

<Full Power>

| LTE-FDD Band 66 |               |           |            | Actual output Power (dBm) |         |           | Tune up |
|-----------------|---------------|-----------|------------|---------------------------|---------|-----------|---------|
| Band-width      | RB allocation | RB offset | Modulation | High                      | Middle  | Low       |         |
| 15 MHz          |               |           |            | 1772.5MHz                 | 1745MHz | 1717.5MHz |         |
|                 | 1RB           | High      | QPSK       | 24.27                     | 24.21   | 24.23     | 25      |
|                 |               |           | 16QAM      | 23.70                     | 23.67   | 23.53     | 24      |
|                 |               | Middle    | QPSK       | 24.18                     | 24.19   | 24.13     | 25      |
|                 |               |           | 16QAM      | 23.67                     | 23.66   | 23.48     | 24      |
|                 |               | Low       | QPSK       | 23.92                     | 23.95   | 23.89     | 25      |
|                 |               |           | 16QAM      | 23.46                     | 23.41   | 23.35     | 24      |
|                 | 36RB          | High      | QPSK       | 23.47                     | 23.53   | 23.55     | 24      |
|                 |               |           | 16QAM      | 22.52                     | 22.49   | 22.46     | 23      |
|                 |               | Middle    | QPSK       | 23.56                     | 23.43   | 23.51     | 24      |
|                 |               |           | 16QAM      | 22.59                     | 22.35   | 22.41     | 23      |
|                 |               | Low       | QPSK       | 23.44                     | 23.36   | 23.49     | 24      |
|                 |               |           | 16QAM      | 22.51                     | 22.36   | 22.37     | 23      |
|                 | 75RB          | /         | QPSK       | 23.47                     | 23.42   | 23.41     | 24      |
|                 |               |           | 16QAM      | 22.44                     | 22.43   | 22.42     | 23      |
| 20 MHz          |               |           |            | 1770MHz                   | 1745MHz | 1720MHz   | /       |
|                 | 1RB           | High      | QPSK       | 24.57                     | 24.52   | 24.67     | 25      |
|                 |               |           | 16QAM      | 24.00                     | 23.98   | 23.97     | 24      |
|                 |               | Middle    | QPSK       | 24.48                     | 24.14   | 24.49     | 25      |
|                 |               |           | 16QAM      | 23.95                     | 23.90   | 23.70     | 24      |
|                 |               | Low       | QPSK       | 24.20                     | 24.05   | 24.13     | 25      |
|                 |               |           | 16QAM      | 23.37                     | 23.32   | 23.29     | 24      |
|                 | 50RB          | High      | QPSK       | 23.47                     | 23.52   | 23.49     | 24      |
|                 |               |           | 16QAM      | 22.54                     | 22.52   | 22.48     | 23      |
|                 |               | Middle    | QPSK       | 23.56                     | 23.43   | 23.54     | 24      |
|                 |               |           | 16QAM      | 22.62                     | 22.39   | 22.50     | 23      |
|                 |               | Low       | QPSK       | 23.50                     | 23.47   | 23.40     | 24      |
|                 |               |           | 16QAM      | 22.54                     | 22.41   | 22.38     | 23      |
|                 | 100RB         | /         | QPSK       | 23.65                     | 23.51   | 23.49     | 24      |
|                 |               |           | 16QAM      | 22.47                     | 22.49   | 22.44     | 23      |

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| LTE-FDD Band 71 |               |           |            | Actual output Power (dBm) |          |          | Tune up |
|-----------------|---------------|-----------|------------|---------------------------|----------|----------|---------|
| Band-width      | RB allocation | RB offset | Modulation | High                      | Middle   | Low      |         |
| 5 MHz           |               |           |            | 695.5MHz                  | 680.5MHz | 665.5MHz |         |
|                 | 1RB           | High      | QPSK       | 22.93                     | 22.86    | 22.84    | 24      |
|                 |               |           | 16QAM      | 21.93                     | 22.01    | 21.94    | 23      |
|                 |               | Middle    | QPSK       | 23.13                     | 22.93    | 22.90    | 24      |
|                 |               |           | 16QAM      | 22.34                     | 22.21    | 22.17    | 23      |
|                 |               | Low       | QPSK       | 23.03                     | 23.02    | 23.20    | 24      |
|                 |               |           | 16QAM      | 22.29                     | 22.28    | 22.35    | 23      |
|                 | 12RB          | High      | QPSK       | 21.70                     | 21.63    | 21.42    | 23      |
|                 |               |           | 16QAM      | 20.80                     | 20.75    | 20.49    | 22      |
|                 |               | Middle    | QPSK       | 21.79                     | 21.83    | 21.71    | 23      |
|                 |               |           | 16QAM      | 20.87                     | 20.89    | 20.70    | 22      |
|                 |               | Low       | QPSK       | 21.92                     | 21.93    | 21.93    | 23      |
|                 |               |           | 16QAM      | 21.00                     | 20.97    | 20.94    | 22      |
|                 | 25RB          | /         | QPSK       | 21.83                     | 21.72    | 21.70    | 23      |
|                 |               |           | 16QAM      | 20.89                     | 20.74    | 20.77    | 22      |
| 10 MHz          |               |           |            | 693MHz                    | 680.5MHz | 668MHz   | /       |
|                 | 1RB           | High      | QPSK       | 22.99                     | 22.87    | 22.88    | 24      |
|                 |               |           | 16QAM      | 21.99                     | 22.02    | 21.98    | 23      |
|                 |               | Middle    | QPSK       | 23.19                     | 22.94    | 22.94    | 24      |
|                 |               |           | 16QAM      | 22.40                     | 22.22    | 22.21    | 23      |
|                 |               | Low       | QPSK       | 23.09                     | 23.03    | 23.24    | 24      |
|                 |               |           | 16QAM      | 22.35                     | 22.29    | 22.39    | 23      |
|                 | 25RB          | High      | QPSK       | 21.76                     | 21.64    | 21.46    | 23      |
|                 |               |           | 16QAM      | 20.86                     | 20.76    | 20.53    | 22      |
|                 |               | Middle    | QPSK       | 21.85                     | 21.84    | 21.75    | 23      |
|                 |               |           | 16QAM      | 20.93                     | 20.90    | 20.74    | 22      |
|                 |               | Low       | QPSK       | 21.98                     | 21.94    | 21.97    | 23      |
|                 |               |           | 16QAM      | 21.06                     | 20.98    | 20.98    | 22      |
|                 | 50RB          | /         | QPSK       | 21.89                     | 21.73    | 21.74    | 23      |
|                 |               |           | 16QAM      | 20.95                     | 20.75    | 20.81    | 22      |

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| LTE-FDD Band 71 |               |           |            | Actual output Power (dBm) |          |          | Tune up |
|-----------------|---------------|-----------|------------|---------------------------|----------|----------|---------|
| Band-width      | RB allocation | RB offset | Modulation | High                      | Middle   | Low      |         |
| 15 MHz          |               |           |            | 690.5MHz                  | 680.5MHz | 670.5MHz |         |
|                 | 1RB           | /         | QPSK       | 23.12                     | 23.01    | 23.05    | 24      |
|                 |               |           | 16QAM      | 22.12                     | 22.16    | 22.15    | 23      |
|                 |               | /         | QPSK       | 23.32                     | 23.08    | 23.11    | 24      |
|                 |               |           | 16QAM      | 22.53                     | 22.36    | 22.38    | 23      |
|                 |               | /         | QPSK       | 23.22                     | 23.17    | 23.41    | 24      |
|                 |               |           | 16QAM      | 22.48                     | 22.43    | 22.56    | 23      |
|                 | 36RB          | /         | QPSK       | 21.89                     | 21.78    | 21.63    | 23      |
|                 |               |           | 16QAM      | 20.99                     | 20.90    | 20.70    | 22      |
|                 |               | /         | QPSK       | 21.98                     | 21.98    | 21.92    | 23      |
|                 |               |           | 16QAM      | 21.06                     | 21.04    | 20.91    | 22      |
|                 |               | /         | QPSK       | 22.11                     | 22.08    | 22.14    | 23      |
|                 |               |           | 16QAM      | 21.19                     | 21.12    | 21.15    | 22      |
|                 | 75RB          | /         | QPSK       | 22.02                     | 21.87    | 21.91    | 23      |
|                 |               |           | 16QAM      | 21.08                     | 20.89    | 20.98    | 22      |
| 20 MHz          |               |           |            | 688MHz                    | 683MHz   | 673MHz   | /       |
|                 | 1RB           | /         | QPSK       | 23.01                     | 22.92    | 22.91    | 24      |
|                 |               |           | 16QAM      | 22.01                     | 22.07    | 22.01    | 23      |
|                 |               | /         | QPSK       | 23.21                     | 22.99    | 22.97    | 24      |
|                 |               |           | 16QAM      | 22.42                     | 22.27    | 22.24    | 23      |
|                 |               | /         | QPSK       | 23.11                     | 23.08    | 23.27    | 24      |
|                 |               |           | 16QAM      | 22.37                     | 22.34    | 22.42    | 23      |
|                 | 50RB          | /         | QPSK       | 21.78                     | 21.69    | 21.49    | 23      |
|                 |               |           | 16QAM      | 20.88                     | 20.81    | 20.56    | 22      |
|                 |               | /         | QPSK       | 21.87                     | 21.89    | 21.78    | 23      |
|                 |               |           | 16QAM      | 20.95                     | 20.95    | 20.77    | 22      |
|                 |               | /         | QPSK       | 22.00                     | 21.99    | 22.00    | 23      |
|                 |               |           | 16QAM      | 21.08                     | 21.03    | 21.01    | 22      |
|                 | 100RB         | /         | QPSK       | 21.91                     | 21.78    | 21.77    | 23      |
|                 |               |           | 16QAM      | 20.97                     | 20.80    | 20.84    | 22      |

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| LTE-FDD Band 2 |               |           |            | Actual output Power (dBm) |         |           | Tune up |
|----------------|---------------|-----------|------------|---------------------------|---------|-----------|---------|
| Band-width     | RB allocation | RB offset | Modulation | High                      | Middle  | Low       |         |
| 1.4 MHz        |               |           |            | 1909.3MHz                 | 1880MHz | 1850.7MHz |         |
|                | 1RB           | High      | QPSK       | 19.41                     | 19.38   | 19.41     | 20.5    |
|                |               |           | 16QAM      | 19.78                     | 19.59   | 19.75     | 20.5    |
|                |               | Middle    | QPSK       | 19.54                     | 19.39   | 19.51     | 20.5    |
|                |               |           | 16QAM      | 19.78                     | 19.66   | 19.84     | 20.5    |
|                |               | Low       | QPSK       | 19.42                     | 19.44   | 19.46     | 20.5    |
|                |               |           | 16QAM      | 19.74                     | 19.64   | 19.77     | 20.5    |
|                | 3RB           | High      | QPSK       | 19.42                     | 19.40   | 19.49     | 20.5    |
|                |               |           | 16QAM      | 19.42                     | 19.35   | 19.44     | 20.5    |
|                |               | Middle    | QPSK       | 19.46                     | 19.45   | 19.50     | 20.5    |
|                |               |           | 16QAM      | 19.47                     | 19.43   | 19.55     | 20.5    |
|                |               | Low       | QPSK       | 19.45                     | 19.42   | 19.50     | 20.5    |
|                |               |           | 16QAM      | 19.48                     | 19.42   | 19.46     | 20.5    |
|                | 6RB           | /         | QPSK       | 19.48                     | 19.35   | 19.44     | 20.5    |
|                |               |           | 16QAM      | 19.56                     | 19.46   | 19.57     | 20.5    |
| 3 MHz          |               |           |            | 1908.5MHz                 | 1880MHz | 1851.5MHz | /       |
|                | 1RB           | High      | QPSK       | 19.41                     | 19.37   | 19.43     | 20.5    |
|                |               |           | 16QAM      | 19.70                     | 19.62   | 19.69     | 20.5    |
|                |               | Middle    | QPSK       | 19.47                     | 19.45   | 19.53     | 20.5    |
|                |               |           | 16QAM      | 19.90                     | 19.81   | 19.90     | 20.5    |
|                |               | Low       | QPSK       | 19.50                     | 19.40   | 19.53     | 20.5    |
|                |               |           | 16QAM      | 19.79                     | 19.67   | 19.85     | 20.5    |
|                | 8RB           | High      | QPSK       | 19.48                     | 19.39   | 19.56     | 20.5    |
|                |               |           | 16QAM      | 19.54                     | 19.48   | 19.57     | 20.5    |
|                |               | Middle    | QPSK       | 19.55                     | 19.46   | 19.53     | 20.5    |
|                |               |           | 16QAM      | 19.56                     | 19.51   | 19.55     | 20.5    |
|                |               | Low       | QPSK       | 19.48                     | 19.44   | 19.57     | 20.5    |
|                |               |           | 16QAM      | 19.54                     | 19.51   | 19.59     | 20.5    |
|                | 15RB          | /         | QPSK       | 19.52                     | 19.39   | 19.55     | 20.5    |
|                |               |           | 16QAM      | 19.52                     | 19.42   | 19.56     | 20.5    |

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| LTE-FDD Band 2 |               |           |            | Actual output Power (dBm) |         |           | Tune up |
|----------------|---------------|-----------|------------|---------------------------|---------|-----------|---------|
| Band-width     | RB allocation | RB offset | Modulation | High                      | Middle  | Low       |         |
| 5 MHz          |               |           |            | 1907.5MHz                 | 1880MHz | 1852.5MHz |         |
|                | 1RB           | High      | QPSK       | 19.60                     | 19.42   | 19.50     | 20.5    |
|                |               |           | 16QAM      | 19.83                     | 19.68   | 19.80     | 20.5    |
|                |               | Middle    | QPSK       | 19.53                     | 19.43   | 19.43     | 20.5    |
|                |               |           | 16QAM      | 19.78                     | 19.76   | 19.77     | 20.5    |
|                |               | Low       | QPSK       | 19.63                     | 19.51   | 19.65     | 20.5    |
|                |               |           | 16QAM      | 19.84                     | 19.78   | 19.98     | 20.5    |
|                | 12RB          | High      | QPSK       | 19.55                     | 19.45   | 19.59     | 20.5    |
|                |               |           | 16QAM      | 19.59                     | 19.46   | 19.59     | 20.5    |
|                |               | Middle    | QPSK       | 19.60                     | 19.51   | 19.55     | 20.5    |
|                |               |           | 16QAM      | 19.60                     | 19.54   | 19.52     | 20.5    |
|                |               | Low       | QPSK       | 19.63                     | 19.45   | 19.63     | 20.5    |
|                |               |           | 16QAM      | 19.69                     | 19.46   | 19.62     | 20.5    |
|                | 25RB          | /         | QPSK       | 19.57                     | 19.48   | 19.56     | 20.5    |
|                |               |           | 16QAM      | 19.57                     | 19.49   | 19.52     | 20.5    |
| 10 MHz         |               |           |            | 1905MHz                   | 1880MHz | 1855MHz   | /       |
|                | 1RB           | High      | QPSK       | 19.71                     | 19.58   | 19.70     | 20.5    |
|                |               |           | 16QAM      | 19.96                     | 19.81   | 19.89     | 20.5    |
|                |               | Middle    | QPSK       | 19.49                     | 19.50   | 19.61     | 20.5    |
|                |               |           | 16QAM      | 19.79                     | 19.73   | 19.85     | 20.5    |
|                |               | Low       | QPSK       | 19.75                     | 19.59   | 19.69     | 20.5    |
|                |               |           | 16QAM      | 20.02                     | 19.79   | 19.92     | 20.5    |
|                | 25RB          | High      | QPSK       | 19.51                     | 19.43   | 19.54     | 20.5    |
|                |               |           | 16QAM      | 19.55                     | 19.48   | 19.57     | 20.5    |
|                |               | Middle    | QPSK       | 19.46                     | 19.49   | 19.57     | 20.5    |
|                |               |           | 16QAM      | 19.48                     | 19.50   | 19.58     | 20.5    |
|                |               | Low       | QPSK       | 19.52                     | 19.40   | 19.68     | 20.5    |
|                |               |           | 16QAM      | 19.49                     | 19.40   | 19.55     | 20.5    |
|                | 50RB          | /         | QPSK       | 19.62                     | 19.41   | 19.59     | 20.5    |
|                |               |           | 16QAM      | 19.57                     | 19.41   | 19.60     | 20.5    |

