

# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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|       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|
| HSPA+ | 16QAM | 16.81 | 16.88 | 16.82 | 18.00 |
|-------|-------|-------|-------|-------|-------|

| WCDMA Band V DSI2/3          |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 4132  | 4182  | 4233  | Tune up |
| WCDMA                        | 12.2kbps RMC | 23.95 | 23.85 | 23.88 | 25.00   |
|                              | 12.2kbps AMR | 23.89 | 23.84 | 23.84 | 25.00   |
| HSDPA                        | Subtest 1    | 22.99 | 23.09 | 22.99 | 24.00   |
|                              | Subtest 2    | 22.99 | 23.06 | 22.99 | 24.00   |
|                              | Subtest 3    | 22.51 | 22.57 | 22.48 | 23.50   |
|                              | Subtest 4    | 22.47 | 22.57 | 22.49 | 23.50   |
| HSUPA                        | Subtest 1    | 22.94 | 23.08 | 22.99 | 24.00   |
|                              | Subtest 2    | 20.93 | 21.07 | 21.00 | 22.00   |
|                              | Subtest 3    | 21.97 | 22.07 | 21.98 | 23.00   |
|                              | Subtest 4    | 20.95 | 21.06 | 20.98 | 22.00   |
|                              | Subtest 5    | 22.94 | 23.04 | 22.99 | 24.00   |
| DC-HSDPA                     | Subtest 1    | 22.96 | 23.01 | 22.94 | 24.00   |
|                              | Subtest 2    | 22.98 | 22.99 | 22.95 | 24.00   |
|                              | Subtest 3    | 22.44 | 22.49 | 22.45 | 23.50   |
|                              | Subtest 4    | 22.42 | 22.49 | 22.41 | 23.50   |
| HSPA+                        | 16QAM        | 21.10 | 21.05 | 20.98 | 22.00   |

| WCDMA Band V DSI4/5          |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 4132  | 4182  | 4233  | Tune up |
| WCDMA                        | 12.2kbps RMC | 23.50 | 23.42 | 23.47 | 24.50   |
|                              | 12.2kbps AMR | 23.44 | 23.42 | 23.49 | 24.50   |
| HSDPA                        | Subtest 1    | 22.52 | 22.58 | 22.51 | 23.50   |
|                              | Subtest 2    | 22.35 | 22.59 | 22.49 | 23.50   |
|                              | Subtest 3    | 21.84 | 22.11 | 22.03 | 23.00   |
|                              | Subtest 4    | 21.98 | 22.05 | 22.01 | 23.00   |
| HSUPA                        | Subtest 1    | 22.43 | 22.58 | 22.53 | 23.50   |
|                              | Subtest 2    | 20.38 | 20.54 | 20.49 | 21.50   |
|                              | Subtest 3    | 21.42 | 21.56 | 21.51 | 22.50   |
|                              | Subtest 4    | 20.41 | 20.58 | 20.50 | 21.50   |
|                              | Subtest 5    | 22.41 | 22.56 | 22.53 | 23.50   |
| DC-HSDPA                     | Subtest 1    | 22.47 | 22.54 | 22.42 | 23.50   |
|                              | Subtest 2    | 22.33 | 22.55 | 22.43 | 23.50   |
|                              | Subtest 3    | 21.78 | 22.05 | 21.99 | 23.00   |
|                              | Subtest 4    | 21.95 | 21.99 | 21.95 | 23.00   |



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|-------|-------|-------|-------|-------|-------|
| HSPA+ | 16QAM | 20.68 | 20.59 | 20.62 | 21.50 |
|-------|-------|-------|-------|-------|-------|

| WCDMA Band V DSI8/9/10       |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 4132  | 4182  | 4233  | Tune up |
| WCDMA                        | 12.2kbps RMC | 22.49 | 22.54 | 22.53 | 23.50   |
|                              | 12.2kbps AMR | 22.44 | 22.48 | 22.47 | 23.50   |
| HSDPA                        | Subtest 1    | 21.48 | 21.61 | 21.52 | 22.50   |
|                              | Subtest 2    | 21.47 | 21.56 | 21.47 | 22.50   |
|                              | Subtest 3    | 20.98 | 21.09 | 21.00 | 22.00   |
|                              | Subtest 4    | 20.99 | 20.91 | 21.03 | 22.00   |
| HSUPA                        | Subtest 1    | 21.44 | 21.59 | 21.49 | 22.50   |
|                              | Subtest 2    | 19.47 | 19.57 | 19.50 | 20.50   |
|                              | Subtest 3    | 20.43 | 20.55 | 20.48 | 21.50   |
|                              | Subtest 4    | 19.45 | 19.58 | 19.51 | 20.50   |
|                              | Subtest 5    | 21.46 | 21.55 | 21.48 | 22.50   |
| DC-HSDPA                     | Subtest 1    | 21.43 | 21.57 | 21.44 | 22.50   |
|                              | Subtest 2    | 21.40 | 21.48 | 21.45 | 22.50   |
|                              | Subtest 3    | 20.89 | 21.05 | 20.96 | 22.00   |
|                              | Subtest 4    | 20.91 | 20.88 | 20.98 | 22.00   |
| HSPA+                        | 16QAM        | 19.52 | 19.55 | 19.51 | 20.50   |



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## 2.3 Conducted Power of LTE

| LTE Band 2 DSI2/3 |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz            | QPSK       | 1       | 0         | 22.02                | 22.34   | 22.14   | 23.50   |
|                   |            | 1       | 2         | 22.15                | 22.19   | 22.33   | 23.50   |
|                   |            | 1       | 5         | 22.23                | 22.17   | 22.25   | 23.50   |
|                   |            | 3       | 0         | 22.18                | 22.15   | 22.26   | 23.50   |
|                   |            | 3       | 2         | 22.21                | 22.18   | 22.24   | 23.50   |
|                   |            | 3       | 3         | 22.19                | 22.18   | 22.21   | 23.50   |
|                   |            | 6       | 0         | 21.33                | 21.20   | 21.36   | 22.50   |
|                   | 16QAM      | 1       | 0         | 21.39                | 20.74   | 20.78   | 22.50   |
|                   |            | 1       | 2         | 22.08                | 21.31   | 21.22   | 22.50   |
|                   |            | 1       | 5         | 21.40                | 21.27   | 21.42   | 22.50   |
|                   |            | 3       | 0         | 21.38                | 21.28   | 21.34   | 22.50   |
|                   |            | 3       | 2         | 21.41                | 21.22   | 21.36   | 22.50   |
|                   |            | 3       | 3         | 21.44                | 21.28   | 21.34   | 22.50   |
|                   |            | 6       | 0         | 20.27                | 20.29   | 20.31   | 21.50   |
|                   | 64QAM      | 1       | 0         | 21.40                | 20.14   | 20.16   | 21.50   |
|                   |            | 1       | 2         | 20.94                | 19.89   | 20.22   | 21.50   |
|                   |            | 1       | 5         | 21.19                | 20.01   | 20.40   | 21.50   |
|                   |            | 3       | 0         | 21.23                | 20.01   | 20.40   | 21.50   |
|                   |            | 3       | 2         | 21.19                | 19.99   | 20.38   | 21.50   |
|                   |            | 3       | 3         | 21.18                | 19.98   | 20.35   | 21.50   |
|                   |            | 6       | 0         | 20.29                | 19.16   | 19.27   | 20.50   |
|                   | 256QAM     | 1       | 0         | 17.38                | 17.20   | 17.52   | 18.50   |
|                   |            | 1       | 2         | 17.31                | 16.90   | 16.94   | 18.50   |
|                   |            | 1       | 5         | 17.19                | 17.15   | 16.69   | 18.50   |
|                   |            | 3       | 0         | 16.86                | 16.96   | 17.32   | 18.50   |
|                   |            | 3       | 2         | 17.33                | 17.28   | 17.37   | 18.50   |
|                   |            | 3       | 3         | 17.35                | 17.22   | 17.32   | 18.50   |
|                   |            | 6       | 0         | 17.10                | 17.21   | 17.32   | 18.50   |
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 3MHz              | QPSK       | 1       | 0         | 22.01                | 22.35   | 22.09   | 23.50   |
|                   |            | 1       | 7         | 22.14                | 22.15   | 22.35   | 23.50   |
|                   |            | 1       | 14        | 22.22                | 22.13   | 22.22   | 23.50   |



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|           |            | 8       | 0         | 21.21   | 21.48   | 21.35   | 22.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 4         | 21.36   | 21.19   | 21.40   | 22.50   |
|           |            | 8       | 7         | 21.30   | 21.16   | 21.47   | 22.50   |
|           |            | 15      | 0         | 21.29   | 21.22   | 21.29   | 22.50   |
|           | 16QAM      | 1       | 0         | 21.44   | 20.75   | 20.82   | 22.50   |
|           |            | 1       | 7         | 22.02   | 21.31   | 21.21   | 22.50   |
|           |            | 1       | 14        | 21.45   | 21.22   | 21.42   | 22.50   |
|           |            | 8       | 0         | 20.38   | 20.23   | 20.30   | 21.50   |
|           |            | 8       | 4         | 20.16   | 20.18   | 20.26   | 21.50   |
|           |            | 8       | 7         | 20.38   | 20.22   | 20.33   | 21.50   |
|           |            | 15      | 0         | 20.33   | 20.30   | 20.34   | 21.50   |
|           | 64QAM      | 1       | 0         | 21.35   | 20.11   | 20.22   | 21.50   |
|           |            | 1       | 7         | 20.86   | 19.87   | 20.16   | 21.50   |
|           |            | 1       | 14        | 21.20   | 19.99   | 20.38   | 21.50   |
|           |            | 8       | 0         | 20.38   | 19.21   | 19.25   | 20.50   |
|           |            | 8       | 4         | 20.07   | 19.15   | 19.28   | 20.50   |
|           |            | 8       | 7         | 20.20   | 19.20   | 19.32   | 20.50   |
|           |            | 15      | 0         | 20.24   | 19.23   | 19.30   | 20.50   |
|           | 256QAM     | 1       | 0         | 17.42   | 17.12   | 17.45   | 18.50   |
|           |            | 1       | 7         | 17.33   | 16.90   | 16.92   | 18.50   |
|           |            | 1       | 14        | 17.19   | 17.22   | 16.65   | 18.50   |
|           |            | 8       | 0         | 16.85   | 16.94   | 17.26   | 18.50   |
|           |            | 8       | 4         | 17.35   | 17.30   | 17.38   | 18.50   |
|           |            | 8       | 7         | 17.34   | 17.21   | 17.30   | 18.50   |
|           |            | 15      | 0         | 17.06   | 17.20   | 17.28   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 21.98   | 22.40   | 22.11   | 23.50   |
|           |            | 1       | 13        | 22.20   | 22.19   | 22.34   | 23.50   |
|           |            | 1       | 24        | 22.16   | 22.15   | 22.25   | 23.50   |
|           |            | 12      | 0         | 21.21   | 21.43   | 21.31   | 22.50   |
|           |            | 12      | 6         | 21.38   | 21.22   | 21.32   | 22.50   |
|           |            | 12      | 13        | 21.26   | 21.24   | 21.40   | 22.50   |
|           |            | 25      | 0         | 21.35   | 21.26   | 21.34   | 22.50   |
|           | 16QAM      | 1       | 0         | 21.46   | 20.75   | 20.78   | 22.50   |
|           |            | 1       | 13        | 22.09   | 21.33   | 21.20   | 22.50   |
|           |            | 1       | 24        | 21.44   | 21.27   | 21.40   | 22.50   |
|           |            | 12      | 0         | 20.38   | 20.22   | 20.35   | 21.50   |
|           |            | 12      | 6         | 20.13   | 20.18   | 20.22   | 21.50   |



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|           |            | 12      | 13        | 20.32   | 20.20   | 20.36   | 21.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 20.32   | 20.27   | 20.28   | 21.50   |
|           | 64QAM      | 1       | 0         | 21.39   | 20.09   | 20.22   | 21.50   |
|           |            | 1       | 13        | 20.89   | 19.84   | 20.14   | 21.50   |
|           |            | 1       | 24        | 21.16   | 20.00   | 20.43   | 21.50   |
|           |            | 12      | 0         | 20.32   | 19.24   | 19.27   | 20.50   |
|           |            | 12      | 6         | 20.05   | 19.19   | 19.27   | 20.50   |
|           |            | 12      | 13        | 20.19   | 19.22   | 19.34   | 20.50   |
|           |            | 25      | 0         | 20.26   | 19.16   | 19.24   | 20.50   |
|           |            | 25      | 0         | 20.26   | 19.16   | 19.24   | 20.50   |
|           | 256QAM     | 1       | 0         | 17.42   | 17.18   | 17.47   | 18.50   |
|           |            | 1       | 13        | 17.26   | 16.86   | 16.95   | 18.50   |
|           |            | 1       | 24        | 17.20   | 17.16   | 16.64   | 18.50   |
|           |            | 12      | 0         | 16.84   | 16.98   | 17.25   | 18.50   |
|           |            | 12      | 6         | 17.33   | 17.27   | 17.35   | 18.50   |
|           |            | 12      | 13        | 17.33   | 17.29   | 17.26   | 18.50   |
|           |            | 25      | 0         | 17.07   | 17.18   | 17.32   | 18.50   |
|           |            | 25      | 0         | 17.07   | 17.18   | 17.32   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 21.94   | 22.35   | 22.14   | 23.50   |
|           |            | 1       | 25        | 22.18   | 22.17   | 22.33   | 23.50   |
|           |            | 1       | 49        | 22.16   | 22.12   | 22.20   | 23.50   |
|           |            | 25      | 0         | 21.19   | 21.44   | 21.36   | 22.50   |
|           |            | 25      | 13        | 21.37   | 21.23   | 21.40   | 22.50   |
|           |            | 25      | 25        | 21.30   | 21.18   | 21.40   | 22.50   |
|           |            | 50      | 0         | 21.34   | 21.20   | 21.36   | 22.50   |
|           |            | 50      | 0         | 21.34   | 21.20   | 21.36   | 22.50   |
|           | 16QAM      | 1       | 0         | 21.45   | 20.72   | 20.76   | 22.50   |
|           |            | 1       | 25        | 22.01   | 21.34   | 21.16   | 22.50   |
|           |            | 1       | 49        | 21.44   | 21.30   | 21.37   | 22.50   |
|           |            | 25      | 0         | 20.34   | 20.24   | 20.32   | 21.50   |
|           |            | 25      | 13        | 20.17   | 20.12   | 20.27   | 21.50   |
|           |            | 25      | 25        | 20.32   | 20.27   | 20.37   | 21.50   |
|           |            | 50      | 0         | 20.30   | 20.24   | 20.32   | 21.50   |
|           |            | 50      | 0         | 20.30   | 20.24   | 20.32   | 21.50   |
|           | 64QAM      | 1       | 0         | 21.36   | 20.10   | 20.19   | 21.50   |
|           |            | 1       | 25        | 20.92   | 19.84   | 20.20   | 21.50   |
|           |            | 1       | 49        | 21.19   | 20.06   | 20.42   | 21.50   |
|           |            | 25      | 0         | 20.31   | 19.22   | 19.27   | 20.50   |
|           |            | 25      | 13        | 20.11   | 19.17   | 19.33   | 20.50   |
|           |            | 25      | 25        | 20.22   | 19.18   | 19.39   | 20.50   |
|           |            | 50      | 0         | 20.22   | 19.23   | 19.32   | 20.50   |
|           |            | 50      | 0         | 20.22   | 19.23   | 19.32   | 20.50   |



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|           |            | 1       | 0         | 17.35   | 17.19   | 17.51   | 18.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 25        | 17.31   | 16.87   | 16.99   | 18.50   |
|           |            | 1       | 49        | 17.20   | 17.20   | 16.68   | 18.50   |
|           | 256QAM     | 25      | 0         | 16.84   | 16.98   | 17.33   | 18.50   |
|           |            | 25      | 13        | 17.33   | 17.25   | 17.39   | 18.50   |
|           |            | 25      | 25        | 17.36   | 17.28   | 17.34   | 18.50   |
|           |            | 50      | 0         | 17.07   | 17.14   | 17.32   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 21.98   | 22.38   | 22.14   | 23.50   |
|           |            | 1       | 38        | 22.15   | 22.20   | 22.35   | 23.50   |
|           |            | 1       | 74        | 22.16   | 22.17   | 22.24   | 23.50   |
|           |            | 36      | 0         | 21.13   | 21.48   | 21.33   | 22.50   |
|           |            | 36      | 18        | 21.33   | 21.21   | 21.38   | 22.50   |
|           |            | 36      | 39        | 21.32   | 21.17   | 21.48   | 22.50   |
|           |            | 75      | 0         | 21.28   | 21.26   | 21.36   | 22.50   |
|           | 16QAM      | 1       | 0         | 21.43   | 20.71   | 20.82   | 22.50   |
|           |            | 1       | 38        | 22.01   | 21.28   | 21.21   | 22.50   |
|           |            | 1       | 74        | 21.39   | 21.22   | 21.36   | 22.50   |
|           |            | 36      | 0         | 20.35   | 20.21   | 20.34   | 21.50   |
|           |            | 36      | 18        | 20.11   | 20.15   | 20.25   | 21.50   |
|           |            | 36      | 39        | 20.39   | 20.20   | 20.39   | 21.50   |
|           |            | 75      | 0         | 20.29   | 20.24   | 20.28   | 21.50   |
|           | 64QAM      | 1       | 0         | 21.33   | 20.16   | 20.18   | 21.50   |
|           |            | 1       | 38        | 20.86   | 19.84   | 20.22   | 21.50   |
|           |            | 1       | 74        | 21.18   | 20.06   | 20.42   | 21.50   |
|           |            | 36      | 0         | 20.36   | 19.28   | 19.29   | 20.50   |
|           |            | 36      | 18        | 20.13   | 19.19   | 19.31   | 20.50   |
|           |            | 36      | 39        | 20.20   | 19.20   | 19.33   | 20.50   |
|           |            | 75      | 0         | 20.24   | 19.16   | 19.24   | 20.50   |
|           | 256QAM     | 1       | 0         | 17.36   | 17.18   | 17.44   | 18.50   |
|           |            | 1       | 38        | 17.34   | 16.85   | 16.94   | 18.50   |
|           |            | 1       | 74        | 17.21   | 17.19   | 16.72   | 18.50   |
|           |            | 36      | 0         | 16.88   | 16.92   | 17.33   | 18.50   |
|           |            | 36      | 18        | 17.39   | 17.28   | 17.32   | 18.50   |
|           |            | 36      | 39        | 17.37   | 17.24   | 17.27   | 18.50   |
|           |            | 75      | 0         | 17.10   | 17.15   | 17.34   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |



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|       |        |     |    |       |       |       |       |
|-------|--------|-----|----|-------|-------|-------|-------|
| 20MHz | QPSK   | 1   | 0  | 22.03 | 22.41 | 22.15 | 23.50 |
|       |        | 1   | 50 | 22.21 | 22.21 | 22.36 | 23.50 |
|       |        | 1   | 99 | 22.25 | 22.21 | 22.27 | 23.50 |
|       |        | 50  | 0  | 21.22 | 21.50 | 21.38 | 22.50 |
|       |        | 50  | 25 | 21.39 | 21.28 | 21.41 | 22.50 |
|       |        | 50  | 50 | 21.35 | 21.25 | 21.49 | 22.50 |
|       |        | 100 | 0  | 21.37 | 21.28 | 21.38 | 22.50 |
|       | 16QAM  | 1   | 0  | 21.47 | 20.76 | 20.84 | 22.50 |
|       |        | 1   | 50 | 22.10 | 21.37 | 21.23 | 22.50 |
|       |        | 1   | 99 | 21.47 | 21.31 | 21.43 | 22.50 |
|       |        | 50  | 0  | 20.42 | 20.26 | 20.39 | 21.50 |
|       |        | 50  | 25 | 20.20 | 20.21 | 20.31 | 21.50 |
|       |        | 50  | 50 | 20.40 | 20.29 | 20.40 | 21.50 |
|       |        | 100 | 0  | 20.34 | 20.32 | 20.35 | 21.50 |
|       | 64QAM  | 1   | 0  | 21.41 | 20.17 | 20.23 | 21.50 |
|       |        | 1   | 50 | 20.95 | 19.93 | 20.23 | 21.50 |
|       |        | 1   | 99 | 21.25 | 20.07 | 20.44 | 21.50 |
|       |        | 50  | 0  | 20.40 | 19.29 | 19.32 | 20.50 |
|       |        | 50  | 25 | 20.14 | 19.22 | 19.34 | 20.50 |
|       |        | 50  | 50 | 20.24 | 19.27 | 19.40 | 20.50 |
|       |        | 100 | 0  | 20.31 | 19.25 | 19.33 | 20.50 |
|       | 256QAM | 1   | 0  | 17.43 | 17.21 | 17.53 | 18.50 |
|       |        | 1   | 50 | 17.35 | 16.94 | 17.00 | 18.50 |
|       |        | 1   | 99 | 17.27 | 17.23 | 16.73 | 18.50 |
|       |        | 50  | 0  | 16.90 | 16.99 | 17.34 | 18.50 |
|       |        | 50  | 25 | 17.40 | 17.31 | 17.40 | 18.50 |
|       |        | 50  | 50 | 17.41 | 17.30 | 17.35 | 18.50 |
|       |        | 100 | 0  | 17.15 | 17.22 | 17.37 | 18.50 |



