | 3624.99                     | 3684.99                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 20.36                    | 20.68                       | 20.81                     | 22.0                   |
| Channel         |            |         |           | 637334                   | 641666                      | 646000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3560.01                  | 3624.99                     | 3690                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 20.49                    | 20.71                       | 20.72                     | 22.0                   |
| Channel         |            |         |           | 637168                   | 641666                      | 646166                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3557.52                  | 3624.99                     | 3692.49                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 20.55                    | 20.53                       | 20.81                     | 22.0                   |
| Channel         |            |         |           | 637000                   | 641666                      | 646332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3555                     | 3624.99                     | 3694.98                   |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 20.40                    | 20.63                       | 20.63                     | 22.0                   |



&lt;FR1 n48\_Ant 2\_Sensor OFF&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 638000                   | 641666                      | 645332                    | 22.0                   |
| Frequency (MHz) |            |         |           | 3570                     | 3624.99                     | 3679.98                   |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 20.82                    | 20.86                       | 20.85                     |                        |
| 40              | PI/2 BPSK  | 1       | 53        | 20.72                    | 20.76                       | 20.72                     | 21.5                   |
| 40              | PI/2 BPSK  | 1       | 104       | 20.64                    | 20.78                       | 20.69                     |                        |
| 40              | PI/2 BPSK  | 50      | 0         | 20.77                    | 20.81                       | 20.71                     |                        |
| 40              | PI/2 BPSK  | 50      | 28        | 20.71                    | 20.84                       | 20.80                     | 21.5                   |
| 40              | PI/2 BPSK  | 50      | 56        | 20.66                    | 20.76                       | 20.73                     |                        |
| 40              | PI/2 BPSK  | 100     | 0         | 20.69                    | 20.74                       | 20.69                     |                        |
| 40              | QPSK       | 1       | 1         | 20.77                    | 20.81                       | 20.72                     | 22.0                   |
| 40              | QPSK       | 1       | 53        | 20.71                    | 20.77                       | 20.73                     |                        |
| 40              | QPSK       | 1       | 104       | 20.66                    | 20.72                       | 20.67                     |                        |
| 40              | QPSK       | 50      | 0         | 20.67                    | 20.80                       | 20.69                     | 21.0                   |
| 40              | QPSK       | 50      | 28        | 20.69                    | 20.73                       | 20.69                     |                        |
| 40              | QPSK       | 50      | 56        | 20.64                    | 20.77                       | 20.76                     |                        |
| 40              | QPSK       | 100     | 0         | 20.61                    | 20.75                       | 20.71                     | 21.0                   |
| 40              | 16QAM      | 1       | 1         | 20.65                    | 20.75                       | 20.66                     |                        |
| 40              | 64QAM      | 1       | 1         | 20.11                    | 20.20                       | 20.11                     |                        |
| 40              | 256QAM     | 1       | 1         | 18.24                    | 18.30                       | 18.24                     | 19.5                   |
| Channel         |            |         |           | 637668                   | 641666                      | 645666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3565.02                  | 3624.99                     | 3684.99                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 20.81                    | 20.78                       | 20.76                     | 22.0                   |
| Channel         |            |         |           | 637334                   | 641666                      | 646000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3560.01                  | 3624.99                     | 3690                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 20.70                    | 20.70                       | 20.68                     | 22.0                   |
| Channel         |            |         |           | 637168                   | 641666                      | 646166                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3557.52                  | 3624.99                     | 3692.49                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 20.63                    | 20.85                       | 20.73                     | 22.0                   |
| Channel         |            |         |           | 637000                   | 641666                      | 646332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3555                     | 3624.99                     | 3694.98                   |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 20.77                    | 20.72                       | 20.77                     | 22.0                   |

**<FR1 n48\_Ant 0\_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                 | 11.5                |
| Frequency (MHz) |            |         |           | 3570                  | 3624.99                  | 3679.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 10.44                 | 10.62                    | 10.51                  |                     |
| 40              | PI/2 BPSK  | 1       | 53        | 10.24                 | 10.38                    | 10.24                  | 11.5                |
| 40              | PI/2 BPSK  | 1       | 104       | 10.21                 | 10.52                    | 10.39                  |                     |
| 40              | PI/2 BPSK  | 50      | 0         | 10.14                 | 10.37                    | 10.26                  |                     |
| 40              | PI/2 BPSK  | 50      | 28        | 10.30                 | 10.43                    | 10.37                  | 11.5                |
| 40              | PI/2 BPSK  | 50      | 56        | 10.26                 | 10.42                    | 10.32                  | 11.5                |
| 40              | PI/2 BPSK  | 100     | 0         | 10.25                 | 10.49                    | 10.22                  |                     |
| 40              | QPSK       | 1       | 1         | 10.21                 | 10.35                    | 10.41                  |                     |
| 40              | QPSK       | 1       | 53        | 10.25                 | 10.49                    | 10.23                  | 11.5                |
| 40              | QPSK       | 1       | 104       | 10.18                 | 10.49                    | 10.29                  |                     |
| 40              | QPSK       | 50      | 0         | 10.23                 | 10.44                    | 10.33                  |                     |
| 40              | QPSK       | 50      | 28        | 10.16                 | 10.52                    | 10.30                  | 11.5                |
| 40              | QPSK       | 50      | 56        | 10.30                 | 10.35                    | 10.38                  | 11.5                |
| 40              | QPSK       | 100     | 0         | 10.23                 | 10.45                    | 10.26                  |                     |
| 40              | 16QAM      | 1       | 1         | 10.20                 | 10.42                    | 10.30                  |                     |
| 40              | 64QAM      | 1       | 1         | 10.23                 | 10.35                    | 10.30                  | 11.5                |
| 40              | 256QAM     | 1       | 1         | 10.31                 | 10.45                    | 10.35                  | 11.5                |
| Channel         |            |         |           | 637668                | 641666                   | 645666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3565.02               | 3624.99                  | 3684.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 10.15                 | 10.38                    | 10.24                  | 11.5                |
| Channel         |            |         |           | 637334                | 641666                   | 646000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3560.01               | 3624.99                  | 3690                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 10.34                 | 10.39                    | 10.40                  | 11.5                |
| Channel         |            |         |           | 637168                | 641666                   | 646166                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3557.52               | 3624.99                  | 3692.49                |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 10.24                 | 10.39                    | 10.34                  | 11.5                |
| Channel         |            |         |           | 637000                | 641666                   | 646332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3555                  | 3624.99                  | 3694.98                |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 10.19                 | 10.33                    | 10.26                  | 11.5                |



&lt;FR1 n48\_Ant 2\_Sensor ON&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 638000                   | 641666                      | 645332                    | 10.5                   |
| Frequency (MHz) |            |         |           | 3570                     | 3624.99                     | 3679.98                   |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 9.89                     | 9.93                        | 9.81                      |                        |
| 40              | PI/2 BPSK  | 1       | 53        | 9.76                     | 9.65                        | 9.51                      | 10.5                   |
| 40              | PI/2 BPSK  | 1       | 104       | 9.64                     | 9.67                        | 9.68                      |                        |
| 40              | PI/2 BPSK  | 50      | 0         | 9.76                     | 9.80                        | 9.64                      |                        |
| 40              | PI/2 BPSK  | 50      | 28        | 9.78                     | 9.81                        | 9.53                      | 10.5                   |
| 40              | PI/2 BPSK  | 50      | 56        | 9.77                     | 9.69                        | 9.64                      | 10.5                   |
| 40              | PI/2 BPSK  | 100     | 0         | 9.65                     | 9.81                        | 9.67                      |                        |
| 40              | QPSK       | 1       | 1         | 9.67                     | 9.63                        | 9.61                      |                        |
| 40              | QPSK       | 1       | 53        | 9.69                     | 9.71                        | 9.63                      | 10.5                   |
| 40              | QPSK       | 1       | 104       | 9.70                     | 9.83                        | 9.52                      |                        |
| 40              | QPSK       | 50      | 0         | 9.76                     | 9.76                        | 9.63                      |                        |
| 40              | QPSK       | 50      | 28        | 9.71                     | 9.77                        | 9.55                      | 10.5                   |
| 40              | QPSK       | 50      | 56        | 9.78                     | 9.72                        | 9.59                      | 10.5                   |
| 40              | QPSK       | 100     | 0         | 9.62                     | 9.74                        | 9.52                      |                        |
| 40              | 16QAM      | 1       | 1         | 9.71                     | 9.67                        | 9.60                      |                        |
| 40              | 64QAM      | 1       | 1         | 9.75                     | 9.70                        | 9.51                      | 10.5                   |
| 40              | 256QAM     | 1       | 1         | 9.76                     | 9.76                        | 9.65                      | 10.5                   |
| Channel         |            |         |           | 637668                   | 641666                      | 645666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3565.02                  | 3624.99                     | 3684.99                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 9.69                     | 9.79                        | 9.71                      | 10.5                   |
| Channel         |            |         |           | 637334                   | 641666                      | 646000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3560.01                  | 3624.99                     | 3690                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 9.68                     | 9.67                        | 9.65                      | 10.5                   |
| Channel         |            |         |           | 637168                   | 641666                      | 646166                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3557.52                  | 3624.99                     | 3692.49                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 9.76                     | 9.77                        | 9.65                      | 10.5                   |
| Channel         |            |         |           | 637000                   | 641666                      | 646332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3555                     | 3624.99                     | 3694.98                   |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 9.64                     | 9.82                        | 9.67                      | 10.5                   |



&lt;FR1 n77\_Ant 0\_Sensor OFF&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 650000                   | 656000                      | 662000                    |                        |
| Frequency (MHz) |            |         |           | 3750                     | 3840                        | 3930                      |                        |
| 100             | PI/2 BPSK  | 1       | 1         | 22.80                    | 22.95                       | 22.79                     |                        |
| 100             | PI/2 BPSK  | 1       | 137       | 22.50                    | 22.68                       | 22.44                     | 24.0                   |
| 100             | PI/2 BPSK  | 1       | 271       | 22.65                    | 22.84                       | 22.60                     |                        |
| 100             | PI/2 BPSK  | 135     | 0         | 22.22                    | 22.38                       | 22.16                     |                        |
| 100             | PI/2 BPSK  | 135     | 69        | 22.58                    | 22.74                       | 22.48                     | 24.0                   |
| 100             | PI/2 BPSK  | 135     | 138       | 22.21                    | 22.43                       | 22.24                     | 23.5                   |
| 100             | PI/2 BPSK  | 270     | 0         | 22.14                    | 22.33                       | 22.11                     |                        |
| 100             | QPSK       | 1       | 1         | 22.71                    | 22.90                       | 22.68                     |                        |
| 100             | QPSK       | 1       | 137       | 22.44                    | 22.62                       | 22.42                     | 24.0                   |
| 100             | QPSK       | 1       | 271       | 22.54                    | 22.75                       | 22.54                     |                        |
| 100             | QPSK       | 135     | 0         | 21.72                    | 21.87                       | 21.71                     |                        |
| 100             | QPSK       | 135     | 69        | 22.48                    | 22.65                       | 22.40                     | 24.0                   |
| 100             | QPSK       | 135     | 138       | 21.73                    | 21.93                       | 21.74                     | 23.0                   |
| 100             | QPSK       | 270     | 0         | 21.74                    | 21.92                       | 21.73                     |                        |
| 100             | 16QAM      | 1       | 1         | 21.62                    | 21.82                       | 21.62                     |                        |
| 100             | 64QAM      | 1       | 1         | 20.11                    | 20.33                       | 20.14                     | 21.5                   |
| 100             | 256QAM     | 1       | 1         | 18.11                    | 18.31                       | 18.06                     | 19.5                   |
| Channel         |            |         |           | 649668                   | 656000                      | 662332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3745.02                  | 3840                        | 3934.98                   |                        |
| 90              | PI/2 BPSK  | 1       | 1         | 22.73                    | 22.84                       | 22.65                     |                        |
| Channel         |            |         |           | 649334                   | 656000                      | 662666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3740.01                  | 3840                        | 3939.99                   |                        |
| 80              | PI/2 BPSK  | 1       | 1         | 22.60                    | 22.84                       | 22.63                     |                        |
| Channel         |            |         |           | 649000                   | 656000                      | 663000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3735                     | 3840                        | 3945                      |                        |
| 70              | PI/2 BPSK  | 1       | 1         | 22.61                    | 22.77                       | 22.69                     |                        |
| Channel         |            |         |           | 648668                   | 656000                      | 663332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3730.02                  | 3840                        | 3949.98                   |                        |
| 60              | PI/2 BPSK  | 1       | 1         | 22.75                    | 22.90                       | 22.78                     |                        |
| Channel         |            |         |           | 648334                   | 656000                      | 663666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3725.01                  | 3840                        | 3954.99                   |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 22.73                    | 22.80                       | 22.61                     |                        |
| Channel         |            |         |           | 648000                   | 656000                      | 664000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3720                     | 3840                        | 3960                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 22.67                    | 22.77                       | 22.65                     |                        |
| Channel         |            |         |           | 647668                   | 656000                      | 664332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3715.02                  | 3840.00                     | 3964.98                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 22.71                    | 22.87                       | 22.76                     |                        |
| Channel         |            |         |           | 647500                   | 656000                      | 664500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3712.5                   | 3840.00                     | 3967.50                   |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 22.72                    | 22.81                       | 22.74                     |                        |
| Channel         |            |         |           | 647334                   | 656000                      | 664666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3710.01                  | 3840                        | 3969.99                   |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 22.74                    | 22.77                       | 22.72                     |                        |
| Channel         |            |         |           | 647168                   | 656000                      | 664832                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3707.52                  | 3840                        | 3972.48                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 22.78                    | 22.84                       | 22.77                     |                        |
| Channel         |            |         |           | 647000                   | 656000                      | 665000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3705                     | 3840                        | 3975                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 22.76                    | 22.89                       | 22.76                     |                        |



&lt;FR1 n77\_Ant 2\_Sensor OFF&gt;

| 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                 | 24.0                |
| Frequency (MHz) |            |         |           | 3750                  | 3840                     | 3930                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 22.84                 | 22.78                    | 22.80                  |                     |
| 100             | PI/2 BPSK  | 1       | 137       | 22.65                 | 22.58                    | 22.54                  | 23.5                |
| 100             | PI/2 BPSK  | 1       | 271       | 22.56                 | 22.44                    | 22.51                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 22.14                 | 22.08                    | 22.09                  |                     |
| 100             | PI/2 BPSK  | 135     | 69        | 22.62                 | 22.54                    | 22.57                  | 23.5                |
| 100             | PI/2 BPSK  | 135     | 138       | 22.08                 | 22.01                    | 21.95                  |                     |
| 100             | PI/2 BPSK  | 270     | 0         | 22.14                 | 22.02                    | 22.06                  |                     |
| 100             | QPSK       | 1       | 1         | 22.79                 | 22.63                    | 22.74                  | 24.0                |
| 100             | QPSK       | 1       | 137       | 22.57                 | 22.50                    | 22.51                  |                     |
| 100             | QPSK       | 1       | 271       | 22.56                 | 22.48                    | 22.51                  |                     |
| 100             | QPSK       | 135     | 0         | 21.64                 | 21.48                    | 21.58                  | 23.0                |
| 100             | QPSK       | 135     | 69        | 22.49                 | 22.38                    | 22.45                  | 24.0                |
| 100             | QPSK       | 135     | 138       | 21.52                 | 21.42                    | 21.47                  | 23.0                |
| 100             | QPSK       | 270     | 0         | 21.57                 | 21.44                    | 21.53                  |                     |
| 100             | 16QAM      | 1       | 1         | 21.62                 | 21.55                    | 21.50                  |                     |
| 100             | 64QAM      | 1       | 1         | 20.20                 | 20.12                    | 20.13                  | 21.5                |
| 100             | 256QAM     | 1       | 1         | 18.11                 | 18.03                    | 18.03                  | 19.5                |
| Channel         |            |         |           | 649668                | 656000                   | 662332                 | 24.0                |
| Frequency (MHz) |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 22.83                 | 22.64                    | 22.63                  |                     |
| Channel         |            |         |           | 649334                | 656000                   | 662666                 | 24.0                |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 22.63                 | 22.71                    | 22.69                  |                     |
| Channel         |            |         |           | 649000                | 656000                   | 663000                 | 24.0                |
| Frequency (MHz) |            |         |           | 3735                  | 3840                     | 3945                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 22.68                 | 22.78                    | 22.64                  |                     |
| Channel         |            |         |           | 648668                | 656000                   | 663332                 | 24.0                |
| Frequency (MHz) |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 22.67                 | 22.74                    | 22.72                  |                     |
| Channel         |            |         |           | 648334                | 656000                   | 663666                 | 24.0                |
| Frequency (MHz) |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 22.59                 | 22.82                    | 22.67                  |                     |
| Channel         |            |         |           | 648000                | 656000                   | 664000                 | 24.0                |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 22.65                 | 22.82                    | 22.65                  |                     |
| Channel         |            |         |           | 647668                | 656000                   | 664332                 | 24.0                |
| Frequency (MHz) |            |         |           | 3715.02               | 3840.00                  | 3964.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 22.60                 | 22.71                    | 22.64                  |                     |
| Channel         |            |         |           | 647500                | 656000                   | 664500                 | 24.0                |
| Frequency (MHz) |            |         |           | 3712.5                | 3840.00                  | 3967.50                |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 22.72                 | 22.66                    | 22.78                  |                     |
| Channel         |            |         |           | 647334                | 656000                   | 664666                 | 24.0                |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 22.60                 | 22.75                    | 22.69                  |                     |
| Channel         |            |         |           | 647168                | 656000                   | 664832                 | 24.0                |
| Frequency (MHz) |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 22.75                 | 22.64                    | 22.79                  |                     |
| Channel         |            |         |           | 647000                | 656000                   | 665000                 | 24.0                |
| Frequency (MHz) |            |         |           | 3705                  | 3840                     | 3975                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 22.75                 | 22.72                    | 22.70                  |                     |



&lt;FR1 n77\_Ant 0\_Sensor ON&gt;

| 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                 | 13.5                |
| Frequency (MHz) |            |         |           | 3750                  | 3840                     | 3930                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 13.14                 | 12.77                    | 12.85                  |                     |
| 100             | PI/2 BPSK  | 1       | 137       | 12.90                 | 12.52                    | 12.68                  | 13.5                |
| 100             | PI/2 BPSK  | 1       | 271       | 12.84                 | 12.55                    | 12.72                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 13.04                 | 12.67                    | 12.74                  |                     |
| 100             | PI/2 BPSK  | 135     | 69        | 13.05                 | 12.69                    | 12.65                  | 13.5                |
| 100             | PI/2 BPSK  | 135     | 138       | 12.86                 | 12.62                    | 12.69                  |                     |
| 100             | PI/2 BPSK  | 270     | 0         | 13.02                 | 12.53                    | 12.55                  |                     |
| 100             | QPSK       | 1       | 1         | 12.90                 | 12.66                    | 12.61                  | 13.5                |
| 100             | QPSK       | 1       | 137       | 12.92                 | 12.59                    | 12.67                  |                     |
| 100             | QPSK       | 1       | 271       | 12.99                 | 12.55                    | 12.62                  |                     |
| 100             | QPSK       | 135     | 0         | 12.93                 | 12.60                    | 12.59                  | 13.5                |
| 100             | QPSK       | 135     | 69        | 12.93                 | 12.47                    | 12.55                  |                     |
| 100             | QPSK       | 135     | 138       | 13.00                 | 12.60                    | 12.56                  |                     |
| 100             | QPSK       | 270     | 0         | 13.02                 | 12.60                    | 12.68                  | 13.5                |
| 100             | 16QAM      | 1       | 1         | 13.02                 | 12.59                    | 12.71                  |                     |
| 100             | 64QAM      | 1       | 1         | 12.94                 | 12.67                    | 12.73                  |                     |
| 100             | 256QAM     | 1       | 1         | 12.95                 | 12.53                    | 12.72                  | 13.5                |
| Channel         |            |         |           | 649668                | 656000                   | 662332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 12.77                 | 12.33                    | 12.46                  | 13.5                |
| Channel         |            |         |           | 649334                | 656000                   | 662666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 12.83                 | 12.37                    | 12.57                  | 13.5                |
| Channel         |            |         |           | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3735                  | 3840                     | 3945                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 12.75                 | 12.38                    | 12.54                  | 13.5                |
| Channel         |            |         |           | 648668                | 656000                   | 663332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 12.78                 | 12.50                    | 12.54                  | 13.5                |
| Channel         |            |         |           | 648334                | 656000                   | 663666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 12.69                 | 12.52                    | 12.50                  | 13.5                |
| Channel         |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 12.76                 | 12.42                    | 12.42                  | 13.5                |
| Channel         |            |         |           | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3715.02               | 3840.00                  | 3964.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 12.73                 | 12.34                    | 12.47                  | 13.5                |
| Channel         |            |         |           | 647500                | 656000                   | 664500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3712.5                | 3840.00                  | 3967.50                |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 12.78                 | 12.42                    | 12.50                  | 13.5                |
| Channel         |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 12.71                 | 12.45                    | 12.41                  | 13.5                |
| Channel         |            |         |           | 647168                | 656000                   | 664832                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 12.88                 | 12.45                    | 12.43                  | 13.5                |
| Channel         |            |         |           | 647000                | 656000                   | 665000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3705                  | 3840                     | 3975                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 12.82                 | 12.41                    | 12.43                  | 13.5                |





&lt;FR1 n77\_Ant 2\_Sensor ON&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 650000                   | 656000                      | 662000                    | 13.5                   |
| Frequency (MHz) |            |         |           | 3750                     | 3840                        | 3930                      |                        |
| 100             | PI/2 BPSK  | 1       | 1         | 12.78                    | 12.67                       | 12.68                     |                        |
| 100             | PI/2 BPSK  | 1       | 137       | 12.55                    | 12.41                       | 12.56                     | 13.5                   |
| 100             | PI/2 BPSK  | 1       | 271       | 12.62                    | 12.44                       | 12.44                     |                        |
| 100             | PI/2 BPSK  | 135     | 0         | 12.52                    | 12.45                       | 12.46                     |                        |
| 100             | PI/2 BPSK  | 135     | 69        | 12.67                    | 12.49                       | 12.53                     | 13.5                   |
| 100             | PI/2 BPSK  | 135     | 138       | 12.59                    | 12.45                       | 12.58                     |                        |
| 100             | PI/2 BPSK  | 270     | 0         | 12.68                    | 12.57                       | 12.39                     |                        |
| 100             | QPSK       | 1       | 1         | 12.64                    | 12.55                       | 12.41                     | 13.5                   |
| 100             | QPSK       | 1       | 137       | 12.56                    | 12.51                       | 12.51                     |                        |
| 100             | QPSK       | 1       | 271       | 12.65                    | 12.39                       | 12.48                     |                        |
| 100             | QPSK       | 135     | 0         | 12.48                    | 12.41                       | 12.49                     | 13.5                   |
| 100             | QPSK       | 135     | 69        | 12.61                    | 12.57                       | 12.58                     |                        |
| 100             | QPSK       | 135     | 138       | 12.67                    | 12.47                       | 12.43                     |                        |
| 100             | QPSK       | 270     | 0         | 12.53                    | 12.51                       | 12.51                     | 13.5                   |
| 100             | 16QAM      | 1       | 1         | 12.58                    | 12.39                       | 12.57                     |                        |
| 100             | 64QAM      | 1       | 1         | 12.58                    | 12.50                       | 12.43                     |                        |
| 100             | 256QAM     | 1       | 1         | 12.55                    | 12.51                       | 12.47                     | 13.5                   |
| Channel         |            |         |           | 649668                   | 656000                      | 662332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3745.02                  | 3840                        | 3934.98                   |                        |
| 90              | PI/2 BPSK  | 1       | 1         | 12.36                    | 12.24                       | 12.43                     | 13.5                   |
| Channel         |            |         |           | 649334                   | 656000                      | 662666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3740.01                  | 3840                        | 3939.99                   |                        |
| 80              | PI/2 BPSK  | 1       | 1         | 12.40                    | 12.31                       | 12.35                     | 13.5                   |
| Channel         |            |         |           | 649000                   | 656000                      | 663000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3735                     | 3840                        | 3945                      |                        |
| 70              | PI/2 BPSK  | 1       | 1         | 12.45                    | 12.32                       | 12.33                     | 13.5                   |
| Channel         |            |         |           | 648668                   | 656000                      | 663332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3730.02                  | 3840                        | 3949.98                   |                        |
| 60              | PI/2 BPSK  | 1       | 1         | 12.43                    | 12.31                       | 12.39                     | 13.5                   |
| Channel         |            |         |           | 648334                   | 656000                      | 663666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3725.01                  | 3840                        | 3954.99                   |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 12.52                    | 12.26                       | 12.31                     | 13.5                   |
| Channel         |            |         |           | 648000                   | 656000                      | 664000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3720                     | 3840                        | 3960                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 12.36                    | 12.25                       | 12.40                     | 13.5                   |
| Channel         |            |         |           | 647668                   | 656000                      | 664332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3715.02                  | 3840.00                     | 3964.98                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 12.36                    | 12.37                       | 12.33                     | 13.5                   |
| Channel         |            |         |           | 647500                   | 656000                      | 664500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3712.5                   | 3840.00                     | 3967.50                   |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 12.49                    | 12.29                       | 12.40                     | 13.5                   |
| Channel         |            |         |           | 647334                   | 656000                      | 664666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3710.01                  | 3840                        | 3969.99                   |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 12.53                    | 12.29                       | 12.42                     | 13.5                   |
| Channel         |            |         |           | 647168                   | 656000                      | 664832                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3707.52                  | 3840                        | 3972.48                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 12.51                    | 12.31                       | 12.31                     | 13.5                   |
| Channel         |            |         |           | 647000                   | 656000                      | 665000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3705                     | 3840                        | 3975                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 12.49                    | 12.32                       | 12.40                     | 13.5                   |