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| LTE-FDD Band 2 |               |           |            | Actual output Power (dBm) |         |           | Tune up |
|----------------|---------------|-----------|------------|---------------------------|---------|-----------|---------|
| Band-width     | RB allocation | RB offset | Modulation | High                      | Middle  | Low       |         |
| 15 MHz         |               |           |            | 1902.5MHz                 | 1880MHz | 1857.5MHz |         |
|                | 1RB           | High      | QPSK       | 19.63                     | 19.74   | 19.70     | 20.5    |
|                |               |           | 16QAM      | 19.96                     | 19.90   | 19.86     | 20.5    |
|                |               | Middle    | QPSK       | 19.58                     | 19.49   | 19.58     | 20.5    |
|                |               |           | 16QAM      | 19.86                     | 19.65   | 19.81     | 20.5    |
|                |               | Low       | QPSK       | 19.79                     | 19.68   | 19.85     | 20.5    |
|                |               |           | 16QAM      | 20.03                     | 19.87   | 20.07     | 20.5    |
|                | 36RB          | High      | QPSK       | 19.64                     | 19.51   | 19.53     | 20.5    |
|                |               |           | 16QAM      | 19.59                     | 19.50   | 19.50     | 20.5    |
|                |               | Middle    | QPSK       | 19.65                     | 19.54   | 19.69     | 20.5    |
|                |               |           | 16QAM      | 19.61                     | 19.56   | 19.68     | 20.5    |
|                |               | Low       | QPSK       | 19.69                     | 19.49   | 19.68     | 20.5    |
|                |               |           | 16QAM      | 19.68                     | 19.46   | 19.61     | 20.5    |
|                | 75RB          | /         | QPSK       | 19.56                     | 19.55   | 19.65     | 20.5    |
|                |               |           | 16QAM      | 19.63                     | 19.57   | 19.64     | 20.5    |
| 20 MHz         |               |           |            | 1900MHz                   | 1880MHz | 1860MHz   | /       |
|                | 1RB           | High      | QPSK       | 19.39                     | 19.39   | 19.40     | 20.5    |
|                |               |           | 16QAM      | 19.62                     | 19.56   | 19.57     | 20.5    |
|                |               | Middle    | QPSK       | 19.69                     | 19.56   | 19.59     | 20.5    |
|                |               |           | 16QAM      | 19.90                     | 19.75   | 19.79     | 20.5    |
|                |               | Low       | QPSK       | 19.71                     | 19.63   | 19.81     | 20.5    |
|                |               |           | 16QAM      | 19.96                     | 19.77   | 20.02     | 20.5    |
|                | 50RB          | High      | QPSK       | 19.58                     | 19.56   | 19.51     | 20.5    |
|                |               |           | 16QAM      | 19.59                     | 19.53   | 19.53     | 20.5    |
|                |               | Middle    | QPSK       | 19.70                     | 19.69   | 19.78     | 20.5    |
|                |               |           | 16QAM      | 19.73                     | 19.65   | 19.74     | 20.5    |
|                |               | Low       | QPSK       | 19.75                     | 19.64   | 19.72     | 20.5    |
|                |               |           | 16QAM      | 19.75                     | 19.59   | 19.69     | 20.5    |
|                | 100RB         | /         | QPSK       | 19.69                     | 19.67   | 19.70     | 20.5    |
|                |               |           | 16QAM      | 19.59                     | 19.56   | 19.66     | 20.5    |

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| LTE-FDD Band 4 |               |           |            | Actual output Power (dBm) |           |           | Tune up |
|----------------|---------------|-----------|------------|---------------------------|-----------|-----------|---------|
| Band-width     | RB allocation | RB offset | Modulation | High                      | Middle    | Low       |         |
| 1.4 MHz        |               |           |            | 1754.3MHz                 | 1732.5MHz | 1710.7MHz |         |
|                | 1RB           | High      | QPSK       | 19.50                     | 19.36     | 19.37     | 21      |
|                |               |           | 16QAM      | 19.69                     | 19.61     | 19.63     | 21      |
|                |               | Middle    | QPSK       | 19.57                     | 19.44     | 19.42     | 21      |
|                |               |           | 16QAM      | 19.76                     | 19.73     | 19.70     | 21      |
|                |               | Low       | QPSK       | 19.47                     | 19.46     | 19.33     | 21      |
|                |               |           | 16QAM      | 19.68                     | 19.75     | 19.56     | 21      |
|                | 3RB           | High      | QPSK       | 19.52                     | 19.37     | 19.38     | 21      |
|                |               |           | 16QAM      | 19.62                     | 19.48     | 19.46     | 21      |
|                |               | Middle    | QPSK       | 19.49                     | 19.46     | 19.39     | 21      |
|                |               |           | 16QAM      | 19.67                     | 19.59     | 19.54     | 21      |
|                |               | Low       | QPSK       | 19.46                     | 19.44     | 19.34     | 21      |
|                |               |           | 16QAM      | 19.60                     | 19.56     | 19.51     | 21      |
|                | 6RB           | /         | QPSK       | 19.43                     | 19.41     | 19.34     | 21      |
|                |               |           | 16QAM      | 19.50                     | 19.48     | 19.44     | 21      |
| 3 MHz          |               |           |            | 1753.5MHz                 | 1732.5MHz | 1711.5MHz | /       |
|                | 1RB           | High      | QPSK       | 19.48                     | 19.45     | 19.36     | 21      |
|                |               |           | 16QAM      | 19.66                     | 19.67     | 19.52     | 21      |
|                |               | Middle    | QPSK       | 19.76                     | 19.51     | 19.39     | 21      |
|                |               |           | 16QAM      | 19.70                     | 19.68     | 19.64     | 21      |
|                |               | Low       | QPSK       | 19.49                     | 19.48     | 19.42     | 21      |
|                |               |           | 16QAM      | 19.56                     | 19.76     | 19.72     | 21      |
|                | 8RB           | High      | QPSK       | 19.46                     | 19.37     | 19.40     | 21      |
|                |               |           | 16QAM      | 19.58                     | 19.52     | 19.47     | 21      |
|                |               | Middle    | QPSK       | 19.54                     | 19.46     | 19.41     | 21      |
|                |               |           | 16QAM      | 19.58                     | 19.55     | 19.46     | 21      |
|                |               | Low       | QPSK       | 19.48                     | 19.51     | 19.43     | 21      |
|                |               |           | 16QAM      | 19.64                     | 19.68     | 19.59     | 21      |
|                | 15RB          | /         | QPSK       | 19.50                     | 19.44     | 19.39     | 21      |
|                |               |           | 16QAM      | 19.51                     | 19.46     | 19.36     | 21      |

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| LTE-FDD Band 4 |               |           |            | Actual output Power (dBm) |           |           | Tune up |
|----------------|---------------|-----------|------------|---------------------------|-----------|-----------|---------|
| Band-width     | RB allocation | RB offset | Modulation | High                      | Middle    | Low       |         |
| 5 MHz          |               |           |            | 1752.5MHz                 | 1732.5MHz | 1712.5MHz |         |
|                | 1RB           | High      | QPSK       | 19.59                     | 19.44     | 19.45     | 21      |
|                |               |           | 16QAM      | 19.74                     | 19.73     | 19.64     | 21      |
|                |               | Middle    | QPSK       | 19.43                     | 19.46     | 19.41     | 21      |
|                |               |           | 16QAM      | 19.60                     | 19.76     | 19.51     | 21      |
|                |               | Low       | QPSK       | 19.67                     | 19.57     | 19.55     | 21      |
|                |               |           | 16QAM      | 19.87                     | 19.93     | 19.83     | 21      |
|                | 12RB          | High      | QPSK       | 19.49                     | 19.50     | 19.51     | 21      |
|                |               |           | 16QAM      | 19.55                     | 19.56     | 19.54     | 21      |
|                |               | Middle    | QPSK       | 19.48                     | 19.50     | 19.49     | 21      |
|                |               |           | 16QAM      | 19.56                     | 19.58     | 19.53     | 21      |
|                |               | Low       | QPSK       | 19.48                     | 19.56     | 19.56     | 21      |
|                |               |           | 16QAM      | 19.57                     | 19.58     | 19.59     | 21      |
|                | 25RB          | /         | QPSK       | 19.48                     | 19.53     | 19.48     | 21      |
|                |               |           | 16QAM      | 19.51                     | 19.55     | 19.45     | 21      |
| 10 MHz         |               |           |            | 1750MHz                   | 1732.5MHz | 1715MHz   | /       |
|                | 1RB           | High      | QPSK       | 19.21                     | 19.04     | 19.12     | 21      |
|                |               |           | 16QAM      | 19.51                     | 19.39     | 19.40     | 21      |
|                |               | Middle    | QPSK       | 19.51                     | 19.51     | 19.40     | 21      |
|                |               |           | 16QAM      | 19.83                     | 19.83     | 19.78     | 21      |
|                |               | Low       | QPSK       | 19.52                     | 19.44     | 19.39     | 21      |
|                |               |           | 16QAM      | 19.82                     | 19.77     | 19.69     | 21      |
|                | 25RB          | High      | QPSK       | 19.30                     | 19.29     | 19.32     | 21      |
|                |               |           | 16QAM      | 19.31                     | 19.32     | 19.34     | 21      |
|                |               | Middle    | QPSK       | 19.50                     | 19.51     | 19.49     | 21      |
|                |               |           | 16QAM      | 19.43                     | 19.53     | 19.50     | 21      |
|                |               | Low       | QPSK       | 19.54                     | 19.52     | 19.50     | 21      |
|                |               |           | 16QAM      | 19.50                     | 19.46     | 19.42     | 21      |
|                | 50RB          | /         | QPSK       | 19.42                     | 19.47     | 19.33     | 21      |
|                |               |           | 16QAM      | 19.38                     | 19.47     | 19.38     | 21      |

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| LTE-FDD Band 4 |               |           |            | Actual output Power (dBm) |           |           | Tune up |
|----------------|---------------|-----------|------------|---------------------------|-----------|-----------|---------|
| Band-width     | RB allocation | RB offset | Modulation | High                      | Middle    | Low       |         |
| 15 MHz         |               |           |            | 1747.5MHz                 | 1732.5MHz | 1717.5MHz |         |
|                | 1RB           | High      | QPSK       | 19.84                     | 19.76     | 19.70     | 21      |
|                |               |           | 16QAM      | 20.19                     | 20.24     | 20.05     | 21      |
|                |               | Middle    | QPSK       | 19.51                     | 19.43     | 19.52     | 21      |
|                |               |           | 16QAM      | 19.93                     | 19.73     | 19.89     | 21      |
|                |               | Low       | QPSK       | 20.27                     | 20.15     | 20.17     | 21      |
|                |               |           | 16QAM      | 20.58                     | 20.53     | 20.49     | 21      |
|                | 36RB          | High      | QPSK       | 19.52                     | 19.50     | 19.50     | 21      |
|                |               |           | 16QAM      | 19.53                     | 19.53     | 19.52     | 21      |
|                |               | Middle    | QPSK       | 19.57                     | 19.56     | 19.60     | 21      |
|                |               |           | 16QAM      | 19.59                     | 19.57     | 19.57     | 21      |
|                |               | Low       | QPSK       | 19.83                     | 19.77     | 19.77     | 21      |
|                |               |           | 16QAM      | 19.81                     | 19.79     | 19.77     | 21      |
|                | 75RB          | /         | QPSK       | 19.66                     | 19.59     | 19.62     | 21      |
|                |               |           | 16QAM      | 19.68                     | 19.66     | 19.61     | 21      |
| 20 MHz         |               |           |            | 1745MHz                   | 1732.5MHz | 1720MHz   | /       |
|                | 1RB           | High      | QPSK       | 20.07                     | 20.06     | 20.10     | 21      |
|                |               |           | 16QAM      | 20.50                     | 20.43     | 20.48     | 21      |
|                |               | Middle    | QPSK       | 19.43                     | 19.38     | 19.31     | 21      |
|                |               |           | 16QAM      | 19.90                     | 19.79     | 19.84     | 21      |
|                |               | Low       | QPSK       | 20.68                     | 20.68     | 20.62     | 21      |
|                |               |           | 16QAM      | 21.03                     | 21.06     | 21.05     | 21      |
|                | 50RB          | High      | QPSK       | 19.67                     | 19.62     | 19.69     | 21      |
|                |               |           | 16QAM      | 19.68                     | 19.64     | 19.63     | 21      |
|                |               | Middle    | QPSK       | 19.53                     | 19.58     | 19.52     | 21      |
|                |               |           | 16QAM      | 19.59                     | 19.59     | 19.54     | 21      |
|                |               | Low       | QPSK       | 19.93                     | 19.93     | 19.85     | 21      |
|                |               |           | 16QAM      | 19.92                     | 19.89     | 19.95     | 21      |
|                | 100RB         | /         | QPSK       | 19.80                     | 19.87     | 19.73     | 21      |
|                |               |           | 16QAM      | 19.85                     | 19.84     | 19.77     | 21      |

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| LTE-FDD Band 7 |               |           |            | Actual output Power (dBm) |         |           | Tune up |
|----------------|---------------|-----------|------------|---------------------------|---------|-----------|---------|
| Band-width     | RB allocation | RB offset | Modulation | High                      | Middle  | Low       |         |
| 5 MHz          |               |           |            | 2567.4MHz                 | 2535MHz | 2502.5MHz |         |
|                | 1RB           | High      | QPSK       | 18.91                     | 19.01   | 19.34     | 20.5    |
|                |               |           | 16QAM      | 19.18                     | 19.32   | 19.62     | 20.5    |
|                |               | Middle    | QPSK       | 18.73                     | 18.95   | 19.30     | 20.5    |
|                |               |           | 16QAM      | 19.17                     | 19.29   | 19.63     | 20.5    |
|                |               | Low       | QPSK       | 18.92                     | 19.05   | 19.47     | 20.5    |
|                |               |           | 16QAM      | 19.25                     | 19.39   | 19.78     | 20.5    |
|                | 12RB          | High      | QPSK       | 18.95                     | 19.14   | 19.43     | 20.5    |
|                |               |           | 16QAM      | 19.01                     | 19.21   | 19.44     | 20.5    |
|                |               | Middle    | QPSK       | 18.96                     | 19.10   | 19.38     | 20.5    |
|                |               |           | 16QAM      | 18.98                     | 19.15   | 19.38     | 20.5    |
|                |               | Low       | QPSK       | 18.94                     | 19.22   | 19.52     | 20.5    |
|                |               |           | 16QAM      | 19.00                     | 19.26   | 19.55     | 20.5    |
|                | 25RB          | /         | QPSK       | 18.90                     | 19.13   | 19.52     | 20.5    |
|                |               |           | 16QAM      | 18.94                     | 19.12   | 19.51     | 20.5    |
| 10 MHz         |               |           |            | 2565MHz                   | 2535MHz | 2505MHz   | /       |
|                | 1RB           | High      | QPSK       | 18.56                     | 18.59   | 18.86     | 20.5    |
|                |               |           | 16QAM      | 18.90                     | 18.94   | 19.13     | 20.5    |
|                |               | Middle    | QPSK       | 18.82                     | 18.99   | 19.30     | 20.5    |
|                |               |           | 16QAM      | 19.20                     | 19.39   | 19.60     | 20.5    |
|                |               | Low       | QPSK       | 18.60                     | 18.84   | 19.12     | 20.5    |
|                |               |           | 16QAM      | 18.88                     | 19.19   | 19.40     | 20.5    |
|                | 25RB          | High      | QPSK       | 18.75                     | 19.05   | 19.13     | 20.5    |
|                |               |           | 16QAM      | 18.80                     | 19.02   | 19.14     | 20.5    |
|                |               | Middle    | QPSK       | 18.93                     | 19.13   | 19.45     | 20.5    |
|                |               |           | 16QAM      | 18.94                     | 19.10   | 19.43     | 20.5    |
|                |               | Low       | QPSK       | 18.80                     | 19.18   | 19.47     | 20.5    |
|                |               |           | 16QAM      | 18.83                     | 19.16   | 19.46     | 20.5    |
|                | 50RB          | /         | QPSK       | 18.85                     | 19.01   | 19.31     | 20.5    |
|                |               |           | 16QAM      | 18.84                     | 18.98   | 19.32     | 20.5    |

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| LTE-FDD Band 7 |               |           |            | Actual output Power (dBm) |         |           | Tune up |
|----------------|---------------|-----------|------------|---------------------------|---------|-----------|---------|
| Band-width     | RB allocation | RB offset | Modulation | High                      | Middle  | Low       |         |
| 15 MHz         |               |           |            | 2562.5MHz                 | 2535MHz | 2507.5MHz |         |
|                | 1RB           | High      | QPSK       | 19.40                     | 19.31   | 19.60     | 20.5    |
|                |               |           | 16QAM      | 19.73                     | 19.70   | 19.90     | 20.5    |
|                |               | Middle    | QPSK       | 18.99                     | 19.10   | 19.39     | 20.5    |
|                |               |           | 16QAM      | 19.36                     | 19.53   | 19.72     | 20.5    |
|                |               | Low       | QPSK       | 19.55                     | 19.65   | 19.86     | 20.5    |
|                |               |           | 16QAM      | 19.84                     | 20.00   | 20.20     | 20.5    |
|                | 36RB          | High      | QPSK       | 19.11                     | 19.29   | 19.54     | 20.5    |
|                |               |           | 16QAM      | 19.13                     | 19.30   | 19.51     | 20.5    |
|                |               | Middle    | QPSK       | 19.05                     | 19.33   | 19.64     | 20.5    |
|                |               |           | 16QAM      | 19.08                     | 19.29   | 19.61     | 20.5    |
|                |               | Low       | QPSK       | 19.33                     | 19.46   | 19.82     | 20.5    |
|                |               |           | 16QAM      | 19.37                     | 19.49   | 19.81     | 20.5    |
|                | 75RB          | /         | QPSK       | 19.23                     | 19.34   | 19.59     | 20.5    |
|                |               |           | 16QAM      | 19.27                     | 19.40   | 19.61     | 20.5    |
| 20 MHz         |               |           |            | 2560MHz                   | 2535MHz | 2510MHz   | /       |
|                | 1RB           | High      | QPSK       | 19.74                     | 19.58   | 19.84     | 20.5    |
|                |               |           | 16QAM      | 20.06                     | 19.89   | 20.14     | 20.5    |
|                |               | Middle    | QPSK       | 19.08                     | 19.16   | 19.34     | 20.5    |
|                |               |           | 16QAM      | 19.30                     | 19.54   | 19.55     | 20.5    |
|                |               | Low       | QPSK       | 19.95                     | 19.92   | 20.24     | 20.5    |
|                |               |           | 16QAM      | 20.18                     | 20.33   | 20.47     | 20.5    |
|                | 50RB          | High      | QPSK       | 19.24                     | 19.38   | 19.57     | 20.5    |
|                |               |           | 16QAM      | 19.24                     | 19.42   | 19.57     | 20.5    |
|                |               | Middle    | QPSK       | 19.11                     | 19.26   | 19.50     | 20.5    |
|                |               |           | 16QAM      | 19.12                     | 19.27   | 19.54     | 20.5    |
|                |               | Low       | QPSK       | 19.43                     | 19.53   | 19.84     | 20.5    |
|                |               |           | 16QAM      | 19.45                     | 19.50   | 19.78     | 20.5    |
|                | 100RB         | /         | QPSK       | 19.38                     | 19.41   | 19.69     | 20.5    |
|                |               |           | 16QAM      | 19.36                     | 19.46   | 19.74     | 20.5    |