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| LTE Band 2 DSI4/5 |            |         |           |                      |         |         |         |
|-------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth         | Modulation | RB size | RB offset | Conducted Power(dBm) | 18900   | Channel | Tune up |
|                   |            |         |           |                      |         | 19193   |         |
| 1.4MHz            | QPSK       | 1       | 0         | 20.26                | 19.76   | 20.18   | 21.00   |
|                   |            | 1       | 2         | Channel              | Channel | 20.25   | 21.00   |
|                   |            | 1       | 5         | 20.30                | 19.96   | 20.16   | 21.00   |
|                   |            | 3       | 0         | 20.28                | 19.96   | 20.22   | 21.00   |
|                   |            | 3       | 2         | 20.31                | 19.93   | 20.26   | 21.00   |
|                   |            | 3       | 3         | 20.32                | 19.97   | 20.22   | 21.00   |
|                   |            | 6       | 0         | 20.39                | 20.06   | 20.29   | 21.00   |
|                   | 16QAM      | 1       | 0         | 20.42                | 19.73   | 20.18   | 21.00   |
|                   |            | 1       | 2         | 20.28                | 20.28   | 20.19   | 21.00   |
|                   |            | 1       | 5         | 20.23                | 20.08   | 20.30   | 21.00   |
|                   |            | 3       | 0         | 20.25                | 19.90   | 20.09   | 21.00   |
|                   |            | 3       | 2         | 20.25                | 20.08   | 20.04   | 21.00   |
|                   |            | 3       | 3         | 20.16                | 19.86   | 20.22   | 21.00   |
|                   |            | 6       | 0         | 20.29                | 20.07   | 20.12   | 21.00   |
|                   | 64QAM      | 1       | 0         | 20.07                | 20.05   | 20.07   | 21.00   |
|                   |            | 1       | 2         | 20.16                | 19.90   | 20.19   | 21.00   |
|                   |            | 1       | 5         | 20.40                | 19.86   | 20.37   | 21.00   |
|                   |            | 3       | 0         | 20.04                | 19.71   | 20.25   | 21.00   |
|                   |            | 3       | 2         | 20.19                | 19.93   | 20.12   | 21.00   |
|                   |            | 3       | 3         | 20.13                | 19.99   | 20.19   | 21.00   |
|                   |            | 6       | 0         | 20.11                | 19.93   | 19.66   | 20.50   |
|                   | 256QAM     | 1       | 0         | 17.59                | 17.04   | 17.61   | 18.50   |
|                   |            | 1       | 2         | 17.52                | 17.47   | 17.68   | 18.50   |
|                   |            | 1       | 5         | 17.81                | 17.54   | 17.64   | 18.50   |
|                   |            | 3       | 0         | 17.61                | 17.62   | 17.54   | 18.50   |
|                   |            | 3       | 2         | 17.66                | 17.52   | 17.76   | 18.50   |
|                   |            | 3       | 3         | 17.56                | 17.54   | 17.78   | 18.50   |
|                   |            | 6       | 0         | 17.56                | 17.47   | 17.62   | 18.50   |
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 18615                | 18900   | 19185   |         |
| 3MHz              | QPSK       | 1       | 0         | 20.28                | 19.93   | 20.18   | 21.00   |
|                   |            | 1       | 7         | 20.29                | 19.87   | 20.30   | 21.00   |
|                   |            | 1       | 14        | 20.28                | 19.95   | 20.24   | 21.00   |
|                   |            | 8       | 0         | 20.35                | 20.09   | 20.30   | 21.00   |
|                   |            | 8       | 4         | 20.28                | 20.02   | 20.29   | 21.00   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 7         | 20.38   | 20.10   | 20.28   | 21.00   |
|           |            | 15      | 0         | 20.37   | 20.15   | 20.32   | 21.00   |
|           | 16QAM      | 1       | 0         | 20.07   | 19.99   | 20.18   | 21.00   |
|           |            | 1       | 7         | 20.17   | 20.01   | 20.31   | 21.00   |
|           |            | 1       | 14        | 20.20   | 19.92   | 20.23   | 21.00   |
|           |            | 8       | 0         | 20.15   | 20.02   | 20.18   | 21.00   |
|           |            | 8       | 4         | 20.18   | 20.02   | 20.31   | 21.00   |
|           |            | 8       | 7         | 20.22   | 20.00   | 20.09   | 21.00   |
|           |            | 15      | 0         | 20.29   | 20.03   | 20.15   | 21.00   |
|           |            | 1       | 0         | 20.02   | 19.93   | 20.19   | 21.00   |
|           | 64QAM      | 1       | 7         | 20.22   | 20.07   | 20.39   | 21.00   |
|           |            | 1       | 14        | 20.08   | 19.95   | 19.94   | 21.00   |
|           |            | 8       | 0         | 19.73   | 19.51   | 19.79   | 20.50   |
|           |            | 8       | 4         | 19.76   | 19.53   | 19.76   | 20.50   |
|           |            | 8       | 7         | 19.70   | 19.50   | 19.73   | 20.50   |
|           |            | 15      | 0         | 19.62   | 19.47   | 19.57   | 20.50   |
|           |            | 1       | 0         | 17.87   | 17.45   | 17.62   | 18.50   |
|           |            | 1       | 7         | 17.44   | 17.72   | 17.74   | 18.50   |
|           | 256QAM     | 1       | 14        | 17.79   | 17.55   | 17.66   | 18.50   |
|           |            | 8       | 0         | 17.69   | 17.47   | 17.74   | 18.50   |
|           |            | 8       | 4         | 17.78   | 17.61   | 17.71   | 18.50   |
|           |            | 8       | 7         | 17.64   | 17.57   | 17.73   | 18.50   |
|           |            | 15      | 0         | 17.74   | 17.51   | 17.71   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 20.15   | 20.01   | 20.27   | 21.00   |
|           |            | 1       | 13        | 20.36   | 20.03   | 20.21   | 21.00   |
|           |            | 1       | 24        | 20.31   | 20.02   | 20.18   | 21.00   |
|           |            | 12      | 0         | 20.27   | 20.10   | 20.30   | 21.00   |
|           |            | 12      | 6         | 20.35   | 20.14   | 20.40   | 21.00   |
|           |            | 12      | 13        | 20.24   | 20.13   | 20.24   | 21.00   |
|           |            | 25      | 0         | 20.28   | 20.11   | 20.34   | 21.00   |
|           | 16QAM      | 1       | 0         | 19.94   | 19.89   | 20.18   | 21.00   |
|           |            | 1       | 13        | 20.26   | 20.11   | 20.18   | 21.00   |
|           |            | 1       | 24        | 20.10   | 19.89   | 20.12   | 21.00   |
|           |            | 12      | 0         | 20.12   | 20.00   | 20.19   | 21.00   |
|           |            | 12      | 6         | 20.24   | 20.05   | 20.17   | 21.00   |
|           |            | 12      | 13        | 20.17   | 20.01   | 20.23   | 21.00   |
|           |            | 25      | 0         | 20.20   | 20.00   | 20.23   | 21.00   |



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|           | 64QAM      | 1       | 0         | 20.48   | 19.88   | 20.29   | 21.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 20.28   | 20.08   | 20.35   | 21.00   |
|           |            | 1       | 24        | 20.07   | 19.89   | 20.06   | 21.00   |
|           |            | 12      | 0         | 19.67   | 19.46   | 19.86   | 20.50   |
|           |            | 12      | 6         | 19.33   | 19.41   | 19.51   | 20.50   |
|           |            | 12      | 13        | 19.73   | 19.53   | 19.69   | 20.50   |
|           |            | 25      | 0         | 19.67   | 19.38   | 19.59   | 20.50   |
|           | 256QAM     | 1       | 0         | 17.65   | 17.25   | 17.49   | 18.50   |
|           |            | 1       | 13        | 17.77   | 17.60   | 17.58   | 18.50   |
|           |            | 1       | 24        | 17.63   | 17.21   | 17.68   | 18.50   |
|           |            | 12      | 0         | 17.58   | 17.49   | 17.61   | 18.50   |
|           |            | 12      | 6         | 17.78   | 17.51   | 17.71   | 18.50   |
|           |            | 12      | 13        | 17.64   | 17.56   | 17.69   | 18.50   |
|           |            | 25      | 0         | 17.67   | 17.52   | 17.76   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 20.26   | 20.06   | 20.07   | 21.00   |
|           |            | 1       | 25        | 20.31   | 20.07   | 20.27   | 21.00   |
|           |            | 1       | 49        | 20.15   | 20.04   | 20.20   | 21.00   |
|           |            | 25      | 0         | 20.38   | 20.07   | 20.25   | 21.00   |
|           |            | 25      | 13        | 20.33   | 20.15   | 20.27   | 21.00   |
|           |            | 25      | 25        | 20.19   | 20.15   | 20.29   | 21.00   |
|           |            | 50      | 0         | 20.27   | 20.10   | 20.30   | 21.00   |
|           | 16QAM      | 1       | 0         | 20.04   | 19.68   | 20.19   | 21.00   |
|           |            | 1       | 25        | 20.40   | 20.09   | 20.07   | 21.00   |
|           |            | 1       | 49        | 20.26   | 19.67   | 20.27   | 21.00   |
|           |            | 25      | 0         | 20.15   | 19.96   | 20.10   | 21.00   |
|           |            | 25      | 13        | 20.15   | 20.01   | 19.99   | 21.00   |
|           |            | 25      | 25        | 20.05   | 20.02   | 20.18   | 21.00   |
|           |            | 50      | 0         | 20.16   | 19.96   | 20.19   | 21.00   |
|           | 64QAM      | 1       | 0         | 20.09   | 20.29   | 20.26   | 21.00   |
|           |            | 1       | 25        | 20.28   | 19.77   | 20.11   | 21.00   |
|           |            | 1       | 49        | 20.35   | 19.97   | 20.08   | 21.00   |
|           |            | 25      | 0         | 19.71   | 19.45   | 19.57   | 20.50   |
|           |            | 25      | 13        | 19.65   | 19.46   | 19.49   | 20.50   |
|           |            | 25      | 25        | 19.44   | 19.49   | 19.66   | 20.50   |
|           |            | 50      | 0         | 19.61   | 19.55   | 19.66   | 20.50   |
|           | 256QAM     | 1       | 0         | 17.44   | 17.55   | 17.46   | 18.50   |
|           |            | 1       | 25        | 17.30   | 17.55   | 17.21   | 18.50   |



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|           |            | 1       | 49        | 17.43   | 17.55   | 17.39   | 18.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 17.64   | 17.30   | 17.62   | 18.50   |
|           |            | 25      | 13        | 17.66   | 17.55   | 17.69   | 18.50   |
|           |            | 25      | 25        | 17.64   | 17.54   | 17.72   | 18.50   |
|           |            | 50      | 0         | 17.64   | 17.49   | 17.66   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 20.08   | 19.73   | 19.88   | 21.00   |
|           |            | 1       | 38        | 20.08   | 19.89   | 20.02   | 21.00   |
|           |            | 1       | 74        | 20.28   | 19.90   | 20.01   | 21.00   |
|           |            | 36      | 0         | 20.16   | 19.92   | 20.04   | 21.00   |
|           |            | 36      | 18        | 20.15   | 19.97   | 20.14   | 21.00   |
|           |            | 36      | 39        | 20.03   | 19.95   | 20.19   | 21.00   |
|           |            | 75      | 0         | 20.01   | 19.97   | 20.01   | 21.00   |
|           | 16QAM      | 1       | 0         | 20.31   | 19.78   | 20.00   | 21.00   |
|           |            | 1       | 38        | 19.91   | 19.66   | 20.03   | 21.00   |
|           |            | 1       | 74        | 19.91   | 20.04   | 19.90   | 21.00   |
|           |            | 36      | 0         | 19.97   | 19.76   | 19.81   | 21.00   |
|           |            | 36      | 18        | 20.05   | 19.87   | 20.00   | 21.00   |
|           |            | 36      | 39        | 19.86   | 19.76   | 20.06   | 21.00   |
|           |            | 75      | 0         | 19.95   | 19.85   | 19.85   | 21.00   |
|           | 64QAM      | 1       | 0         | 19.66   | 19.88   | 19.96   | 21.00   |
|           |            | 1       | 38        | 20.14   | 19.81   | 19.97   | 21.00   |
|           |            | 1       | 74        | 20.00   | 19.91   | 19.61   | 21.00   |
|           |            | 36      | 0         | 19.41   | 19.40   | 19.35   | 20.50   |
|           |            | 36      | 18        | 19.40   | 19.35   | 19.54   | 20.50   |
|           |            | 36      | 39        | 19.42   | 19.43   | 19.57   | 20.50   |
|           |            | 75      | 0         | 19.42   | 19.32   | 19.50   | 20.50   |
|           | 256QAM     | 1       | 0         | 17.65   | 17.40   | 16.98   | 18.50   |
|           |            | 1       | 38        | 17.40   | 17.26   | 17.39   | 18.50   |
|           |            | 1       | 74        | 17.49   | 17.52   | 17.33   | 18.50   |
|           |            | 36      | 0         | 17.61   | 17.40   | 17.13   | 18.50   |
|           |            | 36      | 18        | 17.46   | 17.36   | 17.41   | 18.50   |
|           |            | 36      | 39        | 17.44   | 17.32   | 17.52   | 18.50   |
|           |            | 75      | 0         | 17.45   | 17.36   | 17.45   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |
| 20MHz     | QPSK       | 1       | 0         | 20.07   | 19.88   | 19.88   | 21.00   |
|           |            | 1       | 50        | 20.14   | 19.83   | 20.04   | 21.00   |



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|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 1   | 99 | 19.95 | 19.95 | 20.12 | 21.00 |
|  |        | 50  | 0  | 20.20 | 20.01 | 19.70 | 21.00 |
|  |        | 50  | 25 | 20.00 | 20.03 | 20.14 | 21.00 |
|  |        | 50  | 50 | 20.02 | 20.05 | 20.21 | 21.00 |
|  |        | 100 | 0  | 20.03 | 19.95 | 20.11 | 21.00 |
|  | 16QAM  | 1   | 0  | 19.97 | 19.81 | 19.81 | 21.00 |
|  |        | 1   | 50 | 20.01 | 19.86 | 19.91 | 21.00 |
|  |        | 1   | 99 | 19.67 | 19.73 | 19.87 | 21.00 |
|  |        | 50  | 0  | 19.98 | 19.85 | 19.83 | 21.00 |
|  |        | 50  | 25 | 19.95 | 19.84 | 19.91 | 21.00 |
|  |        | 50  | 50 | 19.97 | 19.71 | 19.98 | 21.00 |
|  |        | 100 | 0  | 19.92 | 19.94 | 19.91 | 21.00 |
|  | 64QAM  | 1   | 0  | 20.02 | 20.03 | 20.03 | 21.00 |
|  |        | 1   | 50 | 20.02 | 19.95 | 19.58 | 21.00 |
|  |        | 1   | 99 | 19.75 | 19.77 | 20.05 | 21.00 |
|  |        | 50  | 0  | 19.47 | 19.30 | 19.41 | 20.50 |
|  |        | 50  | 25 | 19.47 | 19.30 | 19.48 | 20.50 |
|  |        | 50  | 50 | 19.34 | 19.28 | 19.38 | 20.50 |
|  |        | 100 | 0  | 19.47 | 19.38 | 19.36 | 20.50 |
|  | 256QAM | 1   | 0  | 17.49 | 17.07 | 17.56 | 18.50 |
|  |        | 1   | 50 | 17.48 | 17.21 | 17.15 | 18.50 |
|  |        | 1   | 99 | 17.57 | 17.45 | 17.46 | 18.50 |
|  |        | 50  | 0  | 17.30 | 17.39 | 17.47 | 18.50 |
|  |        | 50  | 25 | 17.37 | 17.35 | 17.42 | 18.50 |
|  |        | 50  | 50 | 17.45 | 17.42 | 17.57 | 18.50 |
|  |        | 100 | 0  | 17.41 | 17.35 | 17.59 | 18.50 |



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| LTE Band 2 DS18/9/10 |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz               | QPSK       | 1       | 0         | 19.27                | 19.13   | 19.22   | 20.00   |
|                      |            | 1       | 2         | 19.40                | 19.17   | 19.24   | 20.00   |
|                      |            | 1       | 5         | 19.32                | 19.09   | 19.24   | 20.00   |
|                      |            | 3       | 0         | 19.42                | 19.11   | 19.27   | 20.00   |
|                      |            | 3       | 2         | 19.40                | 19.12   | 19.30   | 20.00   |
|                      |            | 3       | 3         | 19.38                | 19.10   | 19.24   | 20.00   |
|                      |            | 6       | 0         | 19.44                | 19.17   | 19.28   | 20.00   |
|                      | 16QAM      | 1       | 0         | 19.05                | 19.15   | 19.23   | 20.00   |
|                      |            | 1       | 2         | 19.70                | 19.38   | 19.45   | 20.00   |
|                      |            | 1       | 5         | 19.64                | 19.05   | 19.28   | 20.00   |
|                      |            | 3       | 0         | 19.46                | 19.18   | 19.38   | 20.00   |
|                      |            | 3       | 2         | 19.26                | 19.15   | 19.37   | 20.00   |
|                      |            | 3       | 3         | 19.43                | 19.24   | 19.30   | 20.00   |
|                      |            | 6       | 0         | 19.46                | 19.05   | 19.30   | 20.00   |
|                      | 64QAM      | 1       | 0         | 19.30                | 19.20   | 19.24   | 20.00   |
|                      |            | 1       | 2         | 19.35                | 19.18   | 19.33   | 20.00   |
|                      |            | 1       | 5         | 19.53                | 19.03   | 19.15   | 20.00   |
|                      |            | 3       | 0         | 19.42                | 19.17   | 19.21   | 20.00   |
|                      |            | 3       | 2         | 19.36                | 18.99   | 19.28   | 20.00   |
|                      |            | 3       | 3         | 19.44                | 19.17   | 19.16   | 20.00   |
|                      |            | 6       | 0         | 19.30                | 19.12   | 19.23   | 20.00   |
|                      | 256QAM     | 1       | 0         | 17.83                | 17.40   | 17.45   | 18.50   |
|                      |            | 1       | 2         | 17.60                | 17.41   | 17.71   | 18.50   |
|                      |            | 1       | 5         | 17.63                | 17.31   | 17.36   | 18.50   |
|                      |            | 3       | 0         | 17.69                | 17.48   | 17.70   | 18.50   |
|                      |            | 3       | 2         | 17.74                | 17.40   | 17.42   | 18.50   |
|                      |            | 3       | 3         | 17.80                | 17.51   | 17.78   | 18.50   |
|                      |            | 6       | 0         | 17.65                | 17.32   | 17.63   | 18.50   |
| Bandwidth            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |            |         |           | 18615                | 18900   | 19185   |         |
| 3MHz                 | QPSK       | 1       | 0         | 19.27                | 19.06   | 19.26   | 20.00   |
|                      |            | 1       | 7         | 19.33                | 19.07   | 19.29   | 20.00   |
|                      |            | 1       | 14        | 19.30                | 19.09   | 19.19   | 20.00   |
|                      |            | 8       | 0         | 19.37                | 19.14   | 19.30   | 20.00   |
|                      |            | 8       | 4         | 19.42                | 19.14   | 19.34   | 20.00   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 7         | 19.32   | 19.11   | 19.28   | 20.00   |
|           |            | 15      | 0         | 19.50   | 19.10   | 19.41   | 20.00   |
|           | 16QAM      | 1       | 0         | 19.15   | 19.20   | 19.21   | 20.00   |
|           |            | 1       | 7         | 19.41   | 19.22   | 19.36   | 20.00   |
|           |            | 1       | 14        | 19.40   | 19.09   | 19.15   | 20.00   |
|           |            | 8       | 0         | 19.44   | 19.11   | 19.36   | 20.00   |
|           |            | 8       | 4         | 19.43   | 19.16   | 18.92   | 20.00   |
|           |            | 8       | 7         | 19.24   | 19.07   | 19.32   | 20.00   |
|           |            | 15      | 0         | 19.44   | 19.15   | 19.36   | 20.00   |
|           |            | 1       | 0         | 19.18   | 18.79   | 19.14   | 20.00   |
|           | 64QAM      | 1       | 7         | 19.29   | 18.92   | 19.11   | 20.00   |
|           |            | 1       | 14        | 19.30   | 19.04   | 19.14   | 20.00   |
|           |            | 8       | 0         | 19.18   | 19.01   | 19.23   | 20.00   |
|           |            | 8       | 4         | 19.27   | 19.03   | 19.22   | 20.00   |
|           |            | 8       | 7         | 19.24   | 19.08   | 19.16   | 20.00   |
|           |            | 15      | 0         | 19.26   | 19.04   | 19.24   | 20.00   |
|           |            | 1       | 0         | 17.54   | 17.40   | 17.60   | 18.50   |
|           | 256QAM     | 1       | 7         | 17.66   | 17.56   | 17.47   | 18.50   |
|           |            | 1       | 14        | 17.67   | 17.80   | 17.76   | 18.50   |
|           |            | 8       | 0         | 17.78   | 17.49   | 17.76   | 18.50   |
|           |            | 8       | 4         | 17.70   | 17.60   | 17.78   | 18.50   |
|           |            | 8       | 7         | 17.71   | 17.60   | 17.73   | 18.50   |
|           |            | 15      | 0         | 17.71   | 17.50   | 17.83   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 19.03   | 19.06   | 19.11   | 20.00   |
|           |            | 1       | 13        | 19.30   | 19.16   | 19.06   | 20.00   |
|           |            | 1       | 24        | 19.25   | 19.08   | 19.05   | 20.00   |
|           |            | 12      | 0         | 19.30   | 19.11   | 19.01   | 20.00   |
|           |            | 12      | 6         | 19.37   | 19.11   | 19.12   | 20.00   |
|           |            | 12      | 13        | 19.30   | 19.20   | 18.98   | 20.00   |
|           |            | 25      | 0         | 19.33   | 19.08   | 19.06   | 20.00   |
|           | 16QAM      | 1       | 0         | 19.39   | 19.06   | 19.30   | 20.00   |
|           |            | 1       | 13        | 19.45   | 19.10   | 19.23   | 20.00   |
|           |            | 1       | 24        | 19.39   | 19.06   | 19.33   | 20.00   |
|           |            | 12      | 0         | 19.27   | 19.14   | 19.19   | 20.00   |
|           |            | 12      | 6         | 19.34   | 19.19   | 19.25   | 20.00   |
|           |            | 12      | 13        | 19.33   | 19.19   | 19.17   | 20.00   |
|           |            | 25      | 0         | 19.28   | 19.16   | 19.25   | 20.00   |



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|           | 64QAM      | 1       | 0         | 19.32   | 18.85   | 19.31   | 20.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 19.29   | 19.18   | 19.19   | 20.00   |
|           |            | 1       | 24        | 18.90   | 18.97   | 19.62   | 20.00   |
|           |            | 12      | 0         | 19.20   | 19.03   | 19.22   | 20.00   |
|           |            | 12      | 6         | 19.27   | 19.09   | 19.25   | 20.00   |
|           |            | 12      | 13        | 19.29   | 19.02   | 19.27   | 20.00   |
|           |            | 25      | 0         | 19.26   | 19.00   | 19.17   | 20.00   |
|           | 256QAM     | 1       | 0         | 17.16   | 17.54   | 17.85   | 18.50   |
|           |            | 1       | 13        | 17.73   | 17.64   | 17.78   | 18.50   |
|           |            | 1       | 24        | 17.62   | 17.57   | 17.72   | 18.50   |
|           |            | 12      | 0         | 17.59   | 17.58   | 17.72   | 18.50   |
|           |            | 12      | 6         | 17.72   | 17.56   | 17.70   | 18.50   |
|           |            | 12      | 13        | 17.74   | 17.55   | 17.63   | 18.50   |
|           |            | 25      | 0         | 17.79   | 17.51   | 17.74   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 19.26   | 19.08   | 19.10   | 20.00   |
|           |            | 1       | 25        | 19.32   | 19.10   | 19.28   | 20.00   |
|           |            | 1       | 49        | 19.30   | 19.07   | 19.25   | 20.00   |
|           |            | 25      | 0         | 19.41   | 19.10   | 19.30   | 20.00   |
|           |            | 25      | 13        | 19.37   | 19.19   | 19.22   | 20.00   |
|           |            | 25      | 25        | 19.32   | 19.12   | 19.33   | 20.00   |
|           |            | 50      | 0         | 19.32   | 19.15   | 19.11   | 20.00   |
|           | 16QAM      | 1       | 0         | 19.29   | 19.16   | 19.37   | 20.00   |
|           |            | 1       | 25        | 19.29   | 19.04   | 19.16   | 20.00   |
|           |            | 1       | 49        | 19.03   | 19.03   | 19.40   | 20.00   |
|           |            | 25      | 0         | 19.41   | 19.19   | 19.20   | 20.00   |
|           |            | 25      | 13        | 19.30   | 19.16   | 19.26   | 20.00   |
|           |            | 25      | 25        | 19.30   | 19.17   | 19.31   | 20.00   |
|           |            | 50      | 0         | 19.29   | 19.12   | 18.99   | 20.00   |
|           | 64QAM      | 1       | 0         | 19.05   | 19.09   | 19.15   | 20.00   |
|           |            | 1       | 25        | 19.07   | 19.16   | 19.22   | 20.00   |
|           |            | 1       | 49        | 19.33   | 19.09   | 19.28   | 20.00   |
|           |            | 25      | 0         | 19.16   | 19.06   | 19.05   | 20.00   |
|           |            | 25      | 13        | 19.24   | 19.04   | 19.11   | 20.00   |
|           |            | 25      | 25        | 19.19   | 19.12   | 19.17   | 20.00   |
|           |            | 50      | 0         | 19.14   | 19.06   | 19.10   | 20.00   |
|           | 256QAM     | 1       | 0         | 17.66   | 17.60   | 17.62   | 18.50   |
|           |            | 1       | 25        | 17.68   | 17.59   | 17.59   | 18.50   |