&lt;FR1 n77\_HPUE\_Ant 0\_Sensor OFF&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 650000                   | 656000                      | 662000                    |                        |
| Frequency (MHz) |            |         |           | 3750                     | 3840                        | 3930                      |                        |
| 100             | PI/2 BPSK  | 1       | 1         | 25.86                    | 25.80                       | 25.78                     |                        |
| 100             | PI/2 BPSK  | 1       | 137       | 25.74                    | 25.71                       | 25.66                     | 27.0                   |
| 100             | PI/2 BPSK  | 1       | 271       | 25.78                    | 25.76                       | 25.74                     |                        |
| 100             | PI/2 BPSK  | 135     | 0         | 25.21                    | 25.15                       | 25.11                     |                        |
| 100             | PI/2 BPSK  | 135     | 69        | 25.66                    | 25.64                       | 25.55                     | 27.0                   |
| 100             | PI/2 BPSK  | 135     | 138       | 25.26                    | 25.25                       | 25.16                     | 26.5                   |
| 100             | PI/2 BPSK  | 270     | 0         | 25.22                    | 25.16                       | 25.07                     |                        |
| 100             | QPSK       | 1       | 1         | 25.67                    | 25.69                       | 25.64                     |                        |
| 100             | QPSK       | 1       | 137       | 25.68                    | 25.62                       | 25.58                     | 27.0                   |
| 100             | QPSK       | 1       | 271       | 25.74                    | 25.77                       | 25.65                     |                        |
| 100             | QPSK       | 135     | 0         | 24.57                    | 24.52                       | 24.44                     |                        |
| 100             | QPSK       | 135     | 69        | 25.53                    | 25.52                       | 25.42                     | 27.0                   |
| 100             | QPSK       | 135     | 138       | 24.73                    | 24.68                       | 24.64                     | 26.0                   |
| 100             | QPSK       | 270     | 0         | 24.58                    | 24.62                       | 24.52                     |                        |
| 100             | 16QAM      | 1       | 1         | 24.63                    | 24.61                       | 24.51                     |                        |
| 100             | 64QAM      | 1       | 1         | 23.20                    | 23.19                       | 23.07                     | 24.5                   |
| 100             | 256QAM     | 1       | 1         | 21.12                    | 21.15                       | 21.12                     | 22.5                   |
| Channel         |            |         |           | 649668                   | 656000                      | 662332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3745.02                  | 3840                        | 3934.98                   |                        |
| 90              | PI/2 BPSK  | 1       | 1         | 25.85                    | 25.75                       | 25.65                     |                        |
| Channel         |            |         |           | 649334                   | 656000                      | 662666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3740.01                  | 3840                        | 3939.99                   |                        |
| 80              | PI/2 BPSK  | 1       | 1         | 25.80                    | 25.71                       | 25.76                     |                        |
| Channel         |            |         |           | 649000                   | 656000                      | 663000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3735                     | 3840                        | 3945                      |                        |
| 70              | PI/2 BPSK  | 1       | 1         | 25.85                    | 25.73                       | 25.76                     |                        |
| Channel         |            |         |           | 648668                   | 656000                      | 663332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3730.02                  | 3840                        | 3949.98                   |                        |
| 60              | PI/2 BPSK  | 1       | 1         | 25.70                    | 25.65                       | 25.60                     |                        |
| Channel         |            |         |           | 648334                   | 656000                      | 663666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3725.01                  | 3840                        | 3954.99                   |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 25.72                    | 25.75                       | 25.74                     |                        |
| Channel         |            |         |           | 648000                   | 656000                      | 664000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3720                     | 3840                        | 3960                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 25.77                    | 25.80                       | 25.74                     |                        |
| Channel         |            |         |           | 647668                   | 656000                      | 664332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3715.02                  | 3840.00                     | 3964.98                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 25.77                    | 25.65                       | 25.72                     |                        |
| Channel         |            |         |           | 647500                   | 656000                      | 664500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3712.5                   | 3840.00                     | 3967.50                   |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 25.78                    | 25.60                       | 25.77                     |                        |
| Channel         |            |         |           | 647334                   | 656000                      | 664666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3710.01                  | 3840                        | 3969.99                   |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 25.83                    | 25.62                       | 25.62                     |                        |
| Channel         |            |         |           | 647168                   | 656000                      | 664832                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3707.52                  | 3840                        | 3972.48                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 25.71                    | 25.71                       | 25.76                     |                        |
| Channel         |            |         |           | 647000                   | 656000                      | 665000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3705                     | 3840                        | 3975                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 25.78                    | 25.76                       | 25.61                     |                        |



&lt;FR1 n77\_HPUE\_Ant 2\_Sensor OFF&gt;

| 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                 | 27.0                |
| Frequency (MHz) |            |         |           | 3750                  | 3840                     | 3930                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 25.71                 | 25.57                    | 25.59                  |                     |
| 100             | PI/2 BPSK  | 1       | 137       | 25.34                 | 25.12                    | 25.18                  | 26.5                |
| 100             | PI/2 BPSK  | 1       | 271       | 25.40                 | 25.26                    | 25.18                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 25.01                 | 24.82                    | 24.80                  |                     |
| 100             | PI/2 BPSK  | 135     | 69        | 25.35                 | 25.16                    | 25.16                  | 26.5                |
| 100             | PI/2 BPSK  | 135     | 138       | 24.92                 | 24.68                    | 24.76                  |                     |
| 100             | PI/2 BPSK  | 270     | 0         | 24.90                 | 24.75                    | 24.72                  |                     |
| 100             | QPSK       | 1       | 1         | 25.53                 | 25.31                    | 25.34                  | 27.0                |
| 100             | QPSK       | 1       | 137       | 25.31                 | 25.16                    | 25.18                  |                     |
| 100             | QPSK       | 1       | 271       | 25.34                 | 25.20                    | 25.19                  |                     |
| 100             | QPSK       | 135     | 0         | 24.37                 | 24.16                    | 24.25                  | 26.0                |
| 100             | QPSK       | 135     | 69        | 25.25                 | 25.09                    | 25.12                  |                     |
| 100             | QPSK       | 135     | 138       | 24.45                 | 24.29                    | 24.29                  |                     |
| 100             | QPSK       | 270     | 0         | 24.38                 | 24.18                    | 24.16                  | 24.5                |
| 100             | 16QAM      | 1       | 1         | 24.42                 | 24.25                    | 24.21                  |                     |
| 100             | 64QAM      | 1       | 1         | 23.02                 | 22.81                    | 22.85                  |                     |
| 100             | 256QAM     | 1       | 1         | 20.95                 | 20.79                    | 20.75                  | 22.5                |
| Channel         |            |         |           | 649668                | 656000                   | 662332                 | 27.0                |
| Frequency (MHz) |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 25.51                 | 25.68                    | 25.45                  |                     |
| Channel         |            |         |           | 649334                | 656000                   | 662666                 | 27.0                |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 25.41                 | 25.66                    | 25.55                  |                     |
| Channel         |            |         |           | 649000                | 656000                   | 663000                 | 27.0                |
| Frequency (MHz) |            |         |           | 3735                  | 3840                     | 3945                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 25.37                 | 25.55                    | 25.54                  |                     |
| Channel         |            |         |           | 648668                | 656000                   | 663332                 | 27.0                |
| Frequency (MHz) |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 25.51                 | 25.56                    | 25.40                  |                     |
| Channel         |            |         |           | 648334                | 656000                   | 663666                 | 27.0                |
| Frequency (MHz) |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 25.39                 | 25.63                    | 25.55                  |                     |
| Channel         |            |         |           | 648000                | 656000                   | 664000                 | 27.0                |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 25.46                 | 25.62                    | 25.46                  |                     |
| Channel         |            |         |           | 647668                | 656000                   | 664332                 | 27.0                |
| Frequency (MHz) |            |         |           | 3715.02               | 3840.00                  | 3964.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 25.55                 | 25.65                    | 25.49                  |                     |
| Channel         |            |         |           | 647500                | 656000                   | 664500                 | 27.0                |
| Frequency (MHz) |            |         |           | 3712.5                | 3840.00                  | 3967.50                |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 25.54                 | 25.52                    | 25.40                  |                     |
| Channel         |            |         |           | 647334                | 656000                   | 664666                 | 27.0                |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 25.45                 | 25.66                    | 25.53                  |                     |
| Channel         |            |         |           | 647168                | 656000                   | 664832                 | 27.0                |
| Frequency (MHz) |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 25.41                 | 25.55                    | 25.58                  |                     |
| Channel         |            |         |           | 647000                | 656000                   | 665000                 | 27.0                |
| Frequency (MHz) |            |         |           | 3705                  | 3840                     | 3975                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 25.54                 | 25.53                    | 25.45                  |                     |



&lt;FR1 n77\_HPUE\_Ant 0\_Sensor ON&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 650000                   | 656000                      | 662000                    | 16.5                   |
| Frequency (MHz) |            |         |           | 3750                     | 3840                        | 3930                      |                        |
| 100             | PI/2 BPSK  | 1       | 1         | 15.77                    | 15.81                       | 15.86                     |                        |
| 100             | PI/2 BPSK  | 1       | 137       | 15.65                    | 15.67                       | 15.64                     | 16.5                   |
| 100             | PI/2 BPSK  | 1       | 271       | 15.60                    | 15.68                       | 15.71                     |                        |
| 100             | PI/2 BPSK  | 135     | 0         | 15.61                    | 15.53                       | 15.73                     |                        |
| 100             | PI/2 BPSK  | 135     | 69        | 15.64                    | 15.63                       | 15.64                     | 16.5                   |
| 100             | PI/2 BPSK  | 135     | 138       | 15.53                    | 15.52                       | 15.57                     | 16.5                   |
| 100             | PI/2 BPSK  | 270     | 0         | 15.62                    | 15.62                       | 15.58                     |                        |
| 100             | QPSK       | 1       | 1         | 15.53                    | 15.60                       | 15.66                     |                        |
| 100             | QPSK       | 1       | 137       | 15.63                    | 15.67                       | 15.58                     | 16.5                   |
| 100             | QPSK       | 1       | 271       | 15.57                    | 15.71                       | 15.58                     |                        |
| 100             | QPSK       | 135     | 0         | 15.57                    | 15.70                       | 15.63                     |                        |
| 100             | QPSK       | 135     | 69        | 15.49                    | 15.58                       | 15.64                     | 16.5                   |
| 100             | QPSK       | 135     | 138       | 15.64                    | 15.65                       | 15.63                     | 16.5                   |
| 100             | QPSK       | 270     | 0         | 15.60                    | 15.62                       | 15.72                     |                        |
| 100             | 16QAM      | 1       | 1         | 15.58                    | 15.51                       | 15.66                     |                        |
| 100             | 64QAM      | 1       | 1         | 15.48                    | 15.64                       | 15.62                     | 16.5                   |
| 100             | 256QAM     | 1       | 1         | 15.56                    | 15.54                       | 15.56                     | 16.5                   |
| Channel         |            |         |           | 649668                   | 656000                      | 662332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3745.02                  | 3840                        | 3934.98                   |                        |
| 90              | PI/2 BPSK  | 1       | 1         | 15.37                    | 15.56                       | 15.61                     |                        |
| Channel         |            |         |           | 649334                   | 656000                      | 662666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3740.01                  | 3840                        | 3939.99                   |                        |
| 80              | PI/2 BPSK  | 1       | 1         | 15.42                    | 15.48                       | 15.48                     |                        |
| Channel         |            |         |           | 649000                   | 656000                      | 663000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3735                     | 3840                        | 3945                      |                        |
| 70              | PI/2 BPSK  | 1       | 1         | 15.47                    | 15.47                       | 15.55                     |                        |
| Channel         |            |         |           | 648668                   | 656000                      | 663332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3730.02                  | 3840                        | 3949.98                   |                        |
| 60              | PI/2 BPSK  | 1       | 1         | 15.48                    | 15.47                       | 15.51                     |                        |
| Channel         |            |         |           | 648334                   | 656000                      | 663666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3725.01                  | 3840                        | 3954.99                   |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 15.47                    | 15.50                       | 15.59                     |                        |
| Channel         |            |         |           | 648000                   | 656000                      | 664000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3720                     | 3840                        | 3960                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 15.42                    | 15.43                       | 15.58                     |                        |
| Channel         |            |         |           | 647668                   | 656000                      | 664332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3715.02                  | 3840.00                     | 3964.98                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 15.47                    | 15.57                       | 15.52                     |                        |
| Channel         |            |         |           | 647500                   | 656000                      | 664500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3712.5                   | 3840.00                     | 3967.50                   |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 15.42                    | 15.52                       | 15.54                     |                        |
| Channel         |            |         |           | 647334                   | 656000                      | 664666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3710.01                  | 3840                        | 3969.99                   |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 15.37                    | 15.53                       | 15.59                     |                        |
| Channel         |            |         |           | 647168                   | 656000                      | 664832                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3707.52                  | 3840                        | 3972.48                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 15.51                    | 15.44                       | 15.53                     |                        |
| Channel         |            |         |           | 647000                   | 656000                      | 665000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3705                     | 3840                        | 3975                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 15.44                    | 15.42                       | 15.42                     |                        |



&lt;FR1 n77\_HPUE\_Ant 2\_Sensor ON&gt;

| 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                 | 16.5                |
| Frequency (MHz) |            |         |           | 3750                  | 3840                     | 3930                   |                     |
| 100             | PI/2 BPSK  | 1       | 1         | 15.73                 | 15.75                    | 15.56                  |                     |
| 100             | PI/2 BPSK  | 1       | 137       | 15.44                 | 15.52                    | 15.32                  | 16.5                |
| 100             | PI/2 BPSK  | 1       | 271       | 15.43                 | 15.54                    | 15.33                  |                     |
| 100             | PI/2 BPSK  | 135     | 0         | 15.57                 | 15.49                    | 15.29                  |                     |
| 100             | PI/2 BPSK  | 135     | 69        | 15.63                 | 15.45                    | 15.44                  | 16.5                |
| 100             | PI/2 BPSK  | 135     | 138       | 15.51                 | 15.58                    | 15.34                  | 16.5                |
| 100             | PI/2 BPSK  | 270     | 0         | 15.57                 | 15.63                    | 15.42                  |                     |
| 100             | QPSK       | 1       | 1         | 15.44                 | 15.55                    | 15.45                  |                     |
| 100             | QPSK       | 1       | 137       | 15.60                 | 15.56                    | 15.30                  | 16.5                |
| 100             | QPSK       | 1       | 271       | 15.48                 | 15.55                    | 15.39                  |                     |
| 100             | QPSK       | 135     | 0         | 15.54                 | 15.53                    | 15.37                  |                     |
| 100             | QPSK       | 135     | 69        | 15.59                 | 15.65                    | 15.43                  | 16.5                |
| 100             | QPSK       | 135     | 138       | 15.54                 | 15.61                    | 15.33                  | 16.5                |
| 100             | QPSK       | 270     | 0         | 15.61                 | 15.50                    | 15.41                  |                     |
| 100             | 16QAM      | 1       | 1         | 15.60                 | 15.45                    | 15.39                  |                     |
| 100             | 64QAM      | 1       | 1         | 15.62                 | 15.58                    | 15.45                  | 16.5                |
| 100             | 256QAM     | 1       | 1         | 15.57                 | 15.51                    | 15.46                  | 16.5                |
| Channel         |            |         |           | 649668                | 656000                   | 662332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 15.45                 | 15.47                    | 15.11                  |                     |
| Channel         |            |         |           | 649334                | 656000                   | 662666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 15.32                 | 15.50                    | 15.17                  |                     |
| Channel         |            |         |           | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3735                  | 3840                     | 3945                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 15.39                 | 15.42                    | 15.30                  |                     |
| Channel         |            |         |           | 648668                | 656000                   | 663332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 15.40                 | 15.43                    | 15.20                  |                     |
| Channel         |            |         |           | 648334                | 656000                   | 663666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 15.32                 | 15.31                    | 15.13                  |                     |
| Channel         |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 15.29                 | 15.46                    | 15.19                  |                     |
| Channel         |            |         |           | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3715.02               | 3840.00                  | 3964.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 15.45                 | 15.49                    | 15.14                  |                     |
| Channel         |            |         |           | 647500                | 656000                   | 664500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3712.5                | 3840.00                  | 3967.50                |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 15.34                 | 15.39                    | 15.23                  |                     |
| Channel         |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 15.34                 | 15.35                    | 15.23                  |                     |
| Channel         |            |         |           | 647168                | 656000                   | 664832                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 15.30                 | 15.50                    | 15.15                  |                     |
| Channel         |            |         |           | 647000                | 656000                   | 665000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3705                  | 3840                     | 3975                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 15.39                 | 15.43                    | 15.21                  |                     |



&lt;FR1 n77\_Ant 0\_Sensor OFF&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           |                          | 633332                      |                           |                        |
| Frequency (MHz) |            |         |           |                          | 3499.98                     |                           |                        |
| 100             | PI/2 BPSK  | 1       | 1         |                          | 23.14                       |                           | 24.0                   |
| 100             | PI/2 BPSK  | 1       | 137       |                          | 22.87                       |                           |                        |
| 100             | PI/2 BPSK  | 1       | 271       |                          | 22.94                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 0         |                          | 22.64                       |                           | 23.5                   |
| 100             | PI/2 BPSK  | 135     | 69        |                          | 22.87                       |                           | 24.0                   |
| 100             | PI/2 BPSK  | 135     | 138       |                          | 22.56                       |                           | 23.5                   |
| 100             | PI/2 BPSK  | 270     | 0         |                          | 22.67                       |                           |                        |
| 100             | QPSK       | 1       | 1         |                          | 23.08                       |                           | 24.0                   |
| 100             | QPSK       | 1       | 137       |                          | 22.81                       |                           |                        |
| 100             | QPSK       | 1       | 271       |                          | 22.93                       |                           |                        |
| 100             | QPSK       | 135     | 0         |                          | 22.08                       |                           | 23.0                   |
| 100             | QPSK       | 135     | 69        |                          | 22.85                       |                           | 24.0                   |
| 100             | QPSK       | 135     | 138       |                          | 22.04                       |                           | 23.0                   |
| 100             | QPSK       | 270     | 0         |                          | 22.15                       |                           |                        |
| 100             | 16QAM      | 1       | 1         |                          | 22.21                       |                           | 23.0                   |
| 100             | 64QAM      | 1       | 1         |                          | 20.67                       |                           | 21.5                   |
| 100             | 256QAM     | 1       | 1         |                          | 18.68                       |                           | 19.5                   |
| Channel         |            |         |           | 633000                   | 633332                      | 633666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3495                     | 3499.98                     | 3504.99                   |                        |
| 90              | PI/2 BPSK  | 1       | 1         | 23.05                    | 23.05                       | 22.91                     | 24.0                   |
| Channel         |            |         |           | 632668                   | 633332                      | 634000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3490.02                  | 3499.98                     | 3510                      |                        |
| 80              | PI/2 BPSK  | 1       | 1         | 23.09                    | 22.94                       | 23.00                     | 24.0                   |
| Channel         |            |         |           | 632334                   | 633332                      | 634332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3485.01                  | 3499.98                     | 3514.98                   |                        |
| 70              | PI/2 BPSK  | 1       | 1         | 22.98                    | 23.13                       | 22.98                     | 24.0                   |
| Channel         |            |         |           | 632000                   | 633332                      | 634666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3480                     | 3499.98                     | 3519.99                   |                        |
| 60              | PI/2 BPSK  | 1       | 1         | 23.00                    | 23.06                       | 23.04                     | 24.0                   |
| Channel         |            |         |           | 631668                   | 633332                      | 635000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3475.02                  | 3499.98                     | 3525                      |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 22.92                    | 22.96                       | 23.04                     | 24.0                   |
| Channel         |            |         |           | 631334                   | 633332                      | 635332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3470.01                  | 3499.98                     | 3529.98                   |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 22.92                    | 23.10                       | 22.92                     | 24.0                   |
| Channel         |            |         |           | 631000                   | 633332                      | 635666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3465                     | 3499.98                     | 3534.99                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 23.08                    | 22.97                       | 22.86                     | 24.0                   |
| Channel         |            |         |           | 630834                   | 633332                      | 635832                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3462.51                  | 3499.98                     | 3537.48                   |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 22.96                    | 22.98                       | 22.96                     | 24.0                   |
| Channel         |            |         |           | 630668                   | 633332                      | 636000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3460.02                  | 3499.98                     | 3540                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 22.96                    | 23.12                       | 22.96                     | 24.0                   |
| Channel         |            |         |           | 630500                   | 633332                      | 636166                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3457.5                   | 3499.98                     | 3542.49                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 23.05                    | 22.97                       | 22.93                     | 24.0                   |
| Channel         |            |         |           | 630334                   | 633332                      | 636332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3455.01                  | 3499.98                     | 3544.98                   |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 23.02                    | 23.04                       | 22.87                     | 24.0                   |



&lt;FR1 n77\_Ant 2\_Sensor OFF&gt;

| 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                   |                        | 24.0                |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 23.10                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 22.97                    |                        | 23.5                |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 22.78                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 22.47                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 22.99                    |                        | 23.5                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 22.32                    |                        |                     |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 22.31                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 23.01                    |                        | 24.0                |
| 100             | QPSK       | 1       | 137       |                       | 22.87                    |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 22.89                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 21.78                    |                        | 23.0                |
| 100             | QPSK       | 135     | 69        |                       | 22.71                    |                        | 24.0                |
| 100             | QPSK       | 135     | 138       |                       | 21.81                    |                        | 23.0                |
| 100             | QPSK       | 270     | 0         |                       | 21.80                    |                        |                     |
| 100             | 16QAM      | 1       | 1         |                       | 21.95                    |                        |                     |
| 100             | 64QAM      | 1       | 1         |                       | 20.46                    |                        | 21.5                |
| 100             | 256QAM     | 1       | 1         |                       | 18.46                    |                        | 19.5                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | 24.0                |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 22.82                 | 22.96                    | 22.85                  |                     |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | 24.0                |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 22.85                 | 22.91                    | 22.93                  |                     |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | 24.0                |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 22.87                 | 23.02                    | 22.87                  |                     |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | 24.0                |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 22.91                 | 22.98                    | 22.79                  |                     |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | 24.0                |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 22.82                 | 22.96                    | 22.92                  |                     |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | 24.0                |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 22.75                 | 22.99                    | 22.88                  |                     |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | 24.0                |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 22.80                 | 22.93                    | 22.79                  |                     |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | 24.0                |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 22.78                 | 23.00                    | 22.91                  |                     |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | 24.0                |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 22.85                 | 23.06                    | 22.88                  |                     |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | 24.0                |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 22.72                 | 22.92                    | 22.81                  |                     |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | 24.0                |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 22.92                 | 22.90                    | 22.86                  |                     |