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| LTE-FDD Band 25 |               |           |            | Actual output Power (dBm) |           |           | Tune up |
|-----------------|---------------|-----------|------------|---------------------------|-----------|-----------|---------|
| Band-width      | RB allocation | RB offset | Modulation | High                      | Middle    | Low       |         |
| 1.4 MHz         |               |           |            | 1914.3MHz                 | 1882.5MHz | 1850.7MHz |         |
|                 | 1RB           | High      | QPSK       | 19.29                     | 19.25     | 19.28     | 20.5    |
|                 |               |           | 16QAM      | 19.33                     | 19.54     | 19.54     | 20.5    |
|                 |               | Middle    | QPSK       | 19.52                     | 19.35     | 19.28     | 20.5    |
|                 |               |           | 16QAM      | 19.48                     | 19.50     | 19.56     | 20.5    |
|                 |               | Low       | QPSK       | 19.31                     | 19.20     | 19.26     | 20.5    |
|                 |               |           | 16QAM      | 19.46                     | 19.46     | 19.51     | 20.5    |
|                 | 3RB           | High      | QPSK       | 19.34                     | 19.36     | 19.37     | 20.5    |
|                 |               |           | 16QAM      | 19.44                     | 19.46     | 19.39     | 20.5    |
|                 |               | Middle    | QPSK       | 19.31                     | 19.38     | 19.42     | 20.5    |
|                 |               |           | 16QAM      | 19.53                     | 19.49     | 19.47     | 20.5    |
|                 |               | Low       | QPSK       | 19.33                     | 19.36     | 19.38     | 20.5    |
|                 |               |           | 16QAM      | 19.43                     | 19.48     | 19.43     | 20.5    |
|                 | 6RB           | /         | QPSK       | 19.34                     | 19.35     | 19.32     | 20.5    |
|                 |               |           | 16QAM      | 19.30                     | 19.37     | 19.40     | 20.5    |
| 3 MHz           |               |           |            | 1913.5MHz                 | 1882.5MHz | 1851.5MHz | /       |
|                 | 1RB           | High      | QPSK       | 19.33                     | 19.26     | 19.28     | 20.5    |
|                 |               |           | 16QAM      | 19.45                     | 19.43     | 19.56     | 20.5    |
|                 |               | Middle    | QPSK       | 19.35                     | 19.36     | 19.38     | 20.5    |
|                 |               |           | 16QAM      | 19.72                     | 19.70     | 19.76     | 20.5    |
|                 |               | Low       | QPSK       | 19.35                     | 19.31     | 19.36     | 20.5    |
|                 |               |           | 16QAM      | 19.53                     | 19.52     | 19.65     | 20.5    |
|                 | 8RB           | High      | QPSK       | 19.29                     | 19.39     | 19.42     | 20.5    |
|                 |               |           | 16QAM      | 19.50                     | 19.51     | 19.49     | 20.5    |
|                 |               | Middle    | QPSK       | 19.32                     | 19.40     | 19.39     | 20.5    |
|                 |               |           | 16QAM      | 19.49                     | 19.51     | 19.55     | 20.5    |
|                 |               | Low       | QPSK       | 19.27                     | 19.35     | 19.42     | 20.5    |
|                 |               |           | 16QAM      | 19.49                     | 19.46     | 19.51     | 20.5    |
|                 | 15RB          | /         | QPSK       | 19.34                     | 19.37     | 19.43     | 20.5    |
|                 |               |           | 16QAM      | 19.36                     | 19.39     | 19.45     | 20.5    |

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| LTE-FDD Band 25 |               |           |            | Actual output Power (dBm) |           |           | Tune up |
|-----------------|---------------|-----------|------------|---------------------------|-----------|-----------|---------|
| Band-width      | RB allocation | RB offset | Modulation | High                      | Middle    | Low       |         |
| 5 MHz           |               |           |            | 1912.5MHz                 | 1882.5MHz | 1852.5MHz |         |
|                 | 1RB           | High      | QPSK       | 19.38                     | 19.34     | 19.42     | 20.5    |
|                 |               |           | 16QAM      | 19.59                     | 19.54     | 19.62     | 20.5    |
|                 |               | Middle    | QPSK       | 19.22                     | 19.34     | 19.36     | 20.5    |
|                 |               |           | 16QAM      | 19.69                     | 19.71     | 19.71     | 20.5    |
|                 |               | Low       | QPSK       | 19.45                     | 19.43     | 19.46     | 20.5    |
|                 |               |           | 16QAM      | 19.74                     | 19.73     | 19.76     | 20.5    |
|                 | 12RB          | High      | QPSK       | 19.33                     | 19.34     | 19.41     | 20.5    |
|                 |               |           | 16QAM      | 19.41                     | 19.44     | 19.47     | 20.5    |
|                 |               | Middle    | QPSK       | 19.38                     | 19.42     | 19.47     | 20.5    |
|                 |               |           | 16QAM      | 19.46                     | 19.47     | 19.50     | 20.5    |
|                 |               | Low       | QPSK       | 19.44                     | 19.37     | 19.49     | 20.5    |
|                 |               |           | 16QAM      | 19.51                     | 19.45     | 19.52     | 20.5    |
|                 | 25RB          | /         | QPSK       | 19.31                     | 19.44     | 19.49     | 20.5    |
|                 |               |           | 16QAM      | 19.43                     | 19.44     | 19.39     | 20.5    |
| 10 MHz          |               |           |            | 1910MHz                   | 1882.5MHz | 1855MHz   | /       |
|                 | 1RB           | High      | QPSK       | 19.61                     | 19.66     | 19.58     | 20.5    |
|                 |               |           | 16QAM      | 19.87                     | 19.94     | 19.97     | 20.5    |
|                 |               | Middle    | QPSK       | 19.29                     | 19.40     | 19.37     | 20.5    |
|                 |               |           | 16QAM      | 19.63                     | 19.76     | 19.72     | 20.5    |
|                 |               | Low       | QPSK       | 19.54                     | 19.53     | 19.56     | 20.5    |
|                 |               |           | 16QAM      | 19.85                     | 19.86     | 19.87     | 20.5    |
|                 | 25RB          | High      | QPSK       | 19.31                     | 19.34     | 19.43     | 20.5    |
|                 |               |           | 16QAM      | 19.39                     | 19.39     | 19.41     | 20.5    |
|                 |               | Middle    | QPSK       | 19.31                     | 19.42     | 19.48     | 20.5    |
|                 |               |           | 16QAM      | 19.34                     | 19.40     | 19.42     | 20.5    |
|                 |               | Low       | QPSK       | 19.34                     | 19.42     | 19.57     | 20.5    |
|                 |               |           | 16QAM      | 19.37                     | 19.41     | 19.45     | 20.5    |
|                 | 50RB          | /         | QPSK       | 19.35                     | 19.47     | 19.43     | 20.5    |
|                 |               |           | 16QAM      | 19.40                     | 19.45     | 19.44     | 20.5    |

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| LTE-FDD Band 25 |               |           |            | Actual output Power (dBm) |           |           | Tune up |
|-----------------|---------------|-----------|------------|---------------------------|-----------|-----------|---------|
| Band-width      | RB allocation | RB offset | Modulation | High                      | Middle    | Low       |         |
| 15 MHz          |               |           |            | 1907.5MHz                 | 1882.5MHz | 1857.5MHz |         |
|                 | 1RB           | High      | QPSK       | 19.50                     | 19.39     | 19.35     | 20.5    |
|                 |               |           | 16QAM      | 19.87                     | 19.71     | 19.64     | 20.5    |
|                 |               | Middle    | QPSK       | 19.33                     | 19.39     | 19.35     | 20.5    |
|                 |               |           | 16QAM      | 19.68                     | 19.72     | 19.75     | 20.5    |
|                 |               | Low       | QPSK       | 19.48                     | 19.43     | 19.39     | 20.5    |
|                 |               |           | 16QAM      | 19.77                     | 19.72     | 19.72     | 20.5    |
|                 | 36RB          | High      | QPSK       | 19.35                     | 19.41     | 19.47     | 20.5    |
|                 |               |           | 16QAM      | 19.47                     | 19.46     | 19.48     | 20.5    |
|                 |               | Middle    | QPSK       | 19.31                     | 19.46     | 19.44     | 20.5    |
|                 |               |           | 16QAM      | 19.40                     | 19.49     | 19.45     | 20.5    |
|                 |               | Low       | QPSK       | 19.31                     | 19.39     | 19.46     | 20.5    |
|                 |               |           | 16QAM      | 19.37                     | 19.47     | 19.52     | 20.5    |
|                 | 75RB          | /         | QPSK       | 19.39                     | 19.48     | 19.44     | 20.5    |
|                 |               |           | 16QAM      | 19.51                     | 19.53     | 19.52     | 20.5    |
| 20 MHz          |               |           |            | 1905MHz                   | 1882.5MHz | 1860MHz   | /       |
|                 | 1RB           | High      | QPSK       | 19.15                     | 19.13     | 19.10     | 20.5    |
|                 |               |           | 16QAM      | 19.46                     | 19.48     | 19.45     | 20.5    |
|                 |               | Middle    | QPSK       | 19.48                     | 19.35     | 19.38     | 20.5    |
|                 |               |           | 16QAM      | 19.73                     | 19.68     | 19.58     | 20.5    |
|                 |               | Low       | QPSK       | 19.49                     | 19.41     | 19.45     | 20.5    |
|                 |               |           | 16QAM      | 19.79                     | 19.74     | 19.83     | 20.5    |
|                 | 50RB          | High      | QPSK       | 19.28                     | 19.41     | 19.33     | 20.5    |
|                 |               |           | 16QAM      | 19.42                     | 19.36     | 19.36     | 20.5    |
|                 |               | Middle    | QPSK       | 19.33                     | 19.38     | 19.42     | 20.5    |
|                 |               |           | 16QAM      | 19.36                     | 19.45     | 19.42     | 20.5    |
|                 |               | Low       | QPSK       | 19.39                     | 19.38     | 19.44     | 20.5    |
|                 |               |           | 16QAM      | 19.38                     | 19.42     | 19.41     | 20.5    |
|                 | 100RB         | /         | QPSK       | 19.43                     | 19.44     | 19.44     | 20.5    |
|                 |               |           | 16QAM      | 19.35                     | 19.35     | 19.39     | 20.5    |

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| LTE-TDD Band 41 PC3 |               |           |            | Actual output Power (dBm) |         |           | Tune up |
|---------------------|---------------|-----------|------------|---------------------------|---------|-----------|---------|
| Band-width          | RB allocation | RB offset | Modulation | High                      | Middle  | Low       |         |
| 5 MHz               |               |           |            | 2687.5MHz                 | 2593MHz | 2498.5MHz |         |
|                     | 1RB           | High      | QPSK       | 19.86                     | 19.93   | 19.93     | 21      |
|                     |               |           | 16QAM      | 19.98                     | 20.06   | 20.06     | 21      |
|                     |               | Middle    | QPSK       | 19.78                     | 19.87   | 19.92     | 21      |
|                     |               |           | 16QAM      | 19.97                     | 20.10   | 20.19     | 21      |
|                     |               | Low       | QPSK       | 20.03                     | 20.08   | 20.08     | 21      |
|                     |               |           | 16QAM      | 20.11                     | 20.16   | 20.16     | 21      |
|                     | 12RB          | High      | QPSK       | 19.90                     | 20.02   | 19.98     | 21      |
|                     |               |           | 16QAM      | 19.88                     | 19.97   | 20.04     | 21      |
|                     |               | Middle    | QPSK       | 19.94                     | 20.05   | 20.06     | 21      |
|                     |               |           | 16QAM      | 19.89                     | 20.02   | 20.12     | 21      |
|                     |               | Low       | QPSK       | 19.96                     | 20.09   | 20.10     | 21      |
|                     |               |           | 16QAM      | 19.94                     | 20.10   | 20.13     | 21      |
|                     | 25RB          | /         | QPSK       | 19.92                     | 20.05   | 20.02     | 21      |
|                     |               |           | 16QAM      | 19.97                     | 20.08   | 20.09     | 21      |
| 10 MHz              |               |           |            | 2685MHz                   | 2593MHz | 2501MHz   | /       |
|                     | 1RB           | High      | QPSK       | 19.92                     | 19.94   | 19.88     | 21      |
|                     |               |           | 16QAM      | 20.07                     | 20.03   | 20.05     | 21      |
|                     |               | Middle    | QPSK       | 20.00                     | 19.91   | 19.90     | 21      |
|                     |               |           | 16QAM      | 20.15                     | 20.08   | 20.08     | 21      |
|                     |               | Low       | QPSK       | 19.93                     | 19.90   | 20.02     | 21      |
|                     |               |           | 16QAM      | 20.10                     | 20.08   | 20.10     | 21      |
|                     | 25RB          | High      | QPSK       | 19.99                     | 19.99   | 20.00     | 21      |
|                     |               |           | 16QAM      | 20.05                     | 20.05   | 20.09     | 21      |
|                     |               | Middle    | QPSK       | 20.14                     | 20.07   | 20.04     | 21      |
|                     |               |           | 16QAM      | 20.20                     | 20.12   | 20.09     | 21      |
|                     |               | Low       | QPSK       | 20.05                     | 20.06   | 20.01     | 21      |
|                     |               |           | 16QAM      | 20.13                     | 20.10   | 20.09     | 21      |
|                     | 50RB          | /         | QPSK       | 20.08                     | 20.00   | 19.94     | 21      |
|                     |               |           | 16QAM      | 20.14                     | 20.06   | 20.00     | 21      |

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| LTE-TDD Band 41 PC3 |               |           |            | Actual output Power (dBm) |         |           | Tune up |
|---------------------|---------------|-----------|------------|---------------------------|---------|-----------|---------|
| Band-width          | RB allocation | RB offset | Modulation | High                      | Middle  | Low       |         |
| 15 MHz              |               |           |            | 2682.5MHz                 | 2593MHz | 2503.5MHz |         |
|                     | 1RB           | High      | QPSK       | 19.30                     | 19.32   | 19.21     | 21      |
|                     |               |           | 16QAM      | 19.39                     | 19.40   | 19.26     | 21      |
|                     |               | Middle    | QPSK       | 19.75                     | 19.84   | 19.78     | 21      |
|                     |               |           | 16QAM      | 19.86                     | 19.92   | 19.83     | 21      |
|                     |               | Low       | QPSK       | 19.23                     | 19.11   | 19.55     | 21      |
|                     |               |           | 16QAM      | 19.36                     | 19.26   | 19.62     | 21      |
|                     | 36RB          | High      | QPSK       | 20.07                     | 20.05   | 20.03     | 21      |
|                     |               |           | 16QAM      | 20.02                     | 20.02   | 20.03     | 21      |
|                     |               | Middle    | QPSK       | 19.95                     | 19.99   | 20.03     | 21      |
|                     |               |           | 16QAM      | 19.90                     | 19.97   | 20.01     | 21      |
|                     |               | Low       | QPSK       | 19.74                     | 19.86   | 19.91     | 21      |
|                     |               |           | 16QAM      | 19.74                     | 19.83   | 19.93     | 21      |
|                     | 75RB          | /         | QPSK       | 19.84                     | 19.90   | 20.02     | 21      |
|                     |               |           | 16QAM      | 19.93                     | 20.00   | 20.05     | 21      |
| 20 MHz              |               |           |            | 2680MHz                   | 2593MHz | 2506MHz   | /       |
|                     | 1RB           | High      | QPSK       | 19.36                     | 19.39   | 19.32     | 21      |
|                     |               |           | 16QAM      | 19.45                     | 19.49   | 19.40     | 21      |
|                     |               | Middle    | QPSK       | 19.86                     | 19.97   | 19.93     | 21      |
|                     |               |           | 16QAM      | 20.00                     | 20.05   | 19.99     | 21      |
|                     |               | Low       | QPSK       | 19.66                     | 19.58   | 19.87     | 21      |
|                     |               |           | 16QAM      | 19.69                     | 19.69   | 19.95     | 21      |
|                     | 50RB          | High      | QPSK       | 19.82                     | 19.87   | 19.79     | 21      |
|                     |               |           | 16QAM      | 19.90                     | 19.90   | 19.85     | 21      |
|                     |               | Middle    | QPSK       | 19.91                     | 20.00   | 19.93     | 21      |
|                     |               |           | 16QAM      | 19.97                     | 20.04   | 20.01     | 21      |
|                     |               | Low       | QPSK       | 19.93                     | 19.90   | 19.90     | 21      |
|                     |               |           | 16QAM      | 19.93                     | 19.97   | 19.95     | 21      |
|                     | 100RB         | /         | QPSK       | 19.80                     | 19.89   | 19.89     | 21      |
|                     |               |           | 16QAM      | 19.90                     | 19.97   | 19.94     | 21      |