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|           |            | 1       | 49        | 17.61   | 17.26   | 17.68   | 18.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 17.69   | 17.33   | 17.37   | 18.50   |
|           |            | 25      | 13        | 17.67   | 17.52   | 17.67   | 18.50   |
|           |            | 25      | 25        | 17.74   | 17.55   | 17.68   | 18.50   |
|           |            | 50      | 0         | 17.71   | 17.59   | 17.62   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 19.12   | 18.77   | 18.97   | 20.00   |
|           |            | 1       | 38        | 19.16   | 18.81   | 19.02   | 20.00   |
|           |            | 1       | 74        | 19.15   | 18.95   | 18.99   | 20.00   |
|           |            | 36      | 0         | 19.17   | 18.94   | 19.05   | 20.00   |
|           |            | 36      | 18        | 19.16   | 19.01   | 19.15   | 20.00   |
|           |            | 36      | 39        | 19.11   | 18.97   | 19.20   | 20.00   |
|           |            | 75      | 0         | 19.13   | 19.00   | 19.04   | 20.00   |
|           | 16QAM      | 1       | 0         | 19.39   | 18.97   | 19.01   | 20.00   |
|           |            | 1       | 38        | 19.09   | 18.82   | 19.12   | 20.00   |
|           |            | 1       | 74        | 18.77   | 19.05   | 19.06   | 20.00   |
|           |            | 36      | 0         | 19.23   | 19.00   | 18.98   | 20.00   |
|           |            | 36      | 18        | 19.24   | 19.01   | 19.10   | 20.00   |
|           |            | 36      | 39        | 19.16   | 19.04   | 19.05   | 20.00   |
|           |            | 75      | 0         | 19.09   | 18.95   | 18.98   | 20.00   |
|           | 64QAM      | 1       | 0         | 19.04   | 18.68   | 18.95   | 20.00   |
|           |            | 1       | 38        | 18.80   | 19.04   | 19.01   | 20.00   |
|           |            | 1       | 74        | 18.95   | 18.85   | 19.20   | 20.00   |
|           |            | 36      | 0         | 19.01   | 18.82   | 18.88   | 20.00   |
|           |            | 36      | 18        | 19.03   | 18.86   | 18.96   | 20.00   |
|           |            | 36      | 39        | 18.94   | 18.79   | 19.03   | 20.00   |
|           |            | 75      | 0         | 18.86   | 18.83   | 18.95   | 20.00   |
|           | 256QAM     | 1       | 0         | 17.41   | 17.26   | 17.36   | 18.50   |
|           |            | 1       | 38        | 17.48   | 17.32   | 17.32   | 18.50   |
|           |            | 1       | 74        | 17.40   | 17.81   | 17.48   | 18.50   |
|           |            | 36      | 0         | 17.36   | 17.37   | 17.49   | 18.50   |
|           |            | 36      | 18        | 17.52   | 17.34   | 17.50   | 18.50   |
|           |            | 36      | 39        | 17.49   | 17.32   | 17.57   | 18.50   |
|           |            | 75      | 0         | 17.46   | 17.42   | 17.50   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |
| 20MHz     | QPSK       | 1       | 0         | 19.05   | 18.91   | 18.86   | 20.00   |
|           |            | 1       | 50        | 19.08   | 18.66   | 18.78   | 20.00   |



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|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 1   | 99 | 18.92 | 18.87 | 19.19 | 20.00 |
|  |        | 50  | 0  | 19.20 | 19.01 | 19.02 | 20.00 |
|  |        | 50  | 25 | 19.16 | 18.96 | 19.06 | 20.00 |
|  |        | 50  | 50 | 19.09 | 18.97 | 19.22 | 20.00 |
|  |        | 100 | 0  | 19.13 | 18.97 | 19.03 | 20.00 |
|  | 16QAM  | 1   | 0  | 19.00 | 19.01 | 18.88 | 20.00 |
|  |        | 1   | 50 | 19.34 | 18.57 | 18.75 | 20.00 |
|  |        | 1   | 99 | 19.19 | 19.01 | 18.65 | 20.00 |
|  |        | 50  | 0  | 19.34 | 19.00 | 18.94 | 20.00 |
|  |        | 50  | 25 | 19.06 | 19.04 | 19.02 | 20.00 |
|  |        | 50  | 50 | 19.07 | 18.93 | 19.19 | 20.00 |
|  |        | 100 | 0  | 19.10 | 18.99 | 18.99 | 20.00 |
|  | 64QAM  | 1   | 0  | 18.89 | 18.84 | 18.93 | 20.00 |
|  |        | 1   | 50 | 18.86 | 18.84 | 19.05 | 20.00 |
|  |        | 1   | 99 | 18.92 | 18.83 | 18.91 | 20.00 |
|  |        | 50  | 0  | 19.04 | 18.88 | 18.94 | 20.00 |
|  |        | 50  | 25 | 18.94 | 18.92 | 18.92 | 20.00 |
|  |        | 50  | 50 | 18.92 | 18.89 | 19.02 | 20.00 |
|  |        | 100 | 0  | 18.92 | 18.80 | 18.97 | 20.00 |
|  | 256QAM | 1   | 0  | 17.31 | 17.45 | 17.62 | 18.50 |
|  |        | 1   | 50 | 17.37 | 17.28 | 17.10 | 18.50 |
|  |        | 1   | 99 | 17.54 | 17.37 | 17.50 | 18.50 |
|  |        | 50  | 0  | 17.15 | 17.07 | 17.43 | 18.50 |
|  |        | 50  | 25 | 17.52 | 17.39 | 17.49 | 18.50 |
|  |        | 50  | 50 | 17.41 | 17.36 | 17.53 | 18.50 |
|  |        | 100 | 0  | 17.47 | 17.40 | 17.46 | 18.50 |



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| LTE Band 4 DSI2/3 |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz            | QPSK       | 1       | 0         | 22.35                | 22.62   | 22.52   | 24.00   |
|                   |            | 1       | 2         | 22.66                | 22.67   | 22.58   | 24.00   |
|                   |            | 1       | 5         | 22.78                | 22.70   | 22.57   | 24.00   |
|                   |            | 3       | 0         | 22.80                | 22.62   | 22.53   | 24.00   |
|                   |            | 3       | 2         | 22.77                | 22.64   | 22.57   | 24.00   |
|                   |            | 3       | 3         | 22.84                | 22.67   | 22.51   | 24.00   |
|                   |            | 6       | 0         | 21.77                | 21.77   | 21.72   | 23.00   |
|                   | 16QAM      | 1       | 0         | 21.48                | 21.79   | 21.97   | 23.00   |
|                   |            | 1       | 2         | 21.74                | 21.46   | 21.65   | 23.00   |
|                   |            | 1       | 5         | 21.90                | 21.85   | 21.74   | 23.00   |
|                   |            | 3       | 0         | 21.87                | 21.86   | 21.71   | 23.00   |
|                   |            | 3       | 2         | 21.89                | 21.88   | 21.71   | 23.00   |
|                   |            | 3       | 3         | 21.87                | 21.84   | 21.69   | 23.00   |
|                   |            | 6       | 0         | 20.76                | 20.76   | 20.73   | 22.00   |
|                   | 64QAM      | 1       | 0         | 20.90                | 20.64   | 20.43   | 22.00   |
|                   |            | 1       | 2         | 20.88                | 20.40   | 20.76   | 22.00   |
|                   |            | 1       | 5         | 20.93                | 20.83   | 20.78   | 22.00   |
|                   |            | 3       | 0         | 20.90                | 20.78   | 20.70   | 22.00   |
|                   |            | 3       | 2         | 20.88                | 20.83   | 20.77   | 22.00   |
|                   |            | 3       | 3         | 20.94                | 20.84   | 20.74   | 22.00   |
|                   |            | 6       | 0         | 19.81                | 19.79   | 19.71   | 21.00   |
|                   | 256QAM     | 1       | 0         | 17.72                | 17.77   | 17.70   | 19.00   |
|                   |            | 1       | 2         | 17.68                | 17.68   | 17.61   | 19.00   |
|                   |            | 1       | 5         | 18.40                | 17.91   | 17.75   | 19.00   |
|                   |            | 3       | 0         | 17.57                | 17.69   | 17.28   | 19.00   |
|                   |            | 3       | 2         | 17.69                | 17.76   | 17.75   | 19.00   |
|                   |            | 3       | 3         | 17.78                | 17.73   | 17.79   | 19.00   |
|                   |            | 6       | 0         | 17.69                | 17.81   | 17.73   | 19.00   |
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 19965                | 20175   | 20385   |         |
| 3MHz              | QPSK       | 1       | 0         | 22.30                | 22.62   | 22.54   | 24.00   |
|                   |            | 1       | 7         | 22.74                | 22.62   | 22.57   | 24.00   |
|                   |            | 1       | 14        | 22.78                | 22.67   | 22.58   | 24.00   |
|                   |            | 8       | 0         | 21.83                | 21.86   | 21.71   | 23.00   |
|                   |            | 8       | 4         | 21.77                | 21.84   | 21.73   | 23.00   |



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|           |            | 8       | 7         | 21.80   | 21.73   | 21.74   | 23.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 15      | 0         | 21.77   | 21.70   | 21.72   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.49   | 21.78   | 21.97   | 23.00   |
|           |            | 1       | 7         | 21.77   | 21.47   | 21.65   | 23.00   |
|           |            | 1       | 14        | 21.89   | 21.83   | 21.76   | 23.00   |
|           |            | 8       | 0         | 20.88   | 20.78   | 20.66   | 22.00   |
|           |            | 8       | 4         | 20.88   | 20.81   | 20.70   | 22.00   |
|           |            | 8       | 7         | 20.75   | 20.74   | 20.84   | 22.00   |
|           |            | 15      | 0         | 20.74   | 20.79   | 20.73   | 22.00   |
|           |            | 1       | 0         | 20.84   | 20.69   | 20.46   | 22.00   |
|           | 64QAM      | 1       | 7         | 20.89   | 20.39   | 20.73   | 22.00   |
|           |            | 1       | 14        | 20.88   | 20.79   | 20.71   | 22.00   |
|           |            | 8       | 0         | 19.84   | 19.84   | 19.73   | 21.00   |
|           |            | 8       | 4         | 19.69   | 19.81   | 19.67   | 21.00   |
|           |            | 8       | 7         | 19.80   | 19.72   | 19.78   | 21.00   |
|           |            | 15      | 0         | 19.80   | 19.82   | 19.71   | 21.00   |
|           |            | 1       | 0         | 17.72   | 17.75   | 17.67   | 19.00   |
|           | 256QAM     | 1       | 7         | 17.67   | 17.67   | 17.65   | 19.00   |
|           |            | 1       | 14        | 18.37   | 17.94   | 17.70   | 19.00   |
|           |            | 8       | 0         | 17.52   | 17.68   | 17.33   | 19.00   |
|           |            | 8       | 4         | 17.75   | 17.75   | 17.75   | 19.00   |
|           |            | 8       | 7         | 17.79   | 17.69   | 17.81   | 19.00   |
|           |            | 15      | 0         | 17.76   | 17.83   | 17.73   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 22.31   | 22.63   | 22.52   | 24.00   |
|           |            | 1       | 13        | 22.69   | 22.70   | 22.56   | 24.00   |
|           |            | 1       | 24        | 22.79   | 22.62   | 22.57   | 24.00   |
|           |            | 12      | 0         | 21.84   | 21.86   | 21.70   | 23.00   |
|           |            | 12      | 6         | 21.78   | 21.88   | 21.72   | 23.00   |
|           |            | 12      | 13        | 21.75   | 21.72   | 21.75   | 23.00   |
|           |            | 25      | 0         | 21.79   | 21.77   | 21.75   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.47   | 21.77   | 21.93   | 23.00   |
|           |            | 1       | 13        | 21.77   | 21.48   | 21.60   | 23.00   |
|           |            | 1       | 24        | 21.84   | 21.81   | 21.70   | 23.00   |
|           |            | 12      | 0         | 20.85   | 20.77   | 20.61   | 22.00   |
|           |            | 12      | 6         | 20.86   | 20.78   | 20.71   | 22.00   |
|           |            | 12      | 13        | 20.77   | 20.72   | 20.79   | 22.00   |
|           |            | 25      | 0         | 20.72   | 20.77   | 20.73   | 22.00   |



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|           | 64QAM      | 1       | 0         | 20.83   | 20.70   | 20.47   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 20.85   | 20.44   | 20.70   | 22.00   |
|           |            | 1       | 24        | 20.86   | 20.82   | 20.73   | 22.00   |
|           |            | 12      | 0         | 19.76   | 19.80   | 19.70   | 21.00   |
|           |            | 12      | 6         | 19.70   | 19.82   | 19.65   | 21.00   |
|           |            | 12      | 13        | 19.81   | 19.75   | 19.84   | 21.00   |
|           |            | 25      | 0         | 19.86   | 19.84   | 19.75   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.69   | 17.77   | 17.69   | 19.00   |
|           |            | 1       | 13        | 17.67   | 17.71   | 17.59   | 19.00   |
|           |            | 1       | 24        | 18.35   | 17.92   | 17.72   | 19.00   |
|           |            | 12      | 0         | 17.54   | 17.70   | 17.31   | 19.00   |
|           |            | 12      | 6         | 17.73   | 17.72   | 17.76   | 19.00   |
|           |            | 12      | 13        | 17.76   | 17.75   | 17.83   | 19.00   |
|           |            | 25      | 0         | 17.69   | 17.78   | 17.73   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |
| 10MHz     | QPSK       | 1       | 0         | 22.32   | 22.67   | 22.53   | 24.00   |
|           |            | 1       | 25        | 22.74   | 22.70   | 22.57   | 24.00   |
|           |            | 1       | 49        | 22.83   | 22.62   | 22.50   | 24.00   |
|           |            | 25      | 0         | 21.82   | 21.86   | 21.74   | 23.00   |
|           |            | 25      | 13        | 21.78   | 21.83   | 21.75   | 23.00   |
|           |            | 25      | 25        | 21.75   | 21.75   | 21.76   | 23.00   |
|           |            | 50      | 0         | 21.80   | 21.73   | 21.78   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.50   | 21.74   | 21.90   | 23.00   |
|           |            | 1       | 25        | 21.80   | 21.45   | 21.62   | 23.00   |
|           |            | 1       | 49        | 21.88   | 21.86   | 21.73   | 23.00   |
|           |            | 25      | 0         | 20.83   | 20.76   | 20.68   | 22.00   |
|           |            | 25      | 13        | 20.87   | 20.78   | 20.68   | 22.00   |
|           |            | 25      | 25        | 20.76   | 20.68   | 20.80   | 22.00   |
|           |            | 50      | 0         | 20.72   | 20.75   | 20.70   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.88   | 20.70   | 20.41   | 22.00   |
|           |            | 1       | 25        | 20.84   | 20.44   | 20.74   | 22.00   |
|           |            | 1       | 49        | 20.90   | 20.77   | 20.75   | 22.00   |
|           |            | 25      | 0         | 19.84   | 19.79   | 19.71   | 21.00   |
|           |            | 25      | 13        | 19.67   | 19.87   | 19.68   | 21.00   |
|           |            | 25      | 25        | 19.86   | 19.74   | 19.79   | 21.00   |
|           |            | 50      | 0         | 19.80   | 19.84   | 19.68   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.73   | 17.76   | 17.68   | 19.00   |
|           |            | 1       | 25        | 17.71   | 17.72   | 17.64   | 19.00   |



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|           |            | 1       | 49        | 18.35   | 17.94   | 17.72   | 19.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 17.52   | 17.70   | 17.35   | 19.00   |
|           |            | 25      | 13        | 17.74   | 17.75   | 17.74   | 19.00   |
|           |            | 25      | 25        | 17.79   | 17.73   | 17.81   | 19.00   |
|           |            | 50      | 0         | 17.69   | 17.81   | 17.68   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20025   | 20175   | 20325   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.28   | 22.60   | 22.50   | 24.00   |
|           |            | 1       | 38        | 22.69   | 22.68   | 22.55   | 24.00   |
|           |            | 1       | 74        | 22.81   | 22.70   | 22.50   | 24.00   |
|           |            | 36      | 0         | 21.82   | 21.86   | 21.70   | 23.00   |
|           |            | 36      | 18        | 21.80   | 21.82   | 21.73   | 23.00   |
|           |            | 36      | 39        | 21.77   | 21.80   | 21.72   | 23.00   |
|           |            | 75      | 0         | 21.83   | 21.77   | 21.78   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.51   | 21.76   | 21.96   | 23.00   |
|           |            | 1       | 38        | 21.80   | 21.49   | 21.58   | 23.00   |
|           |            | 1       | 74        | 21.91   | 21.87   | 21.74   | 23.00   |
|           |            | 36      | 0         | 20.85   | 20.81   | 20.64   | 22.00   |
|           |            | 36      | 18        | 20.87   | 20.80   | 20.72   | 22.00   |
|           |            | 36      | 39        | 20.76   | 20.74   | 20.80   | 22.00   |
|           |            | 75      | 0         | 20.70   | 20.78   | 20.71   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.86   | 20.66   | 20.40   | 22.00   |
|           |            | 1       | 38        | 20.92   | 20.46   | 20.75   | 22.00   |
|           |            | 1       | 74        | 20.87   | 20.82   | 20.70   | 22.00   |
|           |            | 36      | 0         | 19.76   | 19.83   | 19.68   | 21.00   |
|           |            | 36      | 18        | 19.71   | 19.80   | 19.68   | 21.00   |
|           |            | 36      | 39        | 19.82   | 19.75   | 19.81   | 21.00   |
|           |            | 75      | 0         | 19.86   | 19.76   | 19.69   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.75   | 17.72   | 17.63   | 19.00   |
|           |            | 1       | 38        | 17.65   | 17.70   | 17.60   | 19.00   |
|           |            | 1       | 74        | 18.39   | 17.93   | 17.71   | 19.00   |
|           |            | 36      | 0         | 17.55   | 17.74   | 17.33   | 19.00   |
|           |            | 36      | 18        | 17.68   | 17.77   | 17.78   | 19.00   |
|           |            | 36      | 39        | 17.75   | 17.73   | 17.81   | 19.00   |
|           |            | 75      | 0         | 17.69   | 17.75   | 17.68   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20050   | 20175   | 20300   |         |
| 20MHz     | QPSK       | 1       | 0         | 22.36   | 22.69   | 22.59   | 24.00   |
|           |            | 1       | 50        | 22.75   | 22.71   | 22.63   | 24.00   |



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|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 1   | 99 | 22.86 | 22.71 | 22.59 | 24.00 |
|  |        | 50  | 0  | 21.85 | 21.87 | 21.76 | 23.00 |
|  |        | 50  | 25 | 21.82 | 21.91 | 21.80 | 23.00 |
|  |        | 50  | 50 | 21.84 | 21.81 | 21.81 | 23.00 |
|  |        | 100 | 0  | 21.86 | 21.78 | 21.81 | 23.00 |
|  | 16QAM  | 1   | 0  | 21.56 | 21.82 | 21.98 | 23.00 |
|  |        | 1   | 50 | 21.81 | 21.52 | 21.67 | 23.00 |
|  |        | 1   | 99 | 21.93 | 21.89 | 21.77 | 23.00 |
|  |        | 50  | 0  | 20.90 | 20.82 | 20.70 | 22.00 |
|  |        | 50  | 25 | 20.92 | 20.84 | 20.76 | 22.00 |
|  |        | 50  | 50 | 20.84 | 20.76 | 20.88 | 22.00 |
|  |        | 100 | 0  | 20.78 | 20.83 | 20.79 | 22.00 |
|  | 64QAM  | 1   | 0  | 20.92 | 20.72 | 20.49 | 22.00 |
|  |        | 1   | 50 | 20.93 | 20.47 | 20.77 | 22.00 |
|  |        | 1   | 99 | 20.95 | 20.86 | 20.79 | 22.00 |
|  |        | 50  | 0  | 19.85 | 19.86 | 19.77 | 21.00 |
|  |        | 50  | 25 | 19.76 | 19.89 | 19.73 | 21.00 |
|  |        | 50  | 50 | 19.88 | 19.79 | 19.85 | 21.00 |
|  |        | 100 | 0  | 19.88 | 19.85 | 19.77 | 21.00 |
|  | 256QAM | 1   | 0  | 17.77 | 17.79 | 17.71 | 19.00 |
|  |        | 1   | 50 | 17.72 | 17.73 | 17.68 | 19.00 |
|  |        | 1   | 99 | 18.43 | 18.00 | 17.79 | 19.00 |
|  |        | 50  | 0  | 17.58 | 17.76 | 17.37 | 19.00 |
|  |        | 50  | 25 | 17.76 | 17.81 | 17.81 | 19.00 |
|  |        | 50  | 50 | 17.81 | 17.78 | 17.84 | 19.00 |
|  |        | 100 | 0  | 17.77 | 17.84 | 17.76 | 19.00 |