&lt;FR1 n77\_Ant 0\_Sensor ON&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           |                          | 633332                      |                           | 13.5                   |
| Frequency (MHz) |            |         |           |                          | 3499.98                     |                           |                        |
| 100             | PI/2 BPSK  | 1       | 1         |                          | 13.02                       |                           |                        |
| 100             | PI/2 BPSK  | 1       | 137       |                          | 12.92                       |                           | 13.5                   |
| 100             | PI/2 BPSK  | 1       | 271       |                          | 12.90                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 0         |                          | 12.72                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 69        |                          | 12.81                       |                           | 13.5                   |
| 100             | PI/2 BPSK  | 135     | 138       |                          | 12.66                       |                           |                        |
| 100             | PI/2 BPSK  | 270     | 0         |                          | 12.85                       |                           |                        |
| 100             | QPSK       | 1       | 1         |                          | 12.76                       |                           | 13.5                   |
| 100             | QPSK       | 1       | 137       |                          | 12.73                       |                           |                        |
| 100             | QPSK       | 1       | 271       |                          | 12.75                       |                           |                        |
| 100             | QPSK       | 135     | 0         |                          | 12.81                       |                           | 13.5                   |
| 100             | QPSK       | 135     | 69        |                          | 12.80                       |                           |                        |
| 100             | QPSK       | 135     | 138       |                          | 12.82                       |                           |                        |
| 100             | QPSK       | 270     | 0         |                          | 12.73                       |                           | 13.5                   |
| 100             | 16QAM      | 1       | 1         |                          | 12.89                       |                           |                        |
| 100             | 64QAM      | 1       | 1         |                          | 12.75                       |                           |                        |
| 100             | 256QAM     | 1       | 1         |                          | 12.87                       |                           | 13.5                   |
| Channel         |            |         |           | 633000                   | 633332                      | 633666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3495                     | 3499.98                     | 3504.99                   |                        |
| 90              | PI/2 BPSK  | 1       | 1         | 12.55                    | 12.72                       | 12.31                     | 13.5                   |
| Channel         |            |         |           | 632668                   | 633332                      | 634000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3490.02                  | 3499.98                     | 3510                      |                        |
| 80              | PI/2 BPSK  | 1       | 1         | 12.67                    | 12.73                       | 12.38                     | 13.5                   |
| Channel         |            |         |           | 632334                   | 633332                      | 634332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3485.01                  | 3499.98                     | 3514.98                   |                        |
| 70              | PI/2 BPSK  | 1       | 1         | 12.51                    | 12.62                       | 12.43                     | 13.5                   |
| Channel         |            |         |           | 632000                   | 633332                      | 634666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3480                     | 3499.98                     | 3519.99                   |                        |
| 60              | PI/2 BPSK  | 1       | 1         | 12.60                    | 12.69                       | 12.40                     | 13.5                   |
| Channel         |            |         |           | 631668                   | 633332                      | 635000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3475.02                  | 3499.98                     | 3525                      |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 12.58                    | 12.73                       | 12.45                     | 13.5                   |
| Channel         |            |         |           | 631334                   | 633332                      | 635332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3470.01                  | 3499.98                     | 3529.98                   |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 12.61                    | 12.64                       | 12.42                     | 13.5                   |
| Channel         |            |         |           | 631000                   | 633332                      | 635666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3465                     | 3499.98                     | 3534.99                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 12.60                    | 12.62                       | 12.48                     | 13.5                   |
| Channel         |            |         |           | 630834                   | 633332                      | 635832                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3462.51                  | 3499.98                     | 3537.48                   |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 12.58                    | 12.74                       | 12.40                     | 13.5                   |
| Channel         |            |         |           | 630668                   | 633332                      | 636000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3460.02                  | 3499.98                     | 3540                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 12.62                    | 12.75                       | 12.40                     | 13.5                   |
| Channel         |            |         |           | 630500                   | 633332                      | 636166                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3457.5                   | 3499.98                     | 3542.49                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 12.58                    | 12.64                       | 12.37                     | 13.5                   |
| Channel         |            |         |           | 630334                   | 633332                      | 636332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3455.01                  | 3499.98                     | 3544.98                   |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 12.67                    | 12.58                       | 12.46                     | 13.5                   |





&lt;FR1 n77\_Ant 2\_Sensor ON&gt;

| 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                   |                        | 13.5                |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 12.93                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 12.66                    |                        | 13.5                |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 12.82                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 12.77                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 12.78                    |                        | 13.5                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 12.71                    |                        |                     |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 12.78                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 12.71                    |                        | 13.5                |
| 100             | QPSK       | 1       | 137       |                       | 12.73                    |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 12.80                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 12.80                    |                        | 13.5                |
| 100             | QPSK       | 135     | 69        |                       | 12.73                    |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 12.76                    |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 12.74                    |                        | 13.5                |
| 100             | 16QAM      | 1       | 1         |                       | 12.68                    |                        |                     |
| 100             | 64QAM      | 1       | 1         |                       | 12.73                    |                        |                     |
| 100             | 256QAM     | 1       | 1         |                       | 12.78                    |                        | 13.5                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 12.61                 | 12.48                    | 12.58                  | 13.5                |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 12.55                 | 12.48                    | 12.46                  | 13.5                |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 12.46                 | 12.56                    | 12.60                  | 13.5                |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 12.44                 | 12.49                    | 12.42                  | 13.5                |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 12.55                 | 12.67                    | 12.52                  | 13.5                |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 12.56                 | 12.52                    | 12.50                  | 13.5                |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 12.57                 | 12.60                    | 12.53                  | 13.5                |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 12.59                 | 12.67                    | 12.56                  | 13.5                |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 12.51                 | 12.64                    | 12.59                  | 13.5                |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 12.60                 | 12.56                    | 12.52                  | 13.5                |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 12.54                 | 12.57                    | 12.55                  | 13.5                |



&lt;FR1 n77\_HPUE\_Ant 0\_Sensor OFF&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           |                          | 633332                      |                           |                        |
| Frequency (MHz) |            |         |           |                          | 3499.98                     |                           |                        |
| 100             | PI/2 BPSK  | 1       | 1         |                          | 26.15                       |                           | 27.0                   |
| 100             | PI/2 BPSK  | 1       | 137       |                          | 25.89                       |                           |                        |
| 100             | PI/2 BPSK  | 1       | 271       |                          | 25.91                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 0         |                          | 25.43                       |                           | 26.5                   |
| 100             | PI/2 BPSK  | 135     | 69        |                          | 25.80                       |                           | 27.0                   |
| 100             | PI/2 BPSK  | 135     | 138       |                          | 25.41                       |                           | 26.5                   |
| 100             | PI/2 BPSK  | 270     | 0         |                          | 25.34                       |                           |                        |
| 100             | QPSK       | 1       | 1         |                          | 26.09                       |                           | 27.0                   |
| 100             | QPSK       | 1       | 137       |                          | 25.79                       |                           |                        |
| 100             | QPSK       | 1       | 271       |                          | 25.85                       |                           |                        |
| 100             | QPSK       | 135     | 0         |                          | 24.93                       |                           | 26.0                   |
| 100             | QPSK       | 135     | 69        |                          | 25.78                       |                           | 27.0                   |
| 100             | QPSK       | 135     | 138       |                          | 24.85                       |                           | 26.0                   |
| 100             | QPSK       | 270     | 0         |                          | 24.87                       |                           |                        |
| 100             | 16QAM      | 1       | 1         |                          | 25.06                       |                           | 26.0                   |
| 100             | 64QAM      | 1       | 1         |                          | 23.58                       |                           | 24.5                   |
| 100             | 256QAM     | 1       | 1         |                          | 21.54                       |                           | 22.5                   |
| Channel         |            |         |           | 633000                   | 633332                      | 633666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3495                     | 3499.98                     | 3504.99                   |                        |
| 90              | PI/2 BPSK  | 1       | 1         | 25.97                    | 26.10                       | 25.89                     | 27.0                   |
| Channel         |            |         |           | 632668                   | 633332                      | 634000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3490.02                  | 3499.98                     | 3510                      |                        |
| 80              | PI/2 BPSK  | 1       | 1         | 26.00                    | 26.00                       | 26.02                     | 27.0                   |
| Channel         |            |         |           | 632334                   | 633332                      | 634332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3485.01                  | 3499.98                     | 3514.98                   |                        |
| 70              | PI/2 BPSK  | 1       | 1         | 25.82                    | 25.98                       | 25.98                     | 27.0                   |
| Channel         |            |         |           | 632000                   | 633332                      | 634666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3480                     | 3499.98                     | 3519.99                   |                        |
| 60              | PI/2 BPSK  | 1       | 1         | 25.96                    | 26.07                       | 26.01                     | 27.0                   |
| Channel         |            |         |           | 631668                   | 633332                      | 635000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3475.02                  | 3499.98                     | 3525                      |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 25.90                    | 26.06                       | 25.94                     | 27.0                   |
| Channel         |            |         |           | 631334                   | 633332                      | 635332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3470.01                  | 3499.98                     | 3529.98                   |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 25.93                    | 25.97                       | 25.89                     | 27.0                   |
| Channel         |            |         |           | 631000                   | 633332                      | 635666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3465                     | 3499.98                     | 3534.99                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 26.00                    | 26.02                       | 26.04                     | 27.0                   |
| Channel         |            |         |           | 630834                   | 633332                      | 635832                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3462.51                  | 3499.98                     | 3537.48                   |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 25.95                    | 26.04                       | 25.93                     | 27.0                   |
| Channel         |            |         |           | 630668                   | 633332                      | 636000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3460.02                  | 3499.98                     | 3540                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 25.97                    | 25.99                       | 25.86                     | 27.0                   |
| Channel         |            |         |           | 630500                   | 633332                      | 636166                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3457.5                   | 3499.98                     | 3542.49                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 25.89                    | 26.11                       | 26.01                     | 27.0                   |
| Channel         |            |         |           | 630334                   | 633332                      | 636332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3455.01                  | 3499.98                     | 3544.98                   |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 26.01                    | 26.11                       | 26.01                     | 27.0                   |



&lt;FR1 n77\_HPUE\_Ant 2\_Sensor OFF&gt;

| 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                   |                        | 27.0                |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 25.92                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 25.34                    |                        | 26.5                |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 25.40                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 25.01                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 25.35                    |                        | 26.5                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 24.92                    |                        |                     |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 24.90                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 25.53                    |                        | 27.0                |
| 100             | QPSK       | 1       | 137       |                       | 25.31                    |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 25.34                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 24.37                    |                        | 26.0                |
| 100             | QPSK       | 135     | 69        |                       | 25.25                    |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 24.45                    |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 24.38                    |                        | 26.0                |
| 100             | 16QAM      | 1       | 1         |                       | 24.42                    |                        |                     |
| 100             | 64QAM      | 1       | 1         |                       | 23.02                    |                        |                     |
| 100             | 256QAM     | 1       | 1         |                       | 20.95                    |                        | 22.5                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | 27.0                |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 25.37                 | 25.71                    | 25.57                  |                     |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | 27.0                |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 25.40                 | 25.60                    | 25.45                  |                     |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | 27.0                |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 25.49                 | 25.70                    | 25.46                  |                     |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | 27.0                |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 25.41                 | 25.66                    | 25.43                  |                     |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | 27.0                |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 25.54                 | 25.69                    | 25.54                  |                     |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | 27.0                |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 25.39                 | 25.62                    | 25.51                  |                     |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | 27.0                |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 25.46                 | 25.67                    | 25.49                  |                     |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | 27.0                |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 25.55                 | 25.65                    | 25.46                  |                     |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | 27.0                |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 25.53                 | 25.54                    | 25.56                  |                     |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | 27.0                |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 25.52                 | 25.59                    | 25.59                  |                     |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | 27.0                |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 25.43                 | 25.58                    | 25.50                  |                     |



&lt;FR1 n77\_HPUE\_Ant 0\_Sensor ON&gt;

| 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                   |                        | 16.5                |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 16.00                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 15.81                    |                        | 16.5                |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 15.70                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 15.70                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 15.89                    |                        | 16.5                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 15.74                    |                        | 16.5                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 15.81                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 15.82                    |                        |                     |
| 100             | QPSK       | 1       | 137       |                       | 15.86                    |                        | 16.5                |
| 100             | QPSK       | 1       | 271       |                       | 15.88                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 15.74                    |                        |                     |
| 100             | QPSK       | 135     | 69        |                       | 15.78                    |                        | 16.5                |
| 100             | QPSK       | 135     | 138       |                       | 15.86                    |                        | 16.5                |
| 100             | QPSK       | 270     | 0         |                       | 15.77                    |                        |                     |
| 100             | 16QAM      | 1       | 1         |                       | 15.76                    |                        |                     |
| 100             | 64QAM      | 1       | 1         |                       | 15.90                    |                        | 16.5                |
| 100             | 256QAM     | 1       | 1         |                       | 15.79                    |                        | 16.5                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 15.58                 | 15.64                    | 15.69                  |                     |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 15.51                 | 15.71                    | 15.65                  |                     |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 15.59                 | 15.74                    | 15.68                  |                     |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 15.56                 | 15.65                    | 15.60                  |                     |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 15.58                 | 15.59                    | 15.58                  |                     |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 15.66                 | 15.65                    | 15.53                  |                     |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 15.53                 | 15.75                    | 15.58                  |                     |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 15.50                 | 15.55                    | 15.59                  |                     |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 15.62                 | 15.64                    | 15.65                  |                     |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 15.62                 | 15.70                    | 15.59                  |                     |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 15.63                 | 15.75                    | 15.63                  |                     |



&lt;FR1 n77\_HPUE\_Ant 2\_Sensor ON&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           |                          | 633332                      |                           | 16.5                   |
| Frequency (MHz) |            |         |           |                          | 3499.98                     |                           |                        |
| 100             | PI/2 BPSK  | 1       | 1         |                          | 15.87                       |                           |                        |
| 100             | PI/2 BPSK  | 1       | 137       |                          | 15.67                       |                           | 16.5                   |
| 100             | PI/2 BPSK  | 1       | 271       |                          | 15.65                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 0         |                          | 15.65                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 69        |                          | 15.68                       |                           | 16.5                   |
| 100             | PI/2 BPSK  | 135     | 138       |                          | 15.67                       |                           |                        |
| 100             | PI/2 BPSK  | 270     | 0         |                          | 15.74                       |                           |                        |
| 100             | QPSK       | 1       | 1         |                          | 15.66                       |                           | 16.5                   |
| 100             | QPSK       | 1       | 137       |                          | 15.67                       |                           |                        |
| 100             | QPSK       | 1       | 271       |                          | 15.65                       |                           |                        |
| 100             | QPSK       | 135     | 0         |                          | 15.68                       |                           | 16.5                   |
| 100             | QPSK       | 135     | 69        |                          | 15.66                       |                           |                        |
| 100             | QPSK       | 135     | 138       |                          | 15.61                       |                           |                        |
| 100             | QPSK       | 270     | 0         |                          | 15.77                       |                           | 16.5                   |
| 100             | 16QAM      | 1       | 1         |                          | 15.64                       |                           |                        |
| 100             | 64QAM      | 1       | 1         |                          | 15.69                       |                           |                        |
| 100             | 256QAM     | 1       | 1         |                          | 15.63                       |                           | 16.5                   |
| Channel         |            |         |           | 633000                   | 633332                      | 633666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3495                     | 3499.98                     | 3504.99                   |                        |
| 90              | PI/2 BPSK  | 1       | 1         | 15.32                    | 15.51                       | 15.51                     | 16.5                   |
| Channel         |            |         |           | 632668                   | 633332                      | 634000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3490.02                  | 3499.98                     | 3510                      |                        |
| 80              | PI/2 BPSK  | 1       | 1         | 15.44                    | 15.58                       | 15.49                     | 16.5                   |
| Channel         |            |         |           | 632334                   | 633332                      | 634332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3485.01                  | 3499.98                     | 3514.98                   |                        |
| 70              | PI/2 BPSK  | 1       | 1         | 15.42                    | 15.42                       | 15.41                     | 16.5                   |
| Channel         |            |         |           | 632000                   | 633332                      | 634666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3480                     | 3499.98                     | 3519.99                   |                        |
| 60              | PI/2 BPSK  | 1       | 1         | 15.48                    | 15.44                       | 15.40                     | 16.5                   |
| Channel         |            |         |           | 631668                   | 633332                      | 635000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3475.02                  | 3499.98                     | 3525                      |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 15.41                    | 15.57                       | 15.42                     | 16.5                   |
| Channel         |            |         |           | 631334                   | 633332                      | 635332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3470.01                  | 3499.98                     | 3529.98                   |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 15.35                    | 15.59                       | 15.60                     | 16.5                   |
| Channel         |            |         |           | 631000                   | 633332                      | 635666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3465                     | 3499.98                     | 3534.99                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 15.47                    | 15.45                       | 15.48                     | 16.5                   |
| Channel         |            |         |           | 630834                   | 633332                      | 635832                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3462.51                  | 3499.98                     | 3537.48                   |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 15.51                    | 15.47                       | 15.58                     | 16.5                   |
| Channel         |            |         |           | 630668                   | 633332                      | 636000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3460.02                  | 3499.98                     | 3540                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 15.39                    | 15.54                       | 15.47                     | 16.5                   |
| Channel         |            |         |           | 630500                   | 633332                      | 636166                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3457.5                   | 3499.98                     | 3542.49                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 15.48                    | 15.48                       | 15.44                     | 16.5                   |
| Channel         |            |         |           | 630334                   | 633332                      | 636332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3455.01                  | 3499.98                     | 3544.98                   |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 15.45                    | 15.60                       | 15.41                     | 16.5                   |



&lt;FR1 n78\_Ant 0\_Sensor OFF&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           |                          | 650000                      |                           |                        |
| Frequency (MHz) |            |         |           |                          | 3750                        |                           |                        |
| 100             | PI/2 BPSK  | 1       | 1         |                          | 23.04                       |                           | 24.0                   |
| 100             | PI/2 BPSK  | 1       | 137       |                          | 22.79                       |                           |                        |
| 100             | PI/2 BPSK  | 1       | 271       |                          | 22.89                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 0         |                          | 22.54                       |                           | 23.5                   |
| 100             | PI/2 BPSK  | 135     | 69        |                          | 22.82                       |                           | 24.0                   |
| 100             | PI/2 BPSK  | 135     | 138       |                          | 22.42                       |                           | 23.5                   |
| 100             | PI/2 BPSK  | 270     | 0         |                          | 22.59                       |                           |                        |
| 100             | QPSK       | 1       | 1         |                          | 23.01                       |                           | 24.0                   |
| 100             | QPSK       | 1       | 137       |                          | 22.67                       |                           |                        |
| 100             | QPSK       | 1       | 271       |                          | 22.88                       |                           |                        |
| 100             | QPSK       | 135     | 0         |                          | 22.06                       |                           | 23.0                   |
| 100             | QPSK       | 135     | 69        |                          | 22.77                       |                           | 24.0                   |
| 100             | QPSK       | 135     | 138       |                          | 21.89                       |                           | 23.0                   |
| 100             | QPSK       | 270     | 0         |                          | 22.10                       |                           |                        |
| 100             | 16QAM      | 1       | 1         |                          | 22.05                       |                           | 23.0                   |
| 100             | 64QAM      | 1       | 1         |                          | 20.57                       |                           | 21.5                   |
| 100             | 256QAM     | 1       | 1         |                          | 18.54                       |                           | 19.5                   |
| Channel         |            |         |           | 649668                   | 650000                      | 650332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3745.02                  | 3750                        | 3754.98                   |                        |
| 90              | PI/2 BPSK  | 1       | 1         | 22.95                    | 22.87                       | 22.95                     | 24.0                   |
| Channel         |            |         |           | 649334                   | 650000                      | 650666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3740.01                  | 3750                        | 3759.99                   |                        |
| 80              | PI/2 BPSK  | 1       | 1         | 22.85                    | 22.87                       | 23.00                     | 24.0                   |
| Channel         |            |         |           | 649000                   | 650000                      | 651000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3735                     | 3750                        | 3765                      |                        |
| 70              | PI/2 BPSK  | 1       | 1         | 22.95                    | 22.85                       | 22.94                     | 24.0                   |
| Channel         |            |         |           | 648668                   | 650000                      | 651332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3730.02                  | 3750                        | 3769.98                   |                        |
| 60              | PI/2 BPSK  | 1       | 1         | 22.94                    | 22.88                       | 22.99                     | 24.0                   |
| Channel         |            |         |           | 648334                   | 650000                      | 651666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3725.01                  | 3750                        | 3774.99                   |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 22.80                    | 22.97                       | 22.93                     | 24.0                   |
| Channel         |            |         |           | 648000                   | 650000                      | 652000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3720                     | 3750                        | 3780                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 22.96                    | 23.01                       | 22.97                     | 24.0                   |
| Channel         |            |         |           | 647668                   | 650000                      | 652332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3715.02                  | 3750.00                     | 3784.98                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 22.95                    | 22.84                       | 22.89                     | 24.0                   |
| Channel         |            |         |           | 647500                   | 650000                      | 652500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3712.5                   | 3750.00                     | 3787.50                   |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 22.79                    | 22.86                       | 22.95                     | 24.0                   |
| Channel         |            |         |           | 647334                   | 650000                      | 652666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3710.01                  | 3750                        | 3789.99                   |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 22.88                    | 22.95                       | 22.86                     | 24.0                   |
| Channel         |            |         |           | 647168                   | 650000                      | 652832                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3707.52                  | 3750                        | 3792.48                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 22.91                    | 23.03                       | 22.91                     | 24.0                   |
| Channel         |            |         |           | 647000                   | 650000                      | 653000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3705                     | 3750                        | 3795                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 22.80                    | 22.89                       | 22.97                     | 24.0                   |



&lt;FR1 n78\_Ant 2\_Sensor OFF&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           |                          | 650000                      |                           | 24.0                   |
| Frequency (MHz) |            |         |           |                          | 3750                        |                           |                        |
| 100             | PI/2 BPSK  | 1       | 1         |                          | 23.15                       |                           |                        |
| 100             | PI/2 BPSK  | 1       | 137       |                          | 22.87                       |                           | 23.5                   |
| 100             | PI/2 BPSK  | 1       | 271       |                          | 22.94                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 0         |                          | 22.35                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 69        |                          | 22.90                       |                           | 23.5                   |
| 100             | PI/2 BPSK  | 135     | 138       |                          | 22.41                       |                           |                        |
| 100             | PI/2 BPSK  | 270     | 0         |                          | 22.35                       |                           |                        |
| 100             | QPSK       | 1       | 1         |                          | 23.09                       |                           | 24.0                   |
| 100             | QPSK       | 1       | 137       |                          | 22.85                       |                           |                        |
| 100             | QPSK       | 1       | 271       |                          | 22.93                       |                           |                        |
| 100             | QPSK       | 135     | 0         |                          | 21.89                       |                           | 23.0                   |
| 100             | QPSK       | 135     | 69        |                          | 22.90                       |                           | 24.0                   |
| 100             | QPSK       | 135     | 138       |                          | 21.80                       |                           | 23.0                   |
| 100             | QPSK       | 270     | 0         |                          | 21.90                       |                           |                        |
| 100             | 16QAM      | 1       | 1         |                          | 21.92                       |                           |                        |
| 100             | 64QAM      | 1       | 1         |                          | 20.40                       |                           | 21.5                   |
| 100             | 256QAM     | 1       | 1         |                          | 18.38                       |                           | 19.5                   |
| Channel         |            |         |           | 649668                   | 650000                      | 650332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3745.02                  | 3750                        | 3754.98                   |                        |
| 90              | PI/2 BPSK  | 1       | 1         | 22.94                    | 23.03                       | 23.01                     |                        |
| Channel         |            |         |           | 649334                   | 650000                      | 650666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3740.01                  | 3750                        | 3759.99                   |                        |
| 80              | PI/2 BPSK  | 1       | 1         | 23.04                    | 22.99                       | 22.96                     |                        |
| Channel         |            |         |           | 649000                   | 650000                      | 651000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3735                     | 3750                        | 3765                      |                        |
| 70              | PI/2 BPSK  | 1       | 1         | 23.04                    | 23.08                       | 22.84                     |                        |
| Channel         |            |         |           | 648668                   | 650000                      | 651332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3730.02                  | 3750                        | 3769.98                   |                        |
| 60              | PI/2 BPSK  | 1       | 1         | 22.88                    | 23.02                       | 22.94                     |                        |
| Channel         |            |         |           | 648334                   | 650000                      | 651666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3725.01                  | 3750                        | 3774.99                   |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 22.88                    | 23.09                       | 22.99                     |                        |
| Channel         |            |         |           | 648000                   | 650000                      | 652000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3720                     | 3750                        | 3780                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 22.96                    | 23.01                       | 22.98                     |                        |
| Channel         |            |         |           | 647668                   | 650000                      | 652332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3715.02                  | 3750.00                     | 3784.98                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 23.01                    | 22.99                       | 22.82                     |                        |
| Channel         |            |         |           | 647500                   | 650000                      | 652500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3712.5                   | 3750.00                     | 3787.50                   |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 23.04                    | 23.13                       | 23.00                     |                        |
| Channel         |            |         |           | 647334                   | 650000                      | 652666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3710.01                  | 3750                        | 3789.99                   |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 22.97                    | 22.98                       | 22.92                     |                        |
| Channel         |            |         |           | 647168                   | 650000                      | 652832                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3707.52                  | 3750                        | 3792.48                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 22.89                    | 23.02                       | 22.87                     |                        |
| Channel         |            |         |           | 647000                   | 650000                      | 653000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3705                     | 3750                        | 3795                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 23.01                    | 23.04                       | 23.01                     |                        |