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| LTE-TDD Band 41 PC3 |               |           |            | Actual output Power (dBm) |   |           | Tune up |
|---------------------|---------------|-----------|------------|---------------------------|---|-----------|---------|
| Band-width          | RB allocation | RB offset | Modulation | High-2                    | / | Low-2     |         |
| 5 MHz               |               |           |            | 2640.3MHz                 | / | 2545.8MHz |         |
|                     | 1RB           | High      | QPSK       | 19.96                     | / | 19.85     | 21      |
|                     |               |           | 16QAM      | 20.09                     | / | 19.96     | 21      |
|                     |               | Middle    | QPSK       | 19.94                     | / | 19.76     | 21      |
|                     |               |           | 16QAM      | 20.22                     | / | 19.95     | 21      |
|                     |               | Low       | QPSK       | 20.10                     | / | 20.01     | 21      |
|                     |               |           | 16QAM      | 20.19                     | / | 20.09     | 21      |
|                     | 12RB          | High      | QPSK       | 20.01                     | / | 19.89     | 21      |
|                     |               |           | 16QAM      | 20.06                     | / | 19.86     | 21      |
|                     |               | Middle    | QPSK       | 20.09                     | / | 19.93     | 21      |
|                     |               |           | 16QAM      | 20.14                     | / | 19.88     | 21      |
|                     |               | Low       | QPSK       | 20.12                     | / | 19.94     | 21      |
|                     |               |           | 16QAM      | 20.15                     | / | 19.92     | 21      |
|                     | 25RB          | /         | QPSK       | 20.05                     | / | 19.90     | 21      |
|                     |               |           | 16QAM      | 20.12                     | / | 19.96     | 21      |
| 10 MHz              |               |           |            | 2639MHz                   | / | 2547MHz   | /       |
|                     | 1RB           | High      | QPSK       | 19.75                     | / | 19.87     | 21      |
|                     |               |           | 16QAM      | 19.90                     | / | 20.03     | 21      |
|                     |               | Middle    | QPSK       | 19.83                     | / | 19.89     | 21      |
|                     |               |           | 16QAM      | 19.98                     | / | 20.06     | 21      |
|                     |               | Low       | QPSK       | 19.76                     | / | 20.00     | 21      |
|                     |               |           | 16QAM      | 19.93                     | / | 20.08     | 21      |
|                     | 25RB          | High      | QPSK       | 19.82                     | / | 19.99     | 21      |
|                     |               |           | 16QAM      | 19.88                     | / | 20.08     | 21      |
|                     |               | Middle    | QPSK       | 19.97                     | / | 20.03     | 21      |
|                     |               |           | 16QAM      | 20.03                     | / | 20.07     | 21      |
|                     |               | Low       | QPSK       | 19.88                     | / | 20.00     | 21      |
|                     |               |           | 16QAM      | 19.96                     | / | 20.08     | 21      |
|                     | 50RB          | /         | QPSK       | 19.91                     | / | 19.93     | 21      |
|                     |               |           | 16QAM      | 19.97                     | / | 19.99     | 21      |

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| LTE-TDD Band 41 PC3 |               |           |            | Actual output Power (dBm) |       |           | Tune up |
|---------------------|---------------|-----------|------------|---------------------------|-------|-----------|---------|
| Band-width          | RB allocation | RB offset | Modulation | High-2                    | /     | Low-2     |         |
| 15 MHz              |               |           |            | 2637.8MHz                 | /     | 2548.3MHz |         |
|                     | 1RB           | High      | QPSK       | 19.28                     | /     | 19.24     | 21      |
|                     |               |           | 16QAM      | 19.37                     | /     | 19.29     | 21      |
|                     |               | Middle    | QPSK       | 19.73                     | /     | 19.81     | 21      |
|                     |               |           | 16QAM      | 19.84                     | /     | 19.85     | 21      |
|                     |               | Low       | QPSK       | 19.21                     | /     | 19.58     | 21      |
|                     |               |           | 16QAM      | 19.35                     | /     | 19.64     | 21      |
|                     | 36RB          | High      | QPSK       | 20.06                     | /     | 20.05     | 21      |
|                     |               |           | 16QAM      | 20.00                     | /     | 20.05     | 21      |
|                     |               | Middle    | QPSK       | 19.93                     | /     | 20.05     | 21      |
|                     |               |           | 16QAM      | 19.88                     | /     | 20.03     | 21      |
|                     |               | Low       | QPSK       | 19.72                     | /     | 19.94     | 21      |
|                     |               |           | 16QAM      | 19.72                     | /     | 19.96     | 21      |
|                     | 75RB          | /         | QPSK       | 19.82                     | /     | 20.05     | 21      |
| 16QAM               |               |           | 19.92      | /                         | 20.08 | 21        |         |
| 20 MHz              |               |           |            | 2636.5MHz                 | /     | 2549.5MHz | /       |
|                     | 1RB           | High      | QPSK       | 19.35                     | /     | 19.30     | 21      |
|                     |               |           | 16QAM      | 19.43                     | /     | 19.38     | 21      |
|                     |               | Middle    | QPSK       | 19.84                     | /     | 19.91     | 21      |
|                     |               |           | 16QAM      | 19.98                     | /     | 19.97     | 21      |
|                     |               | Low       | QPSK       | 19.65                     | /     | 19.85     | 21      |
|                     |               |           | 16QAM      | 19.67                     | /     | 19.93     | 21      |
|                     | 50RB          | High      | QPSK       | 19.80                     | /     | 19.77     | 21      |
|                     |               |           | 16QAM      | 19.88                     | /     | 19.83     | 21      |
|                     |               | Middle    | QPSK       | 19.89                     | /     | 19.91     | 21      |
|                     |               |           | 16QAM      | 19.96                     | /     | 19.99     | 21      |
|                     |               | Low       | QPSK       | 19.91                     | /     | 19.88     | 21      |
|                     |               |           | 16QAM      | 19.91                     | /     | 19.93     | 21      |
|                     | 100RB         | /         | QPSK       | 19.79                     | /     | 19.87     | 21      |
| 16QAM               |               |           | 19.88      | /                         | 19.92 | 21        |         |

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| LTE-TDD Band 41 PC2 |               |           |            | Actual output Power (dBm) |         |           | Tune up |
|---------------------|---------------|-----------|------------|---------------------------|---------|-----------|---------|
| Band-width          | RB allocation | RB offset | Modulation | High                      | Middle  | Low       |         |
| 5 MHz               |               |           |            | 2687.5MHz                 | 2593MHz | 2498.5MHz |         |
|                     | 1RB           | High      | QPSK       | 19.54                     | 19.51   | 19.47     | 21      |
|                     |               |           | 16QAM      | 19.79                     | 19.79   | 19.75     | 21      |
|                     |               | Middle    | QPSK       | 19.43                     | 19.47   | 19.53     | 21      |
|                     |               |           | 16QAM      | 19.78                     | 19.80   | 19.85     | 21      |
|                     |               | Low       | QPSK       | 19.66                     | 19.63   | 19.63     | 21      |
|                     |               |           | 16QAM      | 19.90                     | 19.87   | 19.87     | 21      |
|                     | 12RB          | High      | QPSK       | 19.66                     | 19.66   | 19.63     | 21      |
|                     |               |           | 16QAM      | 19.72                     | 19.72   | 19.71     | 21      |
|                     |               | Middle    | QPSK       | 19.66                     | 19.68   | 19.67     | 21      |
|                     |               |           | 16QAM      | 19.73                     | 19.75   | 19.75     | 21      |
|                     |               | Low       | QPSK       | 19.69                     | 19.71   | 19.70     | 21      |
|                     |               |           | 16QAM      | 19.72                     | 19.76   | 19.79     | 21      |
|                     | 25RB          | /         | QPSK       | 19.70                     | 19.73   | 19.66     | 21      |
|                     |               |           | 16QAM      | 19.73                     | 19.76   | 19.78     | 21      |
| 10 MHz              |               |           |            | 2685MHz                   | 2593MHz | 2501MHz   | /       |
|                     | 1RB           | High      | QPSK       | 19.61                     | 19.50   | 19.48     | 21      |
|                     |               |           | 16QAM      | 19.89                     | 19.79   | 19.76     | 21      |
|                     |               | Middle    | QPSK       | 19.66                     | 19.49   | 19.43     | 21      |
|                     |               |           | 16QAM      | 19.92                     | 19.80   | 19.74     | 21      |
|                     |               | Low       | QPSK       | 19.56                     | 19.46   | 19.52     | 21      |
|                     |               |           | 16QAM      | 19.85                     | 19.71   | 19.80     | 21      |
|                     | 25RB          | High      | QPSK       | 19.75                     | 19.64   | 19.62     | 21      |
|                     |               |           | 16QAM      | 19.82                     | 19.72   | 19.74     | 21      |
|                     |               | Middle    | QPSK       | 19.87                     | 19.67   | 19.62     | 21      |
|                     |               |           | 16QAM      | 19.95                     | 19.80   | 19.72     | 21      |
|                     |               | Low       | QPSK       | 19.75                     | 19.63   | 19.68     | 21      |
|                     |               |           | 16QAM      | 19.84                     | 19.71   | 19.69     | 21      |
|                     | 50RB          | /         | QPSK       | 19.80                     | 19.63   | 19.62     | 21      |
|                     |               |           | 16QAM      | 19.88                     | 19.71   | 19.68     | 21      |

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| LTE-TDD Band 41 PC2 |               |           |            | Actual output Power (dBm) |         |           | Tune up |
|---------------------|---------------|-----------|------------|---------------------------|---------|-----------|---------|
| Band-width          | RB allocation | RB offset | Modulation | High                      | Middle  | Low       |         |
| 15 MHz              |               |           |            | 2682.5MHz                 | 2593MHz | 2503.5MHz |         |
|                     | 1RB           | High      | QPSK       | 19.32                     | 19.25   | 19.21     | 21      |
|                     |               |           | 16QAM      | 19.25                     | 19.14   | 19.37     | 21      |
|                     |               | Middle    | QPSK       | 19.37                     | 19.36   | 19.34     | 21      |
|                     |               |           | 16QAM      | 19.63                     | 19.64   | 19.56     | 21      |
|                     |               | Low       | QPSK       | 19.07                     | 19.06   | 19.06     | 21      |
|                     |               |           | 16QAM      | 19.06                     | 19.03   | 19.32     | 21      |
|                     | 36RB          | High      | QPSK       | 19.78                     | 19.69   | 19.67     | 21      |
|                     |               |           | 16QAM      | 19.74                     | 19.71   | 19.69     | 21      |
|                     |               | Middle    | QPSK       | 19.68                     | 19.62   | 19.65     | 21      |
|                     |               |           | 16QAM      | 19.64                     | 19.60   | 19.65     | 21      |
|                     |               | Low       | QPSK       | 19.44                     | 19.46   | 19.53     | 21      |
|                     |               |           | 16QAM      | 19.40                     | 19.44   | 19.55     | 21      |
|                     | 75RB          | /         | QPSK       | 19.57                     | 19.55   | 19.63     | 21      |
|                     |               |           | 16QAM      | 19.69                     | 19.61   | 19.69     | 21      |
| 20 MHz              |               |           |            | 2680MHz                   | 2593MHz | 2506MHz   | /       |
|                     | 1RB           | High      | QPSK       | 19.26                     | 19.22   | 19.31     | 21      |
|                     |               |           | 16QAM      | 19.47                     | 19.41   | 19.40     | 21      |
|                     |               | Middle    | QPSK       | 19.44                     | 19.47   | 19.43     | 21      |
|                     |               |           | 16QAM      | 19.72                     | 19.72   | 19.67     | 21      |
|                     |               | Low       | QPSK       | 19.10                     | 19.04   | 19.32     | 21      |
|                     |               |           | 16QAM      | 19.38                     | 19.30   | 19.54     | 21      |
|                     | 50RB          | High      | QPSK       | 19.53                     | 19.47   | 19.36     | 21      |
|                     |               |           | 16QAM      | 19.57                     | 19.55   | 19.45     | 21      |
|                     |               | Middle    | QPSK       | 19.56                     | 19.57   | 19.51     | 21      |
|                     |               |           | 16QAM      | 19.63                     | 19.63   | 19.56     | 21      |
|                     |               | Low       | QPSK       | 19.48                     | 19.46   | 19.44     | 21      |
|                     |               |           | 16QAM      | 19.59                     | 19.55   | 19.50     | 21      |
|                     | 100RB         | /         | QPSK       | 19.50                     | 19.50   | 19.44     | 21      |
|                     |               |           | 16QAM      | 19.56                     | 19.57   | 19.49     | 21      |

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| LTE-TDD Band 41 PC2 |               |           |            | Actual output Power (dBm) |   |           | Tune up |
|---------------------|---------------|-----------|------------|---------------------------|---|-----------|---------|
| Band-width          | RB allocation | RB offset | Modulation | High-2                    | / | Low-2     |         |
| 5 MHz               |               |           |            | 2640.3MHz                 | / | 2545.8MHz |         |
|                     | 1RB           | High      | QPSK       | 19.52                     | / | 19.45     | 21      |
|                     |               |           | 16QAM      | 19.77                     | / | 19.74     | 21      |
|                     |               | Middle    | QPSK       | 19.43                     | / | 19.50     | 21      |
|                     |               |           | 16QAM      | 19.76                     | / | 19.84     | 21      |
|                     |               | Low       | QPSK       | 19.65                     | / | 19.62     | 21      |
|                     |               |           | 16QAM      | 19.88                     | / | 19.86     | 21      |
|                     | 12RB          | High      | QPSK       | 19.64                     | / | 19.62     | 21      |
|                     |               |           | 16QAM      | 19.70                     | / | 19.70     | 21      |
|                     |               | Middle    | QPSK       | 19.64                     | / | 19.64     | 21      |
|                     |               |           | 16QAM      | 19.71                     | / | 19.74     | 21      |
|                     |               | Low       | QPSK       | 19.67                     | / | 19.69     | 21      |
|                     |               |           | 16QAM      | 19.70                     | / | 19.73     | 21      |
|                     | 25RB          | /         | QPSK       | 19.66                     | / | 19.65     | 21      |
|                     |               |           | 16QAM      | 19.73                     | / | 19.71     | 21      |
| 10 MHz              |               |           |            | 2639MHz                   | / | 2547MHz   | /       |
|                     | 1RB           | High      | QPSK       | 19.63                     | / | 19.52     | 21      |
|                     |               |           | 16QAM      | 19.87                     | / | 19.76     | 21      |
|                     |               | Middle    | QPSK       | 19.67                     | / | 19.45     | 21      |
|                     |               |           | 16QAM      | 19.93                     | / | 19.76     | 21      |
|                     |               | Low       | QPSK       | 19.57                     | / | 19.54     | 21      |
|                     |               |           | 16QAM      | 19.84                     | / | 19.80     | 21      |
|                     | 25RB          | High      | QPSK       | 19.76                     | / | 19.64     | 21      |
|                     |               |           | 16QAM      | 19.83                     | / | 19.75     | 21      |
|                     |               | Middle    | QPSK       | 19.88                     | / | 19.64     | 21      |
|                     |               |           | 16QAM      | 19.95                     | / | 19.74     | 21      |
|                     |               | Low       | QPSK       | 19.77                     | / | 19.67     | 21      |
|                     |               |           | 16QAM      | 19.85                     | / | 19.71     | 21      |
|                     | 50RB          | /         | QPSK       | 19.81                     | / | 19.68     | 21      |
|                     |               |           | 16QAM      | 19.83                     | / | 19.74     | 21      |

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| LTE-TDD Band 41 PC2 |               |           |            | Actual output Power (dBm) |       |           | Tune up |
|---------------------|---------------|-----------|------------|---------------------------|-------|-----------|---------|
| Band-width          | RB allocation | RB offset | Modulation | High-2                    | /     | Low-2     |         |
| 15 MHz              |               |           |            | 2637.8MHz                 | /     | 2548.3MHz |         |
|                     | 1RB           | High      | QPSK       | 19.33                     | /     | 19.28     | 21      |
|                     |               |           | 16QAM      | 19.48                     | /     | 19.35     | 21      |
|                     |               | Middle    | QPSK       | 19.36                     | /     | 19.38     | 21      |
|                     |               |           | 16QAM      | 19.66                     | /     | 19.57     | 21      |
|                     |               | Low       | QPSK       | 19.11                     | /     | 19.07     | 21      |
|                     |               |           | 16QAM      | 19.35                     | /     | 19.36     | 21      |
|                     | 36RB          | High      | QPSK       | 19.77                     | /     | 19.68     | 21      |
|                     |               |           | 16QAM      | 19.73                     | /     | 19.70     | 21      |
|                     |               | Middle    | QPSK       | 19.65                     | /     | 19.63     | 21      |
|                     |               |           | 16QAM      | 19.63                     | /     | 19.66     | 21      |
|                     |               | Low       | QPSK       | 19.44                     | /     | 19.54     | 21      |
|                     |               |           | 16QAM      | 19.39                     | /     | 19.56     | 21      |
|                     | 75RB          | /         | QPSK       | 19.59                     | /     | 19.65     | 21      |
| 16QAM               |               |           | 19.68      | /                         | 19.62 | 21        |         |
| 20 MHz              |               |           |            | 2636.5MHz                 | /     | 2549.5MHz | /       |
|                     | 1RB           | High      | QPSK       | 19.10                     | /     | 19.09     | 21      |
|                     |               |           | 16QAM      | 19.26                     | /     | 19.20     | 21      |
|                     |               | Middle    | QPSK       | 19.43                     | /     | 19.42     | 21      |
|                     |               |           | 16QAM      | 19.71                     | /     | 19.67     | 21      |
|                     |               | Low       | QPSK       | 19.09                     | /     | 19.07     | 21      |
|                     |               |           | 16QAM      | 19.33                     | /     | 19.30     | 21      |
|                     | 50RB          | High      | QPSK       | 19.52                     | /     | 19.48     | 21      |
|                     |               |           | 16QAM      | 19.59                     | /     | 19.57     | 21      |
|                     |               | Middle    | QPSK       | 19.56                     | /     | 19.54     | 21      |
|                     |               |           | 16QAM      | 19.62                     | /     | 19.61     | 21      |
|                     |               | Low       | QPSK       | 19.47                     | /     | 19.45     | 21      |
|                     |               |           | 16QAM      | 19.55                     | /     | 19.53     | 21      |
|                     | 100RB         | /         | QPSK       | 19.47                     | /     | 19.48     | 21      |
| 16QAM               |               |           | 19.53      | /                         | 19.54 | 21        |         |