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| LTE Band 4 DS14/5 |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz            | QPSK       | 1       | 0         | 20.58                | 20.63   | 20.67   | 22.00   |
|                   |            | 1       | 2         | 20.69                | 20.62   | 20.63   | 22.00   |
|                   |            | 1       | 5         | 20.70                | 20.72   | 20.76   | 22.00   |
|                   |            | 3       | 0         | 20.81                | 20.56   | 20.74   | 22.00   |
|                   |            | 3       | 2         | 20.76                | 20.85   | 20.71   | 22.00   |
|                   |            | 3       | 3         | 20.82                | 20.72   | 20.75   | 22.00   |
|                   |            | 6       | 0         | 20.74                | 20.79   | 20.71   | 22.00   |
|                   | 16QAM      | 1       | 0         | 20.62                | 20.64   | 20.54   | 22.00   |
|                   |            | 1       | 2         | 20.84                | 20.72   | 20.72   | 22.00   |
|                   |            | 1       | 5         | 20.74                | 20.75   | 20.81   | 22.00   |
|                   |            | 3       | 0         | 20.76                | 20.79   | 20.65   | 22.00   |
|                   |            | 3       | 2         | 20.66                | 20.86   | 20.77   | 22.00   |
|                   |            | 3       | 3         | 20.85                | 20.89   | 20.78   | 22.00   |
|                   |            | 6       | 0         | 20.76                | 20.81   | 20.76   | 22.00   |
|                   | 64QAM      | 1       | 0         | 20.55                | 20.51   | 20.73   | 22.00   |
|                   |            | 1       | 2         | 20.78                | 20.70   | 20.62   | 22.00   |
|                   |            | 1       | 5         | 20.91                | 20.78   | 20.75   | 22.00   |
|                   |            | 3       | 0         | 20.85                | 20.84   | 20.77   | 22.00   |
|                   |            | 3       | 2         | 20.90                | 20.81   | 20.78   | 22.00   |
|                   |            | 3       | 3         | 20.91                | 20.82   | 20.76   | 22.00   |
|                   |            | 6       | 0         | 19.78                | 19.79   | 19.72   | 21.00   |
|                   | 256QAM     | 1       | 0         | 17.72                | 17.60   | 17.75   | 19.00   |
|                   |            | 1       | 2         | 17.76                | 17.61   | 17.45   | 19.00   |
|                   |            | 1       | 5         | 18.29                | 17.85   | 17.54   | 19.00   |
|                   |            | 3       | 0         | 17.77                | 17.61   | 17.62   | 19.00   |
|                   |            | 3       | 2         | 17.70                | 17.73   | 17.81   | 19.00   |
|                   |            | 3       | 3         | 17.86                | 17.79   | 17.84   | 19.00   |
|                   |            | 6       | 0         | 17.77                | 17.75   | 17.64   | 19.00   |
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 19965                | 20175   | 20385   |         |
| 3MHz              | QPSK       | 1       | 0         | 20.62                | 20.64   | 20.67   | 22.00   |
|                   |            | 1       | 7         | 20.63                | 20.58   | 20.61   | 22.00   |
|                   |            | 1       | 14        | 20.69                | 20.77   | 20.79   | 22.00   |
|                   |            | 8       | 0         | 20.83                | 20.56   | 20.78   | 22.00   |
|                   |            | 8       | 4         | 20.80                | 20.84   | 20.66   | 22.00   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 7         | 20.80   | 20.71   | 20.77   | 22.00   |
|           |            | 15      | 0         | 20.76   | 20.76   | 20.68   | 22.00   |
|           | 16QAM      | 1       | 0         | 20.66   | 20.63   | 20.54   | 22.00   |
|           |            | 1       | 7         | 20.79   | 20.72   | 20.67   | 22.00   |
|           |            | 1       | 14        | 20.76   | 20.75   | 20.83   | 22.00   |
|           |            | 8       | 0         | 20.72   | 20.85   | 20.70   | 22.00   |
|           |            | 8       | 4         | 20.70   | 20.84   | 20.78   | 22.00   |
|           |            | 8       | 7         | 20.83   | 20.88   | 20.75   | 22.00   |
|           |            | 15      | 0         | 20.79   | 20.81   | 20.76   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.50   | 20.54   | 20.72   | 22.00   |
|           |            | 1       | 7         | 20.79   | 20.67   | 20.65   | 22.00   |
|           |            | 1       | 14        | 20.87   | 20.79   | 20.78   | 22.00   |
|           |            | 8       | 0         | 19.83   | 19.78   | 19.58   | 21.00   |
|           |            | 8       | 4         | 19.81   | 19.68   | 19.69   | 21.00   |
|           |            | 8       | 7         | 19.76   | 19.74   | 19.79   | 21.00   |
|           |            | 15      | 0         | 19.80   | 19.78   | 19.74   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.77   | 17.65   | 17.74   | 19.00   |
|           |            | 1       | 7         | 17.75   | 17.61   | 17.42   | 19.00   |
|           |            | 1       | 14        | 18.35   | 17.83   | 17.53   | 19.00   |
|           |            | 8       | 0         | 17.72   | 17.62   | 17.63   | 19.00   |
|           |            | 8       | 4         | 17.71   | 17.76   | 17.76   | 19.00   |
|           |            | 8       | 7         | 17.87   | 17.80   | 17.79   | 19.00   |
|           |            | 15      | 0         | 17.74   | 17.80   | 17.66   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 20.63   | 20.68   | 20.64   | 22.00   |
|           |            | 1       | 13        | 20.69   | 20.57   | 20.67   | 22.00   |
|           |            | 1       | 24        | 20.68   | 20.72   | 20.80   | 22.00   |
|           |            | 12      | 0         | 20.76   | 20.59   | 20.72   | 22.00   |
|           |            | 12      | 6         | 20.82   | 20.80   | 20.68   | 22.00   |
|           |            | 12      | 13        | 20.83   | 20.74   | 20.80   | 22.00   |
|           |            | 25      | 0         | 20.75   | 20.82   | 20.68   | 22.00   |
|           | 16QAM      | 1       | 0         | 20.66   | 20.62   | 20.54   | 22.00   |
|           |            | 1       | 13        | 20.80   | 20.69   | 20.72   | 22.00   |
|           |            | 1       | 24        | 20.78   | 20.79   | 20.77   | 22.00   |
|           |            | 12      | 0         | 20.78   | 20.77   | 20.65   | 22.00   |
|           |            | 12      | 6         | 20.64   | 20.85   | 20.74   | 22.00   |
|           |            | 12      | 13        | 20.87   | 20.87   | 20.71   | 22.00   |
|           |            | 25      | 0         | 20.74   | 20.86   | 20.73   | 22.00   |



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|           | 64QAM      | 1       | 0         | 20.55   | 20.47   | 20.72   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 20.73   | 20.68   | 20.67   | 22.00   |
|           |            | 1       | 24        | 20.91   | 20.85   | 20.79   | 22.00   |
|           |            | 12      | 0         | 19.84   | 19.79   | 19.56   | 21.00   |
|           |            | 12      | 6         | 19.75   | 19.69   | 19.71   | 21.00   |
|           |            | 12      | 13        | 19.78   | 19.75   | 19.82   | 21.00   |
|           |            | 25      | 0         | 19.81   | 19.77   | 19.67   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.74   | 17.65   | 17.72   | 19.00   |
|           |            | 1       | 13        | 17.69   | 17.56   | 17.42   | 19.00   |
|           |            | 1       | 24        | 18.35   | 17.86   | 17.53   | 19.00   |
|           |            | 12      | 0         | 17.74   | 17.62   | 17.59   | 19.00   |
|           |            | 12      | 6         | 17.73   | 17.80   | 17.76   | 19.00   |
|           |            | 12      | 13        | 17.85   | 17.83   | 17.85   | 19.00   |
|           |            | 25      | 0         | 17.80   | 17.79   | 17.63   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |
| 10MHz     | QPSK       | 1       | 0         | 20.62   | 20.66   | 20.64   | 22.00   |
|           |            | 1       | 25        | 20.64   | 20.57   | 20.64   | 22.00   |
|           |            | 1       | 49        | 20.67   | 20.75   | 20.74   | 22.00   |
|           |            | 25      | 0         | 20.78   | 20.62   | 20.74   | 22.00   |
|           |            | 25      | 13        | 20.74   | 20.85   | 20.67   | 22.00   |
|           |            | 25      | 25        | 20.77   | 20.68   | 20.79   | 22.00   |
|           |            | 50      | 0         | 20.77   | 20.83   | 20.75   | 22.00   |
|           | 16QAM      | 1       | 0         | 20.66   | 20.61   | 20.51   | 22.00   |
|           |            | 1       | 25        | 20.79   | 20.65   | 20.75   | 22.00   |
|           |            | 1       | 49        | 20.74   | 20.77   | 20.84   | 22.00   |
|           |            | 25      | 0         | 20.73   | 20.85   | 20.67   | 22.00   |
|           |            | 25      | 13        | 20.68   | 20.86   | 20.77   | 22.00   |
|           |            | 25      | 25        | 20.87   | 20.83   | 20.76   | 22.00   |
|           |            | 50      | 0         | 20.72   | 20.79   | 20.76   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.55   | 20.51   | 20.76   | 22.00   |
|           |            | 1       | 25        | 20.80   | 20.64   | 20.68   | 22.00   |
|           |            | 1       | 49        | 20.87   | 20.84   | 20.76   | 22.00   |
|           |            | 25      | 0         | 19.82   | 19.77   | 19.59   | 21.00   |
|           |            | 25      | 13        | 19.78   | 19.66   | 19.67   | 21.00   |
|           |            | 25      | 25        | 19.77   | 19.79   | 19.82   | 21.00   |
|           |            | 50      | 0         | 19.83   | 19.78   | 19.68   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.70   | 17.62   | 17.76   | 19.00   |
|           |            | 1       | 25        | 17.75   | 17.61   | 17.40   | 19.00   |



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|           |            | 1       | 49        | 18.29   | 17.80   | 17.52   | 19.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 17.75   | 17.62   | 17.60   | 19.00   |
|           |            | 25      | 13        | 17.72   | 17.81   | 17.76   | 19.00   |
|           |            | 25      | 25        | 17.84   | 17.84   | 17.79   | 19.00   |
|           |            | 50      | 0         | 17.80   | 17.80   | 17.63   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20025   | 20175   | 20325   |         |
| 15MHz     | QPSK       | 1       | 0         | 20.62   | 20.63   | 20.60   | 22.00   |
|           |            | 1       | 38        | 20.62   | 20.60   | 20.63   | 22.00   |
|           |            | 1       | 74        | 20.75   | 20.72   | 20.76   | 22.00   |
|           |            | 36      | 0         | 20.78   | 20.63   | 20.74   | 22.00   |
|           |            | 36      | 18        | 20.79   | 20.82   | 20.71   | 22.00   |
|           |            | 36      | 39        | 20.81   | 20.72   | 20.83   | 22.00   |
|           |            | 75      | 0         | 20.81   | 20.78   | 20.70   | 22.00   |
|           | 16QAM      | 1       | 0         | 20.67   | 20.58   | 20.59   | 22.00   |
|           |            | 1       | 38        | 20.78   | 20.71   | 20.75   | 22.00   |
|           |            | 1       | 74        | 20.74   | 20.77   | 20.84   | 22.00   |
|           |            | 36      | 0         | 20.75   | 20.80   | 20.66   | 22.00   |
|           |            | 36      | 18        | 20.63   | 20.81   | 20.71   | 22.00   |
|           |            | 36      | 39        | 20.85   | 20.82   | 20.74   | 22.00   |
|           |            | 75      | 0         | 20.74   | 20.79   | 20.74   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.55   | 20.48   | 20.75   | 22.00   |
|           |            | 1       | 38        | 20.78   | 20.71   | 20.67   | 22.00   |
|           |            | 1       | 74        | 20.92   | 20.81   | 20.76   | 22.00   |
|           |            | 36      | 0         | 19.83   | 19.73   | 19.55   | 21.00   |
|           |            | 36      | 18        | 19.73   | 19.69   | 19.74   | 21.00   |
|           |            | 36      | 39        | 19.76   | 19.81   | 19.84   | 21.00   |
|           |            | 75      | 0         | 19.78   | 19.80   | 19.68   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.70   | 17.66   | 17.76   | 19.00   |
|           |            | 1       | 38        | 17.76   | 17.61   | 17.39   | 19.00   |
|           |            | 1       | 74        | 18.35   | 17.83   | 17.52   | 19.00   |
|           |            | 36      | 0         | 17.76   | 17.66   | 17.65   | 19.00   |
|           |            | 36      | 18        | 17.70   | 17.80   | 17.76   | 19.00   |
|           |            | 36      | 39        | 17.82   | 17.82   | 17.84   | 19.00   |
|           |            | 75      | 0         | 17.73   | 17.74   | 17.61   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20050   | 20175   | 20300   |         |
| 20MHz     | QPSK       | 1       | 0         | 20.67   | 20.69   | 20.69   | 22.00   |
|           |            | 1       | 50        | 20.71   | 20.64   | 20.68   | 22.00   |



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|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 1   | 99 | 20.76 | 20.79 | 20.81 | 22.00 |
|  |        | 50  | 0  | 20.84 | 20.64 | 20.80 | 22.00 |
|  |        | 50  | 25 | 20.83 | 20.86 | 20.74 | 22.00 |
|  |        | 50  | 50 | 20.85 | 20.77 | 20.84 | 22.00 |
|  |        | 100 | 0  | 20.82 | 20.84 | 20.77 | 22.00 |
|  | 16QAM  | 1   | 0  | 20.70 | 20.66 | 20.60 | 22.00 |
|  |        | 1   | 50 | 20.86 | 20.73 | 20.76 | 22.00 |
|  |        | 1   | 99 | 20.83 | 20.80 | 20.85 | 22.00 |
|  |        | 50  | 0  | 20.81 | 20.86 | 20.74 | 22.00 |
|  |        | 50  | 25 | 20.72 | 20.88 | 20.80 | 22.00 |
|  |        | 50  | 50 | 20.90 | 20.90 | 20.80 | 22.00 |
|  |        | 100 | 0  | 20.80 | 20.87 | 20.80 | 22.00 |
|  | 64QAM  | 1   | 0  | 20.56 | 20.55 | 20.78 | 22.00 |
|  |        | 1   | 50 | 20.81 | 20.73 | 20.69 | 22.00 |
|  |        | 1   | 99 | 20.93 | 20.87 | 20.80 | 22.00 |
|  |        | 50  | 0  | 19.86 | 19.81 | 19.60 | 21.00 |
|  |        | 50  | 25 | 19.82 | 19.74 | 19.76 | 21.00 |
|  |        | 50  | 50 | 19.82 | 19.82 | 19.85 | 21.00 |
|  |        | 100 | 0  | 19.86 | 19.84 | 19.76 | 21.00 |
|  | 256QAM | 1   | 0  | 17.79 | 17.69 | 17.81 | 19.00 |
|  |        | 1   | 50 | 17.77 | 17.62 | 17.48 | 19.00 |
|  |        | 1   | 99 | 18.36 | 17.89 | 17.60 | 19.00 |
|  |        | 50  | 0  | 17.79 | 17.67 | 17.66 | 19.00 |
|  |        | 50  | 25 | 17.78 | 17.82 | 17.82 | 19.00 |
|  |        | 50  | 50 | 17.88 | 17.86 | 17.86 | 19.00 |
|  |        | 100 | 0  | 17.82 | 17.81 | 17.68 | 19.00 |



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| LTE Band 4 DS18/9/10 |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz               | QPSK       | 1       | 0         | 19.32                | 19.15   | 19.17   | 20.50   |
|                      |            | 1       | 2         | 19.25                | 19.15   | 19.17   | 20.50   |
|                      |            | 1       | 5         | 19.43                | 19.37   | 19.22   | 20.50   |
|                      |            | 3       | 0         | 19.39                | 19.20   | 19.17   | 20.50   |
|                      |            | 3       | 2         | 19.35                | 19.35   | 19.24   | 20.50   |
|                      |            | 3       | 3         | 19.34                | 19.30   | 19.25   | 20.50   |
|                      |            | 6       | 0         | 19.13                | 19.36   | 19.28   | 20.50   |
|                      | 16QAM      | 1       | 0         | 19.21                | 19.28   | 19.08   | 20.50   |
|                      |            | 1       | 2         | 19.29                | 19.22   | 19.19   | 20.50   |
|                      |            | 1       | 5         | 19.45                | 19.31   | 19.11   | 20.50   |
|                      |            | 3       | 0         | 19.22                | 19.25   | 19.22   | 20.50   |
|                      |            | 3       | 2         | 19.24                | 19.19   | 19.26   | 20.50   |
|                      |            | 3       | 3         | 19.23                | 19.26   | 19.22   | 20.50   |
|                      |            | 6       | 0         | 19.17                | 19.24   | 19.26   | 20.50   |
|                      | 64QAM      | 1       | 0         | 19.08                | 19.04   | 19.09   | 20.50   |
|                      |            | 1       | 2         | 19.14                | 19.12   | 19.16   | 20.50   |
|                      |            | 1       | 5         | 19.27                | 19.44   | 18.78   | 20.50   |
|                      |            | 3       | 0         | 19.23                | 19.21   | 19.19   | 20.50   |
|                      |            | 3       | 2         | 19.15                | 19.30   | 19.16   | 20.50   |
|                      |            | 3       | 3         | 19.25                | 19.22   | 19.22   | 20.50   |
|                      |            | 6       | 0         | 19.20                | 19.24   | 19.22   | 20.50   |
|                      | 256QAM     | 1       | 0         | 17.73                | 17.61   | 17.49   | 19.00   |
|                      |            | 1       | 2         | 17.62                | 17.49   | 17.49   | 19.00   |
|                      |            | 1       | 5         | 17.90                | 17.75   | 17.57   | 19.00   |
|                      |            | 3       | 0         | 17.52                | 17.75   | 17.81   | 19.00   |
|                      |            | 3       | 2         | 17.67                | 17.81   | 17.66   | 19.00   |
|                      |            | 3       | 3         | 17.69                | 17.74   | 17.71   | 19.00   |
|                      |            | 6       | 0         | 17.64                | 17.82   | 17.71   | 19.00   |
| Bandwidth            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |            |         |           | 19965                | 20175   | 20385   |         |
| 3MHz                 | QPSK       | 1       | 0         | 19.30                | 19.23   | 19.19   | 20.50   |
|                      |            | 1       | 7         | 19.27                | 19.16   | 19.15   | 20.50   |
|                      |            | 1       | 14        | 19.39                | 19.34   | 19.19   | 20.50   |
|                      |            | 8       | 0         | 19.32                | 19.25   | 19.19   | 20.50   |
|                      |            | 8       | 4         | 19.38                | 19.39   | 19.26   | 20.50   |



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|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 7         | 19.37   | 19.31   | 19.29   | 20.50   |
|           |            | 15      | 0         | 19.19   | 19.34   | 19.34   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.15   | 19.29   | 19.03   | 20.50   |
|           |            | 1       | 7         | 19.30   | 19.25   | 19.18   | 20.50   |
|           |            | 1       | 14        | 19.41   | 19.31   | 19.10   | 20.50   |
|           |            | 8       | 0         | 19.22   | 19.26   | 19.19   | 20.50   |
|           |            | 8       | 4         | 19.24   | 19.21   | 19.28   | 20.50   |
|           |            | 8       | 7         | 19.18   | 19.25   | 19.24   | 20.50   |
|           |            | 15      | 0         | 19.19   | 19.23   | 19.20   | 20.50   |
|           |            | 1       | 0         | 19.02   | 19.04   | 19.12   | 20.50   |
|           | 64QAM      | 1       | 7         | 19.11   | 19.09   | 19.17   | 20.50   |
|           |            | 1       | 14        | 19.28   | 19.43   | 18.83   | 20.50   |
|           |            | 8       | 0         | 19.16   | 19.22   | 19.24   | 20.50   |
|           |            | 8       | 4         | 19.17   | 19.29   | 19.16   | 20.50   |
|           |            | 8       | 7         | 19.20   | 19.19   | 19.20   | 20.50   |
|           |            | 15      | 0         | 19.25   | 19.28   | 19.21   | 20.50   |
|           |            | 1       | 0         | 17.78   | 17.59   | 17.55   | 19.00   |
|           | 256QAM     | 1       | 7         | 17.68   | 17.49   | 17.45   | 19.00   |
|           |            | 1       | 14        | 17.91   | 17.73   | 17.62   | 19.00   |
|           |            | 8       | 0         | 17.52   | 17.77   | 17.74   | 19.00   |
|           |            | 8       | 4         | 17.68   | 17.82   | 17.74   | 19.00   |
|           |            | 8       | 7         | 17.69   | 17.71   | 17.78   | 19.00   |
|           |            | 15      | 0         | 17.70   | 17.77   | 17.68   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 19.29   | 19.21   | 19.16   | 20.50   |
|           |            | 1       | 13        | 19.27   | 19.18   | 19.15   | 20.50   |
|           |            | 1       | 24        | 19.37   | 19.37   | 19.21   | 20.50   |
|           |            | 12      | 0         | 19.35   | 19.18   | 19.22   | 20.50   |
|           |            | 12      | 6         | 19.36   | 19.41   | 19.24   | 20.50   |
|           |            | 12      | 13        | 19.37   | 19.30   | 19.31   | 20.50   |
|           |            | 25      | 0         | 19.17   | 19.37   | 19.34   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.15   | 19.24   | 19.08   | 20.50   |
|           |            | 1       | 13        | 19.33   | 19.24   | 19.21   | 20.50   |
|           |            | 1       | 24        | 19.42   | 19.25   | 19.10   | 20.50   |
|           |            | 12      | 0         | 19.22   | 19.32   | 19.21   | 20.50   |
|           |            | 12      | 6         | 19.22   | 19.17   | 19.21   | 20.50   |
|           |            | 12      | 13        | 19.22   | 19.26   | 19.29   | 20.50   |
|           |            | 25      | 0         | 19.15   | 19.17   | 19.27   | 20.50   |