&lt;FR1 n78\_Ant 0\_Sensor ON&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           |                          | 650000                      |                           |                        |
| Frequency (MHz) |            |         |           |                          | 3750                        |                           |                        |
| 100             | PI/2 BPSK  | 1       | 1         |                          | 13.14                       |                           |                        |
| 100             | PI/2 BPSK  | 1       | 137       |                          | 12.94                       |                           | 13.5                   |
| 100             | PI/2 BPSK  | 1       | 271       |                          | 12.99                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 0         |                          | 13.03                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 69        |                          | 12.88                       |                           | 13.5                   |
| 100             | PI/2 BPSK  | 135     | 138       |                          | 12.88                       |                           | 13.5                   |
| 100             | PI/2 BPSK  | 270     | 0         |                          | 13.01                       |                           |                        |
| 100             | QPSK       | 1       | 1         |                          | 13.01                       |                           |                        |
| 100             | QPSK       | 1       | 137       |                          | 12.85                       |                           | 13.5                   |
| 100             | QPSK       | 1       | 271       |                          | 12.98                       |                           |                        |
| 100             | QPSK       | 135     | 0         |                          | 12.99                       |                           |                        |
| 100             | QPSK       | 135     | 69        |                          | 12.84                       |                           | 13.5                   |
| 100             | QPSK       | 135     | 138       |                          | 13.01                       |                           | 13.5                   |
| 100             | QPSK       | 270     | 0         |                          | 13.00                       |                           |                        |
| 100             | 16QAM      | 1       | 1         |                          | 12.89                       |                           |                        |
| 100             | 64QAM      | 1       | 1         |                          | 12.99                       |                           | 13.5                   |
| 100             | 256QAM     | 1       | 1         |                          | 13.02                       |                           | 13.5                   |
| Channel         |            |         |           | 649668                   | 650000                      | 650332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3745.02                  | 3750                        | 3754.98                   |                        |
| 90              | PI/2 BPSK  | 1       | 1         | 12.64                    | 12.80                       | 12.57                     |                        |
| Channel         |            |         |           | 649334                   | 650000                      | 650666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3740.01                  | 3750                        | 3759.99                   |                        |
| 80              | PI/2 BPSK  | 1       | 1         | 12.62                    | 12.86                       | 12.56                     |                        |
| Channel         |            |         |           | 649000                   | 650000                      | 651000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3735                     | 3750                        | 3765                      |                        |
| 70              | PI/2 BPSK  | 1       | 1         | 12.59                    | 12.73                       | 12.58                     |                        |
| Channel         |            |         |           | 648668                   | 650000                      | 651332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3730.02                  | 3750                        | 3769.98                   |                        |
| 60              | PI/2 BPSK  | 1       | 1         | 12.61                    | 12.71                       | 12.50                     |                        |
| Channel         |            |         |           | 648334                   | 650000                      | 651666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3725.01                  | 3750                        | 3774.99                   |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 12.73                    | 12.78                       | 12.44                     |                        |
| Channel         |            |         |           | 648000                   | 650000                      | 652000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3720                     | 3750                        | 3780                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 12.58                    | 12.86                       | 12.54                     |                        |
| Channel         |            |         |           | 647668                   | 650000                      | 652332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3715.02                  | 3750.00                     | 3784.98                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 12.65                    | 12.80                       | 12.44                     |                        |
| Channel         |            |         |           | 647500                   | 650000                      | 652500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3712.5                   | 3750.00                     | 3787.50                   |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 12.61                    | 12.78                       | 12.60                     |                        |
| Channel         |            |         |           | 647334                   | 650000                      | 652666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3710.01                  | 3750                        | 3789.99                   |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 12.71                    | 12.87                       | 12.62                     |                        |
| Channel         |            |         |           | 647168                   | 650000                      | 652832                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3707.52                  | 3750                        | 3792.48                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 12.68                    | 12.83                       | 12.52                     |                        |
| Channel         |            |         |           | 647000                   | 650000                      | 653000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3705                     | 3750                        | 3795                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 12.68                    | 12.81                       | 12.59                     |                        |





&lt;FR1 n78\_Ant 2\_Sensor ON&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           |                          | 650000                      |                           |                        |
| Frequency (MHz) |            |         |           |                          | 3750                        |                           |                        |
| 100             | PI/2 BPSK  | 1       | 1         |                          | 12.78                       |                           |                        |
| 100             | PI/2 BPSK  | 1       | 137       |                          | 12.58                       |                           | 13.5                   |
| 100             | PI/2 BPSK  | 1       | 271       |                          | 12.57                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 0         |                          | 12.55                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 69        |                          | 12.63                       |                           | 13.5                   |
| 100             | PI/2 BPSK  | 135     | 138       |                          | 12.58                       |                           | 13.5                   |
| 100             | PI/2 BPSK  | 270     | 0         |                          | 12.53                       |                           |                        |
| 100             | QPSK       | 1       | 1         |                          | 12.51                       |                           |                        |
| 100             | QPSK       | 1       | 137       |                          | 12.56                       |                           | 13.5                   |
| 100             | QPSK       | 1       | 271       |                          | 12.64                       |                           |                        |
| 100             | QPSK       | 135     | 0         |                          | 12.59                       |                           |                        |
| 100             | QPSK       | 135     | 69        |                          | 12.54                       |                           | 13.5                   |
| 100             | QPSK       | 135     | 138       |                          | 12.52                       |                           | 13.5                   |
| 100             | QPSK       | 270     | 0         |                          | 12.56                       |                           |                        |
| 100             | 16QAM      | 1       | 1         |                          | 12.65                       |                           |                        |
| 100             | 64QAM      | 1       | 1         |                          | 12.66                       |                           | 13.5                   |
| 100             | 256QAM     | 1       | 1         |                          | 12.63                       |                           | 13.5                   |
| Channel         |            |         |           | 649668                   | 650000                      | 650332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3745.02                  | 3750                        | 3754.98                   |                        |
| 90              | PI/2 BPSK  | 1       | 1         | 12.25                    | 12.49                       | 12.43                     |                        |
| Channel         |            |         |           | 649334                   | 650000                      | 650666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3740.01                  | 3750                        | 3759.99                   |                        |
| 80              | PI/2 BPSK  | 1       | 1         | 12.29                    | 12.45                       | 12.41                     |                        |
| Channel         |            |         |           | 649000                   | 650000                      | 651000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3735                     | 3750                        | 3765                      |                        |
| 70              | PI/2 BPSK  | 1       | 1         | 12.26                    | 12.40                       | 12.45                     |                        |
| Channel         |            |         |           | 648668                   | 650000                      | 651332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3730.02                  | 3750                        | 3769.98                   |                        |
| 60              | PI/2 BPSK  | 1       | 1         | 12.42                    | 12.39                       | 12.32                     |                        |
| Channel         |            |         |           | 648334                   | 650000                      | 651666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3725.01                  | 3750                        | 3774.99                   |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 12.35                    | 12.37                       | 12.32                     |                        |
| Channel         |            |         |           | 648000                   | 650000                      | 652000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3720                     | 3750                        | 3780                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 12.24                    | 12.41                       | 12.51                     |                        |
| Channel         |            |         |           | 647668                   | 650000                      | 652332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3715.02                  | 3750.00                     | 3784.98                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 12.30                    | 12.39                       | 12.43                     |                        |
| Channel         |            |         |           | 647500                   | 650000                      | 652500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3712.5                   | 3750.00                     | 3787.50                   |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 12.37                    | 12.34                       | 12.41                     |                        |
| Channel         |            |         |           | 647334                   | 650000                      | 652666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3710.01                  | 3750                        | 3789.99                   |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 12.37                    | 12.34                       | 12.50                     |                        |
| Channel         |            |         |           | 647168                   | 650000                      | 652832                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3707.52                  | 3750                        | 3792.48                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 12.27                    | 12.51                       | 12.51                     |                        |
| Channel         |            |         |           | 647000                   | 650000                      | 653000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3705                     | 3750                        | 3795                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 12.38                    | 12.48                       | 12.44                     |                        |



&lt;FR1 n78\_HPUE\_Ant 0\_Sensor OFF&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           |                          | 650000                      |                           |                        |
| Frequency (MHz) |            |         |           |                          | 3750                        |                           |                        |
| 100             | PI/2 BPSK  | 1       | 1         |                          | 26.03                       |                           | 27.0                   |
| 100             | PI/2 BPSK  | 1       | 137       |                          | 25.71                       |                           |                        |
| 100             | PI/2 BPSK  | 1       | 271       |                          | 25.86                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 0         |                          | 25.31                       |                           | 26.5                   |
| 100             | PI/2 BPSK  | 135     | 69        |                          | 25.74                       |                           | 27.0                   |
| 100             | PI/2 BPSK  | 135     | 138       |                          | 25.30                       |                           | 26.5                   |
| 100             | PI/2 BPSK  | 270     | 0         |                          | 25.33                       |                           |                        |
| 100             | QPSK       | 1       | 1         |                          | 25.98                       |                           | 27.0                   |
| 100             | QPSK       | 1       | 137       |                          | 25.72                       |                           |                        |
| 100             | QPSK       | 1       | 271       |                          | 25.70                       |                           |                        |
| 100             | QPSK       | 135     | 0         |                          | 24.79                       |                           | 26.0                   |
| 100             | QPSK       | 135     | 69        |                          | 25.67                       |                           | 27.0                   |
| 100             | QPSK       | 135     | 138       |                          | 24.74                       |                           | 26.0                   |
| 100             | QPSK       | 270     | 0         |                          | 24.77                       |                           |                        |
| 100             | 16QAM      | 1       | 1         |                          | 24.83                       |                           | 26.0                   |
| 100             | 64QAM      | 1       | 1         |                          | 23.42                       |                           | 24.5                   |
| 100             | 256QAM     | 1       | 1         |                          | 21.42                       |                           | 22.5                   |
| Channel         |            |         |           | 649668                   | 650000                      | 650332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3745.02                  | 3750                        | 3754.98                   |                        |
| 90              | PI/2 BPSK  | 1       | 1         | 25.85                    | 26.01                       | 25.70                     | 27.0                   |
| Channel         |            |         |           | 649334                   | 650000                      | 650666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3740.01                  | 3750                        | 3759.99                   |                        |
| 80              | PI/2 BPSK  | 1       | 1         | 25.75                    | 25.85                       | 25.88                     | 27.0                   |
| Channel         |            |         |           | 649000                   | 650000                      | 651000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3735                     | 3750                        | 3765                      |                        |
| 70              | PI/2 BPSK  | 1       | 1         | 25.79                    | 25.98                       | 25.76                     | 27.0                   |
| Channel         |            |         |           | 648668                   | 650000                      | 651332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3730.02                  | 3750                        | 3769.98                   |                        |
| 60              | PI/2 BPSK  | 1       | 1         | 25.79                    | 25.86                       | 25.72                     | 27.0                   |
| Channel         |            |         |           | 648334                   | 650000                      | 651666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3725.01                  | 3750                        | 3774.99                   |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 25.88                    | 25.90                       | 25.85                     | 27.0                   |
| Channel         |            |         |           | 648000                   | 650000                      | 652000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3720                     | 3750                        | 3780                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 25.92                    | 25.88                       | 25.84                     | 27.0                   |
| Channel         |            |         |           | 647668                   | 650000                      | 652332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3715.02                  | 3750.00                     | 3784.98                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 25.87                    | 26.02                       | 25.74                     | 27.0                   |
| Channel         |            |         |           | 647500                   | 650000                      | 652500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3712.5                   | 3750.00                     | 3787.50                   |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 25.91                    | 25.97                       | 25.86                     | 27.0                   |
| Channel         |            |         |           | 647334                   | 650000                      | 652666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3710.01                  | 3750                        | 3789.99                   |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 25.75                    | 26.00                       | 25.72                     | 27.0                   |
| Channel         |            |         |           | 647168                   | 650000                      | 652832                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3707.52                  | 3750                        | 3792.48                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 25.90                    | 25.89                       | 25.77                     | 27.0                   |
| Channel         |            |         |           | 647000                   | 650000                      | 653000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3705                     | 3750                        | 3795                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 25.76                    | 25.91                       | 25.79                     | 27.0                   |



&lt;FR1 n78\_HPUE\_Ant 2\_Sensor OFF&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           |                          | 650000                      |                           |                        |
| Frequency (MHz) |            |         |           |                          | 3750                        |                           |                        |
| 100             | PI/2 BPSK  | 1       | 1         |                          | 25.84                       |                           |                        |
| 100             | PI/2 BPSK  | 1       | 137       |                          | 25.54                       |                           | 27.0                   |
| 100             | PI/2 BPSK  | 1       | 271       |                          | 25.48                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 0         |                          | 25.00                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 69        |                          | 25.42                       |                           | 26.5                   |
| 100             | PI/2 BPSK  | 135     | 138       |                          | 24.96                       |                           | 27.0                   |
| 100             | PI/2 BPSK  | 270     | 0         |                          | 25.01                       |                           |                        |
| 100             | QPSK       | 1       | 1         |                          | 25.63                       |                           |                        |
| 100             | QPSK       | 1       | 137       |                          | 25.42                       |                           | 27.0                   |
| 100             | QPSK       | 1       | 271       |                          | 25.41                       |                           |                        |
| 100             | QPSK       | 135     | 0         |                          | 24.50                       |                           |                        |
| 100             | QPSK       | 135     | 69        |                          | 25.38                       |                           | 26.0                   |
| 100             | QPSK       | 135     | 138       |                          | 24.42                       |                           | 27.0                   |
| 100             | QPSK       | 270     | 0         |                          | 24.45                       |                           |                        |
| 100             | 16QAM      | 1       | 1         |                          | 24.50                       |                           |                        |
| 100             | 64QAM      | 1       | 1         |                          | 23.00                       |                           | 26.0                   |
| 100             | 256QAM     | 1       | 1         |                          | 21.16                       |                           | 24.5                   |
| Channel         |            |         |           | 649668                   | 650000                      | 650332                    | 22.5                   |
| Frequency (MHz) |            |         |           | 3745.02                  | 3750                        | 3754.98                   |                        |
| 90              | PI/2 BPSK  | 1       | 1         | 25.48                    | 25.62                       | 25.51                     |                        |
| Channel         |            |         |           | 649334                   | 650000                      | 650666                    | 27.0                   |
| Frequency (MHz) |            |         |           | 3740.01                  | 3750                        | 3759.99                   |                        |
| 80              | PI/2 BPSK  | 1       | 1         | 25.43                    | 25.67                       | 25.67                     |                        |
| Channel         |            |         |           | 649000                   | 650000                      | 651000                    | 27.0                   |
| Frequency (MHz) |            |         |           | 3735                     | 3750                        | 3765                      |                        |
| 70              | PI/2 BPSK  | 1       | 1         | 25.40                    | 25.54                       | 25.61                     |                        |
| Channel         |            |         |           | 648668                   | 650000                      | 651332                    | 27.0                   |
| Frequency (MHz) |            |         |           | 3730.02                  | 3750                        | 3769.98                   |                        |
| 60              | PI/2 BPSK  | 1       | 1         | 25.40                    | 25.51                       | 25.64                     |                        |
| Channel         |            |         |           | 648334                   | 650000                      | 651666                    | 27.0                   |
| Frequency (MHz) |            |         |           | 3725.01                  | 3750                        | 3774.99                   |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 25.46                    | 25.57                       | 25.53                     |                        |
| Channel         |            |         |           | 648000                   | 650000                      | 652000                    | 27.0                   |
| Frequency (MHz) |            |         |           | 3720                     | 3750                        | 3780                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 25.37                    | 25.63                       | 25.56                     |                        |
| Channel         |            |         |           | 647668                   | 650000                      | 652332                    | 27.0                   |
| Frequency (MHz) |            |         |           | 3715.02                  | 3750.00                     | 3784.98                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 25.55                    | 25.59                       | 25.68                     |                        |
| Channel         |            |         |           | 647500                   | 650000                      | 652500                    | 27.0                   |
| Frequency (MHz) |            |         |           | 3712.5                   | 3750.00                     | 3787.50                   |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 25.41                    | 25.51                       | 25.55                     |                        |
| Channel         |            |         |           | 647334                   | 650000                      | 652666                    | 27.0                   |
| Frequency (MHz) |            |         |           | 3710.01                  | 3750                        | 3789.99                   |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 25.45                    | 25.62                       | 25.60                     |                        |
| Channel         |            |         |           | 647168                   | 650000                      | 652832                    | 27.0                   |
| Frequency (MHz) |            |         |           | 3707.52                  | 3750                        | 3792.48                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 25.40                    | 25.58                       | 25.67                     |                        |
| Channel         |            |         |           | 647000                   | 650000                      | 653000                    | 27.0                   |
| Frequency (MHz) |            |         |           | 3705                     | 3750                        | 3795                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 25.49                    | 25.66                       | 25.61                     |                        |



&lt;FR1 n78\_HPUE\_Ant 0\_Sensor ON&gt;

| 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         |                       | 15.95                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 15.82                    |                        | 16.5                |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 15.78                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 15.84                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 15.69                    |                        | 16.5                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 15.72                    |                        | 16.5                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 15.85                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 15.84                    |                        |                     |
| 100             | QPSK       | 1       | 137       |                       | 15.66                    |                        | 16.5                |
| 100             | QPSK       | 1       | 271       |                       | 15.81                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 15.67                    |                        |                     |
| 100             | QPSK       | 135     | 69        |                       | 15.77                    |                        | 16.5                |
| 100             | QPSK       | 135     | 138       |                       | 15.68                    |                        | 16.5                |
| 100             | QPSK       | 270     | 0         |                       | 15.79                    |                        |                     |
| 100             | 16QAM      | 1       | 1         |                       | 15.66                    |                        |                     |
| 100             | 64QAM      | 1       | 1         |                       | 15.71                    |                        | 16.5                |
| 100             | 256QAM     | 1       | 1         |                       | 15.84                    |                        | 16.5                |
| Channel         |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 15.49                 | 15.50                    | 15.53                  |                     |
| Channel         |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 15.54                 | 15.57                    | 15.51                  |                     |
| Channel         |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3735                  | 3750                     | 3765                   |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 15.55                 | 15.67                    | 15.53                  |                     |
| Channel         |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3730.02               | 3750                     | 3769.98                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 15.53                 | 15.64                    | 15.38                  |                     |
| Channel         |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 15.60                 | 15.60                    | 15.46                  |                     |
| Channel         |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3720                  | 3750                     | 3780                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 15.59                 | 15.55                    | 15.43                  |                     |
| Channel         |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3715.02               | 3750.00                  | 3784.98                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 15.48                 | 15.58                    | 15.39                  |                     |
| Channel         |            |         |           | 647500                | 650000                   | 652500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3712.5                | 3750.00                  | 3787.50                |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 15.62                 | 15.68                    | 15.54                  |                     |
| Channel         |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3710.01               | 3750                     | 3789.99                |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 15.50                 | 15.70                    | 15.53                  |                     |
| Channel         |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3707.52               | 3750                     | 3792.48                |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 15.45                 | 15.53                    | 15.56                  |                     |
| Channel         |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3705                  | 3750                     | 3795                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 15.56                 | 15.58                    | 15.53                  |                     |



&lt;FR1 n78\_HPUE\_Ant 2\_Sensor ON&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           |                          | 650000                      |                           |                        |
| Frequency (MHz) |            |         |           |                          | 3750                        |                           |                        |
| 100             | PI/2 BPSK  | 1       | 1         |                          | 15.73                       |                           |                        |
| 100             | PI/2 BPSK  | 1       | 137       |                          | 15.52                       |                           | 16.5                   |
| 100             | PI/2 BPSK  | 1       | 271       |                          | 15.58                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 0         |                          | 15.48                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 69        |                          | 15.62                       |                           | 16.5                   |
| 100             | PI/2 BPSK  | 135     | 138       |                          | 15.62                       |                           | 16.5                   |
| 100             | PI/2 BPSK  | 270     | 0         |                          | 15.45                       |                           |                        |
| 100             | QPSK       | 1       | 1         |                          | 15.44                       |                           |                        |
| 100             | QPSK       | 1       | 137       |                          | 15.47                       |                           | 16.5                   |
| 100             | QPSK       | 1       | 271       |                          | 15.56                       |                           |                        |
| 100             | QPSK       | 135     | 0         |                          | 15.55                       |                           |                        |
| 100             | QPSK       | 135     | 69        |                          | 15.63                       |                           | 16.5                   |
| 100             | QPSK       | 135     | 138       |                          | 15.57                       |                           | 16.5                   |
| 100             | QPSK       | 270     | 0         |                          | 15.44                       |                           |                        |
| 100             | 16QAM      | 1       | 1         |                          | 15.53                       |                           |                        |
| 100             | 64QAM      | 1       | 1         |                          | 15.44                       |                           | 16.5                   |
| 100             | 256QAM     | 1       | 1         |                          | 15.51                       |                           | 16.5                   |
| Channel         |            |         |           | 649668                   | 650000                      | 650332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3745.02                  | 3750                        | 3754.98                   |                        |
| 90              | PI/2 BPSK  | 1       | 1         | 15.37                    | 15.32                       | 15.31                     |                        |
| Channel         |            |         |           | 649334                   | 650000                      | 650666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3740.01                  | 3750                        | 3759.99                   |                        |
| 80              | PI/2 BPSK  | 1       | 1         | 15.33                    | 15.43                       | 15.36                     |                        |
| Channel         |            |         |           | 649000                   | 650000                      | 651000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3735                     | 3750                        | 3765                      |                        |
| 70              | PI/2 BPSK  | 1       | 1         | 15.27                    | 15.37                       | 15.34                     |                        |
| Channel         |            |         |           | 648668                   | 650000                      | 651332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3730.02                  | 3750                        | 3769.98                   |                        |
| 60              | PI/2 BPSK  | 1       | 1         | 15.31                    | 15.41                       | 15.35                     |                        |
| Channel         |            |         |           | 648334                   | 650000                      | 651666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3725.01                  | 3750                        | 3774.99                   |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 15.38                    | 15.44                       | 15.21                     |                        |
| Channel         |            |         |           | 648000                   | 650000                      | 652000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3720                     | 3750                        | 3780                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 15.37                    | 15.37                       | 15.38                     |                        |
| Channel         |            |         |           | 647668                   | 650000                      | 652332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3715.02                  | 3750.00                     | 3784.98                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 15.37                    | 15.44                       | 15.19                     |                        |
| Channel         |            |         |           | 647500                   | 650000                      | 652500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3712.5                   | 3750.00                     | 3787.50                   |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 15.31                    | 15.45                       | 15.39                     |                        |
| Channel         |            |         |           | 647334                   | 650000                      | 652666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3710.01                  | 3750                        | 3789.99                   |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 15.32                    | 15.40                       | 15.38                     |                        |
| Channel         |            |         |           | 647168                   | 650000                      | 652832                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3707.52                  | 3750                        | 3792.48                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 15.41                    | 15.45                       | 15.28                     |                        |
| Channel         |            |         |           | 647000                   | 650000                      | 653000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3705                     | 3750                        | 3795                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 15.33                    | 15.35                       | 15.38                     |                        |



&lt;FR1 n78\_Ant 0\_Sensor OFF&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           |                          | 633332                      |                           |                        |
| Frequency (MHz) |            |         |           |                          | 3499.98                     |                           |                        |
| 100             | PI/2 BPSK  | 1       | 1         |                          | 23.12                       |                           | 24.0                   |
| 100             | PI/2 BPSK  | 1       | 137       |                          | 22.86                       |                           |                        |
| 100             | PI/2 BPSK  | 1       | 271       |                          | 22.96                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 0         |                          | 22.65                       |                           | 23.5                   |
| 100             | PI/2 BPSK  | 135     | 69        |                          | 22.92                       |                           | 24.0                   |
| 100             | PI/2 BPSK  | 135     | 138       |                          | 22.57                       |                           | 23.5                   |
| 100             | PI/2 BPSK  | 270     | 0         |                          | 22.67                       |                           |                        |
| 100             | QPSK       | 1       | 1         |                          | 23.08                       |                           | 24.0                   |
| 100             | QPSK       | 1       | 137       |                          | 22.81                       |                           |                        |
| 100             | QPSK       | 1       | 271       |                          | 22.96                       |                           |                        |
| 100             | QPSK       | 135     | 0         |                          | 22.10                       |                           | 23.0                   |
| 100             | QPSK       | 135     | 69        |                          | 22.86                       |                           | 24.0                   |
| 100             | QPSK       | 135     | 138       |                          | 22.02                       |                           | 23.0                   |
| 100             | QPSK       | 270     | 0         |                          | 22.12                       |                           |                        |
| 100             | 16QAM      | 1       | 1         |                          | 22.18                       |                           | 23.0                   |
| 100             | 64QAM      | 1       | 1         |                          | 20.74                       |                           | 21.5                   |
| 100             | 256QAM     | 1       | 1         |                          | 18.71                       |                           | 19.5                   |
| Channel         |            |         |           | 633000                   | 633332                      | 633666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3495                     | 3499.98                     | 3504.99                   |                        |
| 90              | PI/2 BPSK  | 1       | 1         | 23.03                    | 23.08                       | 23.06                     | 24.0                   |
| Channel         |            |         |           | 632668                   | 633332                      | 634000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3490.02                  | 3499.98                     | 3510                      |                        |
| 80              | PI/2 BPSK  | 1       | 1         | 23.08                    | 23.03                       | 23.02                     | 24.0                   |
| Channel         |            |         |           | 632334                   | 633332                      | 634332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3485.01                  | 3499.98                     | 3514.98                   |                        |
| 70              | PI/2 BPSK  | 1       | 1         | 23.08                    | 23.11                       | 22.99                     | 24.0                   |
| Channel         |            |         |           | 632000                   | 633332                      | 634666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3480                     | 3499.98                     | 3519.99                   |                        |
| 60              | PI/2 BPSK  | 1       | 1         | 22.93                    | 23.10                       | 22.90                     | 24.0                   |
| Channel         |            |         |           | 631668                   | 633332                      | 635000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3475.02                  | 3499.98                     | 3525                      |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 23.07                    | 23.00                       | 22.95                     | 24.0                   |
| Channel         |            |         |           | 631334                   | 633332                      | 635332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3470.01                  | 3499.98                     | 3529.98                   |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 22.98                    | 22.93                       | 23.01                     | 24.0                   |
| Channel         |            |         |           | 631000                   | 633332                      | 635666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3465                     | 3499.98                     | 3534.99                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 23.05                    | 22.95                       | 22.89                     | 24.0                   |
| Channel         |            |         |           | 630834                   | 633332                      | 635832                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3462.51                  | 3499.98                     | 3537.48                   |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 23.06                    | 23.05                       | 23.03                     | 24.0                   |
| Channel         |            |         |           | 630668                   | 633332                      | 636000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3460.02                  | 3499.98                     | 3540                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 23.03                    | 23.00                       | 23.06                     | 24.0                   |
| Channel         |            |         |           | 630500                   | 633332                      | 636166                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3457.5                   | 3499.98                     | 3542.49                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 23.07                    | 22.97                       | 23.05                     | 24.0                   |
| Channel         |            |         |           | 630334                   | 633332                      | 636332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3455.01                  | 3499.98                     | 3544.98                   |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 23.04                    | 23.04                       | 23.03                     | 24.0                   |