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| LTE-FDD Band 66 |               |           |            | Actual output Power (dBm) |         |           | Tune up |
|-----------------|---------------|-----------|------------|---------------------------|---------|-----------|---------|
| Band-width      | RB allocation | RB offset | Modulation | High                      | Middle  | Low       |         |
| 1.4 MHz         |               |           |            | 1779.3MHz                 | 1745MHz | 1710.7MHz |         |
|                 | 1RB           | High      | QPSK       | 19.33                     | 19.46   | 19.49     | 20.5    |
|                 |               |           | 16QAM      | 19.70                     | 19.85   | 19.69     | 20.5    |
|                 |               | Middle    | QPSK       | 19.25                     | 19.22   | 19.42     | 20.5    |
|                 |               |           | 16QAM      | 19.65                     | 19.73   | 19.72     | 20.5    |
|                 |               | Low       | QPSK       | 18.98                     | 18.90   | 19.48     | 20.5    |
|                 |               |           | 16QAM      | 19.40                     | 19.36   | 19.63     | 20.5    |
|                 | 3RB           | High      | QPSK       | 19.40                     | 19.42   | 19.43     | 20.5    |
|                 |               |           | 16QAM      | 19.41                     | 19.43   | 19.55     | 20.5    |
|                 |               | Middle    | QPSK       | 19.49                     | 19.31   | 19.45     | 20.5    |
|                 |               |           | 16QAM      | 19.44                     | 19.33   | 19.58     | 20.5    |
|                 |               | Low       | QPSK       | 19.36                     | 19.33   | 19.42     | 20.5    |
|                 |               |           | 16QAM      | 19.35                     | 19.31   | 19.56     | 20.5    |
|                 | 6RB           | /         | QPSK       | 19.50                     | 19.40   | 19.43     | 20.5    |
|                 |               |           | 16QAM      | 19.41                     | 19.36   | 19.53     | 20.5    |
| 3 MHz           |               |           |            | 1778.5MHz                 | 1745MHz | 1711.5MHz | /       |
|                 | 1RB           | High      | QPSK       | 19.34                     | 19.42   | 19.47     | 20.5    |
|                 |               |           | 16QAM      | 19.71                     | 19.81   | 19.82     | 20.5    |
|                 |               | Middle    | QPSK       | 19.26                     | 19.18   | 19.17     | 20.5    |
|                 |               |           | 16QAM      | 19.66                     | 19.69   | 19.73     | 20.5    |
|                 |               | Low       | QPSK       | 18.99                     | 18.86   | 18.92     | 20.5    |
|                 |               |           | 16QAM      | 19.41                     | 19.32   | 19.23     | 20.5    |
|                 | 8RB           | High      | QPSK       | 19.41                     | 19.38   | 19.33     | 20.5    |
|                 |               |           | 16QAM      | 19.42                     | 19.39   | 19.34     | 20.5    |
|                 |               | Middle    | QPSK       | 19.50                     | 19.27   | 19.36     | 20.5    |
|                 |               |           | 16QAM      | 19.45                     | 19.29   | 19.39     | 20.5    |
|                 |               | Low       | QPSK       | 19.37                     | 19.29   | 19.29     | 20.5    |
|                 |               |           | 16QAM      | 19.36                     | 19.27   | 19.27     | 20.5    |
|                 | 15RB          | /         | QPSK       | 19.51                     | 19.36   | 19.36     | 20.5    |
|                 |               |           | 16QAM      | 19.42                     | 19.32   | 19.37     | 20.5    |

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| LTE-FDD Band 66 |               |           |            | Actual output Power (dBm) |         |           | Tune up |
|-----------------|---------------|-----------|------------|---------------------------|---------|-----------|---------|
| Band-width      | RB allocation | RB offset | Modulation | High                      | Middle  | Low       |         |
| 5 MHz           |               |           |            | 1777.5MHz                 | 1745MHz | 1712.5MHz |         |
|                 | 1RB           | High      | QPSK       | 19.51                     | 19.55   | 19.59     | 20.5    |
|                 |               |           | 16QAM      | 19.88                     | 19.94   | 19.94     | 20.5    |
|                 |               | Middle    | QPSK       | 19.43                     | 19.31   | 19.29     | 20.5    |
|                 |               |           | 16QAM      | 19.83                     | 19.82   | 19.85     | 20.5    |
|                 |               | Low       | QPSK       | 19.16                     | 18.99   | 19.04     | 20.5    |
|                 |               |           | 16QAM      | 19.58                     | 19.45   | 19.35     | 20.5    |
|                 | 12RB          | High      | QPSK       | 19.58                     | 19.51   | 19.45     | 20.5    |
|                 |               |           | 16QAM      | 19.59                     | 19.52   | 19.46     | 20.5    |
|                 |               | Middle    | QPSK       | 19.67                     | 19.40   | 19.48     | 20.5    |
|                 |               |           | 16QAM      | 19.62                     | 19.42   | 19.51     | 20.5    |
|                 |               | Low       | QPSK       | 19.54                     | 19.42   | 19.41     | 20.5    |
|                 |               |           | 16QAM      | 19.53                     | 19.40   | 19.39     | 20.5    |
|                 | 25RB          | /         | QPSK       | 19.68                     | 19.49   | 19.48     | 20.5    |
|                 |               |           | 16QAM      | 19.59                     | 19.45   | 19.49     | 20.5    |
| 10 MHz          |               |           |            | 1775MHz                   | 1745MHz | 1715MHz   | /       |
|                 | 1RB           | High      | QPSK       | 19.37                     | 19.47   | 19.52     | 20.5    |
|                 |               |           | 16QAM      | 19.74                     | 19.86   | 19.87     | 20.5    |
|                 |               | Middle    | QPSK       | 19.29                     | 19.23   | 19.22     | 20.5    |
|                 |               |           | 16QAM      | 19.69                     | 19.74   | 19.78     | 20.5    |
|                 |               | Low       | QPSK       | 19.02                     | 18.91   | 18.97     | 20.5    |
|                 |               |           | 16QAM      | 19.44                     | 19.37   | 19.28     | 20.5    |
|                 | 25RB          | High      | QPSK       | 19.44                     | 19.43   | 19.38     | 20.5    |
|                 |               |           | 16QAM      | 19.45                     | 19.44   | 19.39     | 20.5    |
|                 |               | Middle    | QPSK       | 19.53                     | 19.32   | 19.41     | 20.5    |
|                 |               |           | 16QAM      | 19.48                     | 19.34   | 19.44     | 20.5    |
|                 |               | Low       | QPSK       | 19.40                     | 19.34   | 19.34     | 20.5    |
|                 |               |           | 16QAM      | 19.39                     | 19.32   | 19.32     | 20.5    |
|                 | 50RB          | /         | QPSK       | 19.54                     | 19.41   | 19.41     | 20.5    |
|                 |               |           | 16QAM      | 19.45                     | 19.37   | 19.42     | 20.5    |

< Hotspot on >

| LTE-FDD Band 66 |               |           |            | Actual output Power (dBm) |         |           | Tune up |
|-----------------|---------------|-----------|------------|---------------------------|---------|-----------|---------|
| Band-width      | RB allocation | RB offset | Modulation | High                      | Middle  | Low       |         |
| 15 MHz          |               |           |            | 1772.5MHz                 | 1745MHz | 1717.5MHz |         |
|                 | 1RB           | High      | QPSK       | 19.47                     | 19.47   | 19.57     | 20.5    |
|                 |               |           | 16QAM      | 19.84                     | 19.86   | 19.92     | 20.5    |
|                 |               | Middle    | QPSK       | 19.39                     | 19.23   | 19.27     | 20.5    |
|                 |               |           | 16QAM      | 19.79                     | 19.74   | 19.83     | 20.5    |
|                 |               | Low       | QPSK       | 19.12                     | 18.91   | 19.02     | 20.5    |
|                 |               |           | 16QAM      | 19.54                     | 19.37   | 19.33     | 20.5    |
|                 | 36RB          | High      | QPSK       | 19.54                     | 19.43   | 19.43     | 20.5    |
|                 |               |           | 16QAM      | 19.55                     | 19.44   | 19.44     | 20.5    |
|                 |               | Middle    | QPSK       | 19.63                     | 19.32   | 19.46     | 20.5    |
|                 |               |           | 16QAM      | 19.58                     | 19.34   | 19.49     | 20.5    |
|                 |               | Low       | QPSK       | 19.50                     | 19.34   | 19.39     | 20.5    |
|                 |               |           | 16QAM      | 19.49                     | 19.32   | 19.37     | 20.5    |
|                 | 75RB          | /         | QPSK       | 19.64                     | 19.41   | 19.46     | 20.5    |
|                 |               |           | 16QAM      | 19.55                     | 19.37   | 19.47     | 20.5    |
| 20 MHz          |               |           |            | 1770MHz                   | 1745MHz | 1720MHz   | /       |
|                 | 1RB           | High      | QPSK       | 19.45                     | 19.58   | 19.61     | 20.5    |
|                 |               |           | 16QAM      | 19.82                     | 19.97   | 19.96     | 20.5    |
|                 |               | Middle    | QPSK       | 19.37                     | 19.34   | 19.31     | 20.5    |
|                 |               |           | 16QAM      | 19.77                     | 19.85   | 19.87     | 20.5    |
|                 |               | Low       | QPSK       | 19.10                     | 19.02   | 19.06     | 20.5    |
|                 |               |           | 16QAM      | 19.52                     | 19.48   | 19.37     | 20.5    |
|                 | 50RB          | High      | QPSK       | 19.52                     | 19.54   | 19.47     | 20.5    |
|                 |               |           | 16QAM      | 19.53                     | 19.55   | 19.48     | 20.5    |
|                 |               | Middle    | QPSK       | 19.61                     | 19.43   | 19.50     | 20.5    |
|                 |               |           | 16QAM      | 19.56                     | 19.45   | 19.53     | 20.5    |
|                 |               | Low       | QPSK       | 19.48                     | 19.45   | 19.43     | 20.5    |
|                 |               |           | 16QAM      | 19.47                     | 19.43   | 19.41     | 20.5    |
|                 | 100RB         | /         | QPSK       | 19.62                     | 19.52   | 19.50     | 20.5    |
|                 |               |           | 16QAM      | 19.53                     | 19.48   | 19.51     | 20.5    |

According to November 2017 TCB workshop, Uplink CA SAR Test Guidance as follows:

- a) When the maximum output for UL CA is  $\leq$  standalone LTE mode (without CA)
  - PCC is configured according to the highest standalone SAR configuration tested
  - SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC
- b) When the Reported SAR for UL CA configuration, described above, is  $>1.2\text{W/kg}$ , UL CA SAR is also required for all required test channels (PCC based)
- c) UL CA SAR is also required for standalone SAR configurations  $>1.2\text{W/kg}$  when they are scaled to the UL CA power level.

The measurement results of downlink LTE CA Conducted Power are as below (**Full Power**):

**<>Inter-Band>**

| CA<br>List | PCC     |       |        |         |      |     |        | SCC     |       |        |         | Power     |               |
|------------|---------|-------|--------|---------|------|-----|--------|---------|-------|--------|---------|-----------|---------------|
|            | LTE     | BW    | UL     | UL      | Mod. | UL# | UL     | LTE     | BW    | DL     | DL      | With CA   | Without<br>CA |
|            | Band    | (MHz) | Freq.  | Channel |      | RB  | RB     | Band    | (MHz) | Freq.  | Channel | Tx. Power |               |
|            |         |       | (MHz)  |         |      |     | Offset |         |       | (MHz)  |         | (dBm)     | (dBm)         |
| CA_25A-26A | Band 25 | 20M   | 1905   | 26590   | QPSK | 1   | 0      | Band 26 | 15M   | 876.5  | 8865    | 22.31     | 22.43         |
|            | Band 26 | 15M   | 841.5  | 26965   | QPSK | 1   | 99     | Band 25 | 20M   | 1962.5 | 8365    | 23.77     | 23.86         |
| CA_25A-41A | Band 25 | 20M   | 1905   | 26590   | QPSK | 1   | 0      | Band 41 | 20M   | 2593   | 40620   | 22.36     | 22.43         |
|            | Band 41 | 20M   | 2549.5 | 40185   | QPSK | 1   | 50     | Band 25 | 20M   | 1962.5 | 8365    | 22.83     | 22.97         |

**<Intra-Band>**

| CA List         | PCC     |       |        |         |      |     |        | SCC     |       |        |         | Power     |            |
|-----------------|---------|-------|--------|---------|------|-----|--------|---------|-------|--------|---------|-----------|------------|
|                 | LTE     | BW    | UL     | UL      | Mod. | UL# | UL     | LTE     | BW    | DL     | DL      | With CA   | Without CA |
|                 | Band    | (MHz) | Freq.  | Channel |      | RB  | RB     | Band    | (MHz) | Freq.  | Channel | Tx. Power |            |
|                 |         |       | (MHz)  |         |      |     | Offset |         |       | (MHz)  |         | (dBm)     | (dBm)      |
| Contiguous      |         |       |        |         |      |     |        |         |       |        |         |           |            |
| CA_41C PC3      | Band 41 | 20M   | 2549.5 | 40185   | QPSK | 1   | 50     | Band 41 | 20M   | 2569.3 | 40383   | 22.87     | 22.97      |
| Non- Contiguous |         |       |        |         |      |     |        |         |       |        |         |           |            |
| CA_25A-25A      | Band 25 | 20M   | 1905   | 26590   | QPSK | 1   | 0      | Band 25 | 5M    | 1932.5 | 8065    | 22.28     | 22.43      |

Note: Testing is not required in bands or modes not intended/allowed for US operation.

The measurement results of downlink LTE CA Conducted Power are as below (**Hotspot on**):

<Inter-Band>

| CA<br>List | PCC     |       |       |         |      |     |        | SCC     |       |        |         | Power     |               |
|------------|---------|-------|-------|---------|------|-----|--------|---------|-------|--------|---------|-----------|---------------|
|            | LTE     | BW    | UL    | UL      | Mod. | UL# | UL     | LTE     | BW    | DL     | DL      | With CA   | Without<br>CA |
|            | Band    | (MHz) | Freq. | Channel |      | RB  | RB     | Band    | (MHz) | Freq.  | Channel | Tx. Power |               |
|            |         |       | (MHz) |         |      |     | Offset |         |       | (MHz)  |         | (dBm)     | (dBm)         |
| CA_25A-26A | Band 25 | 20M   | 1905  | 26590   | QPSK | 1   | 0      | Band 26 | 15M   | 876.5  | 8865    | 19.42     | 19.49         |
| CA_25A-41A | Band 25 | 20M   | 1905  | 26590   | QPSK | 1   | 0      | Band 41 | 20M   | 2593   | 40620   | 19.38     | 19.49         |
|            | Band 41 | 20M   | 2593  | 40620   | QPSK | 1   | 50     | Band 25 | 20M   | 1962.5 | 8365    | 19.82     | 19.97         |

<Intra-Band>

| CA List    | PCC     |       |            |         |      |     |        | SCC     |       |        |         | Power     |            |
|------------|---------|-------|------------|---------|------|-----|--------|---------|-------|--------|---------|-----------|------------|
|            | LTE     | BW    | UL         | UL      | Mod. | UL# | UL     | LTE     | BW    | DL     | DL      | With CA   | Without CA |
|            | Band    | (MHz) | Freq.      | Channel |      | RB  | RB     | Band    | (MHz) | Freq.  | Channel | Tx. Power |            |
|            |         |       | (MHz)      |         |      |     | Offset |         |       | (MHz)  |         | (dBm)     | (dBm)      |
|            |         |       | Contiguous |         |      |     |        |         |       |        |         |           |            |
| CA_41C PC3 | Band 41 | 20M   | 2593       | 40620   | QPSK | 1   | 50     | Band 41 | 20M   | 2612.8 | 40818   | 19.91     | 19.97      |
| CA_25A-25A | Band 25 | 20M   | 1905       | 26590   | QPSK | 1   | 0      | Band 25 | 5M    | 1932.5 | 8065    | 19.43     | 19.49      |

Note: Testing is not required in bands or modes not intended/allowed for US operation.

The measurement results of uplink LTE CA Conducted Power are as below (**Full Power**):

<Intra-Band>

| CA List | PCC           |            |       |         |      |       |        | SCC  |       |            |         |      |        |        | Power     |            |
|---------|---------------|------------|-------|---------|------|-------|--------|------|-------|------------|---------|------|--------|--------|-----------|------------|
|         | LTE           | BW         | UL    | UL      | Mod. | UL#   | UL     | LTE  | BW    | DL         | DL      | Mod. | UL #   | UL     | With CA   | Without CA |
|         | Band          | (MHz)      | Freq. | Channel |      | RB    | RB     | Band | (MHz) | Freq.      | Channel |      | RB     | RB     | Tx. Power |            |
|         |               |            | (MHz) |         |      |       | Offset |      |       | (MHz)      |         |      |        | Offset | (dBm)     | (dBm)      |
|         | CA_41C<br>PC3 | Band<br>41 | 20M   | 2549.5  |      | 40185 | QPSK   | 1    | 50    | Band<br>41 | 20M     |      | 2529.7 | 39987  | QPSK      | 1          |

Note: Testing is not required in bands or modes not intended/allowed for US operation.

The measurement results of uplink LTE CA Conducted Power are as below (**Hotspot on**):

<Intra-Band>

| CA List       | PCC     |       |       |         |      |     |        | SCC     |       |        |         |      |      |        | Power     |            |
|---------------|---------|-------|-------|---------|------|-----|--------|---------|-------|--------|---------|------|------|--------|-----------|------------|
|               | LTE     | BW    | UL    | UL      | Mod. | UL# | UL     | LTE     | BW    | DL     | DL      | Mod. | UL # | UL     | With CA   | Without CA |
|               | Band    | (MHz) | Freq. | Channel |      | RB  | RB     | Band    | (MHz) | Freq.  | Channel |      | RB   | RB     | Tx. Power |            |
|               |         |       | (MHz) |         |      |     | Offset |         |       | (MHz)  |         |      |      | Offset | (dBm)     | (dBm)      |
| CA_41C<br>PC3 | Band 41 | 20M   | 2593  | 40620   | QPSK | 1   | 50     | Band 41 | 20M   | 2573.2 | 40422   | QPSK | 1    | 99     | 19.88     | 19.97      |

Note: Testing is not required in bands or modes not intended/allowed for US operation.