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|           |            | 1       | 0         | 19.07   | 19.03   | 19.05   | 20.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 19.11   | 19.14   | 19.14   | 20.50   |
|           |            | 1       | 24        | 19.28   | 19.44   | 18.79   | 20.50   |
|           | 64QAM      | 12      | 0         | 19.17   | 19.20   | 19.21   | 20.50   |
|           |            | 12      | 6         | 19.16   | 19.22   | 19.19   | 20.50   |
|           |            | 12      | 13        | 19.22   | 19.18   | 19.21   | 20.50   |
|           |            | 25      | 0         | 19.23   | 19.26   | 19.18   | 20.50   |
|           |            | 1       | 0         | 17.71   | 17.63   | 17.49   | 19.00   |
|           |            | 1       | 13        | 17.63   | 17.51   | 17.42   | 19.00   |
|           |            | 1       | 24        | 17.87   | 17.73   | 17.56   | 19.00   |
|           | 256QAM     | 12      | 0         | 17.52   | 17.76   | 17.76   | 19.00   |
|           |            | 12      | 6         | 17.67   | 17.76   | 17.69   | 19.00   |
|           |            | 12      | 13        | 17.70   | 17.72   | 17.71   | 19.00   |
|           |            | 25      | 0         | 17.65   | 17.78   | 17.71   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |
| 10MHz     | QPSK       | 1       | 0         | 19.30   | 19.22   | 19.13   | 20.50   |
|           |            | 1       | 25        | 19.26   | 19.18   | 19.15   | 20.50   |
|           |            | 1       | 49        | 19.41   | 19.34   | 19.22   | 20.50   |
|           |            | 25      | 0         | 19.38   | 19.18   | 19.22   | 20.50   |
|           |            | 25      | 13        | 19.35   | 19.37   | 19.23   | 20.50   |
|           |            | 25      | 25        | 19.34   | 19.27   | 19.28   | 20.50   |
|           |            | 50      | 0         | 19.19   | 19.36   | 19.34   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.21   | 19.25   | 19.04   | 20.50   |
|           |            | 1       | 25        | 19.31   | 19.21   | 19.15   | 20.50   |
|           |            | 1       | 49        | 19.46   | 19.32   | 19.11   | 20.50   |
|           |            | 25      | 0         | 19.18   | 19.25   | 19.16   | 20.50   |
|           |            | 25      | 13        | 19.22   | 19.21   | 19.20   | 20.50   |
|           |            | 25      | 25        | 19.16   | 19.19   | 19.24   | 20.50   |
|           |            | 50      | 0         | 19.19   | 19.22   | 19.23   | 20.50   |
|           | 64QAM      | 1       | 0         | 19.03   | 19.03   | 19.04   | 20.50   |
|           |            | 1       | 25        | 19.12   | 19.06   | 19.19   | 20.50   |
|           |            | 1       | 49        | 19.31   | 19.44   | 18.84   | 20.50   |
|           |            | 25      | 0         | 19.20   | 19.26   | 19.20   | 20.50   |
|           |            | 25      | 13        | 19.16   | 19.30   | 19.24   | 20.50   |
|           |            | 25      | 25        | 19.17   | 19.19   | 19.22   | 20.50   |
|           |            | 50      | 0         | 19.23   | 19.29   | 19.16   | 20.50   |
|           | 256QAM     | 1       | 0         | 17.75   | 17.56   | 17.57   | 19.00   |
|           |            | 1       | 25        | 17.61   | 17.49   | 17.47   | 19.00   |



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|           |            | 1       | 49        | 17.89   | 17.70   | 17.59   | 19.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 17.52   | 17.71   | 17.82   | 19.00   |
|           |            | 25      | 13        | 17.69   | 17.77   | 17.66   | 19.00   |
|           |            | 25      | 25        | 17.76   | 17.67   | 17.79   | 19.00   |
|           |            | 50      | 0         | 17.67   | 17.82   | 17.71   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20025   | 20175   | 20325   |         |
| 15MHz     | QPSK       | 1       | 0         | 19.30   | 19.15   | 19.19   | 20.50   |
|           |            | 1       | 38        | 19.25   | 19.21   | 19.19   | 20.50   |
|           |            | 1       | 74        | 19.38   | 19.36   | 19.23   | 20.50   |
|           |            | 36      | 0         | 19.33   | 19.26   | 19.21   | 20.50   |
|           |            | 36      | 18        | 19.39   | 19.35   | 19.24   | 20.50   |
|           |            | 36      | 39        | 19.32   | 19.26   | 19.29   | 20.50   |
|           |            | 75      | 0         | 19.16   | 19.33   | 19.32   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.14   | 19.27   | 19.04   | 20.50   |
|           |            | 1       | 38        | 19.34   | 19.17   | 19.18   | 20.50   |
|           |            | 1       | 74        | 19.40   | 19.29   | 19.08   | 20.50   |
|           |            | 36      | 0         | 19.21   | 19.29   | 19.14   | 20.50   |
|           |            | 36      | 18        | 19.21   | 19.21   | 19.26   | 20.50   |
|           |            | 36      | 39        | 19.19   | 19.23   | 19.26   | 20.50   |
|           |            | 75      | 0         | 19.22   | 19.23   | 19.20   | 20.50   |
|           | 64QAM      | 1       | 0         | 19.07   | 19.03   | 19.07   | 20.50   |
|           |            | 1       | 38        | 19.07   | 19.08   | 19.19   | 20.50   |
|           |            | 1       | 74        | 19.31   | 19.38   | 18.80   | 20.50   |
|           |            | 36      | 0         | 19.17   | 19.21   | 19.19   | 20.50   |
|           |            | 36      | 18        | 19.17   | 19.29   | 19.24   | 20.50   |
|           |            | 36      | 39        | 19.25   | 19.21   | 19.23   | 20.50   |
|           |            | 75      | 0         | 19.23   | 19.29   | 19.20   | 20.50   |
|           | 256QAM     | 1       | 0         | 17.78   | 17.61   | 17.56   | 19.00   |
|           |            | 1       | 38        | 17.64   | 17.47   | 17.49   | 19.00   |
|           |            | 1       | 74        | 17.87   | 17.68   | 17.56   | 19.00   |
|           |            | 36      | 0         | 17.51   | 17.76   | 17.79   | 19.00   |
|           |            | 36      | 18        | 17.72   | 17.80   | 17.70   | 19.00   |
|           |            | 36      | 39        | 17.70   | 17.69   | 17.71   | 19.00   |
|           |            | 75      | 0         | 17.70   | 17.77   | 17.66   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20050   | 20175   | 20300   |         |
| 20MHz     | QPSK       | 1       | 0         | 19.36   | 19.24   | 19.22   | 20.50   |
|           |            | 1       | 50        | 19.30   | 19.24   | 19.20   | 20.50   |



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|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 1   | 99 | 19.45 | 19.40 | 19.24 | 20.50 |
|  |        | 50  | 0  | 19.40 | 19.27 | 19.26 | 20.50 |
|  |        | 50  | 25 | 19.41 | 19.42 | 19.31 | 20.50 |
|  |        | 50  | 50 | 19.38 | 19.33 | 19.33 | 20.50 |
|  |        | 100 | 0  | 19.21 | 19.39 | 19.35 | 20.50 |
|  | 16QAM  | 1   | 0  | 19.23 | 19.31 | 19.10 | 20.50 |
|  |        | 1   | 50 | 19.38 | 19.26 | 19.23 | 20.50 |
|  |        | 1   | 99 | 19.49 | 19.34 | 19.16 | 20.50 |
|  |        | 50  | 0  | 19.23 | 19.33 | 19.23 | 20.50 |
|  |        | 50  | 25 | 19.27 | 19.26 | 19.29 | 20.50 |
|  |        | 50  | 50 | 19.24 | 19.28 | 19.31 | 20.50 |
|  |        | 100 | 0  | 19.24 | 19.26 | 19.29 | 20.50 |
|  | 64QAM  | 1   | 0  | 19.11 | 19.09 | 19.13 | 20.50 |
|  |        | 1   | 50 | 19.15 | 19.15 | 19.22 | 20.50 |
|  |        | 1   | 99 | 19.34 | 19.45 | 18.87 | 20.50 |
|  |        | 50  | 0  | 19.25 | 19.27 | 19.26 | 20.50 |
|  |        | 50  | 25 | 19.24 | 19.31 | 19.25 | 20.50 |
|  |        | 50  | 50 | 19.26 | 19.24 | 19.26 | 20.50 |
|  |        | 100 | 0  | 19.29 | 19.30 | 19.25 | 20.50 |
|  | 256QAM | 1   | 0  | 17.79 | 17.64 | 17.58 | 19.00 |
|  |        | 1   | 50 | 17.70 | 17.55 | 17.51 | 19.00 |
|  |        | 1   | 99 | 17.96 | 17.76 | 17.64 | 19.00 |
|  |        | 50  | 0  | 17.58 | 17.78 | 17.83 | 19.00 |
|  |        | 50  | 25 | 17.76 | 17.83 | 17.75 | 19.00 |
|  |        | 50  | 50 | 17.77 | 17.75 | 17.80 | 19.00 |
|  |        | 100 | 0  | 17.71 | 17.83 | 17.74 | 19.00 |



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| LTE Band 5 DS12/3/4/5 |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 20407                | 20525   | 20643   |         |
| 1.4MHz                | QPSK       | 1       | 0         | 23.32                | 23.29   | 23.28   | 25.00   |
|                       |            | 1       | 2         | 23.42                | 23.55   | 23.32   | 25.00   |
|                       |            | 1       | 5         | 23.37                | 23.56   | 23.26   | 25.00   |
|                       |            | 3       | 0         | 23.34                | 23.59   | 23.33   | 25.00   |
|                       |            | 3       | 2         | 23.34                | 23.57   | 23.29   | 25.00   |
|                       |            | 3       | 3         | 23.38                | 23.64   | 23.27   | 25.00   |
|                       |            | 6       | 0         | 22.60                | 22.62   | 22.70   | 24.00   |
|                       | 16QAM      | 1       | 0         | 22.79                | 22.15   | 22.03   | 24.00   |
|                       |            | 1       | 2         | 22.54                | 22.41   | 22.42   | 24.00   |
|                       |            | 1       | 5         | 22.38                | 22.27   | 22.58   | 24.00   |
|                       |            | 3       | 0         | 22.36                | 22.28   | 22.62   | 24.00   |
|                       |            | 3       | 2         | 22.35                | 22.31   | 22.58   | 24.00   |
|                       |            | 3       | 3         | 22.34                | 22.30   | 22.62   | 24.00   |
|                       |            | 6       | 0         | 21.56                | 21.37   | 21.50   | 23.00   |
|                       | 64QAM      | 1       | 0         | 22.42                | 21.53   | 21.42   | 23.00   |
|                       |            | 1       | 2         | 22.68                | 21.44   | 21.78   | 23.00   |
|                       |            | 1       | 5         | 22.41                | 21.38   | 21.40   | 23.00   |
|                       |            | 3       | 0         | 22.48                | 21.35   | 21.39   | 23.00   |
|                       |            | 3       | 2         | 22.46                | 21.36   | 21.44   | 23.00   |
|                       |            | 3       | 3         | 22.46                | 21.41   | 21.42   | 23.00   |
|                       |            | 6       | 0         | 21.53                | 20.39   | 20.34   | 22.00   |
|                       | 256QAM     | 1       | 0         | 18.66                | 18.35   | 18.58   | 20.00   |
|                       |            | 1       | 2         | 18.57                | 18.69   | 18.62   | 20.00   |
|                       |            | 1       | 5         | 18.78                | 18.70   | 18.52   | 20.00   |
|                       |            | 3       | 0         | 18.47                | 18.61   | 18.30   | 20.00   |
|                       |            | 3       | 2         | 18.52                | 18.65   | 18.62   | 20.00   |
|                       |            | 3       | 3         | 18.56                | 18.71   | 18.69   | 20.00   |
|                       |            | 6       | 0         | 18.56                | 18.70   | 18.61   | 20.00   |
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 20415                | 20525   | 20635   |         |
| 3MHz                  | QPSK       | 1       | 0         | 23.31                | 23.30   | 23.23   | 25.00   |
|                       |            | 1       | 7         | 23.45                | 23.58   | 23.29   | 25.00   |
|                       |            | 1       | 14        | 23.33                | 23.63   | 23.33   | 25.00   |
|                       |            | 8       | 0         | 22.33                | 22.40   | 22.60   | 24.00   |
|                       |            | 8       | 4         | 22.59                | 22.25   | 22.28   | 24.00   |



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|           |            | 8       | 7         | 22.56   | 22.64   | 22.62   | 24.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 15      | 0         | 22.64   | 22.62   | 22.65   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.71   | 22.17   | 22.03   | 24.00   |
|           |            | 1       | 7         | 22.54   | 22.39   | 22.37   | 24.00   |
|           |            | 1       | 14        | 22.37   | 22.32   | 22.57   | 24.00   |
|           |            | 8       | 0         | 21.50   | 21.35   | 21.42   | 23.00   |
|           |            | 8       | 4         | 21.51   | 21.48   | 21.69   | 23.00   |
|           |            | 8       | 7         | 21.73   | 21.55   | 21.69   | 23.00   |
|           |            | 15      | 0         | 21.56   | 21.39   | 21.48   | 23.00   |
|           |            | 1       | 0         | 22.38   | 21.59   | 21.36   | 23.00   |
|           | 64QAM      | 1       | 7         | 22.62   | 21.49   | 21.81   | 23.00   |
|           |            | 1       | 14        | 22.43   | 21.43   | 21.44   | 23.00   |
|           |            | 8       | 0         | 21.55   | 20.23   | 20.53   | 22.00   |
|           |            | 8       | 4         | 21.21   | 20.53   | 20.48   | 22.00   |
|           |            | 8       | 7         | 21.51   | 20.57   | 20.68   | 22.00   |
|           |            | 15      | 0         | 21.50   | 20.39   | 20.30   | 22.00   |
|           |            | 1       | 0         | 18.63   | 18.39   | 18.55   | 20.00   |
|           | 256QAM     | 1       | 7         | 18.55   | 18.67   | 18.56   | 20.00   |
|           |            | 1       | 14        | 18.74   | 18.68   | 18.55   | 20.00   |
|           |            | 8       | 0         | 18.53   | 18.61   | 18.29   | 20.00   |
|           |            | 8       | 4         | 18.54   | 18.65   | 18.61   | 20.00   |
|           |            | 8       | 7         | 18.63   | 18.73   | 18.69   | 20.00   |
|           |            | 15      | 0         | 18.60   | 18.71   | 18.64   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20425   | 20525   | 20625   |         |
| 5MHz      | QPSK       | 1       | 0         | 23.26   | 23.32   | 23.24   | 25.00   |
|           |            | 1       | 13        | 23.46   | 23.62   | 23.28   | 25.00   |
|           |            | 1       | 24        | 23.30   | 23.63   | 23.34   | 25.00   |
|           |            | 12      | 0         | 22.31   | 22.41   | 22.63   | 24.00   |
|           |            | 12      | 6         | 22.59   | 22.27   | 22.26   | 24.00   |
|           |            | 12      | 13        | 22.55   | 22.62   | 22.68   | 24.00   |
|           |            | 25      | 0         | 22.61   | 22.57   | 22.67   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.71   | 22.17   | 22.02   | 24.00   |
|           |            | 1       | 13        | 22.54   | 22.41   | 22.43   | 24.00   |
|           |            | 1       | 24        | 22.33   | 22.29   | 22.61   | 24.00   |
|           |            | 12      | 0         | 21.53   | 21.35   | 21.48   | 23.00   |
|           |            | 12      | 6         | 21.52   | 21.51   | 21.65   | 23.00   |
|           |            | 12      | 13        | 21.74   | 21.51   | 21.67   | 23.00   |
|           |            | 25      | 0         | 21.59   | 21.37   | 21.50   | 23.00   |



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|           | 64QAM      | 1       | 0         | 22.44   | 21.59   | 21.40   | 23.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 22.66   | 21.43   | 21.80   | 23.00   |
|           |            | 1       | 24        | 22.42   | 21.40   | 21.43   | 23.00   |
|           |            | 12      | 0         | 21.60   | 20.19   | 20.55   | 22.00   |
|           |            | 12      | 6         | 21.22   | 20.49   | 20.49   | 22.00   |
|           |            | 12      | 13        | 21.53   | 20.56   | 20.75   | 22.00   |
|           |            | 25      | 0         | 21.53   | 20.39   | 20.29   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.61   | 18.36   | 18.56   | 20.00   |
|           |            | 1       | 13        | 18.49   | 18.68   | 18.57   | 20.00   |
|           |            | 1       | 24        | 18.74   | 18.72   | 18.54   | 20.00   |
|           |            | 12      | 0         | 18.50   | 18.62   | 18.33   | 20.00   |
|           |            | 12      | 6         | 18.53   | 18.62   | 18.65   | 20.00   |
|           |            | 12      | 13        | 18.56   | 18.68   | 18.69   | 20.00   |
|           |            | 25      | 0         | 18.59   | 18.64   | 18.65   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20450   | 20525   | 20600   |         |
| 10MHz     | QPSK       | 1       | 0         | 23.33   | 23.34   | 23.31   | 25.00   |
|           |            | 1       | 25        | 23.48   | 23.64   | 23.35   | 25.00   |
|           |            | 1       | 49        | 23.39   | 23.65   | 23.35   | 25.00   |
|           |            | 25      | 0         | 22.40   | 22.49   | 22.65   | 24.00   |
|           |            | 25      | 13        | 22.68   | 22.29   | 22.31   | 24.00   |
|           |            | 25      | 25        | 22.61   | 22.67   | 22.69   | 24.00   |
|           |            | 50      | 0         | 22.67   | 22.63   | 22.71   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.80   | 22.19   | 22.05   | 24.00   |
|           |            | 1       | 25        | 22.57   | 22.43   | 22.45   | 24.00   |
|           |            | 1       | 49        | 22.39   | 22.36   | 22.63   | 24.00   |
|           |            | 25      | 0         | 21.58   | 21.41   | 21.50   | 23.00   |
|           |            | 25      | 13        | 21.54   | 21.55   | 21.74   | 23.00   |
|           |            | 25      | 25        | 21.76   | 21.58   | 21.71   | 23.00   |
|           |            | 50      | 0         | 21.62   | 21.43   | 21.52   | 23.00   |
|           | 64QAM      | 1       | 0         | 22.47   | 21.60   | 21.44   | 23.00   |
|           |            | 1       | 25        | 22.71   | 21.51   | 21.87   | 23.00   |
|           |            | 1       | 49        | 22.50   | 21.44   | 21.46   | 23.00   |
|           |            | 25      | 0         | 21.64   | 20.27   | 20.60   | 22.00   |
|           |            | 25      | 13        | 21.30   | 20.58   | 20.51   | 22.00   |
|           |            | 25      | 25        | 21.58   | 20.62   | 20.76   | 22.00   |
|           |            | 50      | 0         | 21.57   | 20.43   | 20.38   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.70   | 18.40   | 18.60   | 20.00   |
|           |            | 1       | 25        | 18.58   | 18.75   | 18.63   | 20.00   |



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|  |  |    |    |       |       |       |       |
|--|--|----|----|-------|-------|-------|-------|
|  |  | 1  | 49 | 18.80 | 18.73 | 18.60 | 20.00 |
|  |  | 25 | 0  | 18.54 | 18.64 | 18.34 | 20.00 |
|  |  | 25 | 13 | 18.58 | 18.71 | 18.68 | 20.00 |
|  |  | 25 | 25 | 18.64 | 18.74 | 18.70 | 20.00 |
|  |  | 50 | 0  | 18.62 | 18.72 | 18.70 | 20.00 |



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| LTE Band 5 DS18/9/10 |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |            |         |           | 20407                | 20525   | 20643   |         |
| 1.4MHz               | QPSK       | 1       | 0         | 22.48                | 22.39   | 22.32   | 24.00   |
|                      |            | 1       | 2         | 22.51                | 22.47   | 22.48   | 24.00   |
|                      |            | 1       | 5         | 22.28                | 22.50   | 22.48   | 24.00   |
|                      |            | 3       | 0         | 22.56                | 22.58   | 22.64   | 24.00   |
|                      |            | 3       | 2         | 22.86                | 22.60   | 22.62   | 24.00   |
|                      |            | 3       | 3         | 22.44                | 22.65   | 22.63   | 24.00   |
|                      |            | 6       | 0         | 22.61                | 22.56   | 22.57   | 24.00   |
|                      | 16QAM      | 1       | 0         | 22.15                | 22.54   | 22.49   | 24.00   |
|                      |            | 1       | 2         | 22.68                | 22.50   | 22.60   | 24.00   |
|                      |            | 1       | 5         | 22.27                | 22.41   | 22.55   | 24.00   |
|                      |            | 3       | 0         | 22.28                | 22.39   | 22.51   | 24.00   |
|                      |            | 3       | 2         | 22.26                | 22.44   | 22.52   | 24.00   |
|                      |            | 3       | 3         | 22.25                | 22.42   | 22.56   | 24.00   |
|                      |            | 6       | 0         | 21.59                | 21.39   | 21.63   | 23.00   |
|                      | 64QAM      | 1       | 0         | 22.33                | 21.48   | 21.28   | 23.00   |
|                      |            | 1       | 2         | 22.20                | 21.60   | 21.42   | 23.00   |
|                      |            | 1       | 5         | 22.41                | 21.66   | 21.62   | 23.00   |
|                      |            | 3       | 0         | 22.42                | 21.65   | 21.63   | 23.00   |
|                      |            | 3       | 2         | 22.39                | 21.64   | 21.58   | 23.00   |
|                      |            | 3       | 3         | 22.41                | 21.59   | 21.59   | 23.00   |
|                      |            | 6       | 0         | 21.50                | 20.47   | 20.62   | 22.00   |
|                      | 256QAM     | 1       | 0         | 18.54                | 18.55   | 18.47   | 20.00   |
|                      |            | 1       | 2         | 18.65                | 18.67   | 18.75   | 20.00   |
|                      |            | 1       | 5         | 18.47                | 18.64   | 18.52   | 20.00   |
|                      |            | 3       | 0         | 18.39                | 18.50   | 18.69   | 20.00   |
|                      |            | 3       | 2         | 18.52                | 18.54   | 18.62   | 20.00   |
|                      |            | 3       | 3         | 18.58                | 18.63   | 18.66   | 20.00   |
|                      |            | 6       | 0         | 18.65                | 18.54   | 18.70   | 20.00   |
| Bandwidth            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |            |         |           | 20415                | 20525   | 20635   |         |
| 3MHz                 | QPSK       | 1       | 0         | 22.51                | 22.40   | 22.35   | 24.00   |
|                      |            | 1       | 7         | 22.50                | 22.47   | 22.47   | 24.00   |
|                      |            | 1       | 14        | 22.26                | 22.55   | 22.44   | 24.00   |
|                      |            | 8       | 0         | 22.57                | 22.64   | 22.66   | 24.00   |
|                      |            | 8       | 4         | 22.88                | 22.59   | 22.63   | 24.00   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 7         | 22.41   | 22.63   | 22.68   | 24.00   |
|           |            | 15      | 0         | 22.60   | 22.51   | 22.60   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.10   | 22.53   | 22.55   | 24.00   |
|           |            | 1       | 7         | 22.69   | 22.46   | 22.59   | 24.00   |
|           |            | 1       | 14        | 22.30   | 22.38   | 22.54   | 24.00   |
|           |            | 8       | 0         | 21.38   | 21.30   | 21.64   | 23.00   |
|           |            | 8       | 4         | 21.74   | 21.58   | 21.63   | 23.00   |
|           |            | 8       | 7         | 21.48   | 21.55   | 21.71   | 23.00   |
|           |            | 15      | 0         | 21.63   | 21.47   | 21.66   | 23.00   |
|           | 64QAM      | 1       | 0         | 22.33   | 21.50   | 21.31   | 23.00   |
|           |            | 1       | 7         | 22.18   | 21.66   | 21.42   | 23.00   |
|           |            | 1       | 14        | 22.41   | 21.66   | 21.65   | 23.00   |
|           |            | 8       | 0         | 21.47   | 20.41   | 20.38   | 22.00   |
|           |            | 8       | 4         | 21.49   | 20.43   | 20.62   | 22.00   |
|           |            | 8       | 7         | 21.60   | 20.61   | 20.74   | 22.00   |
|           |            | 15      | 0         | 21.48   | 20.39   | 20.65   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.54   | 18.56   | 18.51   | 20.00   |
|           |            | 1       | 7         | 18.63   | 18.64   | 18.69   | 20.00   |
|           |            | 1       | 14        | 18.48   | 18.65   | 18.56   | 20.00   |
|           |            | 8       | 0         | 18.35   | 18.54   | 18.69   | 20.00   |
|           |            | 8       | 4         | 18.57   | 18.60   | 18.60   | 20.00   |
|           |            | 8       | 7         | 18.62   | 18.70   | 18.64   | 20.00   |
|           |            | 15      | 0         | 18.58   | 18.53   | 18.71   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20425   | 20525   | 20625   |         |
| 5MHz      | QPSK       | 1       | 0         | 22.53   | 22.43   | 22.30   | 24.00   |
|           |            | 1       | 13        | 22.49   | 22.46   | 22.46   | 24.00   |
|           |            | 1       | 24        | 22.27   | 22.51   | 22.46   | 24.00   |
|           |            | 12      | 0         | 22.56   | 22.62   | 22.61   | 24.00   |
|           |            | 12      | 6         | 22.88   | 22.55   | 22.64   | 24.00   |
|           |            | 12      | 13        | 22.48   | 22.69   | 22.68   | 24.00   |
|           |            | 25      | 0         | 22.58   | 22.52   | 22.59   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.10   | 22.53   | 22.54   | 24.00   |
|           |            | 1       | 13        | 22.66   | 22.46   | 22.61   | 24.00   |
|           |            | 1       | 24        | 22.27   | 22.39   | 22.54   | 24.00   |
|           |            | 12      | 0         | 21.46   | 21.33   | 21.58   | 23.00   |
|           |            | 12      | 6         | 21.71   | 21.54   | 21.68   | 23.00   |
|           |            | 12      | 13        | 21.46   | 21.59   | 21.66   | 23.00   |
|           |            | 25      | 0         | 21.62   | 21.41   | 21.64   | 23.00   |