&lt;FR1 n78\_Ant 2\_Sensor OFF&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           |                          | 633332                      |                           | 24.0                   |
| Frequency (MHz) |            |         |           |                          | 3499.98                     |                           |                        |
| 100             | PI/2 BPSK  | 1       | 1         |                          | 23.08                       |                           |                        |
| 100             | PI/2 BPSK  | 1       | 137       |                          | 22.81                       |                           | 23.5                   |
| 100             | PI/2 BPSK  | 1       | 271       |                          | 22.85                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 0         |                          | 22.35                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 69        |                          | 22.87                       |                           | 23.5                   |
| 100             | PI/2 BPSK  | 135     | 138       |                          | 22.42                       |                           |                        |
| 100             | PI/2 BPSK  | 270     | 0         |                          | 22.33                       |                           |                        |
| 100             | QPSK       | 1       | 1         |                          | 23.00                       |                           | 24.0                   |
| 100             | QPSK       | 1       | 137       |                          | 22.85                       |                           |                        |
| 100             | QPSK       | 1       | 271       |                          | 22.84                       |                           |                        |
| 100             | QPSK       | 135     | 0         |                          | 21.85                       |                           | 23.0                   |
| 100             | QPSK       | 135     | 69        |                          | 22.88                       |                           | 24.0                   |
| 100             | QPSK       | 135     | 138       |                          | 21.80                       |                           | 23.0                   |
| 100             | QPSK       | 270     | 0         |                          | 21.91                       |                           |                        |
| 100             | 16QAM      | 1       | 1         |                          | 21.87                       |                           |                        |
| 100             | 64QAM      | 1       | 1         |                          | 20.31                       |                           | 21.5                   |
| 100             | 256QAM     | 1       | 1         |                          | 18.32                       |                           | 19.5                   |
| Channel         |            |         |           | 633000                   | 633332                      | 633666                    | 24.0                   |
| Frequency (MHz) |            |         |           | 3495                     | 3499.98                     | 3504.99                   |                        |
| 90              | PI/2 BPSK  | 1       | 1         | 22.96                    | 23.05                       | 22.90                     |                        |
| Channel         |            |         |           | 632668                   | 633332                      | 634000                    | 24.0                   |
| Frequency (MHz) |            |         |           | 3490.02                  | 3499.98                     | 3510                      |                        |
| 80              | PI/2 BPSK  | 1       | 1         | 22.89                    | 23.02                       | 22.97                     |                        |
| Channel         |            |         |           | 632334                   | 633332                      | 634332                    | 24.0                   |
| Frequency (MHz) |            |         |           | 3485.01                  | 3499.98                     | 3514.98                   |                        |
| 70              | PI/2 BPSK  | 1       | 1         | 22.93                    | 23.00                       | 22.97                     |                        |
| Channel         |            |         |           | 632000                   | 633332                      | 634666                    | 24.0                   |
| Frequency (MHz) |            |         |           | 3480                     | 3499.98                     | 3519.99                   |                        |
| 60              | PI/2 BPSK  | 1       | 1         | 22.96                    | 22.94                       | 23.02                     |                        |
| Channel         |            |         |           | 631668                   | 633332                      | 635000                    | 24.0                   |
| Frequency (MHz) |            |         |           | 3475.02                  | 3499.98                     | 3525                      |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 22.87                    | 22.98                       | 23.03                     |                        |
| Channel         |            |         |           | 631334                   | 633332                      | 635332                    | 24.0                   |
| Frequency (MHz) |            |         |           | 3470.01                  | 3499.98                     | 3529.98                   |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 22.89                    | 23.01                       | 23.04                     |                        |
| Channel         |            |         |           | 631000                   | 633332                      | 635666                    | 24.0                   |
| Frequency (MHz) |            |         |           | 3465                     | 3499.98                     | 3534.99                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 22.90                    | 23.06                       | 23.01                     |                        |
| Channel         |            |         |           | 630834                   | 633332                      | 635832                    | 24.0                   |
| Frequency (MHz) |            |         |           | 3462.51                  | 3499.98                     | 3537.48                   |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 23.01                    | 23.03                       | 22.93                     |                        |
| Channel         |            |         |           | 630668                   | 633332                      | 636000                    | 24.0                   |
| Frequency (MHz) |            |         |           | 3460.02                  | 3499.98                     | 3540                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 22.96                    | 22.95                       | 22.90                     |                        |
| Channel         |            |         |           | 630500                   | 633332                      | 636166                    | 24.0                   |
| Frequency (MHz) |            |         |           | 3457.5                   | 3499.98                     | 3542.49                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 22.82                    | 22.96                       | 22.90                     |                        |
| Channel         |            |         |           | 630334                   | 633332                      | 636332                    | 24.0                   |
| Frequency (MHz) |            |         |           | 3455.01                  | 3499.98                     | 3544.98                   |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 22.90                    | 22.88                       | 23.07                     |                        |



&lt;FR1 n78\_Ant 0\_Sensor ON&gt;

| 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                   |                        | 13.5                |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 13.02                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 12.75                    |                        | 13.5                |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 12.89                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 12.92                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 12.78                    |                        | 13.5                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 12.72                    |                        |                     |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 12.73                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 12.72                    |                        | 13.5                |
| 100             | QPSK       | 1       | 137       |                       | 12.84                    |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 12.75                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 12.74                    |                        | 13.5                |
| 100             | QPSK       | 135     | 69        |                       | 12.87                    |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 12.89                    |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 12.90                    |                        | 13.5                |
| 100             | 16QAM      | 1       | 1         |                       | 12.75                    |                        |                     |
| 100             | 64QAM      | 1       | 1         |                       | 12.76                    |                        |                     |
| 100             | 256QAM     | 1       | 1         |                       | 12.83                    |                        | 13.5                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 12.50                 | 12.59                    | 12.62                  |                     |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 12.61                 | 12.66                    | 12.63                  |                     |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 12.59                 | 12.76                    | 12.68                  |                     |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 12.54                 | 12.60                    | 12.58                  |                     |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 12.65                 | 12.76                    | 12.63                  |                     |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 12.69                 | 12.72                    | 12.58                  |                     |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 12.50                 | 12.76                    | 12.57                  |                     |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 12.65                 | 12.69                    | 12.69                  |                     |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 12.58                 | 12.66                    | 12.72                  |                     |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 12.66                 | 12.68                    | 12.64                  |                     |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 12.49                 | 12.74                    | 12.64                  |                     |





&lt;FR1 n78\_Ant 2\_Sensor ON&gt;

| 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                   |                        | 13.5                |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 12.93                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 12.64                    |                        | 13.5                |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 12.63                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 12.76                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 12.72                    |                        | 13.5                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 12.71                    |                        | 13.5                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 12.79                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 12.70                    |                        |                     |
| 100             | QPSK       | 1       | 137       |                       | 12.76                    |                        | 13.5                |
| 100             | QPSK       | 1       | 271       |                       | 12.77                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 12.67                    |                        |                     |
| 100             | QPSK       | 135     | 69        |                       | 12.74                    |                        | 13.5                |
| 100             | QPSK       | 135     | 138       |                       | 12.73                    |                        | 13.5                |
| 100             | QPSK       | 270     | 0         |                       | 12.63                    |                        |                     |
| 100             | 16QAM      | 1       | 1         |                       | 12.72                    |                        |                     |
| 100             | 64QAM      | 1       | 1         |                       | 12.78                    |                        | 13.5                |
| 100             | 256QAM     | 1       | 1         |                       | 12.71                    |                        | 13.5                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 12.51                 | 12.60                    | 12.38                  |                     |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 12.57                 | 12.57                    | 12.44                  |                     |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 12.56                 | 12.48                    | 12.46                  |                     |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 12.53                 | 12.49                    | 12.54                  |                     |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 12.39                 | 12.66                    | 12.45                  |                     |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 12.55                 | 12.55                    | 12.39                  |                     |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 12.42                 | 12.64                    | 12.53                  |                     |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 12.39                 | 12.58                    | 12.35                  |                     |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 12.48                 | 12.64                    | 12.45                  |                     |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 12.43                 | 12.68                    | 12.42                  |                     |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 12.47                 | 12.57                    | 12.37                  |                     |



&lt;FR1 n78\_HPUE\_Ant 0\_Sensor OFF&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           |                          | 633332                      |                           |                        |
| Frequency (MHz) |            |         |           |                          | 3499.98                     |                           |                        |
| 100             | PI/2 BPSK  | 1       | 1         |                          | 26.10                       |                           | 27.0                   |
| 100             | PI/2 BPSK  | 1       | 137       |                          | 25.85                       |                           |                        |
| 100             | PI/2 BPSK  | 1       | 271       |                          | 25.95                       |                           |                        |
| 100             | PI/2 BPSK  | 135     | 0         |                          | 25.52                       |                           | 26.5                   |
| 100             | PI/2 BPSK  | 135     | 69        |                          | 25.83                       |                           | 27.0                   |
| 100             | PI/2 BPSK  | 135     | 138       |                          | 25.44                       |                           | 26.5                   |
| 100             | PI/2 BPSK  | 270     | 0         |                          | 25.41                       |                           |                        |
| 100             | QPSK       | 1       | 1         |                          | 26.07                       |                           | 27.0                   |
| 100             | QPSK       | 1       | 137       |                          | 25.74                       |                           |                        |
| 100             | QPSK       | 1       | 271       |                          | 25.95                       |                           |                        |
| 100             | QPSK       | 135     | 0         |                          | 24.84                       |                           | 26.0                   |
| 100             | QPSK       | 135     | 69        |                          | 25.76                       |                           | 27.0                   |
| 100             | QPSK       | 135     | 138       |                          | 24.91                       |                           | 26.0                   |
| 100             | QPSK       | 270     | 0         |                          | 24.89                       |                           |                        |
| 100             | 16QAM      | 1       | 1         |                          | 24.99                       |                           | 26.0                   |
| 100             | 64QAM      | 1       | 1         |                          | 23.53                       |                           | 24.5                   |
| 100             | 256QAM     | 1       | 1         |                          | 21.45                       |                           | 22.5                   |
| Channel         |            |         |           | 633000                   | 633332                      | 633666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3495                     | 3499.98                     | 3504.99                   |                        |
| 90              | PI/2 BPSK  | 1       | 1         | 25.92                    | 26.01                       | 25.77                     | 27.0                   |
| Channel         |            |         |           | 632668                   | 633332                      | 634000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3490.02                  | 3499.98                     | 3510                      |                        |
| 80              | PI/2 BPSK  | 1       | 1         | 25.77                    | 25.99                       | 25.71                     | 27.0                   |
| Channel         |            |         |           | 632334                   | 633332                      | 634332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3485.01                  | 3499.98                     | 3514.98                   |                        |
| 70              | PI/2 BPSK  | 1       | 1         | 25.80                    | 26.09                       | 25.74                     | 27.0                   |
| Channel         |            |         |           | 632000                   | 633332                      | 634666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3480                     | 3499.98                     | 3519.99                   |                        |
| 60              | PI/2 BPSK  | 1       | 1         | 25.80                    | 25.95                       | 25.70                     | 27.0                   |
| Channel         |            |         |           | 631668                   | 633332                      | 635000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3475.02                  | 3499.98                     | 3525                      |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 25.87                    | 26.09                       | 25.77                     | 27.0                   |
| Channel         |            |         |           | 631334                   | 633332                      | 635332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3470.01                  | 3499.98                     | 3529.98                   |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 25.80                    | 25.96                       | 25.88                     | 27.0                   |
| Channel         |            |         |           | 631000                   | 633332                      | 635666                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3465                     | 3499.98                     | 3534.99                   |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 25.73                    | 26.04                       | 25.74                     | 27.0                   |
| Channel         |            |         |           | 630834                   | 633332                      | 635832                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3462.51                  | 3499.98                     | 3537.48                   |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 25.74                    | 25.92                       | 25.88                     | 27.0                   |
| Channel         |            |         |           | 630668                   | 633332                      | 636000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3460.02                  | 3499.98                     | 3540                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 25.79                    | 26.01                       | 25.79                     | 27.0                   |
| Channel         |            |         |           | 630500                   | 633332                      | 636166                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3457.5                   | 3499.98                     | 3542.49                   |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 25.77                    | 26.06                       | 25.83                     | 27.0                   |
| Channel         |            |         |           | 630334                   | 633332                      | 636332                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 3455.01                  | 3499.98                     | 3544.98                   |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 25.75                    | 25.99                       | 25.83                     | 27.0                   |



&lt;FR1 n78\_HPUE\_Ant 2\_Sensor OFF&gt;

| 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                   |                        | 27.0                |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 25.91                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 25.45                    |                        | 26.5                |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 25.36                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 24.90                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 25.36                    |                        | 26.5                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 24.92                    |                        |                     |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 24.87                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 25.54                    |                        | 27.0                |
| 100             | QPSK       | 1       | 137       |                       | 25.32                    |                        |                     |
| 100             | QPSK       | 1       | 271       |                       | 25.28                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 24.38                    |                        | 26.0                |
| 100             | QPSK       | 135     | 69        |                       | 25.31                    |                        |                     |
| 100             | QPSK       | 135     | 138       |                       | 24.33                    |                        |                     |
| 100             | QPSK       | 270     | 0         |                       | 24.33                    |                        | 26.0                |
| 100             | 16QAM      | 1       | 1         |                       | 24.43                    |                        |                     |
| 100             | 64QAM      | 1       | 1         |                       | 22.94                    |                        |                     |
| 100             | 256QAM     | 1       | 1         |                       | 21.10                    |                        | 22.5                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | 27.0                |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 25.70                 | 25.82                    | 25.61                  |                     |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | 27.0                |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 25.75                 | 25.83                    | 25.58                  |                     |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | 27.0                |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 25.68                 | 25.77                    | 25.52                  |                     |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | 27.0                |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 25.71                 | 25.90                    | 25.69                  |                     |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | 27.0                |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 25.67                 | 25.88                    | 25.53                  |                     |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | 27.0                |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 25.70                 | 25.72                    | 25.72                  |                     |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | 27.0                |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 25.67                 | 25.73                    | 25.63                  |                     |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | 27.0                |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 25.69                 | 25.90                    | 25.61                  |                     |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | 27.0                |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 25.85                 | 25.80                    | 25.70                  |                     |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | 27.0                |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 25.82                 | 25.89                    | 25.70                  |                     |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | 27.0                |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 25.69                 | 25.81                    | 25.70                  |                     |



&lt;FR1 n78\_HPUE\_Ant 0\_Sensor ON&gt;

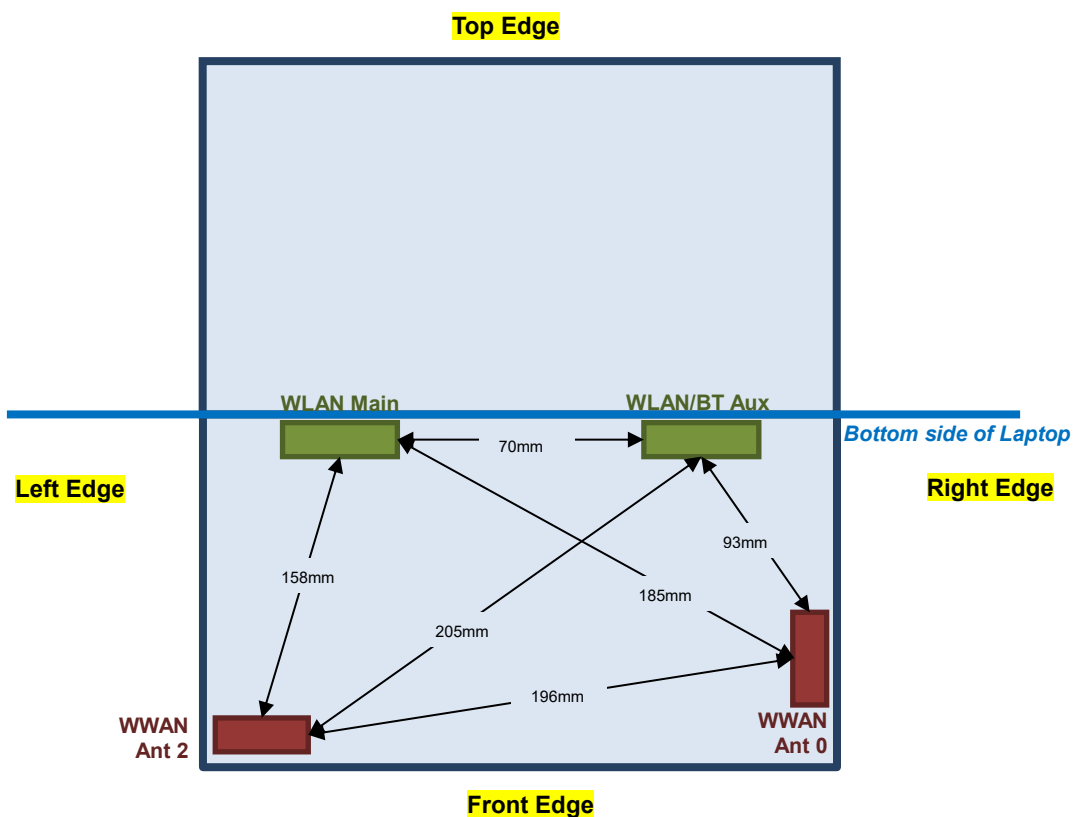
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           |                       | 633332                   |                        |                     |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 16.00                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 15.81                    |                        | 16.5                |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 15.83                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 15.90                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 15.90                    |                        | 16.5                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 15.88                    |                        | 16.5                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 15.72                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 15.88                    |                        |                     |
| 100             | QPSK       | 1       | 137       |                       | 15.72                    |                        | 16.5                |
| 100             | QPSK       | 1       | 271       |                       | 15.82                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 15.76                    |                        |                     |
| 100             | QPSK       | 135     | 69        |                       | 15.72                    |                        | 16.5                |
| 100             | QPSK       | 135     | 138       |                       | 15.84                    |                        | 16.5                |
| 100             | QPSK       | 270     | 0         |                       | 15.84                    |                        |                     |
| 100             | 16QAM      | 1       | 1         |                       | 15.81                    |                        |                     |
| 100             | 64QAM      | 1       | 1         |                       | 15.86                    |                        | 16.5                |
| 100             | 256QAM     | 1       | 1         |                       | 15.81                    |                        | 16.5                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 15.55                 | 15.59                    | 15.72                  |                     |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 15.54                 | 15.55                    | 15.65                  |                     |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 15.53                 | 15.60                    | 15.73                  |                     |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 15.62                 | 15.58                    | 15.68                  |                     |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 15.50                 | 15.75                    | 15.55                  |                     |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 15.69                 | 15.72                    | 15.72                  |                     |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 15.61                 | 15.58                    | 15.56                  |                     |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 15.61                 | 15.68                    | 15.55                  |                     |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 15.63                 | 15.75                    | 15.57                  |                     |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 15.56                 | 15.63                    | 15.56                  |                     |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 15.51                 | 15.58                    | 15.70                  |                     |



&lt;FR1 n78\_HPUE\_Ant 2\_Sensor ON&gt;

| 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                   |                        | 16.5                |
| Frequency (MHz) |            |         |           |                       | 3499.98                  |                        |                     |
| 100             | PI/2 BPSK  | 1       | 1         |                       | 15.87                    |                        |                     |
| 100             | PI/2 BPSK  | 1       | 137       |                       | 15.75                    |                        | 16.5                |
| 100             | PI/2 BPSK  | 1       | 271       |                       | 15.72                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 0         |                       | 15.61                    |                        |                     |
| 100             | PI/2 BPSK  | 135     | 69        |                       | 15.75                    |                        | 16.5                |
| 100             | PI/2 BPSK  | 135     | 138       |                       | 15.69                    |                        | 16.5                |
| 100             | PI/2 BPSK  | 270     | 0         |                       | 15.73                    |                        |                     |
| 100             | QPSK       | 1       | 1         |                       | 15.68                    |                        |                     |
| 100             | QPSK       | 1       | 137       |                       | 15.58                    |                        | 16.5                |
| 100             | QPSK       | 1       | 271       |                       | 15.70                    |                        |                     |
| 100             | QPSK       | 135     | 0         |                       | 15.57                    |                        |                     |
| 100             | QPSK       | 135     | 69        |                       | 15.66                    |                        | 16.5                |
| 100             | QPSK       | 135     | 138       |                       | 15.64                    |                        | 16.5                |
| 100             | QPSK       | 270     | 0         |                       | 15.64                    |                        |                     |
| 100             | 16QAM      | 1       | 1         |                       | 15.67                    |                        |                     |
| 100             | 64QAM      | 1       | 1         |                       | 15.68                    |                        | 16.5                |
| 100             | 256QAM     | 1       | 1         |                       | 15.63                    |                        | 16.5                |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |
| 90              | PI/2 BPSK  | 1       | 1         | 15.54                 | 15.46                    | 15.48                  |                     |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |
| 80              | PI/2 BPSK  | 1       | 1         | 15.52                 | 15.62                    | 15.54                  |                     |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |
| 70              | PI/2 BPSK  | 1       | 1         | 15.52                 | 15.59                    | 15.44                  |                     |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |
| 60              | PI/2 BPSK  | 1       | 1         | 15.42                 | 15.45                    | 15.50                  |                     |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |
| 50              | PI/2 BPSK  | 1       | 1         | 15.52                 | 15.62                    | 15.53                  |                     |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 15.49                 | 15.54                    | 15.56                  |                     |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 15.41                 | 15.61                    | 15.47                  |                     |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 15.53                 | 15.47                    | 15.46                  |                     |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 15.37                 | 15.49                    | 15.52                  |                     |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 15.40                 | 15.57                    | 15.55                  |                     |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 15.42                 | 15.53                    | 15.38                  |                     |

## 14. Antenna Location



The separation distance for antenna to edge :

| Antenna        | To Bottom Side (mm) |
|----------------|---------------------|
| WWAN Antenna 0 | 5                   |
| WWAN Antenna 2 | 5                   |



## &lt;SAR test exclusion table&gt;

## 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:  
$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$
  - 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

## &lt;Antenna 0&gt;

|                   |                            | Wireless Interface | WCDMA Band V | WCDMA Band IV | WCDMA Band II | LTE Band 71 | LTE Band 12 | LTE Band 13 | LTE Band 14 | LTE Band 17 | LTE Band 5 | LTE Band 26 | FR1 Band n71 | FR1 Band n26 | FR1 Band n5 | FR1 Band n12 | FR1 Band n13 | FR1 Band n14 | LTE Band 70 | LTE Band 4 | LTE Band 66 | LTE Band 2 | LTE Band 25 | FR1 Band n2 | FR1 Band n25 | FR1 Band n66 | FR1 Band n12 | LTE Band 30 | FR1 Band n30 | LTE Band 7 | LTE Band 38 | FR1 Band n7 | FR1 Band n38 | LTE Band 41 HPUE | FR1 Band n41 HPUE | LTE Band 42 | LTE Band 43 | LTE Band 48 | FR1 Band n48 | FR1 Band n77 HPUE | FR1 Band n78 HPUE |
|-------------------|----------------------------|--------------------|--------------|---------------|---------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|--------------|--------------|-------------|--------------|--------------|--------------|-------------|------------|-------------|------------|-------------|-------------|--------------|--------------|--------------|-------------|--------------|------------|-------------|-------------|--------------|------------------|-------------------|-------------|-------------|-------------|--------------|-------------------|-------------------|
| Exposure Position | Calculated Frequency (MHz) | 846                | 1750         | 1907          | 695           | 715         | 784         | 795         | 713         | 848         | 848        | 695         | 846          | 846          | 713         | 784          | 795          | 1707.5       | 1754        | 1779       | 1909        | 1914       | 1907        | 1912        | 1777         | 1707         | 2312         | 2312        | 2567         | 2617       | 2567        | 2617        | 2687         | 2685             | 3597              | 3697        | 3697        | 3697        | 3975         | 3795              |                   |
|                   | Maximum power (dBm)        | 24.5               | 24.5         | 24.5          | 24.5          | 24.5        | 24.5        | 24.5        | 24.5        | 24.5        | 24.5       | 24.5        | 24.5         | 24.5         | 24.5        | 24.5         | 24.5         | 24.0         | 24.0        | 24.0       | 24.0        | 24.0       | 24.0        | 24.0        | 24.0         | 23.0         | 23.0         | 24.0        | 24.0         | 24.0       | 24.0        | 27.0        | 27.0         | 24.0             | 24.0              | 22.0        | 22.0        | 27.0        | 27.0         |                   |                   |
|                   | Maximum rated power(mW)    | 281.84             | 281.84       | 281.84        | 281.84        | 281.84      | 281.84      | 281.84      | 281.84      | 281.84      | 281.84     | 281.84      | 281.84       | 281.84       | 281.84      | 281.84       | 281.84       | 281.84       | 251.19      | 251.19     | 251.19      | 251.19     | 251.19      | 251.19      | 251.19       | 251.19       | 199.53       | 199.53      | 251.19       | 251.19     | 251.19      | 251.19      | 501.19       | 501.19           | 251.19            | 251.19      | 158.49      | 158.49      | 501.19       | 501.19            |                   |
| Bottom Side       | Separation distance(mm)    | 5.0                |              |               |               |             |             |             |             |             |            |             |              |              |             |              |              |              |             |            |             |            |             |             |              |              |              |             |              |            |             |             |              |                  |                   |             |             |             |              |                   |                   |
|                   | exclusion threshold        | 51.9               | 74.6         | 77.8          | 47.0          | 47.7        | 49.9        | 50.3        | 47.6        | 51.9        | 51.9       | 47.0        | 51.9         | 51.9         | 47.6        | 49.9         | 50.3         | 65.7         | 66.5        | 67.0       | 69.4        | 69.5       | 69.4        | 69.5        | 67.0         | 65.6         | 60.7         | 60.7        | 80.5         | 81.3       | 80.5        | 81.3        | 164.3        | 164.3            | 95.3              | 96.6        | 61.0        | 61.0        | 199.9        | 195.3             |                   |
|                   | Testing required?          | Yes                | Yes          | Yes           | Yes           | Yes         | Yes         | Yes         | Yes         | Yes         | Yes        | Yes         | Yes          | Yes          | Yes         | Yes          | Yes          | Yes          | Yes         | Yes        | Yes         | Yes        | Yes         | Yes         | Yes          | Yes          | Yes          | Yes         | Yes          | Yes        | Yes         | Yes         | Yes          | Yes              | Yes               | Yes         | Yes         | Yes         | Yes          | Yes               | Yes               |