## 11.5 Wi-Fi and BT Measurement result

**Table 11.6: The conducted Power measurement results for BT**

| BT            | Tune up        | Averaged Power (dBm) |                 |                 |
|---------------|----------------|----------------------|-----------------|-----------------|
| Mode          |                | Ch.0 (2402 MHz)      | Ch39 (2441 MHz) | Ch78 (2480 MHz) |
| GFSK          | <b>3</b>       | 1.72                 | 2.13            | 1.38            |
| EDR2M-4_DQPSK | <b>3</b>       | 1.82                 | 2.18            | 1.44            |
| EDR3M-8DPSK   | <b>3</b>       | 2.21                 | 2.60            | 1.88            |
| BLE           | <b>Tune up</b> | Ch0 (2402MHz)        | Ch19 (2440MHz)  | Ch39 (2480MHz)  |
|               | <b>-1</b>      | -2.09                | -2.15           | -2.45           |

**Table 11.7: The conducted Power measurement results for 2.4G WIFI**

| WiFi 2.4GHz    | Tune up     | Averaged Power (dBm) Duty Cycle: <b>100%</b> |               |                |
|----------------|-------------|----------------------------------------------|---------------|----------------|
| Mode           |             | Ch.1(2412 MHz)                               | Ch.6(2437Mhz) | Ch.11(2462MHz) |
| 802.11b        | <b>18.0</b> | <b>17.15</b>                                 | 16.58         | 16.96          |
| 802.11g        | <b>17.5</b> | 15.89                                        | 16.19         | 16.84          |
| 802.11n(20MHz) | <b>17.5</b> | 16.73                                        | 16.15         | 16.98          |
| /              | <b>/</b>    | Ch.3(2422 MHz)                               | Ch.6(2437Mhz) | Ch.9(2452MHz)  |
| 802.11n(40MHz) | <b>16.5</b> | 15.40                                        | 15.49         | 15.34          |

**Table 11.8: The conducted Power for 5G WIFI**

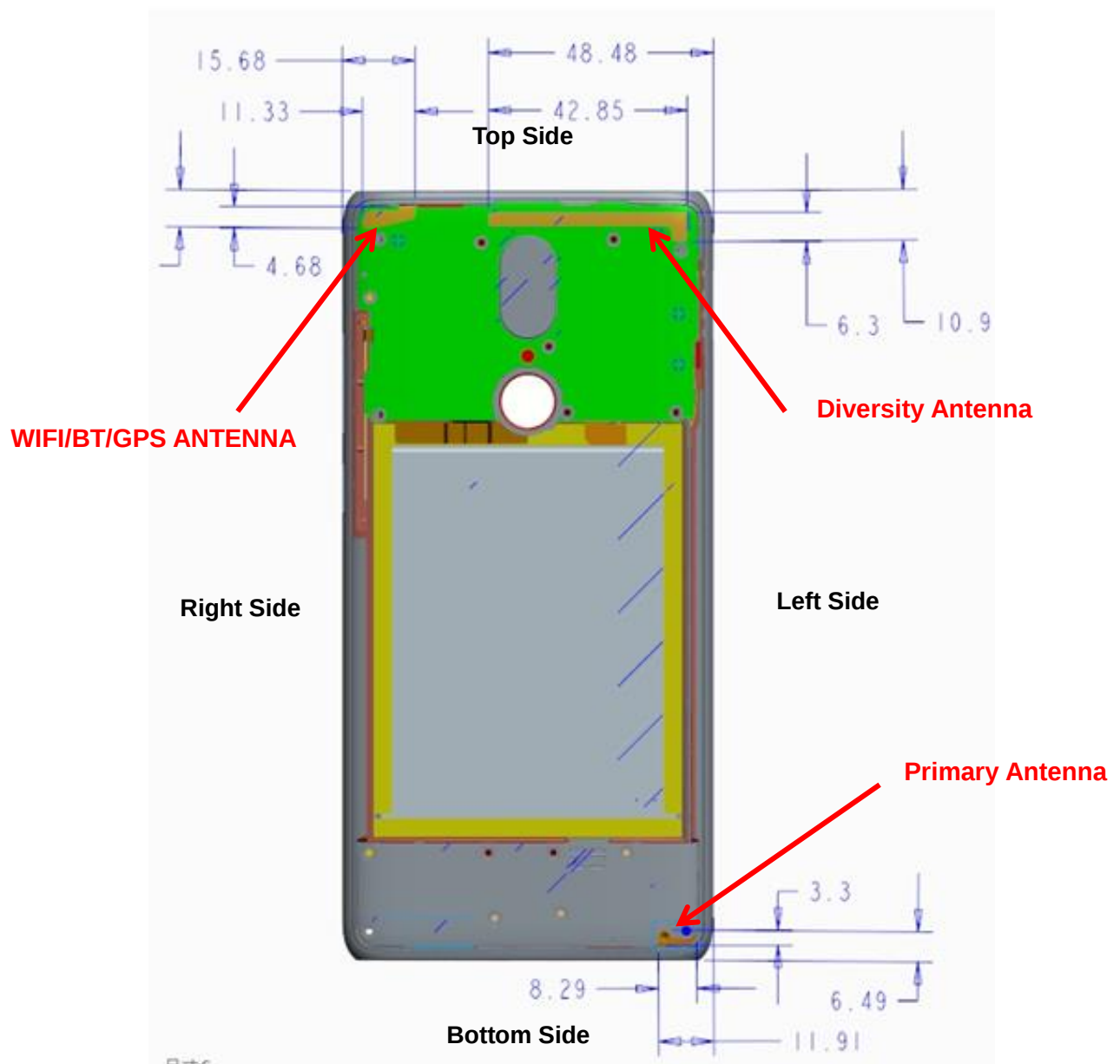
| Averaged Power (dBm) Duty Cycle: <b>100%</b> |              |                   |                    |               |                   |                    |              |                    |
|----------------------------------------------|--------------|-------------------|--------------------|---------------|-------------------|--------------------|--------------|--------------------|
| Mode                                         | 802.11a      | 802.11n<br>-20MHz | 802.11ac<br>-20MHz | Mode          | 802.11n<br>-40MHz | 802.11ac<br>-40MHz | Mode         | 802.11ac<br>-80MHz |
| Channel                                      | 6Mbps        | MCS0              | MCS0               | Channel       | MCS0              | MCS0               | Channel      | MCS0               |
| <b>&lt;U-NII-1&gt;</b>                       |              |                   |                    |               |                   |                    |              |                    |
| <b>Tune up</b>                               | <b>14</b>    | <b>14</b>         | <b>14</b>          | /             | <b>14</b>         | <b>14</b>          | /            | <b>14</b>          |
| 36(5180MHz)                                  | 13.33        | 13.45             | 13.47              | 38(5190MHz)   | 13.17             | 13.24              | 42(5210MHz)  | 12.42              |
| 40(5200MHz)                                  | 13.41        | 13.37             | 13.39              | 46(5230MHz)   | 13.10             | 13.07              | /            | /                  |
| 48(5240MHz)                                  | <b>13.44</b> | 13.23             | 13.28              | /             | /                 | /                  | /            | /                  |
| <b>&lt;U-NII-2A&gt;</b>                      |              |                   |                    |               |                   |                    |              |                    |
| <b>Tune up</b>                               | <b>14</b>    | <b>14</b>         | <b>14</b>          | /             | <b>14</b>         | <b>14</b>          | /            | <b>14</b>          |
| 52(5260MHz)                                  | <b>13.18</b> | 13.16             | 13.14              | 54(5270MHz)   | 12.88             | 12.94              | 58(5290MHz)  | 12.10              |
| 56(5280MHz)                                  | 13.07        | 13.05             | 13.01              | 62(5310MHz)   | 12.84             | 12.92              | /            | /                  |
| 64(5320MHz)                                  | 12.98        | 12.89             | 12.96              | /             | /                 | /                  | /            | /                  |
| <b>&lt;U-NII-2C&gt;</b>                      |              |                   |                    |               |                   |                    |              |                    |
| <b>Tune up</b>                               | <b>14</b>    | <b>14</b>         | <b>14</b>          | /             | <b>14</b>         | <b>14</b>          | /            | <b>14</b>          |
| 100(5500MHz)                                 | 13.10        | 13.04             | 13.02              | 102(5510MHz)  | 12.85             | 12.83              | 106(5530MHz) | 12.07              |
| 116(5580MHz)                                 | 13.25        | 13.11             | 13.09              | 118(5590MHz)  | 12.87             | 12.86              | 122(5610MHz) | 12.15              |
| 140(5700MHz)                                 | <b>13.38</b> | 13.44             | 13.42              | 134(5670MHz)  | 13.08             | 13.01              | /            | /                  |
| <b>&lt;U-NII-3&gt;</b>                       |              |                   |                    |               |                   |                    |              |                    |
| <b>Tune up</b>                               | <b>15.5</b>  | <b>15.5</b>       | <b>14.5</b>        | /             | <b>15.5</b>       | <b>14.5</b>        | /            | <b>14.5</b>        |
| 149(5745MHz)                                 | 14.56        | 14.68             | 13.71              | 151(5755 MHz) | 14.32             | 13.42              | 155(5775MHz) | 12.82              |
| 157(5785MHz)                                 | 14.87        | 14.85             | 13.94              | 159(5795 MHz) | 14.66             | 13.75              | /            | /                  |
| 165(5825MHz)                                 | <b>14.95</b> | 14.98             | 14.05              | /             | /                 | /                  | /            | /                  |

## 12 Simultaneous TX SAR Considerations

### 12.1 Introduction

The following procedures adopted from “FCC SAR Considerations for Cell Phones with Multiple Transmitters” are applicable to handsets with built-in unlicensed transmitters such as 802.11 a/b/g and Bluetooth devices which may simultaneously transmit with the licensed transmitter. For this device, the BT and Wi-Fi can transmit simultaneous with other transmitters.

### 12.2 Transmit Antenna Separation Distances



Picture 12.1 Antenna Locations (Back View)

### 12.3 SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR, the edges with less than 25mm distance to the antennas need to be tested for SAR.

| SAR measurement positions |       |      |           |            |          |             |
|---------------------------|-------|------|-----------|------------|----------|-------------|
| Mode                      | Front | Rear | Left edge | Right edge | Top edge | Bottom edge |
| Main antenna              | Yes   | Yes  | Yes       | No         | No       | Yes         |
| WIFI antenna              | Yes   | Yes  | No        | Yes        | Yes      | No          |

### 12.4 Standalone SAR Test Exclusion Considerations

Standalone 1-g head or body SAR evaluation by measurement or numerical simulation is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

The 1-g SAR test exclusion threshold for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

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

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

**Table 12.1: Standalone SAR test exclusion considerations**

| Band/Mode   | f(GHz) | Position | SAR test exclusion threshold (mW) | RF output power |      | SAR test exclusion |
|-------------|--------|----------|-----------------------------------|-----------------|------|--------------------|
|             |        |          |                                   | dBm             | mW   |                    |
| Bluetooth   | 2.441  | Head     | 9.60                              | 3               | 2.0  | Yes                |
|             |        | Body     | 19.20                             | 3               | 2.0  | Yes                |
| 2.4GHz WLAN | 2.45   | Head     | 9.58                              | 18              | 63.1 | No                 |
|             |        | Body     | 19.17                             | 18              | 63.1 | No                 |
| 5GHz WLAN   | 5.2    | Head     | 6.58                              | 14              | 25.1 | No                 |
|             |        | Body     | 13.16                             | 14              | 25.1 | No                 |
|             | 5.3    | Head     | 6.52                              | 14              | 25.1 | No                 |
|             |        | Body     | 13.03                             | 14              | 25.1 | No                 |
|             | 5.6    | Head     | 6.34                              | 14              | 25.1 | No                 |
|             |        | Body     | 12.68                             | 14              | 25.1 | No                 |
|             | 5.8    | Head     | 6.23                              | 15.5            | 35.5 | No                 |
|             |        | Body     | 12.46                             | 15.5            | 35.5 | No                 |

### 13 Evaluation of Simultaneous

**Table 13.1: The sum of reported SAR values for main antenna and Wi-Fi**

| <i>I</i>                                 | Position   | Main antenna | Wi-Fi | Sum  |
|------------------------------------------|------------|--------------|-------|------|
| Highest reported SAR value for Head      | Left Touch | 0.22         | 1.37  | 1.59 |
| Highest reported SAR value for Hotspot   | Bottom     | 1.40         | /     | 1.40 |
| Highest reported SAR value for Body-worn | Rear       | 1.18         | 0.31  | 1.49 |

**Table 13.2: The sum of reported SAR values for main antenna and Bluetooth**

| <i>I</i>                                 | Position   | Main antenna | BT*  | Sum  |
|------------------------------------------|------------|--------------|------|------|
| Highest reported SAR value for Head      | Left Touch | 0.22         | 0.08 | 0.30 |
| Highest reported SAR value for Hotspot   | Bottom     | 1.40         | 0.04 | 1.44 |
| Highest reported SAR value for Body-worn | Rear       | 1.18         | 0.03 | 1.21 |

BT\* - Estimated SAR for Bluetooth (see the table 13.3)

**Table 13.3: Estimated SAR for Bluetooth**

| Position | f (GHz) | Distance (mm) | Upper limit of power * |     | Estimated <sub>1g</sub><br>(W/kg) |
|----------|---------|---------------|------------------------|-----|-----------------------------------|
|          |         |               | dBm                    | mW  |                                   |
| Head     | 2.441   | 5             | 3                      | 2.0 | 0.08                              |
| Body     | 2.441   | 10            | 3                      | 2.0 | 0.04                              |
| Body     | 2.441   | 15            | 3                      | 2.0 | 0.03                              |

\* - Maximum possible output power declared by manufacturer

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)/x] W/kg for test separation distances ≤ 50 mm;

Where x = 7.5 for 1-g SAR.

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

#### Conclusion:

According to the above tables, the sum of reported SAR values is < 1.6W/kg. So the simultaneous transmission SAR with volume scans is not required.

## 14 SAR Test Result

It is determined by user manual for the distance between the EUT and the phantom bottom.  
The distances are 10mm, 15mm, and just applied to the condition of body worn accessory.  
It is performed for all SAR measurements with area scan based 1-g SAR estimation (Fast SAR). A zoom scan measurement is added when the estimated 1-g SAR is the highest measured SAR in each exposure configuration, wireless mode and frequency band combination or >1.2W/kg.  
The calculated SAR is obtained by the following formula:

$$\text{Reported SAR} = \text{Measured SAR} \times 10^{(P_{\text{Target}} - P_{\text{Measured}})/10}$$

Where  $P_{\text{Target}}$  is the power of manufacturing upper limit;

$P_{\text{Measured}}$  is the measured power in chapter 11.

### Duty Cycle

| Mode                                    | Duty Cycle |
|-----------------------------------------|------------|
| Speech for GSM850/1900                  | 1:8.3      |
| GPRS for GSM850/1900                    | 1:2        |
| CDMA BC0/BC1/BC10                       | 1:1        |
| WCDMA850/1700/1900                      | 1:1        |
| FDD_LTE Band 2/4/5/7/12/13/25//26/66/71 | 1:1        |
| TDD_LTE Band 41                         | 1:1.58     |

Note: B1 (Battery), Tianjin Lishen

B2 (Battery), Zhuhai Coslight

## 14.1 SAR results

**Table 14.1: SAR Values (GSM 850 - Head)**

| Frequency                     |     | Ambient Temperature: 22.5°C |               |              | Liquid Temperature: 22.0°C |                          |                         |                         |                 |
|-------------------------------|-----|-----------------------------|---------------|--------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| MHz                           | Ch. | Test Mode                   | Test Position | Figure No.   | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| 836.6                         | 190 | Speech                      | Left Touch    | /            | 33.15                      | 34                       | 0.128                   | 0.16                    | 0.07            |
| 836.6                         | 190 | Speech                      | Left Tilt     | /            | 33.15                      | 34                       | 0.071                   | 0.09                    | 0.11            |
| 836.6                         | 190 | Speech                      | Right Touch   | <b>Fig.1</b> | 33.15                      | 34                       | <b>0.171</b>            | <b>0.21</b>             | 0.07            |
| 836.6                         | 190 | Speech                      | Right Tilt    | /            | 33.15                      | 34                       | 0.073                   | 0.09                    | 0.05            |
| <b>The worst case with B2</b> |     |                             |               |              |                            |                          |                         |                         |                 |
| 836.6                         | 190 | Speech                      | Right Touch   | /            | 33.15                      | 34                       | 0.153                   | 0.19                    | 0.12            |

**Table 14.2: SAR Values (GSM 850 -Body)**

| Frequency                         |     | Ambient Temperature: 22.5°C |               |              | Liquid Temperature: 22.0°C |                          |                         |                         |                 |
|-----------------------------------|-----|-----------------------------|---------------|--------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| MHz                               | Ch. | Test Mode                   | Test Position | Figure No.   | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| <b>Hotspot Test Data (10mm)</b>   |     |                             |               |              |                            |                          |                         |                         |                 |
| 836.6                             | 190 | GPRS                        | Front         | /            | 28.07                      | 29                       | 0.408                   | 0.51                    | 0.02            |
| 836.6                             | 190 | GPRS                        | Rear          | <b>Fig.2</b> | 28.07                      | 29                       | <b>0.456</b>            | <b>0.56</b>             | -0.02           |
| 836.6                             | 190 | GPRS                        | Left          | /            | 28.07                      | 29                       | 0.094                   | 0.12                    | 0.09            |
| 836.6                             | 190 | GPRS                        | Right         | /            | 28.07                      | 29                       | 0.166                   | 0.21                    | 0.17            |
| 836.6                             | 190 | GPRS                        | Bottom        | /            | 28.07                      | 29                       | 0.268                   | 0.33                    | 0.07            |
| 836.6                             | 190 | EGPRS                       | Rear          | /            | 28.07                      | 29                       | 0.448                   | 0.55                    | 0.08            |
| <b>Body-Worn Test Data (15mm)</b> |     |                             |               |              |                            |                          |                         |                         |                 |
| 836.6                             | 190 | GPRS                        | Front         | /            | 28.07                      | 29                       | 0.213                   | <b>0.26</b>             | -0.07           |
| 836.6                             | 190 | GPRS                        | Rear          | /            | 28.07                      | 29                       | 0.212                   | 0.26                    | 0.00            |
| <b>The worst case with B2</b>     |     |                             |               |              |                            |                          |                         |                         |                 |
| 836.6                             | 190 | GPRS                        | Rear          | /            | 28.07                      | 29                       | 0.383                   | 0.47                    | -0.17           |