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|           | 64QAM      | 1       | 0         | 22.40   | 21.55   | 21.27   | 23.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 22.17   | 21.67   | 21.45   | 23.00   |
|           |            | 1       | 24        | 22.39   | 21.61   | 21.59   | 23.00   |
|           |            | 12      | 0         | 21.52   | 20.43   | 20.44   | 22.00   |
|           |            | 12      | 6         | 21.46   | 20.46   | 20.60   | 22.00   |
|           |            | 12      | 13        | 21.59   | 20.61   | 20.66   | 22.00   |
|           |            | 25      | 0         | 21.52   | 20.40   | 20.60   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.49   | 18.52   | 18.48   | 20.00   |
|           |            | 1       | 13        | 18.70   | 18.65   | 18.69   | 20.00   |
|           |            | 1       | 24        | 18.47   | 18.65   | 18.52   | 20.00   |
|           |            | 12      | 0         | 18.31   | 18.58   | 18.62   | 20.00   |
|           |            | 12      | 6         | 18.56   | 18.55   | 18.55   | 20.00   |
|           |            | 12      | 13        | 18.65   | 18.64   | 18.61   | 20.00   |
|           |            | 25      | 0         | 18.65   | 18.56   | 18.66   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20450   | 20525   | 20600   |         |
| 10MHz     | QPSK       | 1       | 0         | 22.54   | 22.47   | 22.38   | 24.00   |
|           |            | 1       | 25        | 22.53   | 22.54   | 22.55   | 24.00   |
|           |            | 1       | 49        | 22.30   | 22.57   | 22.52   | 24.00   |
|           |            | 25      | 0         | 22.60   | 22.66   | 22.67   | 24.00   |
|           |            | 25      | 13        | 22.94   | 22.64   | 22.69   | 24.00   |
|           |            | 25      | 25        | 22.49   | 22.72   | 22.72   | 24.00   |
|           |            | 50      | 0         | 22.63   | 22.59   | 22.61   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.18   | 22.58   | 22.57   | 24.00   |
|           |            | 1       | 25        | 22.74   | 22.51   | 22.65   | 24.00   |
|           |            | 1       | 49        | 22.33   | 22.45   | 22.57   | 24.00   |
|           |            | 25      | 0         | 21.47   | 21.38   | 21.67   | 23.00   |
|           |            | 25      | 13        | 21.76   | 21.61   | 21.69   | 23.00   |
|           |            | 25      | 25        | 21.52   | 21.61   | 21.74   | 23.00   |
|           |            | 50      | 0         | 21.65   | 21.48   | 21.72   | 23.00   |
|           | 64QAM      | 1       | 0         | 22.41   | 21.57   | 21.34   | 23.00   |
|           |            | 1       | 25        | 22.25   | 21.69   | 21.49   | 23.00   |
|           |            | 1       | 49        | 22.43   | 21.67   | 21.66   | 23.00   |
|           |            | 25      | 0         | 21.55   | 20.49   | 20.47   | 22.00   |
|           |            | 25      | 13        | 21.52   | 20.51   | 20.66   | 22.00   |
|           |            | 25      | 25        | 21.61   | 20.68   | 20.75   | 22.00   |
|           |            | 50      | 0         | 21.56   | 20.48   | 20.69   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.56   | 18.60   | 18.56   | 20.00   |
|           |            | 1       | 25        | 18.72   | 18.71   | 18.76   | 20.00   |



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|  |  |    |    |       |       |       |       |
|--|--|----|----|-------|-------|-------|-------|
|  |  | 1  | 49 | 18.54 | 18.71 | 18.60 | 20.00 |
|  |  | 25 | 0  | 18.40 | 18.59 | 18.70 | 20.00 |
|  |  | 25 | 13 | 18.58 | 18.63 | 18.64 | 20.00 |
|  |  | 25 | 25 | 18.66 | 18.71 | 18.68 | 20.00 |
|  |  | 50 | 0  | 18.66 | 18.61 | 18.72 | 20.00 |



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| LTE Band 7 DS12/3/4/5 |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz                  | QPSK       | 1       | 0         | 21.80                | 21.72   | 21.82   | 23.50   |
|                       |            | 1       | 13        | 21.77                | 21.79   | 21.92   | 23.50   |
|                       |            | 1       | 24        | 21.71                | 21.62   | 21.74   | 23.50   |
|                       |            | 12      | 0         | 20.83                | 20.74   | 21.12   | 22.50   |
|                       |            | 12      | 6         | 20.71                | 20.80   | 21.08   | 22.50   |
|                       |            | 12      | 13        | 20.79                | 20.86   | 21.06   | 22.50   |
|                       |            | 25      | 0         | 20.64                | 20.84   | 21.22   | 22.50   |
|                       | 16QAM      | 1       | 0         | 20.80                | 20.63   | 21.20   | 22.50   |
|                       |            | 1       | 13        | 20.85                | 20.61   | 20.89   | 22.50   |
|                       |            | 1       | 24        | 20.74                | 21.18   | 21.03   | 22.50   |
|                       |            | 12      | 0         | 19.96                | 19.76   | 20.00   | 21.50   |
|                       |            | 12      | 6         | 19.72                | 19.94   | 20.09   | 21.50   |
|                       |            | 12      | 13        | 19.63                | 19.83   | 20.04   | 21.50   |
|                       |            | 25      | 0         | 19.58                | 19.93   | 20.03   | 21.50   |
|                       | 64QAM      | 1       | 0         | 19.90                | 19.57   | 19.99   | 21.50   |
|                       |            | 1       | 13        | 19.69                | 19.88   | 20.04   | 21.50   |
|                       |            | 1       | 24        | 19.84                | 19.84   | 20.43   | 21.50   |
|                       |            | 12      | 0         | 18.94                | 18.86   | 19.08   | 20.50   |
|                       |            | 12      | 6         | 18.77                | 18.87   | 19.12   | 20.50   |
|                       |            | 12      | 13        | 18.72                | 18.91   | 18.97   | 20.50   |
|                       |            | 25      | 0         | 18.70                | 18.92   | 19.19   | 20.50   |
|                       | 256QAM     | 1       | 0         | 16.59                | 16.85   | 17.00   | 18.50   |
|                       |            | 1       | 13        | 16.86                | 16.92   | 16.73   | 18.50   |
|                       |            | 1       | 24        | 17.55                | 17.02   | 17.55   | 18.50   |
|                       |            | 12      | 0         | 17.03                | 16.73   | 16.74   | 18.50   |
|                       |            | 12      | 6         | 16.96                | 16.87   | 17.23   | 18.50   |
|                       |            | 12      | 13        | 16.80                | 16.96   | 17.14   | 18.50   |
|                       |            | 25      | 0         | 16.84                | 16.88   | 17.20   | 18.50   |
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz                 | QPSK       | 1       | 0         | 21.78                | 21.75   | 21.89   | 23.50   |
|                       |            | 1       | 25        | 21.72                | 21.79   | 21.97   | 23.50   |
|                       |            | 1       | 49        | 21.71                | 21.69   | 21.77   | 23.50   |
|                       |            | 25      | 0         | 20.84                | 20.80   | 21.10   | 22.50   |
|                       |            | 25      | 13        | 20.74                | 20.81   | 21.12   | 22.50   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 25        | 20.73   | 20.82   | 21.11   | 22.50   |
|           |            | 50      | 0         | 20.65   | 20.83   | 21.16   | 22.50   |
|           | 16QAM      | 1       | 0         | 20.86   | 20.59   | 21.22   | 22.50   |
|           |            | 1       | 25        | 20.85   | 20.65   | 20.91   | 22.50   |
|           |            | 1       | 49        | 20.77   | 21.21   | 21.00   | 22.50   |
|           |            | 25      | 0         | 19.95   | 19.81   | 20.02   | 21.50   |
|           |            | 25      | 13        | 19.79   | 19.88   | 20.06   | 21.50   |
|           |            | 25      | 25        | 19.63   | 19.84   | 20.02   | 21.50   |
|           |            | 50      | 0         | 19.61   | 19.90   | 20.04   | 21.50   |
|           |            | 1       | 0         | 19.88   | 19.53   | 19.95   | 21.50   |
|           | 64QAM      | 1       | 25        | 19.71   | 19.87   | 20.02   | 21.50   |
|           |            | 1       | 49        | 19.79   | 19.81   | 20.44   | 21.50   |
|           |            | 25      | 0         | 18.95   | 18.89   | 19.09   | 20.50   |
|           |            | 25      | 13        | 18.76   | 18.82   | 19.05   | 20.50   |
|           |            | 25      | 25        | 18.76   | 18.85   | 18.98   | 20.50   |
|           |            | 50      | 0         | 18.73   | 18.91   | 19.18   | 20.50   |
|           |            | 1       | 0         | 16.61   | 16.81   | 17.00   | 18.50   |
|           | 256QAM     | 1       | 25        | 16.84   | 16.87   | 16.72   | 18.50   |
|           |            | 1       | 49        | 17.60   | 16.98   | 17.57   | 18.50   |
|           |            | 25      | 0         | 17.06   | 16.79   | 16.74   | 18.50   |
|           |            | 25      | 13        | 16.92   | 16.89   | 17.24   | 18.50   |
|           |            | 25      | 25        | 16.85   | 16.94   | 17.18   | 18.50   |
|           |            | 50      | 0         | 16.87   | 16.89   | 17.25   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 21.78   | 21.74   | 21.83   | 23.50   |
|           |            | 1       | 38        | 21.75   | 21.80   | 21.92   | 23.50   |
|           |            | 1       | 74        | 21.76   | 21.66   | 21.70   | 23.50   |
|           |            | 36      | 0         | 20.80   | 20.80   | 21.11   | 22.50   |
|           |            | 36      | 18        | 20.75   | 20.80   | 21.09   | 22.50   |
|           |            | 36      | 39        | 20.72   | 20.83   | 21.10   | 22.50   |
|           |            | 75      | 0         | 20.63   | 20.81   | 21.17   | 22.50   |
|           | 16QAM      | 1       | 0         | 20.79   | 20.58   | 21.19   | 22.50   |
|           |            | 1       | 38        | 20.85   | 20.64   | 20.85   | 22.50   |
|           |            | 1       | 74        | 20.70   | 21.18   | 20.99   | 22.50   |
|           |            | 36      | 0         | 19.92   | 19.81   | 20.05   | 21.50   |
|           |            | 36      | 18        | 19.74   | 19.94   | 20.06   | 21.50   |
|           |            | 36      | 39        | 19.60   | 19.81   | 20.04   | 21.50   |
|           |            | 75      | 0         | 19.60   | 19.87   | 20.06   | 21.50   |



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|           | 64QAM      | 1       | 0         | 19.90   | 19.60   | 19.92   | 21.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 38        | 19.72   | 19.85   | 19.98   | 21.50   |
|           |            | 1       | 74        | 19.80   | 19.85   | 20.41   | 21.50   |
|           |            | 36      | 0         | 18.95   | 18.89   | 19.08   | 20.50   |
|           |            | 36      | 18        | 18.80   | 18.89   | 19.11   | 20.50   |
|           |            | 36      | 39        | 18.73   | 18.86   | 18.95   | 20.50   |
|           |            | 75      | 0         | 18.72   | 18.91   | 19.22   | 20.50   |
|           | 256QAM     | 1       | 0         | 16.65   | 16.85   | 16.97   | 18.50   |
|           |            | 1       | 38        | 16.81   | 16.89   | 16.74   | 18.50   |
|           |            | 1       | 74        | 17.61   | 16.99   | 17.54   | 18.50   |
|           |            | 36      | 0         | 17.00   | 16.75   | 16.77   | 18.50   |
|           |            | 36      | 18        | 16.92   | 16.90   | 17.26   | 18.50   |
|           |            | 36      | 39        | 16.79   | 16.88   | 17.17   | 18.50   |
|           |            | 75      | 0         | 16.88   | 16.91   | 17.26   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 21.75   | 21.69   | 21.81   | 23.50   |
|           |            | 1       | 50        | 21.69   | 21.74   | 21.90   | 23.50   |
|           |            | 1       | 99        | 21.67   | 21.60   | 21.68   | 23.50   |
|           |            | 50      | 0         | 20.76   | 20.71   | 21.04   | 22.50   |
|           |            | 50      | 25        | 20.69   | 20.79   | 21.06   | 22.50   |
|           |            | 50      | 50        | 20.70   | 20.79   | 21.05   | 22.50   |
|           |            | 100     | 0         | 20.59   | 20.79   | 21.13   | 22.50   |
|           | 16QAM      | 1       | 0         | 20.78   | 20.57   | 21.17   | 22.50   |
|           |            | 1       | 50        | 20.80   | 20.58   | 20.84   | 22.50   |
|           |            | 1       | 99        | 20.69   | 21.17   | 20.94   | 22.50   |
|           |            | 50      | 0         | 19.87   | 19.75   | 19.96   | 21.50   |
|           |            | 50      | 25        | 19.71   | 19.86   | 20.03   | 21.50   |
|           |            | 50      | 50        | 19.57   | 19.79   | 19.98   | 21.50   |
|           |            | 100     | 0         | 19.57   | 19.85   | 19.99   | 21.50   |
|           | 64QAM      | 1       | 0         | 19.81   | 19.51   | 19.90   | 21.50   |
|           |            | 1       | 50        | 19.65   | 19.81   | 19.95   | 21.50   |
|           |            | 1       | 99        | 19.78   | 19.79   | 20.37   | 21.50   |
|           |            | 50      | 0         | 18.90   | 18.81   | 19.04   | 20.50   |
|           |            | 50      | 25        | 18.74   | 18.80   | 19.04   | 20.50   |
|           |            | 50      | 50        | 18.69   | 18.84   | 18.94   | 20.50   |
|           |            | 100     | 0         | 18.68   | 18.83   | 19.14   | 20.50   |
|           | 256QAM     | 1       | 0         | 16.57   | 16.78   | 16.95   | 18.50   |
|           |            | 1       | 50        | 16.78   | 16.85   | 16.67   | 18.50   |



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|  |  |     |    |       |       |       |       |
|--|--|-----|----|-------|-------|-------|-------|
|  |  | 1   | 99 | 17.52 | 16.97 | 17.53 | 18.50 |
|  |  | 50  | 0  | 16.97 | 16.71 | 16.73 | 18.50 |
|  |  | 50  | 25 | 16.87 | 16.83 | 17.19 | 18.50 |
|  |  | 50  | 50 | 16.77 | 16.87 | 17.09 | 18.50 |
|  |  | 100 | 0  | 16.83 | 16.87 | 17.18 | 18.50 |



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| LTE Band 7 DS18/9/10 |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz                 | QPSK       | 1       | 0         | 20.29                | 20.13   | 20.47   | 22.00   |
|                      |            | 1       | 13        | 20.34                | 20.31   | 20.59   | 22.00   |
|                      |            | 1       | 24        | 20.31                | 20.25   | 20.36   | 22.00   |
|                      |            | 12      | 0         | 20.50                | 20.30   | 20.70   | 22.00   |
|                      |            | 12      | 6         | 20.41                | 20.31   | 20.69   | 22.00   |
|                      |            | 12      | 13        | 20.34                | 20.35   | 20.59   | 22.00   |
|                      |            | 25      | 0         | 20.51                | 20.36   | 20.64   | 22.00   |
|                      | 16QAM      | 1       | 0         | 20.40                | 20.12   | 20.61   | 22.00   |
|                      |            | 1       | 13        | 20.45                | 20.28   | 20.57   | 22.00   |
|                      |            | 1       | 24        | 20.40                | 20.52   | 20.71   | 22.00   |
|                      |            | 12      | 0         | 19.87                | 19.84   | 19.98   | 21.50   |
|                      |            | 12      | 6         | 19.77                | 19.93   | 20.04   | 21.50   |
|                      |            | 12      | 13        | 19.71                | 19.71   | 20.07   | 21.50   |
|                      |            | 25      | 0         | 19.74                | 19.90   | 20.08   | 21.50   |
|                      | 64QAM      | 1       | 0         | 20.19                | 19.81   | 19.85   | 21.50   |
|                      |            | 1       | 13        | 20.27                | 19.94   | 20.07   | 21.50   |
|                      |            | 1       | 24        | 20.35                | 19.78   | 19.90   | 21.50   |
|                      |            | 12      | 0         | 19.90                | 18.83   | 19.08   | 20.50   |
|                      |            | 12      | 6         | 19.67                | 18.85   | 19.08   | 20.50   |
|                      |            | 12      | 13        | 19.46                | 18.79   | 19.03   | 20.50   |
|                      |            | 25      | 0         | 19.67                | 18.83   | 19.13   | 20.50   |
|                      | 256QAM     | 1       | 0         | 16.84                | 16.71   | 16.82   | 18.50   |
|                      |            | 1       | 13        | 16.67                | 16.65   | 16.80   | 18.50   |
|                      |            | 1       | 24        | 17.34                | 17.00   | 17.66   | 18.50   |
|                      |            | 12      | 0         | 16.93                | 16.85   | 17.12   | 18.50   |
|                      |            | 12      | 6         | 16.94                | 16.87   | 17.17   | 18.50   |
|                      |            | 12      | 13        | 16.83                | 17.00   | 17.07   | 18.50   |
|                      |            | 25      | 0         | 16.89                | 16.84   | 17.18   | 18.50   |
| Bandwidth            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz                | QPSK       | 1       | 0         | 20.32                | 20.13   | 20.49   | 22.00   |
|                      |            | 1       | 25        | 20.33                | 20.28   | 20.55   | 22.00   |
|                      |            | 1       | 49        | 20.28                | 20.24   | 20.35   | 22.00   |
|                      |            | 25      | 0         | 20.49                | 20.30   | 20.69   | 22.00   |
|                      |            | 25      | 13        | 20.38                | 20.26   | 20.69   | 22.00   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 25        | 20.34   | 20.42   | 20.51   | 22.00   |
|           |            | 50      | 0         | 20.54   | 20.36   | 20.62   | 22.00   |
|           | 16QAM      | 1       | 0         | 20.43   | 20.11   | 20.63   | 22.00   |
|           |            | 1       | 25        | 20.47   | 20.26   | 20.54   | 22.00   |
|           |            | 1       | 49        | 20.35   | 20.48   | 20.68   | 22.00   |
|           |            | 25      | 0         | 19.91   | 19.85   | 19.98   | 21.50   |
|           |            | 25      | 13        | 19.79   | 19.89   | 20.01   | 21.50   |
|           |            | 25      | 25        | 19.73   | 19.65   | 20.12   | 21.50   |
|           |            | 50      | 0         | 19.79   | 19.87   | 20.11   | 21.50   |
|           |            | 1       | 0         | 20.21   | 19.81   | 19.87   | 21.50   |
|           | 64QAM      | 1       | 25        | 20.23   | 19.91   | 20.04   | 21.50   |
|           |            | 1       | 49        | 20.34   | 19.71   | 19.88   | 21.50   |
|           |            | 25      | 0         | 19.90   | 18.82   | 19.13   | 20.50   |
|           |            | 25      | 13        | 19.67   | 18.78   | 19.09   | 20.50   |
|           |            | 25      | 25        | 19.53   | 18.79   | 19.05   | 20.50   |
|           |            | 50      | 0         | 19.60   | 18.90   | 19.10   | 20.50   |
|           |            | 1       | 0         | 16.90   | 16.68   | 16.88   | 18.50   |
|           | 256QAM     | 1       | 25        | 16.69   | 16.69   | 16.83   | 18.50   |
|           |            | 1       | 49        | 17.33   | 16.96   | 17.67   | 18.50   |
|           |            | 25      | 0         | 16.90   | 16.87   | 17.14   | 18.50   |
|           |            | 25      | 13        | 16.97   | 16.88   | 17.17   | 18.50   |
|           |            | 25      | 25        | 16.82   | 17.03   | 17.13   | 18.50   |
|           |            | 50      | 0         | 16.89   | 16.84   | 17.23   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 20.37   | 20.13   | 20.50   | 22.00   |
|           |            | 1       | 38        | 20.36   | 20.32   | 20.52   | 22.00   |
|           |            | 1       | 74        | 20.30   | 20.29   | 20.39   | 22.00   |
|           |            | 36      | 0         | 20.46   | 20.29   | 20.64   | 22.00   |
|           |            | 36      | 18        | 20.40   | 20.26   | 20.65   | 22.00   |
|           |            | 36      | 39        | 20.33   | 20.43   | 20.56   | 22.00   |
|           |            | 75      | 0         | 20.49   | 20.39   | 20.60   | 22.00   |
|           | 16QAM      | 1       | 0         | 20.45   | 20.13   | 20.68   | 22.00   |
|           |            | 1       | 38        | 20.40   | 20.26   | 20.62   | 22.00   |
|           |            | 1       | 74        | 20.36   | 20.48   | 20.75   | 22.00   |
|           |            | 36      | 0         | 19.87   | 19.86   | 20.01   | 21.50   |
|           |            | 36      | 18        | 19.83   | 19.94   | 20.03   | 21.50   |
|           |            | 36      | 39        | 19.68   | 19.65   | 20.05   | 21.50   |
|           |            | 75      | 0         | 19.75   | 19.89   | 20.12   | 21.50   |