## &lt;Antenna 2&gt;

| Exposure Position | Wireless Interface         | LTE Band 70 | LTE Band 4 | LTE Band 66 | LTE Band 2 | LTE Band 25 | FR1 Band n2 | FR1 Band n25 | FR1 Band n66 | FR1 Band n70 | LTE Band 30 | FR1 Band n30 | LTE Band 7 | LTE Band 38 | FR1 Band n7 | FR1 Band n38 | LTE Band 41 HPUE | FR1 Band n41 HPUE | LTE Band 42 | LTE Band 43 | LTE Band 48 | FR1 Band n48 | FR1 Band n77 HPUE | FR1 Band n78 HPUE |
|-------------------|----------------------------|-------------|------------|-------------|------------|-------------|-------------|--------------|--------------|--------------|-------------|--------------|------------|-------------|-------------|--------------|------------------|-------------------|-------------|-------------|-------------|--------------|-------------------|-------------------|
|                   | Calculated Frequency (MHz) | 1707.5      | 1754       | 1779        | 1909       | 1914        | 1907        | 1912         | 1777         | 1707         | 2312        | 2312         | 2567       | 2617        | 2567        | 2617         | 2687             | 2685              | 3597        | 3697        | 3697        | 3697         | 3975              | 3795              |
|                   | Maximum power (dBm)        | 24.0        | 24.0       | 24.0        | 24.0       | 24.0        | 24.0        | 24.0         | 24.0         | 24.0         | 23.0        | 23.0         | 24.0       | 24.0        | 24.0        | 24.0         | 27.0             | 27.0              | 24.0        | 24.0        | 22.0        | 22.0         | 27.0              | 27.0              |
|                   | Maximum rated power(mW)    | 251.19      | 251.19     | 251.19      | 251.19     | 251.19      | 251.19      | 251.19       | 251.19       | 251.19       | 251.19      | 199.53       | 199.53     | 251.19      | 251.19      | 251.19       | 251.19           | 501.19            | 501.19      | 251.19      | 251.19      | 158.49       | 158.49            | 501.19            |
| Bottom Side       | Separation distance(mm)    | 5.0         |            |             |            |             |             |              |              |              |             |              |            |             |             |              |                  |                   |             |             |             |              |                   |                   |
|                   | exclusion threshold        | 65.7        | 66.5       | 67.0        | 69.4       | 69.5        | 69.4        | 69.5         | 67.0         | 65.6         | 60.7        | 60.7         | 80.5       | 81.3        | 80.5        | 81.3         | 164.3            | 164.3             | 95.3        | 96.6        | 61.0        | 61.0         | 199.9             | 195.3             |
|                   | Testing required?          | Yes         | Yes        | Yes         | Yes        | Yes         | Yes         | Yes          | Yes          | Yes          | Yes         | Yes          | Yes        | Yes         | Yes         | Yes          | Yes              | Yes               | Yes         | Yes         | Yes         | Yes          | Yes               | Yes               |

## 15. 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:
  - $\leq 0.8$  W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\leq 100$  MHz
  - $\leq 0.6$  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
  - $\leq 0.4$  W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\geq 200$  MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8$ 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 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 to RMC12.2Kbps and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for HSDPA / HSUPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA) are less than  $1/4$  dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA.



**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  $\leq 0.8$  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  $\frac{1}{2}$  dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is  $\leq 1.45$  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  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  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  $\leq 0.8$  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  $\leq 1.45$  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. 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

## 15.1 Body SAR

### <WCDMA SAR>

| Plot No. | Band           | Mode         | Test Position | Gap (mm) | Power Reduction | Ch.  | Freq. (MHz) | Antenna Vendor | 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 0 | RMC 12.2Kbps | Bottom Side   | 32mm     | Sensor OFF      | 9538 | 1907.6      | Speed          | 24.21               | 24.50               | 1.069                  | -0.05            | 0.182                  | 0.195                  |
| 01       | WCDMA II_Ant 0 | RMC 12.2Kbps | Bottom Side   | 0mm      | Sensor ON       | 9400 | 1880        | Speed          | 12.05               | 12.50               | 1.109                  | 0.01             | 0.549                  | 0.609                  |
|          | WCDMA II_Ant 0 | RMC 12.2Kbps | Bottom Side   | 0mm      | Sensor ON       | 9400 | 1880        | WNC            | 12.05               | 12.50               | 1.109                  | 0.13             | 0.454                  | 0.503                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Bottom Side   | 32mm     | Sensor OFF      | 1312 | 1712.4      | Speed          | 24.11               | 24.50               | 1.094                  | -0.17            | 0.224                  | 0.245                  |
| 02       | WCDMA IV_Ant 0 | RMC 12.2Kbps | Bottom Side   | 0mm      | Sensor ON       | 1413 | 1732.6      | Speed          | 11.99               | 12.50               | 1.125                  | 0.01             | 0.553                  | 0.622                  |
|          | WCDMA IV_Ant 0 | RMC 12.2Kbps | Bottom Side   | 0mm      | Sensor ON       | 1413 | 1732.6      | WNC            | 11.99               | 12.50               | 1.125                  | 0.18             | 0.522                  | 0.587                  |
|          | WCDMA V_Ant 0  | RMC 12.2Kbps | Bottom Side   | 32mm     | Sensor OFF      | 4233 | 846.6       | Speed          | 23.91               | 24.50               | 1.146                  | -0.05            | 0.089                  | 0.102                  |
| 03       | WCDMA V_Ant 0  | RMC 12.2Kbps | Bottom Side   | 0mm      | Sensor ON       | 4182 | 836.4       | Speed          | 18.37               | 19.00               | 1.156                  | 0.03             | 0.376                  | 0.435                  |
|          | WCDMA V_Ant 0  | RMC 12.2Kbps | Bottom Side   | 0mm      | Sensor ON       | 4182 | 836.4       | WNC            | 18.37               | 19.00               | 1.156                  | 0.19             | 0.366                  | 0.423                  |

### <LTE SAR>

| Plot No. | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.         | Freq. (MHz) | Antenna Vendor | 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 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 32mm     | Sensor OFF      | 20850       | 2510        | Speed          | 22.66               | 24.00               | 1.361                  | 0.14             | 0.192                  | 0.261                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 32mm     | Sensor OFF      | 20850       | 2510        | Speed          | 21.72               | 23.00               | 1.343                  | 0.1              | 0.132                  | 0.177                  |
| 04       | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 20850       | 2510        | Speed          | 13.43               | 14.50               | 1.279                  | 0.01             | 0.452                  | 0.578                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | Sensor ON       | 20850       | 2510        | Speed          | 13.16               | 14.50               | 1.361                  | 0.05             | 0.411                  | 0.560                  |
|          | LTE Band 7C_Ant 0 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 20850-21048 | 2510        | Speed          | 13.35               | 14.50               | 1.303                  | 0.08             | 0.416                  | 0.542                  |
|          | LTE Band 7_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 20850       | 2510        | WNC            | 13.43               | 14.50               | 1.279                  | 0.16             | 0.422                  | 0.540                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 11mm     | Sensor OFF      | 20850       | 2510        | Speed          | 23.50               | 24.00               | 1.122                  | -0.17            | 0.372                  | 0.417                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 11mm     | Sensor OFF      | 20850       | 2510        | Speed          | 22.35               | 23.00               | 1.161                  | 0                | 0.252                  | 0.293                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 20850       | 2510        | Speed          | 12.01               | 12.50               | 1.119                  | -0.01            | 0.157                  | 0.176                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | Sensor ON       | 20850       | 2510        | Speed          | 11.78               | 12.50               | 1.180                  | 0.15             | 0.142                  | 0.168                  |
|          | LTE Band 7_Ant 2  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 11mm     | Sensor OFF      | 20850       | 2510        | WNC            | 23.50               | 24.00               | 1.122                  | 0.05             | 0.355                  | 0.398                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 1       | 0         | Bottom Side   | 32mm     | Sensor OFF      | 23095       | 707.5       | Speed          | 23.14               | 24.50               | 1.368                  | -0.14            | 0.042                  | 0.057                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 25      | 0         | Bottom Side   | 32mm     | Sensor OFF      | 23095       | 707.5       | Speed          | 22.09               | 23.50               | 1.384                  | 0.18             | 0.021                  | 0.029                  |
| 05       | LTE Band 12_Ant 0 | 10M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 23095       | 707.5       | Speed          | 18.25               | 19.00               | 1.189                  | -0.01            | 0.469                  | 0.557                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 25      | 0         | Bottom Side   | 0mm      | Sensor ON       | 23095       | 707.5       | Speed          | 18.15               | 19.00               | 1.216                  | 0.05             | 0.452                  | 0.550                  |
|          | LTE Band 12_Ant 0 | 10M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 23095       | 707.5       | WNC            | 18.25               | 19.00               | 1.189                  | 0                | 0.462                  | 0.549                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 1       | 0         | Bottom Side   | 32mm     | Sensor OFF      | 23230       | 782         | Speed          | 22.98               | 24.50               | 1.419                  | -0.14            | 0.001                  | 0.001                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 25      | 0         | Bottom Side   | 32mm     | Sensor OFF      | 23230       | 782         | Speed          | 21.88               | 23.50               | 1.452                  | 0.03             | 0.001                  | 0.001                  |
| 06       | LTE Band 13_Ant 0 | 10M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 23230       | 782         | Speed          | 18.52               | 19.50               | 1.253                  | 0                | 0.437                  | 0.548                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 25      | 0         | Bottom Side   | 0mm      | Sensor ON       | 23230       | 782         | Speed          | 18.45               | 19.50               | 1.274                  | 0.04             | 0.416                  | 0.530                  |
|          | LTE Band 13_Ant 0 | 10M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 23230       | 782         | WNC            | 18.52               | 19.50               | 1.253                  | 0.08             | 0.431                  | 0.540                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 1       | 0         | Bottom Side   | 32mm     | Sensor OFF      | 23330       | 793         | Speed          | 23.01               | 24.50               | 1.409                  | -0.07            | 0.001                  | 0.001                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 25      | 0         | Bottom Side   | 32mm     | Sensor OFF      | 23330       | 793         | Speed          | 22.18               | 23.50               | 1.355                  | -0.16            | 0.001                  | 0.001                  |
| 07       | LTE Band 14_Ant 0 | 10M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 23330       | 793         | Speed          | 21.01               | 21.50               | 1.119                  | -0.02            | 0.704                  | 0.788                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 25      | 0         | Bottom Side   | 0mm      | Sensor ON       | 23330       | 793         | Speed          | 20.86               | 21.50               | 1.159                  | -0.15            | 0.657                  | 0.761                  |
|          | LTE Band 14_Ant 0 | 10M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 23330       | 793         | WNC            | 21.01               | 21.50               | 1.119                  | 0.05             | 0.595                  | 0.666                  |



# FCC SAR TEST REPORT

Report No. : FA480211-02

| Plot No. | Band                   | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.         | Freq. (MHz) | Antenna Vendor | 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) |
|----------|------------------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------------|-------------|----------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| 08       | LTE Band 25_Ant 0      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 32mm     | Sensor OFF      | 26590       | 1905        | Speed          | 22.97               | 24.00               | 1.268                  |              |                           | -0.14            | 0.112                  | 0.142                  |
|          | LTE Band 25_Ant 0      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 32mm     | Sensor OFF      | 26590       | 1905        | Speed          | 22.15               | 23.00               | 1.216                  |              |                           | 0.11             | 0.083                  | 0.101                  |
|          | LTE Band 25_Ant 0      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 26340       | 1880        | Speed          | 12.23               | 13.00               | 1.194                  |              |                           | 0.02             | 0.584                  | 0.697                  |
|          | LTE Band 25_Ant 0      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | Sensor ON       | 26340       | 1880        | Speed          | 12.12               | 13.00               | 1.225                  |              |                           | -0.09            | 0.562                  | 0.688                  |
|          | LTE Band 2C_Ant 0      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 18700-18898 | 1860        | Speed          | 12.22               | 13.00               | 1.197                  |              |                           | 0.06             | 0.544                  | 0.651                  |
|          | LTE Band 25_Ant 0      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 26340       | 1880        | WNC            | 12.23               | 13.00               | 1.194                  |              |                           | 0.03             | 0.531                  | 0.634                  |
|          | LTE Band 25_Ant 2      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 11mm     | Sensor OFF      | 26590       | 1905        | Speed          | 22.70               | 24.00               | 1.349                  |              |                           | -0.19            | 0.316                  | 0.426                  |
|          | LTE Band 25_Ant 2      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 11mm     | Sensor OFF      | 26590       | 1905        | Speed          | 22.62               | 23.00               | 1.091                  |              |                           | -0.01            | 0.292                  | 0.319                  |
|          | LTE Band 25_Ant 2      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 26590       | 1905        | Speed          | 12.62               | 13.00               | 1.091                  |              |                           | 0.01             | 0.215                  | 0.235                  |
|          | LTE Band 25_Ant 2      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | Sensor ON       | 26590       | 1905        | Speed          | 12.51               | 13.00               | 1.119                  |              |                           | 0.08             | 0.206                  | 0.231                  |
|          | LTE Band 25_Ant 2      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 11mm     | Sensor OFF      | 26590       | 1905        | WNC            | 22.70               | 24.00               | 1.349                  |              |                           | -0.02            | 0.274                  | 0.370                  |
|          | LTE Band 26_Ant 0      | 15M      | QPSK       | 1       | 0         | Bottom Side   | 32mm     | Sensor OFF      | 26865       | 831.5       | Speed          | 22.86               | 24.50               | 1.459                  |              |                           | -0.18            | 0.088                  | 0.128                  |
|          | LTE Band 26_Ant 0      | 15M      | QPSK       | 36      | 0         | Bottom Side   | 32mm     | Sensor OFF      | 26865       | 831.5       | Speed          | 22.03               | 23.50               | 1.403                  |              |                           | -0.11            | 0.064                  | 0.090                  |
|          | LTE Band 26_Ant 0      | 15M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 26865       | 831.5       | Speed          | 19.05               | 20.00               | 1.245                  |              |                           | -0.01            | 0.598                  | 0.744                  |
|          | LTE Band 26_Ant 0      | 15M      | QPSK       | 36      | 0         | Bottom Side   | 0mm      | Sensor ON       | 26865       | 831.5       | Speed          | 18.86               | 20.00               | 1.300                  |              |                           | 0.12             | 0.564                  | 0.733                  |
|          | LTE Band 5B_Ant 0      | 10M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 20450-20549 | 829         | Speed          | 18.72               | 19.50               | 1.197                  |              |                           | 0.08             | 0.472                  | 0.565                  |
|          | LTE Band 26_Ant 0      | 15M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 26865       | 831.5       | WNC            | 19.05               | 20.00               | 1.245                  |              |                           | -0.14            | 0.399                  | 0.497                  |
|          | LTE Band 30_Ant 0      | 10M      | QPSK       | 1       | 0         | Bottom Side   | 32mm     | Sensor OFF      | 27710       | 2310        | Speed          | 21.56               | 23.00               | 1.393                  |              |                           | -0.18            | 0.135                  | 0.188                  |
|          | LTE Band 30_Ant 0      | 10M      | QPSK       | 25      | 0         | Bottom Side   | 32mm     | Sensor OFF      | 27710       | 2310        | Speed          | 20.54               | 22.00               | 1.400                  |              |                           | -0.17            | 0.085                  | 0.119                  |
|          | LTE Band 30_Ant 0      | 10M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 27710       | 2310        | Speed          | 12.59               | 13.50               | 1.233                  |              |                           | 0.02             | 0.409                  | 0.504                  |
|          | LTE Band 30_Ant 0      | 10M      | QPSK       | 25      | 0         | Bottom Side   | 0mm      | Sensor ON       | 27710       | 2310        | Speed          | 12.41               | 13.50               | 1.285                  |              |                           | 0.13             | 0.372                  | 0.478                  |
|          | LTE Band 30_Ant 0      | 10M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 27710       | 2310        | WNC            | 12.59               | 13.50               | 1.233                  |              |                           | -0.08            | 0.328                  | 0.404                  |
|          | LTE Band 30_Ant 2      | 10M      | QPSK       | 1       | 0         | Bottom Side   | 11mm     | Sensor OFF      | 27710       | 2310        | Speed          | 22.42               | 23.00               | 1.143                  |              |                           | -0.19            | 0.322                  | 0.368                  |
|          | LTE Band 30_Ant 2      | 10M      | QPSK       | 25      | 0         | Bottom Side   | 11mm     | Sensor OFF      | 27710       | 2310        | Speed          | 21.52               | 22.00               | 1.117                  |              |                           | -0.19            | 0.243                  | 0.271                  |
|          | LTE Band 30_Ant 2      | 10M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 27710       | 2310        | Speed          | 12.51               | 13.00               | 1.119                  |              |                           | -0.18            | 0.158                  | 0.177                  |
|          | LTE Band 30_Ant 2      | 10M      | QPSK       | 25      | 0         | Bottom Side   | 0mm      | Sensor ON       | 27710       | 2310        | Speed          | 12.28               | 13.00               | 1.180                  |              |                           | 0.12             | 0.144                  | 0.170                  |
|          | LTE Band 30_Ant 2      | 10M      | QPSK       | 1       | 0         | Bottom Side   | 11mm     | Sensor OFF      | 27710       | 2310        | WNC            | 22.42               | 23.00               | 1.143                  |              |                           | -0.07            | 0.288                  | 0.329                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 32mm     | Sensor OFF      | 40185       | 2549.5      | Speed          | 23.06               | 24.00               | 1.242                  | 62.9         | 1.006                     | -0.15            | 0.112                  | 0.140                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 32mm     | Sensor OFF      | 40185       | 2549.5      | Speed          | 22.10               | 23.00               | 1.230                  | 62.9         | 1.006                     | -0.05            | 0.071                  | 0.088                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 40185       | 2549.5      | Speed          | 14.17               | 15.00               | 1.211                  | 62.9         | 1.006                     | -0.01            | 0.317                  | 0.386                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | Sensor ON       | 40185       | 2549.5      | Speed          | 14.08               | 15.00               | 1.236                  | 62.9         | 1.006                     | 0                | 0.288                  | 0.358                  |
|          | LTE Band 41C_Ant 0     | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 40185-39987 | 2549.5      | Speed          | 14.13               | 15.00               | 1.222                  | 62.9         | 1.006                     | 0.08             | 0.244                  | 0.300                  |
|          | LTE Band 41_HPUE_Ant 0 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 40185       | 2549.5      | Speed          | 14.15               | 15.00               | 1.216                  | 42.9         | 1.009                     | -0.01            | 0.221                  | 0.271                  |
|          | LTE Band 41_Ant 0      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 40185       | 2549.5      | WNC            | 14.17               | 15.00               | 1.211                  | 62.9         | 1.006                     | -0.14            | 0.306                  | 0.373                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 11mm     | Sensor OFF      | 40185       | 2549.5      | Speed          | 23.44               | 24.00               | 1.138                  | 62.9         | 1.006                     | -0.08            | 0.252                  | 0.288                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 11mm     | Sensor OFF      | 40185       | 2549.5      | Speed          | 22.48               | 23.00               | 1.127                  | 62.9         | 1.006                     | 0.02             | 0.201                  | 0.228                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 40185       | 2549.5      | Speed          | 14.82               | 15.00               | 1.042                  | 62.9         | 1.006                     | -0.01            | 0.175                  | 0.184                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | Sensor ON       | 40185       | 2549.5      | Speed          | 14.63               | 15.00               | 1.089                  | 62.9         | 1.006                     | 0.12             | 0.166                  | 0.182                  |
|          | LTE Band 41_HPUE_Ant 2 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 11mm     | Sensor OFF      | 40185       | 2549.5      | Speed          | 25.27               | 27.00               | 1.489                  | 42.9         | 1.009                     | 0                | 0.250                  | 0.376                  |
|          | LTE Band 41_Ant 2      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 11mm     | Sensor OFF      | 40185       | 2549.5      | WNC            | 23.44               | 24.00               | 1.138                  | 62.9         | 1.006                     | -0.09            | 0.241                  | 0.276                  |
|          | LTE Band 42_Ant 0      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 32mm     | Sensor OFF      | 42590       | 3500        | Speed          | 22.41               | 24.00               | 1.442                  | 62.9         | 1.006                     | 0.19             | 0.188                  | 0.273                  |
|          | LTE Band 42_Ant 0      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 32mm     | Sensor OFF      | 42590       | 3500        | Speed          | 21.52               | 23.00               | 1.406                  | 62.9         | 1.006                     | -0.09            | 0.122                  | 0.173                  |
|          | LTE Band 42_Ant 0      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 42190       | 3460        | Speed          | 12.12               | 13.50               | 1.374                  | 62.9         | 1.006                     | -0.01            | 0.247                  | 0.341                  |
|          | LTE Band 42_Ant 0      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | Sensor ON       | 42190       | 3460        | Speed          | 11.98               | 13.50               | 1.419                  | 62.9         | 1.006                     | 0.05             | 0.223                  | 0.318                  |
|          | LTE Band 42C_Ant 0     | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 42190-42338 | 3460        | Speed          | 12.16               | 13.50               | 1.361                  | 62.9         | 1.006                     | 0.01             | 0.232                  | 0.318                  |
|          | LTE Band 42_Ant 0      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 42190       | 3460        | WNC            | 12.12               | 13.50               | 1.374                  | 62.9         | 1.006                     | -0.11            | 0.193                  | 0.267                  |
|          | LTE Band 42_Ant 2      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 11mm     | Sensor OFF      | 42590       | 3500        | Speed          | 23.62               | 24.00               | 1.091                  | 62.9         | 1.006                     | -0.01            | 0.290                  | 0.318                  |
|          | LTE Band 42_Ant 2      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 11mm     | Sensor OFF      | 42590       | 3500        | Speed          | 22.80               | 23.00               | 1.047                  | 62.9         | 1.006                     | -0.07            | 0.224                  | 0.236                  |
|          | LTE Band 42_Ant 2      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 42590       | 3500        | Speed          | 11.10               | 12.00               | 1.230                  | 62.9         | 1.006                     | 0.03             | 0.068                  | 0.084                  |
|          | LTE Band 42_Ant 2      | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | Sensor ON       | 42590       | 3500        | Speed          | 10.80               | 12.00               | 1.318                  | 62.9         | 1.006                     | -0.08            | 0.052                  | 0.069                  |
|          | LTE Band 42_Ant 2      | 20M      | QPSK       | 1       | 0         | Bottom Side   | 11mm     | Sensor OFF      | 42590       | 3500        | WNC            | 23.62               | 24.00               | 1.091                  | 62.9         | 1.006                     | -0.1             | 0.263                  | 0.289                  |