**Table 14.3: SAR Values (GSM 1900 - Head)**

| Ambient Temperature: 22.7°C   |     |           |               |              | Liquid Temperature: 22.2°C |                          |                         |                         |                 |
|-------------------------------|-----|-----------|---------------|--------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                     |     | Test Mode | Test Position | Figure No.   | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                           | Ch. |           |               |              |                            |                          |                         |                         |                 |
| 1880                          | 661 | Speech    | Left Touch    | <b>Fig.3</b> | 28.97                      | 30                       | <b>0.095</b>            | <b>0.12</b>             | 0.04            |
| 1880                          | 661 | Speech    | Left Tilt     | /            | 28.97                      | 30                       | 0.044                   | 0.06                    | 0.03            |
| 1880                          | 661 | Speech    | Right Touch   | /            | 28.97                      | 30                       | 0.068                   | 0.09                    | 0.06            |
| 1880                          | 661 | Speech    | Right Tilt    | /            | 28.97                      | 30                       | 0.056                   | 0.07                    | 0.05            |
| <b>The worst case with B2</b> |     |           |               |              |                            |                          |                         |                         |                 |
| 1880                          | 661 | Speech    | Left Touch    | /            | 28.97                      | 30                       | 0.054                   | 0.07                    | 0.05            |

**Table 14.4: SAR Values (GSM 1900 - Body)**

| Ambient Temperature: 22.4°C |     |           |               |            | Liquid Temperature: 22.0°C |                          |                          |                          |                 |
|-----------------------------|-----|-----------|---------------|------------|----------------------------|--------------------------|--------------------------|--------------------------|-----------------|
| Frequency                   |     | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg)  | Reported SAR(1g) (W/kg)  | Power Drift(dB) |
| MHz                         | Ch. |           |               |            |                            |                          |                          |                          |                 |
| Hotspot Test Data (10mm)    |     |           |               |            |                            |                          |                          |                          |                 |
| 1880                        | 661 | GPRS      | Front         | /          | 23.02                      | 23.5                     | 0.517                    | 0.58                     | 0.07            |
| 1880                        | 661 | GPRS      | Rear          | /          | 23.02                      | 23.5                     | 0.614                    | 0.69                     | 0.02            |
| 1880                        | 661 | GPRS      | Left          | /          | 23.02                      | 23.5                     | 0.073                    | 0.08                     | 0.09            |
| 1880                        | 661 | GPRS      | Right         | /          | 23.02                      | 23.5                     | 0.072                    | 0.08                     | -0.04           |
| 1880                        | 661 | GPRS      | Bottom        | /          | 23.02                      | 23.5                     | 1.050                    | 1.17                     | 0.04            |
| 1909.8                      | 810 | GPRS      | Bottom        | /          | 22.80                      | 23.5                     | 0.972                    | 1.14                     | 0.02            |
| 1850.2                      | 512 | GPRS      | Bottom        | Fig.4      | 23.14                      | 23.5                     | 1.170                    | 1.27                     | -0.05           |
| 1850.2                      | 512 | EGPRS     | Bottom        | /          | 23.14                      | 23.5                     | 1.130                    | 1.23                     | 0.11            |
| Body-Worn Test Data (15mm)  |     |           |               |            |                            |                          |                          |                          |                 |
| 1880                        | 661 | GPRS      | Front         | /          | 25.52                      | 26                       | 0.567                    | 0.63                     | 0.02            |
| 1880                        | 661 | GPRS      | Rear          | /          | 25.52                      | 26                       | 0.954                    | 1.07                     | 0.06            |
| 1909.8                      | 810 | GPRS      | Rear          | /          | 25.36                      | 26                       | 1.020                    | 1.18                     | -0.08           |
| 1850.2                      | 512 | GPRS      | Rear          | /          | 25.69                      | 26                       | 0.981                    | 1.05                     | -0.02           |
| The worst case with B2      |     |           |               |            |                            |                          |                          |                          |                 |
| 1850.2                      | 512 | GPRS      | Bottom        | /          | 23.14                      | 23.5                     | 1.080                    | 1.17                     | -0.02           |
| The worst case with 0mm     |     |           |               |            |                            |                          |                          |                          |                 |
| Frequency                   |     | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch. |           |               |            |                            |                          |                          |                          |                 |
| 1850.2                      | 512 | GPRS      | Bottom        | /          | 23.14                      | 23.5                     | 2.250                    | 2.64                     | -0.18           |

**Table 14.5: SAR Values (CDMA BC0 - Head)**

| Ambient Temperature: 22.5°C   |     |           |               |              | Liquid Temperature: 22.0°C |                          |                         |                         |                 |
|-------------------------------|-----|-----------|---------------|--------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                     |     | Test Mode | Test Position | Figure No.   | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                           | Ch. |           |               |              |                            |                          |                         |                         |                 |
| 836.52                        | 384 | SO55      | Left Touch    | /            | 24.07                      | 24.5                     | 0.184                   | 0.20                    | 0.03            |
| 836.52                        | 384 | SO55      | Left Tilt     | /            | 24.07                      | 24.5                     | 0.106                   | 0.12                    | 0.03            |
| 836.52                        | 384 | SO55      | Right Touch   | <b>Fig.5</b> | 24.07                      | 24.5                     | <b>0.241</b>            | <b>0.27</b>             | 0.03            |
| 836.52                        | 384 | SO55      | Right Tilt    | /            | 24.07                      | 24.5                     | 0.093                   | 0.10                    | 0.07            |
| <b>The worst case with B2</b> |     |           |               |              |                            |                          |                         |                         |                 |
| 836.52                        | 384 | SO55      | Right Touch   | /            | 24.07                      | 24.5                     | 0.212                   | 0.23                    | -0.18           |

**Table 14.6: SAR Values (CDMA BC0 -Body)**

| Ambient Temperature: 22.8°C |     |           |               |            | Liquid Temperature: 22.2°C |                          |                         |                         |                 |
|-----------------------------|-----|-----------|---------------|------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                   |     | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch. |           |               |            |                            |                          |                         |                         |                 |
| Hotspot Test Data (10mm)    |     |           |               |            |                            |                          |                         |                         |                 |
| 836.52                      | 384 | SO32      | Front         | Fig.6      | 24.1                       | 24.5                     | 0.436                   | 0.48                    | 0.03            |
| 836.52                      | 384 | SO32      | Rear          | /          | 24.1                       | 24.5                     | 0.406                   | 0.45                    | 0.03            |
| 836.52                      | 384 | SO32      | Left          | /          | 24.1                       | 24.5                     | 0.156                   | 0.17                    | -0.02           |
| 836.52                      | 384 | SO32      | Right         | /          | 24.1                       | 24.5                     | 0.093                   | 0.10                    | 0.02            |
| 836.52                      | 384 | SO32      | Bottom        | /          | 24.1                       | 24.5                     | 0.247                   | 0.27                    | 0.09            |
| Body-Worn Test Data (15mm)  |     |           |               |            |                            |                          |                         |                         |                 |
| 836.52                      | 384 | SO32      | Front         | /          | 24.1                       | 24.5                     | 0.237                   | 0.26                    | 0.07            |
| 836.52                      | 384 | SO32      | Rear          | /          | 24.1                       | 24.5                     | 0.217                   | 0.24                    | -0.06           |
| The worst case with B2      |     |           |               |            |                            |                          |                         |                         |                 |
| 836.52                      | 384 | SO32      | Front         | /          | 24.1                       | 24.5                     | 0.421                   | 0.46                    | 0.00            |

**Table 14.7: SAR Values (CDMA BC1 - Head)**

| Ambient Temperature: 22.7°C   |     |           |               |              | Liquid Temperature: 22.2°C |                          |                         |                         |                 |
|-------------------------------|-----|-----------|---------------|--------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                     |     | Test Mode | Test Position | Figure No.   | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                           | Ch. |           |               |              |                            |                          |                         |                         |                 |
| 1880                          | 600 | SO55      | Left Touch    | <b>Fig.7</b> | 23.71                      | 24.5                     | <b>0.150</b>            | <b>0.18</b>             | 0.07            |
| 1880                          | 600 | SO55      | Left Tilt     | /            | 23.71                      | 24.5                     | 0.086                   | 0.10                    | 0.07            |
| 1880                          | 600 | SO55      | Right Touch   | /            | 23.71                      | 24.5                     | 0.113                   | 0.14                    | 0.09            |
| 1880                          | 600 | SO55      | Right Tilt    | /            | 23.71                      | 24.5                     | 0.087                   | 0.10                    | 0.03            |
| <b>The worst case with B2</b> |     |           |               |              |                            |                          |                         |                         |                 |
| 1880                          | 600 | SO55      | Left Touch    | /            | 23.71                      | 24.5                     | 0.140                   | 0.17                    | 0.06            |

**Table 14.8: SAR Values (CDMA BC1 - Body)**

| Ambient Temperature: 22.4°C |      |           |               |            | Liquid Temperature: 22.0°C |                          |                          |                           |                 |
|-----------------------------|------|-----------|---------------|------------|----------------------------|--------------------------|--------------------------|---------------------------|-----------------|
| Frequency                   |      | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg)  | Reported SAR(1g) (W/kg)   | Power Drift(dB) |
| MHz                         | Ch.  |           |               |            |                            |                          |                          |                           |                 |
| Hotspot Test Data (10mm)    |      |           |               |            |                            |                          |                          |                           |                 |
| 1880                        | 600  | SO32      | Front         | /          | 19.19                      | 20                       | 0.487                    | 0.59                      | 0.06            |
| 1880                        | 600  | SO32      | Rear          | /          | 19.19                      | 20                       | 0.471                    | 0.57                      | 0.14            |
| 1880                        | 600  | SO32      | Left          | /          | 19.19                      | 20                       | 0.038                    | 0.05                      | 0.09            |
| 1880                        | 600  | SO32      | Right         | /          | 19.19                      | 20                       | 0.033                    | 0.04                      | 0.04            |
| 1880                        | 600  | SO32      | Bottom        | /          | 19.19                      | 20                       | 0.991                    | 1.19                      | 0.02            |
| 1908.75                     | 1175 | SO32      | Bottom        | /          | 19.15                      | 20                       | 1.080                    | 1.31                      | 0.02            |
| 1851.25                     | 25   | SO32      | Bottom        | /          | 19.34                      | 20                       | 0.927                    | 1.08                      | 0.02            |
| Body-Worn Test Data (15mm)  |      |           |               |            |                            |                          |                          |                           |                 |
| 1880                        | 600  | SO32      | Front         | /          | 23.71                      | 24.5                     | 0.845                    | 1.01                      | -0.03           |
| 1880                        | 600  | SO32      | Rear          | /          | 23.71                      | 24.5                     | 0.875                    | 1.05                      | 0.06            |
| 1908.75                     | 1175 | SO32      | Front         | /          | 23.65                      | 24.5                     | 0.905                    | 1.10                      | 0.08            |
| 1851.25                     | 25   | SO32      | Front         | /          | 23.85                      | 24.5                     | 0.792                    | 0.92                      | 0.07            |
| 1908.75                     | 1175 | SO32      | Rear          | /          | 23.65                      | 24.5                     | 0.974                    | 1.18                      | 0.06            |
| 1851.25                     | 25   | SO32      | Rear          | /          | 23.85                      | 24.5                     | 0.820                    | 0.95                      | -0.09           |
| The worst case with B2      |      |           |               |            |                            |                          |                          |                           |                 |
| 1908.75                     | 1175 | SO32      | Bottom        | Fig.8      | 19.15                      | 20                       | 1.130                    | 1.37                      | 0.17            |
| The worst case with 0mm     |      |           |               |            |                            |                          |                          |                           |                 |
| Frequency                   |      | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g ) (W/kg) | Power Drift(dB) |
| MHz                         | Ch.  |           |               |            |                            |                          |                          |                           |                 |
| 1908.75                     | 1175 | SO32      | Bottom        | /          | 19.15                      | 20                       | 1.680                    | 2.04                      | 0.03            |

**Table 14.9: SAR Values (CDMA BC10 - Head)**

| Ambient Temperature: 22.9°C   |     |           |               |              | Liquid Temperature: 22.4°C |                          |                         |                         |                 |
|-------------------------------|-----|-----------|---------------|--------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                     |     | Test Mode | Test Position | Figure No.   | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                           | Ch. |           |               |              |                            |                          |                         |                         |                 |
| 820.5                         | 580 | SO55      | Left Touch    | /            | 23.95                      | 24.5                     | 0.155                   | 0.18                    | 0.01            |
| 820.5                         | 580 | SO55      | Left Tilt     | /            | 23.95                      | 24.5                     | 0.083                   | 0.09                    | 0.04            |
| 820.5                         | 580 | SO55      | Right Touch   | <b>Fig.9</b> | 23.95                      | 24.5                     | <b>0.175</b>            | <b>0.20</b>             | 0.06            |
| 820.5                         | 580 | SO55      | Right Tilt    | /            | 23.95                      | 24.5                     | 0.074                   | 0.08                    | 0.04            |
| <b>The worst case with B2</b> |     |           |               |              |                            |                          |                         |                         |                 |
| 820.5                         | 580 | SO55      | Right Touch   | /            | 23.95                      | 24.5                     | 0.147                   | 0.17                    | 0.08            |

**Table 14.10: SAR Values (CDMA BC10 - Body)**

| Ambient Temperature: 22.6°C |     |           |               |            | Liquid Temperature: 22.1°C |                          |                         |                         |                 |
|-----------------------------|-----|-----------|---------------|------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                   |     | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch. |           |               |            |                            |                          |                         |                         |                 |
| Hotspot Test Data (10mm)    |     |           |               |            |                            |                          |                         |                         |                 |
| 820.5                       | 580 | SO32      | Front         | Fig.10     | 24.02                      | 24.5                     | 0.342                   | 0.38                    | 0.05            |
| 820.5                       | 580 | SO32      | Rear          | /          | 24.02                      | 24.5                     | 0.326                   | 0.36                    | -0.02           |
| 820.5                       | 580 | SO32      | Left          | /          | 24.02                      | 24.5                     | 0.099                   | 0.11                    | 0.02            |
| 820.5                       | 580 | SO32      | Right         | /          | 24.02                      | 24.5                     | 0.082                   | 0.09                    | 0.03            |
| 820.5                       | 580 | SO32      | Bottom        | /          | 24.02                      | 24.5                     | 0.195                   | 0.22                    | 0.05            |
| Body-Worn Test Data (15mm)  |     |           |               |            |                            |                          |                         |                         |                 |
| 820.5                       | 580 | SO32      | Front         | /          | 24.02                      | 24.5                     | 0.177                   | 0.20                    | 0.05            |
| 820.5                       | 580 | SO32      | Rear          | /          | 24.02                      | 24.5                     | 0.158                   | 0.18                    | -0.04           |
| The worst case with B2      |     |           |               |            |                            |                          |                         |                         |                 |
| 820.5                       | 580 | SO32      | Front         | /          | 24.02                      | 24.5                     | 0.298                   | 0.33                    | -0.16           |

**Table 14.11: SAR Values (WCDMA 850 - Head)**

| Ambient Temperature: 22.5°C   |      |           |               |               | Liquid Temperature: 22.0°C |                          |                         |                         |                 |
|-------------------------------|------|-----------|---------------|---------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                     |      | Test Mode | Test Position | Figure No.    | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                           | Ch.  |           |               |               |                            |                          |                         |                         |                 |
| 836.4                         | 4182 | RMC       | Left Touch    | /             | 23.5                       | 24                       | 0.152                   | 0.17                    | 0.15            |
| 836.4                         | 4182 | RMC       | Left Tilt     | /             | 23.5                       | 24                       | 0.076                   | 0.08                    | 0.13            |
| 836.4                         | 4182 | RMC       | Right Touch   | /             | 23.5                       | 24                       | 0.182                   | 0.20                    | 0.05            |
| 836.4                         | 4182 | RMC       | Right Tilt    | /             | 23.5                       | 24                       | 0.080                   | 0.09                    | 0.08            |
| <b>The worst case with B2</b> |      |           |               |               |                            |                          |                         |                         |                 |
| 836.4                         | 4182 | RMC       | Right Touch   | <b>Fig.11</b> | 23.5                       | 24                       | <b>0.187</b>            | <b>0.21</b>             | 0.06            |

**Table 14.12: SAR Values (WCDMA 850 -Body)**

| Ambient Temperature: 22.8°C |      |           |               |            | Liquid Temperature: 22.2°C |                          |                         |                         |                 |
|-----------------------------|------|-----------|---------------|------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                   |      | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch.  |           |               |            |                            |                          |                         |                         |                 |
| Hotspot Test Data (10mm)    |      |           |               |            |                            |                          |                         |                         |                 |
| 836.4                       | 4182 | RMC       | Front         | Fig.12     | 23.5                       | 24                       | 0.378                   | 0.42                    | 0.01            |
| 836.4                       | 4182 | RMC       | Rear          | /          | 23.5                       | 24                       | 0.367                   | 0.41                    | -0.06           |
| 836.4                       | 4182 | RMC       | Left          | /          | 23.5                       | 24                       | 0.113                   | 0.13                    | -0.01           |
| 836.4                       | 4182 | RMC       | Right         | /          | 23.5                       | 24                       | 0.252                   | 0.28                    | -0.05           |
| 836.4                       | 4182 | RMC       | Bottom        | /          | 23.5                       | 24                       | 0.211                   | 0.24                    | 0.08            |
| Body-Worn Test Data (15mm)  |      |           |               |            |                            |                          |                         |                         |                 |
| 836.4                       | 4182 | RMC       | Front         | /          | 23.5                       | 24                       | 0.231                   | 0.26                    | 0.10            |
| 836.4                       | 4182 | RMC       | Rear          | /          | 23.5                       | 24                       | 0.264                   | 0.30                    | 0.07            |
| The worst case with B2      |      |           |               |            |                            |                          |                         |                         |                 |
| 836.4                       | 4182 | RMC       | Front         | /          | 23.5                       | 24                       | 0.309                   | 0.35                    | 0.01            |