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|           | 64QAM      | 1       | 0         | 20.22   | 19.81   | 19.84   | 21.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 38        | 20.29   | 19.92   | 20.12   | 21.50   |
|           |            | 1       | 74        | 20.37   | 19.74   | 19.90   | 21.50   |
|           |            | 36      | 0         | 19.91   | 18.86   | 19.11   | 20.50   |
|           |            | 36      | 18        | 19.61   | 18.84   | 19.04   | 20.50   |
|           |            | 36      | 39        | 19.49   | 18.85   | 19.06   | 20.50   |
|           |            | 75      | 0         | 19.67   | 18.86   | 19.12   | 20.50   |
|           | 256QAM     | 1       | 0         | 16.85   | 16.70   | 16.85   | 18.50   |
|           |            | 1       | 38        | 16.62   | 16.67   | 16.84   | 18.50   |
|           |            | 1       | 74        | 17.34   | 16.95   | 17.67   | 18.50   |
|           |            | 36      | 0         | 16.93   | 16.83   | 17.16   | 18.50   |
|           |            | 36      | 18        | 16.98   | 16.87   | 17.17   | 18.50   |
|           |            | 36      | 39        | 16.85   | 17.02   | 17.12   | 18.50   |
|           |            | 75      | 0         | 16.93   | 16.83   | 17.20   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 20.28   | 20.05   | 20.41   | 22.00   |
|           |            | 1       | 50        | 20.31   | 20.24   | 20.51   | 22.00   |
|           |            | 1       | 99        | 20.26   | 20.20   | 20.32   | 22.00   |
|           |            | 50      | 0         | 20.44   | 20.26   | 20.61   | 22.00   |
|           |            | 50      | 25        | 20.34   | 20.25   | 20.62   | 22.00   |
|           |            | 50      | 50        | 20.27   | 20.34   | 20.50   | 22.00   |
|           |            | 100     | 0         | 20.47   | 20.35   | 20.59   | 22.00   |
|           | 16QAM      | 1       | 0         | 20.37   | 20.08   | 20.60   | 22.00   |
|           |            | 1       | 50        | 20.39   | 20.20   | 20.53   | 22.00   |
|           |            | 1       | 99        | 20.31   | 20.46   | 20.66   | 22.00   |
|           |            | 50      | 0         | 19.83   | 19.81   | 19.95   | 21.50   |
|           |            | 50      | 25        | 19.75   | 19.85   | 20.00   | 21.50   |
|           |            | 50      | 50        | 19.66   | 19.64   | 20.04   | 21.50   |
|           |            | 100     | 0         | 19.73   | 19.86   | 20.05   | 21.50   |
|           | 64QAM      | 1       | 0         | 20.17   | 19.74   | 19.78   | 21.50   |
|           |            | 1       | 50        | 20.20   | 19.87   | 20.03   | 21.50   |
|           |            | 1       | 99        | 20.30   | 19.69   | 19.81   | 21.50   |
|           |            | 50      | 0         | 19.82   | 18.81   | 19.04   | 20.50   |
|           |            | 50      | 25        | 19.60   | 18.77   | 19.03   | 20.50   |
|           |            | 50      | 50        | 19.45   | 18.77   | 18.98   | 20.50   |
|           |            | 100     | 0         | 19.58   | 18.81   | 19.08   | 20.50   |
|           | 256QAM     | 1       | 0         | 16.82   | 16.63   | 16.81   | 18.50   |
|           |            | 1       | 50        | 16.60   | 16.63   | 16.75   | 18.50   |



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|  |  |     |    |       |       |       |       |
|--|--|-----|----|-------|-------|-------|-------|
|  |  | 1   | 99 | 17.27 | 16.93 | 17.61 | 18.50 |
|  |  | 50  | 0  | 16.88 | 16.80 | 17.08 | 18.50 |
|  |  | 50  | 25 | 16.90 | 16.81 | 17.13 | 18.50 |
|  |  | 50  | 50 | 16.78 | 16.94 | 17.04 | 18.50 |
|  |  | 100 | 0  | 16.86 | 16.82 | 17.14 | 18.50 |



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| LTE FDD Band 12 DSI2/3/4/5/8/9/10 |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                   |            |         |           | 23017                | 23095   | 23173   |         |
| 1.4MHz                            | QPSK       | 1       | 0         | 23.30                | 23.09   | 23.09   | 24.50   |
|                                   |            | 1       | 2         | 23.28                | 23.25   | 23.23   | 24.50   |
|                                   |            | 1       | 5         | 23.18                | 23.14   | 23.21   | 24.50   |
|                                   |            | 3       | 0         | 23.22                | 23.16   | 23.21   | 24.50   |
|                                   |            | 3       | 2         | 23.19                | 23.12   | 23.17   | 24.50   |
|                                   |            | 3       | 3         | 23.21                | 23.15   | 23.15   | 24.50   |
|                                   |            | 6       | 0         | 22.45                | 22.37   | 22.27   | 23.50   |
|                                   | 16QAM      | 1       | 0         | 22.22                | 22.17   | 22.46   | 23.50   |
|                                   |            | 1       | 2         | 22.18                | 21.93   | 22.25   | 23.50   |
|                                   |            | 1       | 5         | 22.37                | 21.76   | 21.88   | 23.50   |
|                                   |            | 3       | 0         | 22.37                | 21.80   | 21.93   | 23.50   |
|                                   |            | 3       | 2         | 22.33                | 21.75   | 21.93   | 23.50   |
|                                   |            | 3       | 3         | 22.35                | 21.83   | 21.90   | 23.50   |
|                                   |            | 6       | 0         | 21.39                | 21.32   | 21.26   | 22.50   |
|                                   | 64QAM      | 1       | 0         | 22.37                | 21.33   | 21.17   | 22.50   |
|                                   |            | 1       | 2         | 22.40                | 21.39   | 21.13   | 22.50   |
|                                   |            | 1       | 5         | 22.01                | 20.93   | 21.20   | 22.50   |
|                                   |            | 3       | 0         | 22.01                | 20.97   | 21.24   | 22.50   |
|                                   |            | 3       | 2         | 22.05                | 21.00   | 21.25   | 22.50   |
|                                   |            | 3       | 3         | 22.07                | 20.93   | 21.20   | 22.50   |
|                                   |            | 6       | 0         | 21.28                | 20.07   | 20.40   | 21.50   |
|                                   | 256QAM     | 1       | 0         | 18.24                | 18.21   | 18.42   | 19.50   |
|                                   |            | 1       | 2         | 18.32                | 18.28   | 18.29   | 19.50   |
|                                   |            | 1       | 5         | 18.27                | 18.26   | 18.25   | 19.50   |
|                                   |            | 3       | 0         | 18.39                | 18.28   | 18.37   | 19.50   |
|                                   |            | 3       | 2         | 18.38                | 18.39   | 18.30   | 19.50   |
|                                   |            | 3       | 3         | 18.32                | 18.38   | 18.23   | 19.50   |
|                                   |            | 6       | 0         | 18.40                | 18.41   | 18.21   | 19.50   |
| Bandwidth                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 3MHz                              | QPSK       | 1       | 0         | 23.23                | 23.02   | 23.01   | 24.50   |
|                                   |            | 1       | 7         | 23.20                | 23.12   | 23.08   | 24.50   |
|                                   |            | 1       | 14        | 23.14                | 23.10   | 23.04   | 24.50   |
|                                   |            | 8       | 0         | 22.33                | 22.24   | 22.19   | 23.50   |
|                                   |            | 8       | 4         | 22.26                | 22.20   | 22.26   | 23.50   |
|                                   |            |         |           |                      |         |         |         |



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|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 7         | 22.27   | 22.30   | 22.17   | 23.50   |
|           |            | 15      | 0         | 22.31   | 22.27   | 22.21   | 23.50   |
|           | 16QAM      | 1       | 0         | 22.14   | 22.10   | 22.41   | 23.50   |
|           |            | 1       | 7         | 22.08   | 21.89   | 22.17   | 23.50   |
|           |            | 1       | 14        | 22.19   | 21.70   | 21.86   | 23.50   |
|           |            | 8       | 0         | 21.01   | 21.23   | 21.17   | 22.50   |
|           |            | 8       | 4         | 21.06   | 21.24   | 21.18   | 22.50   |
|           |            | 8       | 7         | 21.04   | 21.17   | 21.24   | 22.50   |
|           |            | 15      | 0         | 21.31   | 21.20   | 21.23   | 22.50   |
|           |            | 1       | 0         | 22.22   | 21.23   | 21.10   | 22.50   |
|           | 64QAM      | 1       | 7         | 22.27   | 21.34   | 21.05   | 22.50   |
|           |            | 1       | 14        | 21.90   | 20.87   | 21.12   | 22.50   |
|           |            | 8       | 0         | 21.11   | 20.14   | 20.25   | 21.50   |
|           |            | 8       | 4         | 21.05   | 20.16   | 20.07   | 21.50   |
|           |            | 8       | 7         | 21.25   | 20.19   | 20.21   | 21.50   |
|           |            | 15      | 0         | 21.22   | 19.96   | 20.30   | 21.50   |
|           |            | 1       | 0         | 18.08   | 18.09   | 18.31   | 19.50   |
|           | 256QAM     | 1       | 7         | 18.26   | 18.24   | 18.22   | 19.50   |
|           |            | 1       | 14        | 18.19   | 18.11   | 18.11   | 19.50   |
|           |            | 8       | 0         | 18.26   | 18.15   | 18.23   | 19.50   |
|           |            | 8       | 4         | 18.29   | 18.27   | 18.21   | 19.50   |
|           |            | 8       | 7         | 18.22   | 18.26   | 18.13   | 19.50   |
|           |            | 15      | 0         | 18.31   | 18.23   | 18.12   | 19.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 23035   | 23095   | 23155   |         |
| 5MHz      | QPSK       | 1       | 0         | 23.19   | 23.06   | 23.02   | 24.50   |
|           |            | 1       | 13        | 23.16   | 23.14   | 23.13   | 24.50   |
|           |            | 1       | 24        | 23.13   | 23.04   | 23.11   | 24.50   |
|           |            | 12      | 0         | 22.40   | 22.25   | 22.20   | 23.50   |
|           |            | 12      | 6         | 22.27   | 22.22   | 22.21   | 23.50   |
|           |            | 12      | 13        | 22.32   | 22.26   | 22.20   | 23.50   |
|           |            | 25      | 0         | 22.33   | 22.25   | 22.19   | 23.50   |
|           | 16QAM      | 1       | 0         | 22.16   | 22.11   | 22.34   | 23.50   |
|           |            | 1       | 13        | 22.05   | 21.84   | 22.13   | 23.50   |
|           |            | 1       | 24        | 22.27   | 21.68   | 21.84   | 23.50   |
|           |            | 12      | 0         | 21.01   | 21.21   | 21.15   | 22.50   |
|           |            | 12      | 6         | 21.11   | 21.26   | 21.15   | 22.50   |
|           |            | 12      | 13        | 21.08   | 21.18   | 21.20   | 22.50   |
|           |            | 25      | 0         | 21.34   | 21.22   | 21.23   | 22.50   |



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|           |            | 1       | 0         | 22.22   | 21.19   | 21.09   | 22.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 22.31   | 21.35   | 21.02   | 22.50   |
|           |            | 1       | 24        | 21.93   | 20.90   | 21.12   | 22.50   |
|           | 64QAM      | 12      | 0         | 21.11   | 20.16   | 20.22   | 21.50   |
|           |            | 12      | 6         | 21.06   | 20.16   | 20.07   | 21.50   |
|           |            | 12      | 13        | 21.23   | 20.23   | 20.20   | 21.50   |
|           |            | 25      | 0         | 21.25   | 20.01   | 20.28   | 21.50   |
|           |            | 1       | 0         | 18.09   | 18.09   | 18.28   | 19.50   |
|           |            | 1       | 13        | 18.26   | 18.20   | 18.22   | 19.50   |
|           |            | 1       | 24        | 18.20   | 18.12   | 18.15   | 19.50   |
|           | 256QAM     | 12      | 0         | 18.22   | 18.18   | 18.27   | 19.50   |
|           |            | 12      | 6         | 18.27   | 18.22   | 18.28   | 19.50   |
|           |            | 12      | 13        | 18.29   | 18.24   | 18.17   | 19.50   |
|           |            | 25      | 0         | 18.29   | 18.28   | 18.13   | 19.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 23060   | 23095   | 23130   |         |
| 10MHz     | QPSK       | 1       | 0         | 23.25   | 23.08   | 23.05   | 24.50   |
|           |            | 1       | 25        | 23.22   | 23.20   | 23.14   | 24.50   |
|           |            | 1       | 49        | 23.15   | 23.11   | 23.12   | 24.50   |
|           |            | 25      | 0         | 22.42   | 22.30   | 22.24   | 23.50   |
|           |            | 25      | 13        | 22.30   | 22.25   | 22.27   | 23.50   |
|           |            | 25      | 25        | 22.33   | 22.31   | 22.22   | 23.50   |
|           |            | 50      | 0         | 22.36   | 22.32   | 22.25   | 23.50   |
|           | 16QAM      | 1       | 0         | 22.18   | 22.13   | 22.43   | 23.50   |
|           |            | 1       | 25        | 22.12   | 21.92   | 22.20   | 23.50   |
|           |            | 1       | 49        | 22.28   | 21.74   | 21.87   | 23.50   |
|           |            | 25      | 0         | 21.06   | 21.29   | 21.22   | 22.50   |
|           |            | 25      | 13        | 21.13   | 21.31   | 21.21   | 22.50   |
|           |            | 25      | 25        | 21.10   | 21.26   | 21.27   | 22.50   |
|           |            | 50      | 0         | 21.36   | 21.24   | 21.24   | 22.50   |
|           | 64QAM      | 1       | 0         | 22.29   | 21.26   | 21.14   | 22.50   |
|           |            | 1       | 25        | 22.32   | 21.37   | 21.09   | 22.50   |
|           |            | 1       | 49        | 21.98   | 20.92   | 21.19   | 22.50   |
|           |            | 25      | 0         | 21.13   | 20.20   | 20.28   | 21.50   |
|           |            | 25      | 13        | 21.14   | 20.21   | 20.14   | 21.50   |
|           |            | 25      | 25        | 21.28   | 20.28   | 20.23   | 21.50   |
|           |            | 50      | 0         | 21.27   | 20.02   | 20.31   | 21.50   |
|           | 256QAM     | 1       | 0         | 18.15   | 18.15   | 18.37   | 19.50   |
|           |            | 1       | 25        | 18.30   | 18.27   | 18.25   | 19.50   |



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|  |  |    |    |       |       |       |       |
|--|--|----|----|-------|-------|-------|-------|
|  |  | 1  | 49 | 18.22 | 18.20 | 18.18 | 19.50 |
|  |  | 25 | 0  | 18.31 | 18.24 | 18.28 | 19.50 |
|  |  | 25 | 13 | 18.32 | 18.31 | 18.29 | 19.50 |
|  |  | 25 | 25 | 18.30 | 18.31 | 18.19 | 19.50 |
|  |  | 50 | 0  | 18.34 | 18.32 | 18.18 | 19.50 |



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| LTE FDD Band 13 DS12/3/4/5/8/9/10 |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                   |            |         |           | 23205                | 23230   | 23255   |         |
| 5MHz                              | QPSK       | 1       | 0         | 22.55                | 22.60   | 22.57   | 24.00   |
|                                   |            | 1       | 13        | 22.51                | 22.51   | 22.52   | 24.00   |
|                                   |            | 1       | 24        | 22.49                | 22.50   | 22.48   | 24.00   |
|                                   |            | 12      | 0         | 21.69                | 21.68   | 21.69   | 23.00   |
|                                   |            | 12      | 6         | 21.63                | 21.67   | 21.62   | 23.00   |
|                                   |            | 12      | 13        | 21.61                | 21.57   | 21.63   | 23.00   |
|                                   |            | 25      | 0         | 21.58                | 21.61   | 21.61   | 23.00   |
|                                   | 16QAM      | 1       | 0         | 21.50                | 21.49   | 21.51   | 23.00   |
|                                   |            | 1       | 13        | 21.46                | 21.42   | 21.50   | 23.00   |
|                                   |            | 1       | 24        | 21.58                | 21.63   | 21.58   | 23.00   |
|                                   |            | 12      | 0         | 20.46                | 20.46   | 20.46   | 22.00   |
|                                   |            | 12      | 6         | 20.59                | 20.61   | 20.58   | 22.00   |
|                                   |            | 12      | 13        | 20.71                | 20.72   | 20.73   | 22.00   |
|                                   |            | 25      | 0         | 20.66                | 20.68   | 20.65   | 22.00   |
|                                   | 64QAM      | 1       | 0         | 20.57                | 20.59   | 20.63   | 22.00   |
|                                   |            | 1       | 13        | 20.63                | 20.65   | 20.62   | 22.00   |
|                                   |            | 1       | 24        | 20.71                | 20.70   | 20.72   | 22.00   |
|                                   |            | 12      | 0         | 19.70                | 19.67   | 19.70   | 21.00   |
|                                   |            | 12      | 6         | 19.58                | 19.62   | 19.59   | 21.00   |
|                                   |            | 12      | 13        | 19.69                | 19.75   | 19.69   | 21.00   |
|                                   |            | 25      | 0         | 19.69                | 19.66   | 19.70   | 21.00   |
|                                   | 256QAM     | 1       | 0         | 17.74                | 17.73   | 17.74   | 19.00   |
|                                   |            | 1       | 13        | 17.80                | 17.75   | 17.73   | 19.00   |
|                                   |            | 1       | 24        | 17.77                | 17.82   | 17.77   | 19.00   |
|                                   |            | 12      | 0         | 17.65                | 17.64   | 17.70   | 19.00   |
|                                   |            | 12      | 6         | 17.61                | 17.62   | 17.66   | 19.00   |
|                                   |            | 12      | 13        | 17.71                | 17.77   | 17.79   | 19.00   |
|                                   |            | 25      | 0         | 17.69                | 17.72   | 17.68   | 19.00   |
| Bandwidth                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 10MHz                             | QPSK       | 1       | 0         | /                    | 23230   | /       | 24.00   |
|                                   |            | 1       | 25        | /                    | 22.58   | /       | 24.00   |
|                                   |            | 1       | 49        | /                    | 22.52   | /       | 24.00   |
|                                   |            | 25      | 0         | /                    | 21.75   | /       | 23.00   |
|                                   |            | 25      | 13        | /                    | 21.68   | /       | 23.00   |



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|  |        |    |    |   |       |   |       |
|--|--------|----|----|---|-------|---|-------|
|  |        | 25 | 25 | / | 21.65 | / | 23.00 |
|  |        | 50 | 0  | / | 21.64 | / | 23.00 |
|  | 16QAM  | 1  | 0  | / | 21.56 | / | 23.00 |
|  |        | 1  | 25 | / | 21.51 | / | 23.00 |
|  |        | 1  | 49 | / | 21.67 | / | 23.00 |
|  |        | 25 | 0  | / | 20.53 | / | 22.00 |
|  |        | 25 | 13 | / | 20.64 | / | 22.00 |
|  |        | 25 | 25 | / | 20.78 | / | 22.00 |
|  |        | 50 | 0  | / | 20.7  | / | 22.00 |
|  |        | 1  | 0  | / | 20.64 | / | 22.00 |
|  | 64QAM  | 1  | 25 | / | 20.69 | / | 22.00 |
|  |        | 1  | 49 | / | 20.76 | / | 22.00 |
|  |        | 25 | 0  | / | 19.71 | / | 21.00 |
|  |        | 25 | 13 | / | 19.67 | / | 21.00 |
|  |        | 25 | 25 | / | 19.77 | / | 21.00 |
|  |        | 50 | 0  | / | 19.73 | / | 21.00 |
|  |        | 1  | 0  | / | 17.76 | / | 19.00 |
|  | 256QAM | 1  | 25 | / | 17.82 | / | 19.00 |
|  |        | 1  | 49 | / | 17.84 | / | 19.00 |
|  |        | 25 | 0  | / | 17.73 | / | 19.00 |
|  |        | 25 | 13 | / | 17.70 | / | 19.00 |
|  |        | 25 | 25 | / | 17.80 | / | 19.00 |
|  |        | 50 | 0  | / | 17.75 | / | 19.00 |



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| LTE FDD Band 17 DSI2/3/4/5/8/9/10 |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                   |            |         |           | 23755                | 23790   | 23825   |         |
| 5MHz                              | QPSK       | 1       | 0         | 23.21                | 23.24   | 23.22   | 24.50   |
|                                   |            | 1       | 13        | 23.26                | 23.20   | 23.21   | 24.50   |
|                                   |            | 1       | 24        | 23.15                | 23.12   | 23.11   | 24.50   |
|                                   |            | 12      | 0         | 22.37                | 22.34   | 22.38   | 23.50   |
|                                   |            | 12      | 6         | 22.45                | 22.24   | 22.21   | 23.50   |
|                                   |            | 12      | 13        | 22.37                | 22.25   | 22.35   | 23.50   |
|                                   |            | 25      | 0         | 22.29                | 22.25   | 22.22   | 23.50   |
|                                   | 16QAM      | 1       | 0         | 21.86                | 22.14   | 21.96   | 23.50   |
|                                   |            | 1       | 13        | 22.17                | 22.22   | 22.17   | 23.50   |
|                                   |            | 1       | 24        | 21.99                | 22.16   | 22.23   | 23.50   |
|                                   |            | 12      | 0         | 21.26                | 21.25   | 21.33   | 22.50   |
|                                   |            | 12      | 6         | 21.36                | 21.30   | 21.10   | 22.50   |
|                                   |            | 12      | 13        | 21.28                | 21.28   | 21.13   | 22.50   |
|                                   |            | 25      | 0         | 21.30                | 21.23   | 21.21   | 22.50   |
|                                   | 64QAM      | 1       | 0         | 21.56                | 21.17   | 21.26   | 22.50   |
|                                   |            | 1       | 13        | 21.39                | 21.20   | 21.38   | 22.50   |
|                                   |            | 1       | 24        | 21.30                | 21.07   | 21.12   | 22.50   |
|                                   |            | 12      | 0         | 20.20                | 20.25   | 20.14   | 21.50   |
|                                   |            | 12      | 6         | 20.32                | 20.27   | 20.11   | 21.50   |
|                                   |            | 12      | 13        | 20.28                | 20.12   | 20.15   | 21.50   |
|                                   |            | 25      | 0         | 20.19                | 20.25   | 20.06   | 21.50   |
|                                   | 256QAM     | 1       | 0         | 18.27                | 18.34   | 18.30   | 19.50   |
|                                   |            | 1       | 13        | 18.20                | 18.23   | 18.31   | 19.50   |
|                                   |            | 1       | 24        | 18.15                | 18.31   | 18.31   | 19.50   |
|                                   |            | 12      | 0         | 18.22                | 18.24   | 18.34   | 19.50   |
|                                   |            | 12      | 6         | 18.28                | 18.22   | 18.16   | 19.50   |
|                                   |            | 12      | 13        | 18.25                | 18.29   | 18.32   | 19.50   |
|                                   |            | 25      | 0         | 18.22                | 18.30   | 18.30   | 19.50   |
| Bandwidth                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                   |            |         |           | 23780                | 23790   | 23800   |         |
| 10MHz                             | QPSK       | 1       | 0         | 23.23                | 23.27   | 23.24   | 24.50   |
|                                   |            | 1       | 25        | 23.29                | 23.28   | 23.24   | 24.50   |
|                                   |            | 1       | 49        | 23.19                | 23.20   | 23.13   | 24.50   |
|                                   |            | 25      | 0         | 22.38                | 22.35   | 22.39   | 23.50   |
|                                   |            | 25      | 13        | 22.46                | 22.33   | 22.25   | 23.50   |