# FCC SAR TEST REPORT

Report No. : FA480211-02

| Plot No. | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.           | Freq. (MHz) | Antenna Vendor | 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) |
|----------|--------------------|----------|------------|---------|-----------|---------------|----------|-----------------|---------------|-------------|----------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| 13       | LTE Band 43_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 32mm     | Sensor OFF      | 44690         | 3710        | Speed          | 22.32               | 24.00               | 1.472                  | 62.9         | 1.006                     | 0                | 0.402                  | 0.595                  |
|          | LTE Band 43_Ant 0  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 32mm     | Sensor OFF      | 44690         | 3710        | Speed          | 21.29               | 23.00               | 1.483                  | 62.9         | 1.006                     | -0.02            | 0.322                  | 0.480                  |
|          | LTE Band 43_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 44690         | 3710        | Speed          | 11.67               | 13.00               | 1.358                  | 62.9         | 1.006                     | -0.04            | 0.297                  | 0.406                  |
|          | LTE Band 43_Ant 0  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | Sensor ON       | 44690         | 3710        | Speed          | 11.46               | 13.00               | 1.426                  | 62.9         | 1.006                     | -0.04            | 0.272                  | 0.390                  |
|          | LTE Band 43C_Ant 0 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 32mm     | Sensor OFF      | 45490-45292   | 3790        | Speed          | 22.21               | 24.00               | 1.510                  | 62.9         | 1.006                     | 0.03             | 0.325                  | 0.494                  |
|          | LTE Band 43_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 32mm     | Sensor OFF      | 44690         | 3710        | WNC            | 22.32               | 24.00               | 1.472                  | 62.9         | 1.006                     | 0.02             | 0.362                  | 0.536                  |
|          | LTE Band 43_Ant 2  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 11mm     | Sensor OFF      | 44690         | 3710        | Speed          | 22.85               | 24.00               | 1.303                  | 62.9         | 1.006                     | 0.05             | 0.258                  | 0.338                  |
|          | LTE Band 43_Ant 2  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 11mm     | Sensor OFF      | 44690         | 3710        | Speed          | 21.99               | 23.00               | 1.262                  | 62.9         | 1.006                     | -0.14            | 0.216                  | 0.274                  |
|          | LTE Band 43_Ant 2  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 44690         | 3710        | Speed          | 12.02               | 13.00               | 1.253                  | 62.9         | 1.006                     | 0.04             | 0.091                  | 0.115                  |
|          | LTE Band 43_Ant 2  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | Sensor ON       | 44690         | 3710        | Speed          | 11.92               | 13.00               | 1.282                  | 62.9         | 1.006                     | -0.04            | 0.080                  | 0.103                  |
|          | LTE Band 43_Ant 2  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 11mm     | Sensor OFF      | 44690         | 3710        | WNC            | 22.85               | 24.00               | 1.303                  | 62.9         | 1.006                     | -0.02            | 0.224                  | 0.294                  |
|          | LTE Band 48_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 32mm     | Sensor OFF      | 56640         | 3690        | Speed          | 21.53               | 22.00               | 1.114                  | 62.9         | 1.006                     | 0.05             | 0.232                  | 0.260                  |
|          | LTE Band 48_Ant 0  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 32mm     | Sensor OFF      | 56640         | 3690        | Speed          | 20.67               | 21.00               | 1.079                  | 62.9         | 1.006                     | 0.17             | 0.185                  | 0.201                  |
| 14       | LTE Band 48_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 56640         | 3690        | Speed          | 12.35               | 13.50               | 1.303                  | 62.9         | 1.006                     | -0.04            | 0.340                  | 0.446                  |
|          | LTE Band 48_Ant 0  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | Sensor ON       | 56640         | 3690        | Speed          | 12.15               | 13.50               | 1.365                  | 62.9         | 1.006                     | -0.1             | 0.312                  | 0.428                  |
|          | LTE Band 48C_Ant 0 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 56640-56442   | 3690        | Speed          | 12.21               | 13.50               | 1.346                  | 62.9         | 1.006                     | 0.07             | 0.301                  | 0.408                  |
|          | LTE Band 48_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 56640         | 3690        | WNC            | 12.35               | 13.50               | 1.303                  | 62.9         | 1.006                     | 0.04             | 0.332                  | 0.435                  |
|          | LTE Band 48_Ant 2  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 11mm     | Sensor OFF      | 55830         | 3609        | Speed          | 21.29               | 22.00               | 1.178                  | 62.9         | 1.006                     | 0.1              | 0.155                  | 0.184                  |
|          | LTE Band 48_Ant 2  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 11mm     | Sensor OFF      | 55830         | 3609        | Speed          | 20.52               | 21.00               | 1.117                  | 62.9         | 1.006                     | -0.12            | 0.101                  | 0.113                  |
|          | LTE Band 48_Ant 2  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 56150         | 3641        | Speed          | 11.44               | 11.50               | 1.014                  | 62.9         | 1.006                     | -0.18            | 0.101                  | 0.103                  |
|          | LTE Band 48_Ant 2  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | Sensor ON       | 56150         | 3641        | Speed          | 11.20               | 11.50               | 1.072                  | 62.9         | 1.006                     | -0.13            | 0.089                  | 0.096                  |
|          | LTE Band 48_Ant 2  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 11mm     | Sensor OFF      | 55830         | 3609        | WNC            | 21.29               | 22.00               | 1.178                  | 62.9         | 1.006                     | 0.09             | 0.121                  | 0.143                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 32mm     | Sensor OFF      | 132322        | 1745        | Speed          | 22.88               | 24.00               | 1.294                  |              |                           | -0.02            | 0.192                  | 0.248                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 32mm     | Sensor OFF      | 132322        | 1745        | Speed          | 22.10               | 23.00               | 1.230                  |              |                           | 0.15             | 0.132                  | 0.162                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 132322        | 1745        | Speed          | 12.13               | 13.00               | 1.222                  |              |                           | 0.01             | 0.512                  | 0.626                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | Sensor ON       | 132322        | 1745        | Speed          | 12.00               | 13.00               | 1.259                  |              |                           | -0.04            | 0.492                  | 0.619                  |
|          | LTE Band 66B_Ant 0 | 15M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 132047-132140 | 1717.5      | Speed          | 11.88               | 13.00               | 1.294                  |              |                           | 0.07             | 0.452                  | 0.585                  |
|          | LTE Band 66C_Ant 0 | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 132072-132270 | 1720        | Speed          | 12.11               | 13.00               | 1.227                  |              |                           | 0.09             | 0.466                  | 0.572                  |
|          | LTE Band 66_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 132322        | 1745        | WNC            | 12.13               | 13.00               | 1.222                  |              |                           | -0.18            | 0.488                  | 0.596                  |
| 15       | LTE Band 66_Ant 2  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 11mm     | Sensor OFF      | 132572        | 1770        | Speed          | 23.80               | 24.00               | 1.047                  |              |                           | 0                | 0.613                  | 0.642                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 11mm     | Sensor OFF      | 132572        | 1770        | Speed          | 22.84               | 23.00               | 1.038                  |              |                           | -0.02            | 0.492                  | 0.510                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 132322        | 1745        | Speed          | 14.63               | 15.00               | 1.089                  |              |                           | 0.08             | 0.272                  | 0.296                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | Sensor ON       | 132322        | 1745        | Speed          | 14.54               | 15.00               | 1.112                  |              |                           | -0.06            | 0.255                  | 0.283                  |
|          | LTE Band 66_Ant 2  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 11mm     | Sensor OFF      | 132572        | 1770        | WNC            | 23.80               | 24.00               | 1.047                  |              |                           | -0.09            | 0.488                  | 0.511                  |
|          | LTE Band 70_Ant 0  | 15M      | QPSK       | 1       | 0         | Bottom Side   | 32mm     | Sensor OFF      | 133047        | 1702.5      | Speed          | 23.61               | 24.00               | 1.094                  |              |                           | 0.07             | 0.188                  | 0.206                  |
|          | LTE Band 70_Ant 0  | 15M      | QPSK       | 36      | 0         | Bottom Side   | 32mm     | Sensor OFF      | 133047        | 1702.5      | Speed          | 22.73               | 23.00               | 1.064                  |              |                           | 0.05             | 0.152                  | 0.162                  |
| 16       | LTE Band 70_Ant 0  | 15M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 133047        | 1702.5      | Speed          | 12.13               | 13.00               | 1.222                  |              |                           | -0.01            | 0.567                  | 0.693                  |
|          | LTE Band 70_Ant 0  | 15M      | QPSK       | 36      | 0         | Bottom Side   | 0mm      | Sensor ON       | 133047        | 1702.5      | Speed          | 11.93               | 13.00               | 1.279                  |              |                           | -0.06            | 0.522                  | 0.668                  |
|          | LTE Band 70_Ant 0  | 15M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 133047        | 1702.5      | WNC            | 23.61               | 24.00               | 1.094                  |              |                           | -0.09            | 0.451                  | 0.493                  |
|          | LTE Band 70_Ant 2  | 15M      | QPSK       | 1       | 0         | Bottom Side   | 11mm     | Sensor OFF      | 133047        | 1702.5      | Speed          | 23.40               | 24.00               | 1.148                  |              |                           | 0                | 0.322                  | 0.370                  |
|          | LTE Band 70_Ant 2  | 15M      | QPSK       | 36      | 0         | Bottom Side   | 11mm     | Sensor OFF      | 133047        | 1702.5      | Speed          | 22.38               | 23.00               | 1.153                  |              |                           | 0.09             | 0.254                  | 0.293                  |
|          | LTE Band 70_Ant 2  | 15M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 133047        | 1702.5      | Speed          | 15.83               | 16.50               | 1.167                  |              |                           | 0.04             | 0.336                  | 0.392                  |
|          | LTE Band 70_Ant 2  | 15M      | QPSK       | 36      | 0         | Bottom Side   | 0mm      | Sensor ON       | 133047        | 1702.5      | Speed          | 15.72               | 16.50               | 1.197                  |              |                           | 0.08             | 0.306                  | 0.366                  |
|          | LTE Band 70_Ant 2  | 15M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 133047        | 1702.5      | WNC            | 15.83               | 16.50               | 1.167                  |              |                           | -0.13            | 0.288                  | 0.336                  |
|          | LTE Band 71_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 32mm     | Sensor OFF      | 133297        | 680.5       | Speed          | 22.75               | 24.50               | 1.496                  |              |                           | -0.15            | 0.001                  | 0.001                  |
|          | LTE Band 71_Ant 0  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 32mm     | Sensor OFF      | 133297        | 680.5       | Speed          | 21.67               | 23.50               | 1.524                  |              |                           | 0.16             | 0.001                  | 0.002                  |
| 17       | LTE Band 71_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 133297        | 680.5       | Speed          | 19.73               | 21.00               | 1.340                  |              |                           | 0.01             | 0.410                  | 0.549                  |
|          | LTE Band 71_Ant 0  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 0mm      | Sensor ON       | 133297        | 680.5       | Speed          | 19.62               | 21.00               | 1.374                  |              |                           | 0.15             | 0.372                  | 0.511                  |
|          | LTE Band 71_Ant 0  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 0mm      | Sensor ON       | 133297        | 680.5       | WNC            | 19.73               | 21.00               | 1.340                  |              |                           | -0.14            | 0.398                  | 0.533                  |

**<5G NR SAR>**

| Plot No. | Band          | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Antenna Vendor | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|----------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n7_Ant 0  | 40M      | BPSK       | 1       | 1         | Bottom Side   | 32mm     | Sensor OFF      | 507000 | 2535        | Speed          | 23.39               | 24.00               | 1.151                  | -0.15            | 0.166                  | 0.191                  |
|          | FR1 n7_Ant 0  | 40M      | BPSK       | 108     | 54        | Bottom Side   | 32mm     | Sensor OFF      | 507000 | 2535        | Speed          | 23.06               | 24.00               | 1.242                  | -0.03            | 0.142                  | 0.176                  |
|          | FR1 n7_Ant 0  | 40M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 507000 | 2535        | Speed          | 13.30               | 14.00               | 1.175                  | -0.02            | 0.423                  | 0.497                  |
|          | FR1 n7_Ant 0  | 40M      | BPSK       | 108     | 54        | Bottom Side   | 0mm      | Sensor ON       | 507000 | 2535        | Speed          | 13.18               | 14.00               | 1.208                  | 0.06             | 0.406                  | 0.490                  |
|          | FR1 n7_Ant 0  | 40M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 507000 | 2535        | WNC            | 13.30               | 14.00               | 1.175                  | 0.1              | 0.366                  | 0.430                  |
| 18       | FR1 n7_Ant 2  | 40M      | BPSK       | 1       | 1         | Bottom Side   | 11mm     | Sensor OFF      | 507000 | 2535        | Speed          | 23.03               | 24.00               | 1.250                  | -0.07            | 0.533                  | 0.666                  |
|          | FR1 n7_Ant 2  | 40M      | BPSK       | 108     | 54        | Bottom Side   | 11mm     | Sensor OFF      | 507000 | 2535        | Speed          | 22.89               | 24.00               | 1.291                  | 0.08             | 0.501                  | 0.647                  |
|          | FR1 n7_Ant 2  | 40M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 507000 | 2535        | Speed          | 12.11               | 12.50               | 1.094                  | 0.15             | 0.189                  | 0.207                  |
|          | FR1 n7_Ant 2  | 40M      | BPSK       | 108     | 54        | Bottom Side   | 0mm      | Sensor ON       | 507000 | 2535        | Speed          | 12.01               | 12.50               | 1.119                  | -0.11            | 0.173                  | 0.194                  |
|          | FR1 n7_Ant 2  | 40M      | BPSK       | 1       | 1         | Bottom Side   | 11mm     | Sensor OFF      | 507000 | 2535        | WNC            | 23.03               | 24.00               | 1.250                  | 0.03             | 0.422                  | 0.528                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 1       | 1         | Bottom Side   | 32mm     | Sensor OFF      | 141500 | 707.5       | Speed          | 23.52               | 24.50               | 1.253                  | 0.17             | 0.085                  | 0.107                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 36      | 22        | Bottom Side   | 32mm     | Sensor OFF      | 141500 | 707.5       | Speed          | 23.25               | 24.50               | 1.334                  | -0.13            | 0.072                  | 0.096                  |
| 19       | FR1 n12_Ant 0 | 15M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 141500 | 707.5       | Speed          | 18.89               | 19.50               | 1.151                  | 0                | 0.604                  | 0.695                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 36      | 22        | Bottom Side   | 0mm      | Sensor ON       | 141500 | 707.5       | Speed          | 18.72               | 19.50               | 1.197                  | -0.03            | 0.572                  | 0.685                  |
|          | FR1 n12_Ant 0 | 15M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 141500 | 707.5       | WNC            | 18.89               | 19.50               | 1.151                  | 0.09             | 0.574                  | 0.661                  |
|          | FR1 n13_Ant 0 | 10M      | BPSK       | 1       | 1         | Bottom Side   | 32mm     | Sensor OFF      | 156400 | 782         | Speed          | 23.18               | 24.50               | 1.355                  | -0.14            | 0.001                  | 0.001                  |
|          | FR1 n13_Ant 0 | 10M      | BPSK       | 25      | 14        | Bottom Side   | 32mm     | Sensor OFF      | 156400 | 782         | Speed          | 23.07               | 24.50               | 1.390                  | 0.09             | 0.001                  | 0.001                  |
| 20       | FR1 n13_Ant 0 | 10M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 156400 | 782         | Speed          | 18.45               | 19.50               | 1.274                  | 0.01             | 0.475                  | 0.605                  |
|          | FR1 n13_Ant 0 | 10M      | BPSK       | 25      | 14        | Bottom Side   | 0mm      | Sensor ON       | 156400 | 782         | Speed          | 18.27               | 19.50               | 1.327                  | 0.18             | 0.455                  | 0.604                  |
|          | FR1 n13_Ant 0 | 10M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 156400 | 782         | WNC            | 18.45               | 19.50               | 1.274                  | -0.17            | 0.432                  | 0.550                  |
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 1       | 1         | Bottom Side   | 32mm     | Sensor OFF      | 158600 | 793         | Speed          | 23.18               | 24.50               | 1.355                  | 0.17             | 0.001                  | 0.001                  |
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 25      | 14        | Bottom Side   | 32mm     | Sensor OFF      | 158600 | 793         | Speed          | 23.17               | 24.50               | 1.358                  | 0.17             | 0.001                  | 0.001                  |
| 21       | FR1 n14_Ant 0 | 10M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 158600 | 793         | Speed          | 19.57               | 20.50               | 1.239                  | 0.01             | 0.578                  | 0.716                  |
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 25      | 14        | Bottom Side   | 0mm      | Sensor ON       | 158600 | 793         | Speed          | 19.43               | 20.50               | 1.279                  | 0.01             | 0.551                  | 0.705                  |
|          | FR1 n14_Ant 0 | 10M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 158600 | 793         | WNC            | 19.57               | 20.50               | 1.239                  | -0.12            | 0.376                  | 0.466                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 1       | 1         | Bottom Side   | 32mm     | Sensor OFF      | 376500 | 1882.5      | Speed          | 23.62               | 24.00               | 1.091                  | -0.02            | 0.166                  | 0.181                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 108     | 54        | Bottom Side   | 32mm     | Sensor OFF      | 376500 | 1882.5      | Speed          | 23.60               | 24.00               | 1.096                  | -0.13            | 0.152                  | 0.167                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 376500 | 1882.5      | Speed          | 12.53               | 13.00               | 1.114                  | -0.02            | 0.592                  | 0.660                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 108     | 54        | Bottom Side   | 0mm      | Sensor ON       | 376500 | 1882.5      | Speed          | 12.43               | 13.00               | 1.140                  | 0.09             | 0.577                  | 0.658                  |
|          | FR1 n25_Ant 0 | 40M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 376500 | 1882.5      | WNC            | 12.53               | 13.00               | 1.114                  | 0.17             | 0.588                  | 0.655                  |
| 22       | FR1 n25_Ant 2 | 40M      | BPSK       | 1       | 1         | Bottom Side   | 11mm     | Sensor OFF      | 376500 | 1882.5      | Speed          | 23.38               | 24.00               | 1.153                  | 0.02             | 0.665                  | 0.767                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 108     | 54        | Bottom Side   | 11mm     | Sensor OFF      | 376500 | 1882.5      | Speed          | 23.35               | 24.00               | 1.161                  | -0.02            | 0.633                  | 0.735                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 376500 | 1882.5      | Speed          | 12.82               | 13.50               | 1.169                  | -0.02            | 0.316                  | 0.370                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 108     | 54        | Bottom Side   | 0mm      | Sensor ON       | 376500 | 1882.5      | Speed          | 12.61               | 13.50               | 1.227                  | 0                | 0.301                  | 0.369                  |
|          | FR1 n25_Ant 2 | 40M      | BPSK       | 1       | 1         | Bottom Side   | 11mm     | Sensor OFF      | 376500 | 1882.5      | WNC            | 23.38               | 24.00               | 1.153                  | 0.14             | 0.566                  | 0.653                  |
|          | FR1 n26_Ant 0 | 20M      | BPSK       | 1       | 1         | Bottom Side   | 32mm     | Sensor OFF      | 166300 | 831.5       | Speed          | 23.26               | 24.50               | 1.330                  | 0.08             | 0.082                  | 0.109                  |
|          | FR1 n26_Ant 0 | 20M      | BPSK       | 50      | 28        | Bottom Side   | 32mm     | Sensor OFF      | 166300 | 831.5       | Speed          | 23.22               | 24.50               | 1.343                  | -0.04            | 0.078                  | 0.105                  |
| 23       | FR1 n26_Ant 0 | 20M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 166300 | 831.5       | Speed          | 19.13               | 20.00               | 1.222                  | 0.04             | 0.650                  | 0.794                  |
|          | FR1 n26_Ant 0 | 20M      | BPSK       | 50      | 28        | Bottom Side   | 0mm      | Sensor ON       | 166300 | 831.5       | Speed          | 18.93               | 20.00               | 1.279                  | 0.05             | 0.612                  | 0.783                  |
|          | FR1 n26_Ant 0 | 20M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 166300 | 831.5       | WNC            | 19.13               | 20.00               | 1.222                  | 0.14             | 0.512                  | 0.626                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 1       | 1         | Bottom Side   | 32mm     | Sensor OFF      | 462000 | 2310        | Speed          | 22.29               | 23.00               | 1.178                  | -0.01            | 0.132                  | 0.155                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 25      | 14        | Bottom Side   | 32mm     | Sensor OFF      | 462000 | 2310        | Speed          | 22.12               | 23.00               | 1.225                  | -0.04            | 0.122                  | 0.149                  |
| 24       | FR1 n30_Ant 0 | 10M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 462000 | 2310        | Speed          | 13.06               | 13.50               | 1.107                  | 0.02             | 0.547                  | 0.605                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 25      | 14        | Bottom Side   | 0mm      | Sensor ON       | 462000 | 2310        | Speed          | 12.95               | 13.50               | 1.135                  | -0.19            | 0.532                  | 0.604                  |
|          | FR1 n30_Ant 0 | 10M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 462000 | 2310        | WNC            | 13.06               | 13.50               | 1.107                  | 0.08             | 0.422                  | 0.467                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 1       | 1         | Bottom Side   | 11mm     | Sensor OFF      | 462000 | 2310        | Speed          | 22.13               | 23.00               | 1.222                  | 0.07             | 0.322                  | 0.393                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 25      | 14        | Bottom Side   | 11mm     | Sensor OFF      | 462000 | 2310        | Speed          | 21.88               | 23.00               | 1.294                  | -0.12            | 0.301                  | 0.390                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 462000 | 2310        | Speed          | 13.02               | 13.50               | 1.117                  | -0.11            | 0.232                  | 0.259                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 25      | 14        | Bottom Side   | 0mm      | Sensor ON       | 462000 | 2310        | Speed          | 12.88               | 13.50               | 1.153                  | 0.04             | 0.221                  | 0.255                  |
|          | FR1 n30_Ant 2 | 10M      | BPSK       | 1       | 1         | Bottom Side   | 11mm     | Sensor OFF      | 462000 | 2310        | WNC            | 22.13               | 23.00               | 1.222                  | 0.07             | 0.306                  | 0.374                  |



| Plot No. | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Antenna Vendor | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|----------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n41_Ant 0      | 100M     | BPSK       | 1       | 1         | Bottom Side   | 32mm     | Sensor OFF      | 518598 | 2592.99     | Speed          | 22.73               | 24.00               | 1.340                  | -0.13            | 0.133                  | 0.178                  |
|          | FR1 n41_Ant 0      | 100M     | BPSK       | 135     | 69        | Bottom Side   | 32mm     | Sensor OFF      | 518598 | 2592.99     | Speed          | 22.38               | 24.00               | 1.452                  | -0.07            | 0.121                  | 0.176                  |
|          | FR1 n41_Ant 0      | 100M     | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 518598 | 2592.99     | Speed          | 12.34               | 14.00               | 1.466                  | 0                | 0.401                  | 0.588                  |
|          | FR1 n41_Ant 0      | 100M     | BPSK       | 135     | 69        | Bottom Side   | 0mm      | Sensor ON       | 518598 | 2592.99     | Speed          | 12.12               | 14.00               | 1.542                  | 0.04             | 0.375                  | 0.578                  |
|          | FR1 n41_HPUE_Ant 0 | 100M     | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 518598 | 2592.99     | Speed          | 16.39               | 17.00               | 1.151                  | -0.01            | 0.501                  | 0.577                  |
|          | FR1 n41_Ant 0      | 100M     | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 518598 | 2592.99     | WNC            | 12.34               | 14.00               | 1.466                  | 0.09             | 0.388                  | 0.569                  |
| 25       | FR1 n41_Ant 2      | 100M     | BPSK       | 1       | 1         | Bottom Side   | 11mm     | Sensor OFF      | 518598 | 2592.99     | Speed          | 23.10               | 24.00               | 1.230                  | 0.05             | 0.634                  | 0.780                  |
|          | FR1 n41_Ant 2      | 100M     | BPSK       | 135     | 69        | Bottom Side   | 11mm     | Sensor OFF      | 518598 | 2592.99     | Speed          | 22.94               | 24.00               | 1.276                  | -0.01            | 0.588                  | 0.751                  |
|          | FR1 n41_Ant 2      | 100M     | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 518598 | 2592.99     | Speed          | 11.87               | 13.00               | 1.297                  | -0.1             | 0.215                  | 0.279                  |
|          | FR1 n41_Ant 2      | 100M     | BPSK       | 135     | 69        | Bottom Side   | 0mm      | Sensor ON       | 518598 | 2592.99     | Speed          | 11.78               | 13.00               | 1.324                  | -0.14            | 0.204                  | 0.270                  |
|          | FR1 n41_HPUE_Ant 2 | 100M     | BPSK       | 1       | 1         | Bottom Side   | 11mm     | Sensor OFF      | 518598 | 2592.99     | Speed          | 25.88               | 27.00               | 1.294                  | 0.01             | 0.601                  | 0.778                  |
|          | FR1 n41_Ant 2      | 100M     | BPSK       | 1       | 1         | Bottom Side   | 11mm     | Sensor OFF      | 518598 | 2592.99     | WNC            | 23.10               | 24.00               | 1.230                  | 0.03             | 0.522                  | 0.642                  |
|          | FR1 n48_Ant 0      | 40M      | BPSK       | 1       | 1         | Bottom Side   | 32mm     | Sensor OFF      | 641666 | 3624.99     | Speed          | 20.82               | 22.00               | 1.312                  | 0                | 0.423                  | 0.555                  |
|          | FR1 n48_Ant 0      | 40M      | BPSK       | 50      | 28        | Bottom Side   | 32mm     | Sensor OFF      | 641666 | 3624.99     | Speed          | 20.69               | 22.00               | 1.352                  | 0.02             | 0.406                  | 0.549                  |
| 26       | FR1 n48_Ant 0      | 40M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 641666 | 3624.99     | Speed          | 10.62               | 11.50               | 1.225                  | -0.01            | 0.554                  | 0.678                  |
|          | FR1 n48_Ant 0      | 40M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 638000 | 3570        | Speed          | 10.44               | 11.50               | 1.276                  | -0.19            | 0.501                  | 0.639                  |
|          | FR1 n48_Ant 0      | 40M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 645332 | 3679.98     | Speed          | 10.51               | 11.50               | 1.256                  | 0.04             | 0.488                  | 0.613                  |
|          | FR1 n48_Ant 0      | 40M      | BPSK       | 50      | 28        | Bottom Side   | 0mm      | Sensor ON       | 641666 | 3624.99     | Speed          | 10.43               | 11.50               | 1.279                  | 0.19             | 0.485                  | 0.620                  |
|          | FR1 n48_Ant 0      | 40M      | BPSK       | 50      | 28        | Bottom Side   | 0mm      | Sensor ON       | 638000 | 3570        | Speed          | 10.30               | 11.50               | 1.318                  | 0.07             | 0.475                  | 0.626                  |
|          | FR1 n48_Ant 0      | 40M      | BPSK       | 50      | 28        | Bottom Side   | 0mm      | Sensor ON       | 645332 | 3679.98     | Speed          | 10.37               | 11.50               | 1.297                  | -0.15            | 0.466                  | 0.604                  |
|          | FR1 n48_Ant 0      | 40M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 641666 | 3624.99     | WNC            | 10.62               | 11.50               | 1.225                  | -0.01            | 0.432                  | 0.529                  |
|          | FR1 n48_Ant 2      | 40M      | BPSK       | 1       | 1         | Bottom Side   | 11mm     | Sensor OFF      | 641666 | 3624.99     | Speed          | 20.86               | 22.00               | 1.300                  | -0.08            | 0.206                  | 0.268                  |
|          | FR1 n48_Ant 2      | 40M      | BPSK       | 50      | 28        | Bottom Side   | 11mm     | Sensor OFF      | 641666 | 3624.99     | Speed          | 20.84               | 22.00               | 1.306                  | -0.05            | 0.198                  | 0.259                  |
|          | FR1 n48_Ant 2      | 40M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 641666 | 3624.99     | Speed          | 9.93                | 10.50               | 1.140                  | 0.19             | 0.135                  | 0.154                  |
|          | FR1 n48_Ant 2      | 40M      | BPSK       | 50      | 28        | Bottom Side   | 0mm      | Sensor ON       | 641666 | 3624.99     | Speed          | 9.81                | 10.50               | 1.172                  | -0.1             | 0.121                  | 0.142                  |
|          | FR1 n48_Ant 2      | 40M      | BPSK       | 1       | 1         | Bottom Side   | 11mm     | Sensor OFF      | 641666 | 3624.99     | WNC            | 20.86               | 22.00               | 1.300                  | -0.18            | 0.135                  | 0.176                  |
|          | FR1 n66_Ant 0      | 40M      | BPSK       | 1       | 1         | Bottom Side   | 32mm     | Sensor OFF      | 349000 | 1745        | Speed          | 23.58               | 24.00               | 1.102                  | 0.1              | 0.199                  | 0.219                  |
|          | FR1 n66_Ant 0      | 40M      | BPSK       | 108     | 54        | Bottom Side   | 32mm     | Sensor OFF      | 349000 | 1745        | Speed          | 23.52               | 24.00               | 1.117                  | -0.05            | 0.183                  | 0.204                  |
| 27       | FR1 n66_Ant 0      | 40M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 349000 | 1745        | Speed          | 12.35               | 13.00               | 1.161                  | 0.01             | 0.583                  | 0.677                  |
|          | FR1 n66_Ant 0      | 40M      | BPSK       | 108     | 54        | Bottom Side   | 0mm      | Sensor ON       | 349000 | 1745        | Speed          | 12.26               | 13.00               | 1.186                  | -0.07            | 0.570                  | 0.676                  |
|          | FR1 n66_Ant 0      | 40M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 349000 | 1745        | WNC            | 12.35               | 13.00               | 1.161                  | -0.04            | 0.572                  | 0.664                  |
|          | FR1 n66_Ant 2      | 40M      | BPSK       | 1       | 1         | Bottom Side   | 11mm     | Sensor OFF      | 349000 | 1745        | Speed          | 23.49               | 24.00               | 1.125                  | -0.18            | 0.372                  | 0.418                  |
|          | FR1 n66_Ant 2      | 40M      | BPSK       | 108     | 54        | Bottom Side   | 11mm     | Sensor OFF      | 349000 | 1745        | Speed          | 23.35               | 24.00               | 1.161                  | 0.1              | 0.355                  | 0.412                  |
|          | FR1 n66_Ant 2      | 40M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 349000 | 1745        | Speed          | 14.86               | 15.00               | 1.033                  | -0.15            | 0.322                  | 0.333                  |
|          | FR1 n66_Ant 2      | 40M      | BPSK       | 108     | 54        | Bottom Side   | 0mm      | Sensor ON       | 349000 | 1745        | Speed          | 14.76               | 15.00               | 1.057                  | 0.13             | 0.311                  | 0.329                  |
|          | FR1 n66_Ant 2      | 40M      | BPSK       | 1       | 1         | Bottom Side   | 11mm     | Sensor OFF      | 349000 | 1745        | WNC            | 23.49               | 24.00               | 1.125                  | 0.11             | 0.299                  | 0.336                  |
|          | FR1 n70_Ant 0      | 15M      | BPSK       | 1       | 1         | Bottom Side   | 32mm     | Sensor OFF      | 340500 | 1702.5      | Speed          | 23.50               | 24.00               | 1.122                  | 0.06             | 0.195                  | 0.219                  |
|          | FR1 n70_Ant 0      | 15M      | BPSK       | 36      | 22        | Bottom Side   | 32mm     | Sensor OFF      | 340500 | 1702.5      | Speed          | 23.47               | 24.00               | 1.130                  | 0.01             | 0.178                  | 0.201                  |
| 28       | FR1 n70_Ant 0      | 15M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 340500 | 1702.5      | Speed          | 12.22               | 13.00               | 1.197                  | -0.01            | 0.567                  | 0.679                  |
|          | FR1 n70_Ant 0      | 15M      | BPSK       | 36      | 22        | Bottom Side   | 0mm      | Sensor ON       | 340500 | 1702.5      | Speed          | 12.11               | 13.00               | 1.227                  | -0.08            | 0.543                  | 0.666                  |
|          | FR1 n70_Ant 0      | 15M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 340500 | 1702.5      | WNC            | 12.22               | 13.00               | 1.197                  | 0.08             | 0.526                  | 0.629                  |
|          | FR1 n70_Ant 2      | 15M      | BPSK       | 1       | 1         | Bottom Side   | 11mm     | Sensor OFF      | 340500 | 1702.5      | Speed          | 23.24               | 24.00               | 1.191                  | -0.04            | 0.416                  | 0.496                  |
|          | FR1 n70_Ant 2      | 15M      | BPSK       | 36      | 22        | Bottom Side   | 11mm     | Sensor OFF      | 340500 | 1702.5      | Speed          | 23.14               | 24.00               | 1.219                  | 0.16             | 0.402                  | 0.490                  |
|          | FR1 n70_Ant 2      | 15M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 340500 | 1702.5      | Speed          | 15.15               | 15.50               | 1.084                  | -0.02            | 0.336                  | 0.364                  |
|          | FR1 n70_Ant 2      | 15M      | BPSK       | 36      | 22        | Bottom Side   | 0mm      | Sensor ON       | 340500 | 1702.5      | Speed          | 14.94               | 15.50               | 1.138                  | -0.14            | 0.319                  | 0.363                  |
|          | FR1 n70_Ant 2      | 15M      | BPSK       | 1       | 1         | Bottom Side   | 11mm     | Sensor OFF      | 340500 | 1702.5      | WNC            | 23.24               | 24.00               | 1.191                  | 0.11             | 0.355                  | 0.423                  |
|          | FR1 n71_Ant 0      | 20M      | BPSK       | 1       | 1         | Bottom Side   | 32mm     | Sensor OFF      | 136100 | 680.5       | Speed          | 22.88               | 24.50               | 1.452                  | 0.14             | 0.001                  | 0.001                  |
|          | FR1 n71_Ant 0      | 20M      | BPSK       | 50      | 28        | Bottom Side   | 32mm     | Sensor OFF      | 136100 | 680.5       | Speed          | 22.75               | 24.50               | 1.496                  | 0.14             | 0.001                  | 0.001                  |
| 29       | FR1 n71_Ant 0      | 20M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 136100 | 680.5       | Speed          | 20.31               | 21.00               | 1.172                  | 0                | 0.530                  | 0.621                  |
|          | FR1 n71_Ant 0      | 20M      | BPSK       | 50      | 28        | Bottom Side   | 0mm      | Sensor ON       | 136100 | 680.5       | Speed          | 20.15               | 21.00               | 1.216                  | 0.03             | 0.501                  | 0.609                  |
|          | FR1 n71_Ant 0      | 20M      | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 136100 | 680.5       | WNC            | 20.31               | 21.00               | 1.172                  | -0.14            | 0.512                  | 0.600                  |

| Plot No. | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch.    | Freq. (MHz) | Antenna Vendor | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|--------------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|----------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
|          | FR1 n77_Ant 0      | 100M     | BPSK       | 1       | 1         | Bottom Side   | 32mm     | Sensor OFF      | 656000 | 3840        | Speed          | 22.95               | 24.00               | 1.274                  | -0.16            | 0.572                  | 0.728                  |
|          | FR1 n77_Ant 0      | 100M     | BPSK       | 135     | 69        | Bottom Side   | 32mm     | Sensor OFF      | 656000 | 3840        | Speed          | 22.74               | 24.00               | 1.337                  | -0.05            | 0.552                  | 0.738                  |
| 30       | FR1 n77_Ant 0      | 100M     | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 656000 | 3840        | Speed          | 12.77               | 13.50               | 1.183                  | -0.1             | 0.672                  | 0.795                  |
|          | FR1 n77_Ant 0      | 100M     | BPSK       | 135     | 69        | Bottom Side   | 0mm      | Sensor ON       | 656000 | 3840        | Speed          | 12.69               | 13.50               | 1.205                  | 0.04             | 0.652                  | 0.786                  |
|          | FR1 n77_HPUE_Ant 0 | 100M     | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 656000 | 3840        | Speed          | 15.81               | 16.50               | 1.172                  | -0.12            | 0.654                  | 0.767                  |
|          | FR1 n77_Ant 0      | 100M     | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 656000 | 3840        | WNC            | 12.77               | 13.50               | 1.183                  | -0.19            | 0.654                  | 0.774                  |
|          | FR1 n77_Ant 2      | 100M     | BPSK       | 1       | 1         | Bottom Side   | 11mm     | Sensor OFF      | 656000 | 3840        | Speed          | 22.78               | 24.00               | 1.324                  | -0.15            | 0.392                  | 0.519                  |
|          | FR1 n77_Ant 2      | 100M     | BPSK       | 135     | 69        | Bottom Side   | 11mm     | Sensor OFF      | 656000 | 3840        | Speed          | 22.54               | 24.00               | 1.400                  | -0.19            | 0.365                  | 0.511                  |
|          | FR1 n77_Ant 2      | 100M     | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 656000 | 3840        | Speed          | 12.67               | 13.50               | 1.211                  | -0.18            | 0.455                  | 0.551                  |
|          | FR1 n77_Ant 2      | 100M     | BPSK       | 135     | 69        | Bottom Side   | 0mm      | Sensor ON       | 656000 | 3840        | Speed          | 12.49               | 13.50               | 1.262                  | 0.18             | 0.422                  | 0.532                  |
|          | FR1 n77_HPUE_Ant 2 | 100M     | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 656000 | 3840        | Speed          | 15.75               | 16.50               | 1.189                  | 0.11             | 0.429                  | 0.510                  |
|          | FR1 n77_Ant 2      | 100M     | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 656000 | 3840        | WNC            | 12.67               | 13.50               | 1.211                  | 0.15             | 0.406                  | 0.492                  |
|          | FR1 n77_Ant 0      | 100M     | BPSK       | 1       | 1         | Bottom Side   | 32mm     | Sensor OFF      | 633332 | 3499.98     | Speed          | 23.14               | 24.00               | 1.219                  | -0.19            | 0.388                  | 0.473                  |
|          | FR1 n77_Ant 0      | 100M     | BPSK       | 135     | 69        | Bottom Side   | 32mm     | Sensor OFF      | 633332 | 3499.98     | Speed          | 22.87               | 24.00               | 1.297                  | -0.04            | 0.361                  | 0.468                  |
|          | FR1 n77_Ant 0      | 100M     | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 633332 | 3499.98     | Speed          | 13.02               | 13.50               | 1.117                  | 0.17             | 0.553                  | 0.618                  |
|          | FR1 n77_Ant 0      | 100M     | BPSK       | 135     | 69        | Bottom Side   | 0mm      | Sensor ON       | 633332 | 3499.98     | Speed          | 12.81               | 13.50               | 1.172                  | -0.03            | 0.516                  | 0.605                  |
|          | FR1 n77_HPUE_Ant 0 | 100M     | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 633332 | 3499.98     | Speed          | 16.00               | 16.50               | 1.122                  | 0.18             | 0.506                  | 0.568                  |
|          | FR1 n77_Ant 0      | 100M     | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 633332 | 3499.98     | WNC            | 13.02               | 13.50               | 1.117                  | 0.06             | 0.372                  | 0.415                  |
|          | FR1 n77_Ant 2      | 100M     | BPSK       | 1       | 1         | Bottom Side   | 11mm     | Sensor OFF      | 633332 | 3499.98     | Speed          | 23.10               | 24.00               | 1.230                  | 0.14             | 0.365                  | 0.449                  |
|          | FR1 n77_Ant 2      | 100M     | BPSK       | 135     | 69        | Bottom Side   | 11mm     | Sensor OFF      | 633332 | 3499.98     | Speed          | 22.99               | 24.00               | 1.262                  | -0.17            | 0.342                  | 0.432                  |
|          | FR1 n77_Ant 2      | 100M     | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 633332 | 3499.98     | Speed          | 12.93               | 13.50               | 1.140                  | -0.04            | 0.422                  | 0.481                  |
|          | FR1 n77_Ant 2      | 100M     | BPSK       | 135     | 69        | Bottom Side   | 0mm      | Sensor ON       | 633332 | 3499.98     | Speed          | 12.78               | 13.50               | 1.180                  | 0.01             | 0.398                  | 0.470                  |
|          | FR1 n77_HPUE_Ant 2 | 100M     | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 633332 | 3499.98     | Speed          | 15.87               | 16.50               | 1.156                  | 0.05             | 0.415                  | 0.480                  |
|          | FR1 n77_Ant 2      | 100M     | BPSK       | 1       | 1         | Bottom Side   | 0mm      | Sensor ON       | 633332 | 3499.98     | WNC            | 12.93               | 13.50               | 1.140                  | -0.19            | 0.385                  | 0.439                  |

**15.2 Power Class 2 and Power Class 3 Linearity****General Note:**

This device support Power Class 2 and Power Class 3 operations. 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 and 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%

|                                     | LTE Band 41_Ant 0 | LTE Band 41_Ant 0 |
|-------------------------------------|-------------------|-------------------|
|                                     | (Power Class 3)   | (Power Class 2)   |
| Maximum Tune up Power (dBm)         | 15                | 15                |
| Reported 1g SAR (W/kg)              | 0.386             | 0.271             |
| Duty Cycle                          | 63.30%            | 43.30%            |
| Frame Averaged (mW)                 | 20.02             | 13.69             |
| Linearity SAR(W/kg)                 | 0.26              |                   |
| % deviation from expected linearity |                   | 2.64%             |

|                                     | LTE Band 41_Ant 2 | LTE Band 41_Ant 2 |
|-------------------------------------|-------------------|-------------------|
|                                     | (Power Class 3)   | (Power Class 2)   |
| Maximum Tune up Power (dBm)         | 24                | 27                |
| Reported 1g SAR (W/kg)              | 0.288             | 0.376             |
| Duty Cycle                          | 63.30%            | 43.30%            |
| Frame Averaged (mW)                 | 159.00            | 217.01            |
| Linearity SAR(W/kg)                 | 0.39              |                   |
| % deviation from expected linearity |                   | -4.34%            |





|                                     | FR1 n41_Ant 0   | FR1 n41_Ant 0   |
|-------------------------------------|-----------------|-----------------|
|                                     | (Power Class 3) | (Power Class 2) |
| Maximum Tune up Power (dBm)         | 14              | 17              |
| Reported 1g SAR (W/kg)              | 0.588           | 0.577           |
| Duty Cycle                          | 100.00%         | 50.00%          |
| Frame Averaged (mW)                 | 25.12           | 25.06           |
| Linearity SAR(W/kg)                 | 0.59            |                 |
| % deviation from expected linearity |                 | -1.64%          |

|                                     | FR1 n77_Ant 0   | FR1 n77_Ant 0   |
|-------------------------------------|-----------------|-----------------|
|                                     | (Power Class 3) | (Power Class 2) |
| Maximum Tune up Power (dBm)         | 13.5            | 16.5            |
| Reported 1g SAR (W/kg)              | 0.795           | 0.767           |
| Duty Cycle                          | 100.00%         | 50.00%          |
| Frame Averaged (mW)                 | 22.39           | 22.33           |
| Linearity SAR(W/kg)                 | 0.79            |                 |
| % deviation from expected linearity |                 | -3.29%          |

|                                     | FR1 n41_Ant 2   | FR1 n41_Ant 2   |
|-------------------------------------|-----------------|-----------------|
|                                     | (Power Class 3) | (Power Class 2) |
| Maximum Tune up Power (dBm)         | 24              | 27              |
| Reported 1g SAR (W/kg)              | 0.78            | 0.778           |
| Duty Cycle                          | 100.00%         | 50.00%          |
| Frame Averaged (mW)                 | 251.19          | 250.59          |
| Linearity SAR(W/kg)                 | 0.78            |                 |
| % deviation from expected linearity |                 | -0.02%          |

|                                     | FR1 n77_Ant 2   | FR1 n77_Ant 2   |
|-------------------------------------|-----------------|-----------------|
|                                     | (Power Class 3) | (Power Class 2) |
| Maximum Tune up Power (dBm)         | 13.5            | 16.5            |
| Reported 1g SAR (W/kg)              | 0.551           | 0.51            |
| Duty Cycle                          | 100.00%         | 50.00%          |
| Frame Averaged (mW)                 | 22.39           | 22.33           |
| Linearity SAR(W/kg)                 | 0.55            |                 |
| % deviation from expected linearity |                 | -7.22%          |

## 16. Simultaneous Transmission Analysis

| NO. | Simultaneous Transmission Configurations                                   | Body |
|-----|----------------------------------------------------------------------------|------|
| 1.  | WWAN Ant 0 + WWAN Ant 2 + WLAN2.4GHz Main + Bluetooth Aux                  | Yes  |
| 2.  | WWAN Ant 0 + WWAN Ant 2 + WLAN2.4GHz Main + WLAN2.4GHz Aux                 | Yes  |
| 3.  | WWAN Ant 0 + WWAN Ant 2 + WLAN5/6GHz Main + WLAN5/6GHz Aux + Bluetooth Aux | Yes  |

**General Note:**

1. The Intel BE201D2W WLAN/BT module is integrated into this host. The maximum WLAN/BT output power and evaluation results are referenced from the Intel test report (Report No.: 240806-05.TR01, FCC ID: PD9BE201D2).
2. The worst case WWAN SAR is using for Sim-Tx analysis.
3. The Scaled SAR summation is calculated based on the same configuration and test position.
4. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - i) Scalar SAR summation  $< 1.6\text{W/kg}$ .
  - ii)  $\text{SPLSR} = (\text{SAR}_1 + \text{SAR}_2)^{1.5} / (\text{min. separation distance, mm})$ , and the peak separation distance is determined from the square root of  $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$ , where  $(x_1, y_1, z_1)$  and  $(x_2, y_2, z_2)$  are the coordinates of the extrapolated peak SAR locations in the zoom scan.
  - iii) If  $\text{SPLSR} \leq 0.04$ , simultaneously transmission SAR measurement is not necessary.
  - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR  $< 1.6\text{W/kg}$ .
  - v) The SPLSR calculated results please refer to section 16.2.

### 16.1 Body Exposure Conditions

| Exposure Position  | 1                           | 2                           | 3                                | 4                               | 5                                | 6                               | 7                              | 1+2+3+4              | 1+2+3+7              | 1+2+5+6+7            | SPLSR | Case No |
|--------------------|-----------------------------|-----------------------------|----------------------------------|---------------------------------|----------------------------------|---------------------------------|--------------------------------|----------------------|----------------------|----------------------|-------|---------|
|                    | WWAN Ant 0<br>1g SAR (W/kg) | WWAN Ant 2<br>1g SAR (W/kg) | WLAN2.4GHz Main<br>1g SAR (W/kg) | WLAN2.4GHz Aux<br>1g SAR (W/kg) | WLAN5/6GHz Main<br>1g SAR (W/kg) | WLAN5/6GHz Aux<br>1g SAR (W/kg) | Bluetooth Aux<br>1g SAR (W/kg) | Summed 1g SAR (W/kg) | Summed 1g SAR (W/kg) | Summed 1g SAR (W/kg) |       |         |
| Bottom Side at 0mm | 0.795                       | 0.551                       | 0.490                            | 0.320                           | 0.750                            | 0.640                           | 0.310                          | 2.156                | 2.146                | 3.046                | 0.030 | Case 1  |

## 16.2 SPLSR Evaluation and Analysis

### General Note:

1. According to antenna location 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.  $SPLSR = (SAR_1 + SAR_2)^{1.5} / (\text{min. separation distance, mm})$ . If  $SPLSR \leq 0.04$ , simultaneously transmission SAR measurement is not necessary

|        | Band                | Position    | SAR (W/kg) | Gap  | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|--------|---------------------|-------------|------------|------|------------------|-------------------|---------------|------------------|
|        |                     |             |            | (mm) |                  |                   |               |                  |
| Case 1 | WWAN_Ant 0          | Bottom Side | 0.795      | 0mm  | 196.0            | 1.35              | 0.01          | Not required     |
|        | WWAN_Ant 2          |             | 0.551      | 0mm  |                  |                   |               |                  |
|        | WWAN_Ant 0          | Bottom Side | 0.795      | 0mm  | 185.0            | 1.29              | 0.01          | Not required     |
|        | WLAN2.4G_Main       |             | 0.49       | 0mm  |                  |                   |               |                  |
|        | WWAN_Ant 0          | Bottom Side | 0.795      | 0mm  | 93.0             | 1.12              | 0.01          | Not required     |
|        | WLAN2.4G_Aux        |             | 0.32       | 0mm  |                  |                   |               |                  |
|        | WWAN_Ant 2          | Bottom Side | 0.551      | 0mm  | 158.0            | 1.04              | 0.01          | Not required     |
|        | WLAN2.4G_Main       |             | 0.49       | 0mm  |                  |                   |               |                  |
|        | WWAN_Ant 2          | Bottom Side | 0.551      | 0mm  | 205.0            | 0.87              | 0.00          | Not required     |
|        | WLAN2.4G_Aux        |             | 0.32       | 0mm  |                  |                   |               |                  |
|        | WLAN2.4G_Main       | Bottom Side | 0.49       | 0mm  | 70.0             | 0.81              | 0.01          | Not required     |
|        | WLAN2.4G_Aux        |             | 0.32       | 0mm  |                  |                   |               |                  |
|        | WWAN_Ant 0          | Bottom Side | 0.795      | 0mm  | 93.0             | 1.11              | 0.01          | Not required     |
|        | Bluetooth Aux       |             | 0.31       | 0mm  |                  |                   |               |                  |
|        | WWAN_Ant 2          | Bottom Side | 0.551      | 0mm  | 205.0            | 0.86              | 0.00          | Not required     |
|        | Bluetooth Aux       |             | 0.31       | 0mm  |                  |                   |               |                  |
|        | WLAN2.4G_Main       | Bottom Side | 0.49       | 0mm  | 70.0             | 0.80              | 0.01          | Not required     |
|        | Bluetooth Aux       |             | 0.31       | 0mm  |                  |                   |               |                  |
|        | WWAN_Ant 0          | Bottom Side | 0.795      | 0mm  | 185.0            | 1.55              | 0.01          | Not required     |
|        | WLAN5/6GHz Main     |             | 0.75       | 0mm  |                  |                   |               |                  |
|        | WWAN_Ant 0          | Bottom Side | 0.795      | 0mm  | 93.0             | 1.75              | 0.02          | Not required     |
|        | WLAN5/6GHz Aux + BT |             | 0.95       | 0mm  |                  |                   |               |                  |
|        | WWAN_Ant 2          | Bottom Side | 0.551      | 0mm  | 158.0            | 1.30              | 0.01          | Not required     |
|        | WLAN5/6GHz Main     |             | 0.75       | 0mm  |                  |                   |               |                  |
|        | WWAN_Ant 2          | Bottom Side | 0.551      | 0mm  | 205.0            | 1.50              | 0.01          | Not required     |
|        | WLAN5/6GHz Aux + BT |             | 0.95       | 0mm  |                  |                   |               |                  |
|        | WLAN5/6GHz Main     | Bottom Side | 0.75       | 0mm  | 70.0             | 1.70              | 0.03          | Not required     |
|        | WLAN5/6GHz Aux + BT |             | 0.95       | 0mm  |                  |                   |               |                  |

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## **17. 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.

## **18. 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] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [5] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [6] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [7] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [8] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [9] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [10] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [11] SPEAG DASY System Handbook