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|  |        |    |    |       |       |       |       |
|--|--------|----|----|-------|-------|-------|-------|
|  |        | 25 | 25 | 22.44 | 22.31 | 22.36 | 23.50 |
|  |        | 50 | 0  | 22.30 | 22.32 | 22.28 | 23.50 |
|  | 16QAM  | 1  | 0  | 21.87 | 22.20 | 22.01 | 23.50 |
|  |        | 1  | 25 | 22.23 | 22.28 | 22.25 | 23.50 |
|  |        | 1  | 49 | 22.04 | 22.20 | 22.31 | 23.50 |
|  |        | 25 | 0  | 21.30 | 21.33 | 21.36 | 22.50 |
|  |        | 25 | 13 | 21.45 | 21.32 | 21.19 | 22.50 |
|  |        | 25 | 25 | 21.29 | 21.35 | 21.15 | 22.50 |
|  |        | 50 | 0  | 21.31 | 21.25 | 21.23 | 22.50 |
|  |        | 1  | 0  | 21.59 | 21.18 | 21.34 | 22.50 |
|  | 64QAM  | 1  | 25 | 21.42 | 21.29 | 21.45 | 22.50 |
|  |        | 1  | 49 | 21.35 | 21.15 | 21.16 | 22.50 |
|  |        | 25 | 0  | 20.28 | 20.29 | 20.18 | 21.50 |
|  |        | 25 | 13 | 20.38 | 20.29 | 20.15 | 21.50 |
|  |        | 25 | 25 | 20.35 | 20.16 | 20.23 | 21.50 |
|  |        | 50 | 0  | 20.26 | 20.32 | 20.13 | 21.50 |
|  |        | 1  | 0  | 18.28 | 18.40 | 18.35 | 19.50 |
|  | 256QAM | 1  | 25 | 18.21 | 18.31 | 18.40 | 19.50 |
|  |        | 1  | 49 | 18.23 | 18.33 | 18.34 | 19.50 |
|  |        | 25 | 0  | 18.23 | 18.30 | 18.39 | 19.50 |
|  |        | 25 | 13 | 18.31 | 18.24 | 18.22 | 19.50 |
|  |        | 25 | 25 | 18.32 | 18.38 | 18.37 | 19.50 |
|  |        | 50 | 0  | 18.31 | 18.38 | 18.34 | 19.50 |



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| LTE Band 26 DS12/3/4/5 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 26697                | 26865   | 27033   |         |
| 1.4MHz                 | QPSK       | 1       | 0         | 23.34                | 23.39   | 23.30   | 25.00   |
|                        |            | 1       | 2         | 23.41                | 23.28   | 23.32   | 25.00   |
|                        |            | 1       | 5         | 23.17                | 23.36   | 23.24   | 25.00   |
|                        |            | 3       | 0         | 23.19                | 23.34   | 23.23   | 25.00   |
|                        |            | 3       | 2         | 23.19                | 23.38   | 23.23   | 25.00   |
|                        |            | 3       | 3         | 23.14                | 23.39   | 23.20   | 25.00   |
|                        |            | 6       | 0         | 22.43                | 22.48   | 22.33   | 24.00   |
|                        | 16QAM      | 1       | 0         | 22.38                | 22.02   | 22.01   | 24.00   |
|                        |            | 1       | 2         | 22.73                | 22.21   | 22.18   | 24.00   |
|                        |            | 1       | 5         | 22.12                | 22.58   | 22.40   | 24.00   |
|                        |            | 3       | 0         | 22.16                | 22.60   | 22.41   | 24.00   |
|                        |            | 3       | 2         | 22.15                | 22.59   | 22.39   | 24.00   |
|                        |            | 3       | 3         | 22.16                | 22.54   | 22.41   | 24.00   |
|                        |            | 6       | 0         | 21.23                | 21.43   | 21.43   | 23.00   |
|                        | 64QAM      | 1       | 0         | 21.19                | 21.44   | 21.28   | 23.00   |
|                        |            | 1       | 2         | 22.15                | 21.26   | 21.36   | 23.00   |
|                        |            | 1       | 5         | 21.94                | 21.43   | 21.12   | 23.00   |
|                        |            | 3       | 0         | 21.89                | 21.47   | 21.18   | 23.00   |
|                        |            | 3       | 2         | 21.93                | 21.42   | 21.18   | 23.00   |
|                        |            | 3       | 3         | 21.93                | 21.47   | 21.14   | 23.00   |
|                        |            | 6       | 0         | 21.24                | 20.51   | 20.50   | 22.00   |
|                        | 256QAM     | 1       | 0         | 18.53                | 18.42   | 18.48   | 20.00   |
|                        |            | 1       | 2         | 18.20                | 18.19   | 18.34   | 20.00   |
|                        |            | 1       | 5         | 18.49                | 18.56   | 18.40   | 20.00   |
|                        |            | 3       | 0         | 18.50                | 18.37   | 18.30   | 20.00   |
|                        |            | 3       | 2         | 18.46                | 18.39   | 18.44   | 20.00   |
|                        |            | 3       | 3         | 18.41                | 18.51   | 18.58   | 20.00   |
|                        |            | 6       | 0         | 18.27                | 18.47   | 18.50   | 20.00   |
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 26705                | 26865   | 27025   |         |
| 3MHz                   | QPSK       | 1       | 0         | 23.37                | 23.38   | 23.29   | 25.00   |
|                        |            | 1       | 7         | 23.37                | 23.33   | 23.37   | 25.00   |
|                        |            | 1       | 14        | 23.12                | 23.33   | 23.17   | 25.00   |
|                        |            | 8       | 0         | 22.40                | 22.52   | 22.40   | 24.00   |
|                        |            | 8       | 4         | 22.46                | 22.47   | 22.37   | 24.00   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 7         | 22.44   | 22.47   | 22.40   | 24.00   |
|           |            | 15      | 0         | 22.41   | 22.50   | 22.34   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.37   | 22.03   | 22.03   | 24.00   |
|           |            | 1       | 7         | 22.78   | 22.25   | 22.17   | 24.00   |
|           |            | 1       | 14        | 22.17   | 22.60   | 22.47   | 24.00   |
|           |            | 8       | 0         | 21.36   | 21.41   | 21.41   | 23.00   |
|           |            | 8       | 4         | 21.24   | 21.28   | 21.30   | 23.00   |
|           |            | 8       | 7         | 21.34   | 21.41   | 21.17   | 23.00   |
|           |            | 15      | 0         | 21.22   | 21.48   | 21.44   | 23.00   |
|           |            | 1       | 0         | 21.17   | 21.43   | 21.29   | 23.00   |
|           | 64QAM      | 1       | 7         | 22.09   | 21.31   | 21.39   | 23.00   |
|           |            | 1       | 14        | 21.89   | 21.46   | 21.18   | 23.00   |
|           |            | 8       | 0         | 21.18   | 20.37   | 20.34   | 22.00   |
|           |            | 8       | 4         | 21.31   | 20.37   | 20.35   | 22.00   |
|           |            | 8       | 7         | 21.33   | 20.44   | 20.26   | 22.00   |
|           |            | 15      | 0         | 21.24   | 20.48   | 20.54   | 22.00   |
|           |            | 1       | 0         | 18.56   | 18.40   | 18.50   | 20.00   |
|           | 256QAM     | 1       | 7         | 18.13   | 18.18   | 18.30   | 20.00   |
|           |            | 1       | 14        | 18.52   | 18.59   | 18.36   | 20.00   |
|           |            | 8       | 0         | 18.52   | 18.35   | 18.30   | 20.00   |
|           |            | 8       | 4         | 18.45   | 18.45   | 18.44   | 20.00   |
|           |            | 8       | 7         | 18.44   | 18.53   | 18.53   | 20.00   |
|           |            | 15      | 0         | 18.27   | 18.52   | 18.42   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26715   | 26865   | 27015   |         |
| 5MHz      | QPSK       | 1       | 0         | 23.50   | 23.52   | 23.40   | 25.00   |
|           |            | 1       | 13        | 23.49   | 23.36   | 23.42   | 25.00   |
|           |            | 1       | 24        | 23.22   | 23.48   | 23.27   | 25.00   |
|           |            | 12      | 0         | 22.51   | 22.55   | 22.45   | 24.00   |
|           |            | 12      | 6         | 22.50   | 22.62   | 22.48   | 24.00   |
|           |            | 12      | 13        | 22.48   | 22.59   | 22.45   | 24.00   |
|           |            | 25      | 0         | 22.56   | 22.61   | 22.44   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.52   | 22.17   | 22.10   | 24.00   |
|           |            | 1       | 13        | 22.87   | 22.30   | 22.33   | 24.00   |
|           |            | 1       | 24        | 22.30   | 22.69   | 22.56   | 24.00   |
|           |            | 12      | 0         | 21.47   | 21.54   | 21.53   | 23.00   |
|           |            | 12      | 6         | 21.29   | 21.34   | 21.39   | 23.00   |
|           |            | 12      | 13        | 21.42   | 21.57   | 21.30   | 23.00   |
|           |            | 25      | 0         | 21.36   | 21.51   | 21.52   | 23.00   |



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|           | 64QAM      | 1       | 0         | 21.31   | 21.54   | 21.38   | 23.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 22.22   | 21.37   | 21.46   | 23.00   |
|           |            | 1       | 24        | 21.98   | 21.54   | 21.25   | 23.00   |
|           |            | 12      | 0         | 21.29   | 20.41   | 20.45   | 22.00   |
|           |            | 12      | 6         | 21.39   | 20.46   | 20.42   | 22.00   |
|           |            | 12      | 13        | 21.42   | 20.48   | 20.29   | 22.00   |
|           |            | 25      | 0         | 21.35   | 20.59   | 20.68   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.60   | 18.52   | 18.58   | 20.00   |
|           |            | 1       | 13        | 18.23   | 18.31   | 18.38   | 20.00   |
|           |            | 1       | 24        | 18.60   | 18.67   | 18.50   | 20.00   |
|           |            | 12      | 0         | 18.59   | 18.48   | 18.33   | 20.00   |
|           |            | 12      | 6         | 18.52   | 18.51   | 18.53   | 20.00   |
|           |            | 12      | 13        | 18.52   | 18.61   | 18.68   | 20.00   |
|           |            | 25      | 0         | 18.41   | 18.59   | 18.54   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26740   | 26865   | 26990   |         |
| 10MHz     | QPSK       | 1       | 0         | 23.48   | 23.53   | 23.39   | 25.00   |
|           |            | 1       | 25        | 23.49   | 23.41   | 23.46   | 25.00   |
|           |            | 1       | 49        | 23.24   | 23.49   | 23.28   | 25.00   |
|           |            | 25      | 0         | 22.52   | 22.57   | 22.51   | 24.00   |
|           |            | 25      | 13        | 22.49   | 22.60   | 22.51   | 24.00   |
|           |            | 25      | 25        | 22.56   | 22.59   | 22.49   | 24.00   |
|           |            | 50      | 0         | 22.48   | 22.60   | 22.51   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.53   | 22.09   | 22.10   | 24.00   |
|           |            | 1       | 25        | 22.80   | 22.28   | 22.30   | 24.00   |
|           |            | 1       | 49        | 22.29   | 22.66   | 22.51   | 24.00   |
|           |            | 25      | 0         | 21.50   | 21.56   | 21.56   | 23.00   |
|           |            | 25      | 13        | 21.32   | 21.38   | 21.43   | 23.00   |
|           |            | 25      | 25        | 21.48   | 21.55   | 21.31   | 23.00   |
|           |            | 50      | 0         | 21.32   | 21.59   | 21.53   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.32   | 21.59   | 21.33   | 23.00   |
|           |            | 1       | 25        | 22.20   | 21.43   | 21.43   | 23.00   |
|           |            | 1       | 49        | 22.02   | 21.52   | 21.22   | 23.00   |
|           |            | 25      | 0         | 21.34   | 20.43   | 20.45   | 22.00   |
|           |            | 25      | 13        | 21.43   | 20.46   | 20.43   | 22.00   |
|           |            | 25      | 25        | 21.45   | 20.53   | 20.37   | 22.00   |
|           |            | 50      | 0         | 21.39   | 20.56   | 20.67   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.62   | 18.46   | 18.56   | 20.00   |
|           |            | 1       | 25        | 18.23   | 18.28   | 18.38   | 20.00   |



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|           |            | 1       | 49        | 18.58   | 18.67   | 18.51   | 20.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 18.58   | 18.47   | 18.34   | 20.00   |
|           |            | 25      | 13        | 18.52   | 18.52   | 18.53   | 20.00   |
|           |            | 25      | 25        | 18.55   | 18.59   | 18.67   | 20.00   |
|           |            | 50      | 0         | 18.42   | 18.65   | 18.55   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26765   | 26865   | 26965   |         |
| 15MHz     | QPSK       | 1       | 0         | 23.41   | 23.45   | 23.36   | 25.00   |
|           |            | 1       | 38        | 23.43   | 23.35   | 23.38   | 25.00   |
|           |            | 1       | 74        | 23.21   | 23.41   | 23.25   | 25.00   |
|           |            | 36      | 0         | 22.47   | 22.53   | 22.42   | 24.00   |
|           |            | 36      | 18        | 22.45   | 22.50   | 22.40   | 24.00   |
|           |            | 36      | 39        | 22.40   | 22.48   | 22.39   | 24.00   |
|           |            | 75      | 0         | 22.41   | 22.52   | 22.37   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.44   | 22.08   | 22.06   | 24.00   |
|           |            | 1       | 38        | 22.79   | 22.26   | 22.24   | 24.00   |
|           |            | 1       | 74        | 22.21   | 22.61   | 22.48   | 24.00   |
|           |            | 36      | 0         | 21.43   | 21.47   | 21.48   | 23.00   |
|           |            | 36      | 18        | 21.27   | 21.31   | 21.37   | 23.00   |
|           |            | 36      | 39        | 21.40   | 21.49   | 21.23   | 23.00   |
|           |            | 75      | 0         | 21.30   | 21.50   | 21.46   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.26   | 21.50   | 21.30   | 23.00   |
|           |            | 1       | 38        | 22.18   | 21.34   | 21.40   | 23.00   |
|           |            | 1       | 74        | 21.95   | 21.51   | 21.19   | 23.00   |
|           |            | 36      | 0         | 21.27   | 20.39   | 20.41   | 22.00   |
|           |            | 36      | 18        | 21.37   | 20.41   | 20.37   | 22.00   |
|           |            | 36      | 39        | 21.38   | 20.47   | 20.28   | 22.00   |
|           |            | 75      | 0         | 21.33   | 20.53   | 20.59   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.58   | 18.45   | 18.51   | 20.00   |
|           |            | 1       | 38        | 18.22   | 18.23   | 18.35   | 20.00   |
|           |            | 1       | 74        | 18.56   | 18.64   | 18.42   | 20.00   |
|           |            | 36      | 0         | 18.56   | 18.43   | 18.32   | 20.00   |
|           |            | 36      | 18        | 18.51   | 18.46   | 18.50   | 20.00   |
|           |            | 36      | 39        | 18.49   | 18.58   | 18.59   | 20.00   |
|           |            | 75      | 0         | 18.36   | 18.56   | 18.51   | 20.00   |



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| LTE Band 26 DS18/9/10 |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 26697                | 26865   | 27033   |         |
| 1.4MHz                | QPSK       | 1       | 0         | 22.44                | 22.43   | 22.49   | 24.00   |
|                       |            | 1       | 2         | 22.41                | 22.47   | 22.49   | 24.00   |
|                       |            | 1       | 5         | 22.41                | 22.35   | 22.44   | 24.00   |
|                       |            | 3       | 0         | 22.48                | 22.46   | 22.47   | 24.00   |
|                       |            | 3       | 2         | 22.58                | 22.50   | 22.24   | 24.00   |
|                       |            | 3       | 3         | 22.55                | 22.47   | 22.29   | 24.00   |
|                       |            | 6       | 0         | 22.53                | 22.53   | 22.45   | 24.00   |
|                       | 16QAM      | 1       | 0         | 22.35                | 22.42   | 22.29   | 24.00   |
|                       |            | 1       | 2         | 22.68                | 22.42   | 22.51   | 24.00   |
|                       |            | 1       | 5         | 22.32                | 22.09   | 22.13   | 24.00   |
|                       |            | 3       | 0         | 22.38                | 22.07   | 22.16   | 24.00   |
|                       |            | 3       | 2         | 22.36                | 22.04   | 22.18   | 24.00   |
|                       |            | 3       | 3         | 22.36                | 22.07   | 22.11   | 24.00   |
|                       |            | 6       | 0         | 21.60                | 21.58   | 21.65   | 23.00   |
|                       | 64QAM      | 1       | 0         | 21.38                | 21.49   | 21.23   | 23.00   |
|                       |            | 1       | 2         | 21.58                | 21.10   | 21.55   | 23.00   |
|                       |            | 1       | 5         | 21.39                | 21.28   | 21.23   | 23.00   |
|                       |            | 3       | 0         | 21.39                | 21.33   | 21.16   | 23.00   |
|                       |            | 3       | 2         | 21.36                | 21.31   | 21.20   | 23.00   |
|                       |            | 3       | 3         | 21.34                | 21.29   | 21.16   | 23.00   |
|                       |            | 6       | 0         | 20.48                | 20.49   | 20.43   | 22.00   |
|                       | 256QAM     | 1       | 0         | 18.22                | 18.57   | 18.66   | 20.00   |
|                       |            | 1       | 2         | 18.34                | 18.29   | 18.37   | 20.00   |
|                       |            | 1       | 5         | 18.79                | 18.67   | 18.53   | 20.00   |
|                       |            | 3       | 0         | 18.56                | 18.29   | 18.52   | 20.00   |
|                       |            | 3       | 2         | 18.39                | 18.42   | 18.55   | 20.00   |
|                       |            | 3       | 3         | 18.57                | 18.53   | 18.63   | 20.00   |
|                       |            | 6       | 0         | 18.62                | 18.58   | 18.55   | 20.00   |
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 3MHz                  | QPSK       | 1       | 0         | 22.44                | 22.45   | 22.45   | 24.00   |
|                       |            | 1       | 7         | 22.41                | 22.41   | 22.54   | 24.00   |
|                       |            | 1       | 14        | 22.36                | 22.43   | 22.44   | 24.00   |
|                       |            | 8       | 0         | 22.44                | 22.40   | 22.48   | 24.00   |
|                       |            | 8       | 4         | 22.53                | 22.42   | 22.16   | 24.00   |
|                       |            |         |           |                      |         |         |         |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 7         | 22.57   | 22.49   | 22.34   | 24.00   |
|           |            | 15      | 0         | 22.55   | 22.58   | 22.45   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.31   | 22.44   | 22.35   | 24.00   |
|           |            | 1       | 7         | 22.72   | 22.37   | 22.57   | 24.00   |
|           |            | 1       | 14        | 22.37   | 22.09   | 22.12   | 24.00   |
|           |            | 8       | 0         | 21.31   | 21.48   | 21.38   | 23.00   |
|           |            | 8       | 4         | 21.46   | 21.46   | 21.28   | 23.00   |
|           |            | 8       | 7         | 21.49   | 21.50   | 21.50   | 23.00   |
|           |            | 15      | 0         | 21.58   | 21.52   | 21.66   | 23.00   |
|           |            | 1       | 0         | 21.40   | 21.46   | 21.30   | 23.00   |
|           | 64QAM      | 1       | 7         | 21.57   | 21.09   | 21.56   | 23.00   |
|           |            | 1       | 14        | 21.34   | 21.31   | 21.18   | 23.00   |
|           |            | 8       | 0         | 20.40   | 20.42   | 20.20   | 22.00   |
|           |            | 8       | 4         | 20.42   | 20.49   | 20.44   | 22.00   |
|           |            | 8       | 7         | 20.47   | 20.50   | 20.60   | 22.00   |
|           |            | 15      | 0         | 20.45   | 20.45   | 20.44   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.18   | 18.50   | 18.60   | 20.00   |
|           |            | 1       | 7         | 18.36   | 18.29   | 18.36   | 20.00   |
|           |            | 1       | 14        | 18.77   | 18.67   | 18.55   | 20.00   |
|           |            | 8       | 0         | 18.59   | 18.34   | 18.46   | 20.00   |
|           |            | 8       | 4         | 18.41   | 18.40   | 18.56   | 20.00   |
|           |            | 8       | 7         | 18.56   | 18.56   | 18.63   | 20.00   |
|           |            | 15      | 0         | 18.59   | 18.63   | 18.58   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26715   | 26865   | 27015   |         |
| 5MHz      | QPSK       | 1       | 0         | 22.46   | 22.44   | 22.49   | 24.00   |
|           |            | 1       | 13        | 22.44   | 22.47   | 22.51   | 24.00   |
|           |            | 1       | 24        | 22.39   | 22.41   | 22.44   | 24.00   |
|           |            | 12      | 0         | 22.48   | 22.40   | 22.49   | 24.00   |
|           |            | 12      | 6         | 22.56   | 22.50   | 22.20   | 24.00   |
|           |            | 12      | 13        | 22.61   | 22.48   | 22.33   | 24.00   |
|           |            | 25      | 0         | 22.54   | 22.55   | 22.49   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.34   | 22.42   | 22.27   | 24.00   |
|           |            | 1       | 13        | 22.73   | 22.40   | 22.56   | 24.00   |
|           |            | 1       | 24        | 22.30   | 22.02   | 22.17   | 24.00   |
|           |            | 12      | 0         | 21.37   | 21.47   | 21.44   | 23.00   |
|           |            | 12      | 6         | 21.51   | 21.49   | 21.31   | 23.00   |
|           |            | 12      | 13        | 21.44   | 21.52   | 21.46   | 23.00   |
|           |            | 25      | 0         | 21.52   | 21.58   | 21.63   | 23.00   |



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