**Table 14.13: SAR Values (WCDMA1900 - Head)**

| Ambient Temperature: 22.7°C   |      |           |               |               | Liquid Temperature: 22.2°C |                          |                         |                         |                 |
|-------------------------------|------|-----------|---------------|---------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                     |      | Test Mode | Test Position | Figure No.    | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                           | Ch.  |           |               |               |                            |                          |                         |                         |                 |
| 1880                          | 9400 | RMC       | Left Touch    | <b>Fig.13</b> | 22.6                       | 23.5                     | <b>0.177</b>            | <b>0.22</b>             | 0.13            |
| 1880                          | 9400 | RMC       | Left Tilt     | /             | 22.6                       | 23.5                     | 0.092                   | 0.11                    | 0.03            |
| 1880                          | 9400 | RMC       | Right Touch   | /             | 22.6                       | 23.5                     | 0.116                   | 0.14                    | 0.05            |
| 1880                          | 9400 | RMC       | Right Tilt    | /             | 22.6                       | 23.5                     | 0.096                   | 0.12                    | 0.18            |
| <b>The worst case with B2</b> |      |           |               |               |                            |                          |                         |                         |                 |
| 1880                          | 9400 | RMC       | Left Touch    | /             | 22.6                       | 23.5                     | 0.126                   | 0.16                    | -0.17           |

**Table 14.14: SAR Values (WCDMA1900 - Body)**

| Ambient Temperature: 22.4°C |      |           |               |            | Liquid Temperature: 22.0°C |                          |                          |                          |                 |
|-----------------------------|------|-----------|---------------|------------|----------------------------|--------------------------|--------------------------|--------------------------|-----------------|
| Frequency                   |      | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg)  | Reported SAR(1g) (W/kg)  | Power Drift(dB) |
| MHz                         | Ch.  |           |               |            |                            |                          |                          |                          |                 |
| Hotspot Test Data (10mm)    |      |           |               |            |                            |                          |                          |                          |                 |
| 1880                        | 9400 | RMC       | Front         | /          | 18.6                       | 19.5                     | 0.489                    | 0.60                     | 0.04            |
| 1880                        | 9400 | RMC       | Rear          | /          | 18.6                       | 19.5                     | 0.515                    | 0.63                     | 0.16            |
| 1880                        | 9400 | RMC       | Left          | /          | 18.6                       | 19.5                     | 0.051                    | 0.06                     | 0.04            |
| 1880                        | 9400 | RMC       | Right         | /          | 18.6                       | 19.5                     | 0.037                    | 0.05                     | 0.04            |
| 1880                        | 9400 | RMC       | Bottom        | /          | 18.6                       | 19.5                     | 0.900                    | 1.11                     | -0.06           |
| 1907.6                      | 9538 | RMC       | Bottom        | Fig.14     | 18.5                       | 19.5                     | 1.020                    | 1.28                     | -0.15           |
| 1852.4                      | 9262 | RMC       | Bottom        | /          | 18.7                       | 19.5                     | 0.809                    | 0.97                     | -0.09           |
| Body-Worn Test Data (15mm)  |      |           |               |            |                            |                          |                          |                          |                 |
| 1880                        | 9400 | RMC       | Front         | /          | 22.6                       | 23.5                     | 0.699                    | 0.86                     | 0.18            |
| 1880                        | 9400 | RMC       | Rear          | /          | 22.6                       | 23.5                     | 0.690                    | 0.85                     | 0.16            |
| 1907.6                      | 9538 | RMC       | Front         | /          | 22.6                       | 23.5                     | 0.807                    | 0.99                     | 0.04            |
| 1852.4                      | 9262 | RMC       | Front         | /          | 22.8                       | 23.5                     | 0.650                    | 0.76                     | 0.19            |
| 1907.6                      | 9538 | RMC       | Rear          | /          | 22.6                       | 23.5                     | 0.794                    | 0.98                     | 0.09            |
| 1852.4                      | 9262 | RMC       | Rear          | /          | 22.8                       | 23.5                     | 0.641                    | 0.75                     | 0.12            |
| The worst case with B2      |      |           |               |            |                            |                          |                          |                          |                 |
| 1907.6                      | 9538 | RMC       | Bottom        | /          | 18.5                       | 19.5                     | 1.010                    | 1.27                     | 0.08            |
| The worst case with 0mm     |      |           |               |            |                            |                          |                          |                          |                 |
| Frequency                   |      | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch.  |           |               |            |                            |                          |                          |                          |                 |
| 1907.6                      | 9538 | RMC       | Bottom        | /          | 18.5                       | 19.5                     | 1.330                    | 1.67                     | -0.03           |

**Table 14.15: SAR Values (WCDMA 1700 - Head)**

| Frequency                     |      | Test |             | Figure No.    | Ambient Temperature: 22.9°C |                          | Liquid Temperature: 22.4°C |                         | Power Drift(dB) |
|-------------------------------|------|------|-------------|---------------|-----------------------------|--------------------------|----------------------------|-------------------------|-----------------|
| MHz                           | Ch.  | Mode | Position    |               | Conducted Power (dBm)       | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg)    | Reported SAR(1g) (W/kg) |                 |
| 1732.6                        | 1413 | RMC  | Left Touch  | /             | 23.7                        | 24.5                     | 0.121                      | 0.15                    | 0.02            |
| 1732.6                        | 1413 | RMC  | Left Tilt   | /             | 23.7                        | 24.5                     | 0.054                      | 0.06                    | 0.09            |
| 1732.6                        | 1413 | RMC  | Right Touch | /             | 23.7                        | 24.5                     | 0.087                      | 0.10                    | 0.05            |
| 1732.6                        | 1413 | RMC  | Right Tilt  | /             | 23.7                        | 24.5                     | 0.059                      | 0.07                    | 0.06            |
| <b>The worst case with B2</b> |      |      |             |               |                             |                          |                            |                         |                 |
| 1732.6                        | 1413 | RMC  | Left Touch  | <b>Fig.15</b> | 23.7                        | 24.5                     | <b>0.144</b>               | <b>0.17</b>             | 0.01            |

**Table 14.16: SAR Values (WCDMA 1700 - Body)**

| Ambient Temperature: 22.6°C |      |           |               |               | Liquid Temperature: 22.1°C |                          |                         |                         |                 |
|-----------------------------|------|-----------|---------------|---------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                   |      | Test Mode | Test Position | Figure No.    | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch.  |           |               |               |                            |                          |                         |                         |                 |
| Hotspot Test Data (10mm)    |      |           |               |               |                            |                          |                         |                         |                 |
| 1732.6                      | 1413 | RMC       | Front         | /             | 19.6                       | 20.5                     | 0.411                   | 0.51                    | -0.05           |
| 1732.6                      | 1413 | RMC       | Rear          | /             | 19.6                       | 20.5                     | 0.413                   | 0.51                    | 0.06            |
| 1732.6                      | 1413 | RMC       | Left          | /             | 19.6                       | 20.5                     | 0.064                   | 0.08                    | -0.07           |
| 1732.6                      | 1413 | RMC       | Right         | /             | 19.6                       | 20.5                     | 0.041                   | 0.05                    | 0.08            |
| 1732.6                      | 1413 | RMC       | Bottom        | /             | 19.6                       | 20.5                     | 0.675                   | 0.83                    | -0.04           |
| 1752.6                      | 1513 | RMC       | Bottom        | /             | 19.6                       | 20.5                     | 0.751                   | 0.92                    | 0.00            |
| 1712.4                      | 1312 | RMC       | Bottom        | /             | 19.7                       | 20.5                     | 0.635                   | 0.76                    | 0.04            |
| Body-Worn Test Data (15mm)  |      |           |               |               |                            |                          |                         |                         |                 |
| 1732.6                      | 1413 | RMC       | Front         | /             | 23.7                       | 24.5                     | 0.629                   | 0.76                    | 0.06            |
| 1732.6                      | 1413 | RMC       | Rear          | /             | 23.7                       | 24.5                     | 0.628                   | <b>0.76</b>             | 0.05            |
| The worst case with B2      |      |           |               |               |                            |                          |                         |                         |                 |
| 1752.6                      | 1513 | RMC       | Bottom        | <b>Fig.16</b> | 19.6                       | 20.5                     | <b>0.822</b>            | <b>1.01</b>             | 0.09            |

**Table 14.17: SAR Values (LTE Band 2 - Head)**

| Frequency                     |       | Ambient Temperature: 22.7°C |               |               |                       | Liquid Temperature: 22.2°C |                         |                         |                 |
|-------------------------------|-------|-----------------------------|---------------|---------------|-----------------------|----------------------------|-------------------------|-------------------------|-----------------|
| MHz                           | Ch.   | Test Mode                   | Test Position | Figure No.    | Conducted Power (dBm) | Max. tune-up Power (dBm)   | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| 1880                          | 18900 | 1RB_Low                     | Left Touch    | <b>Fig.17</b> | 22.24                 | 23.5                       | <b>0.124</b>            | <b>0.17</b>             | 0.08            |
| 1880                          | 18900 | 50RB_Low                    | Left Touch    | /             | 21.35                 | 22.5                       | 0.095                   | 0.12                    | 0.05            |
| 1880                          | 18900 | 1RB_Low                     | Left Tilt     | /             | 22.24                 | 23.5                       | 0.045                   | 0.06                    | 0.07            |
| 1880                          | 18900 | 50RB_Low                    | Left Tilt     | /             | 21.35                 | 22.5                       | 0.034                   | 0.04                    | 0.02            |
| 1880                          | 18900 | 1RB_Low                     | Right Touch   | /             | 22.24                 | 23.5                       | 0.102                   | 0.14                    | 0.05            |
| 1880                          | 18900 | 50RB_Low                    | Right Touch   | /             | 21.35                 | 22.5                       | 0.082                   | 0.11                    | 0.04            |
| 1880                          | 18900 | 1RB_Low                     | Right Tilt    | /             | 22.24                 | 23.5                       | 0.036                   | 0.05                    | 0.04            |
| 1880                          | 18900 | 50RB_Low                    | Right Tilt    | /             | 21.35                 | 22.5                       | 0.028                   | 0.04                    | 0.05            |
| <b>The worst case with B2</b> |       |                             |               |               |                       |                            |                         |                         |                 |
| 1880                          | 18900 | 1RB_Low                     | Left Touch    | /             | 22.24                 | 23.5                       | 0.117                   | 0.16                    | 0.03            |

**Table 14.18: SAR Values (LTE Band 2 - Body)**

| Ambient Temperature: 22.4°C |       |           |               |            | Liquid Temperature: 22.0°C |                          |                          |                          |                 |
|-----------------------------|-------|-----------|---------------|------------|----------------------------|--------------------------|--------------------------|--------------------------|-----------------|
| Frequency                   |       | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg)  | Reported SAR(1g) (W/kg)  | Power Drift(dB) |
| MHz                         | Ch.   |           |               |            |                            |                          |                          |                          |                 |
| Hotspot Test Data (10mm)    |       |           |               |            |                            |                          |                          |                          |                 |
| 1880                        | 18900 | 1RB_Low   | Front         | /          | 19.63                      | 20.5                     | 0.526                    | 0.64                     | 0.19            |
| 1880                        | 18900 | 50RB_Mid  | Front         | /          | 19.69                      | 20.5                     | 0.539                    | 0.65                     | -0.02           |
| 1880                        | 18900 | 1RB_Low   | Rear          | /          | 19.63                      | 20.5                     | 0.532                    | 0.65                     | 0.01            |
| 1880                        | 18900 | 50RB_Mid  | Rear          | /          | 19.69                      | 20.5                     | 0.595                    | 0.72                     | 0.03            |
| 1880                        | 18900 | 1RB_Low   | Left          | /          | 19.63                      | 20.5                     | 0.064                    | 0.08                     | 0.03            |
| 1880                        | 18900 | 50RB_Mid  | Left          | /          | 19.69                      | 20.5                     | 0.061                    | 0.07                     | -0.12           |
| 1880                        | 18900 | 1RB_Low   | Right         | /          | 19.63                      | 20.5                     | 0.077                    | 0.09                     | 0.07            |
| 1880                        | 18900 | 50RB_Mid  | Right         | /          | 19.69                      | 20.5                     | 0.076                    | 0.09                     | 0.09            |
| 1880                        | 18900 | 1RB_Low   | Bottom        | /          | 19.63                      | 20.5                     | 1.100                    | 1.34                     | -0.02           |
| 1880                        | 18900 | 50RB_Mid  | Bottom        | /          | 19.69                      | 20.5                     | 1.060                    | 1.28                     | 0.01            |
| 1900                        | 19100 | 1RB_Low   | Bottom        | /          | 19.71                      | 20.5                     | 1.110                    | 1.33                     | -0.04           |
| 1860                        | 18700 | 1RB_Low   | Bottom        | /          | 19.81                      | 20.5                     | 0.996                    | 1.17                     | -0.04           |
| 1900                        | 19100 | 50RB_Low  | Bottom        | Fig.18     | 19.75                      | 20.5                     | 1.180                    | 1.40                     | 0.05            |
| 1860                        | 18700 | 50RB_Mid  | Bottom        | /          | 19.78                      | 20.5                     | 1.050                    | 1.24                     | 0.01            |
| 1880                        | 18900 | 100RB     | Bottom        | /          | 19.67                      | 20.5                     | 0.526                    | 1.28                     | 0.19            |
| Body-Worn Test Data (15mm)  |       |           |               |            |                            |                          |                          |                          |                 |
| 1880                        | 18900 | 1RB_Low   | Front         | /          | 22.24                      | 23.5                     | 0.588                    | 0.79                     | 0.13            |
| 1880                        | 18900 | 50RB_Low  | Front         | /          | 21.35                      | 22.5                     | 0.540                    | 0.70                     | -0.08           |
| 1880                        | 18900 | 1RB_Low   | Rear          | /          | 22.24                      | 23.5                     | 0.668                    | 0.89                     | 0.07            |
| 1880                        | 18900 | 50RB_Low  | Rear          | /          | 21.35                      | 22.5                     | 0.534                    | 0.70                     | 0.07            |
| 1900                        | 19100 | 1RB_Low   | Rear          | /          | 22.44                      | 23.5                     | 0.704                    | 0.90                     | 0.04            |
| 1860                        | 18700 | 1RB_Low   | Rear          | /          | 22.45                      | 23.5                     | 0.646                    | 0.82                     | 0.05            |
| 1880                        | 18900 | 100RB     | Rear          | /          | 21.37                      | 22.5                     | 0.538                    | 0.70                     | 0.12            |
| The worst case with B2      |       |           |               |            |                            |                          |                          |                          |                 |
| 1900                        | 19100 | 50RB_Low  | Bottom        | /          | 19.75                      | 20.5                     | 1.160                    | 1.38                     | 0.05            |
| The worst case with 0mm     |       |           |               |            |                            |                          |                          |                          |                 |
| Frequency                   |       | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch.   |           |               |            |                            |                          |                          |                          |                 |
| 1900                        | 19100 | 50RB_Low  | Bottom        | /          | 19.75                      | 20.5                     | 1.710                    | 2.06                     | 0.05            |

**Table 14.19: SAR Values (LTE Band 4 - Head)**

| Ambient Temperature: 22.9°C   |       |           |               |               | Liquid Temperature: 22.4°C |                          |                         |                         |                 |
|-------------------------------|-------|-----------|---------------|---------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                     |       | Test Mode | Test Position | Figure No.    | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                           | Ch.   |           |               |               |                            |                          |                         |                         |                 |
| 1732.5                        | 20175 | 1RB_Low   | Left Touch    | <b>Fig.19</b> | 24.53                      | 25                       | <b>0.200</b>            | <b>0.22</b>             | 0.06            |
| 1732.5                        | 20175 | 50RB_Low  | Left Touch    | /             | 22.74                      | 24                       | 0.113                   | 0.15                    | -0.08           |
| 1732.5                        | 20175 | 1RB_Low   | Left Tilt     | /             | 24.53                      | 25                       | 0.060                   | 0.07                    | 0.07            |
| 1732.5                        | 20175 | 50RB_Low  | Left Tilt     | /             | 22.74                      | 24                       | 0.053                   | 0.07                    | 0.06            |
| 1732.5                        | 20175 | 1RB_Low   | Right Touch   | /             | 24.53                      | 25                       | 0.103                   | 0.11                    | 0.01            |
| 1732.5                        | 20175 | 50RB_Low  | Right Touch   | /             | 22.74                      | 24                       | 0.066                   | 0.09                    | 0.05            |
| 1732.5                        | 20175 | 1RB_Low   | Right Tilt    | /             | 24.53                      | 25                       | 0.072                   | 0.08                    | 0.03            |
| 1732.5                        | 20175 | 50RB_Low  | Right Tilt    | /             | 22.74                      | 24                       | 0.049                   | 0.06                    | 0.02            |
| <b>The worst case with B2</b> |       |           |               |               |                            |                          |                         |                         |                 |
| 1732.5                        | 20175 | 1RB_Low   | Left Touch    | /             | 24.53                      | 25                       | 0.159                   | 0.18                    | 0.09            |

**Table 14.20: SAR Values (LTE Band 4 - Body)**

| Ambient Temperature: 22.6°C |       |           |               |            | Liquid Temperature: 22.1°C |                          |                         |                         |                 |
|-----------------------------|-------|-----------|---------------|------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                   |       | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch.   |           |               |            |                            |                          |                         |                         |                 |
| Hotspot Test Data (10mm)    |       |           |               |            |                            |                          |                         |                         |                 |
| 1732.5                      | 20175 | 1RB_Low   | Front         | /          | 20.68                      | 21                       | 0.468                   | 0.50                    | 0.07            |
| 1732.5                      | 20175 | 50RB_Low  | Front         | /          | 19.93                      | 21                       | 0.392                   | 0.50                    | 0.08            |
| 1732.5                      | 20175 | 1RB_Low   | Rear          | /          | 20.68                      | 21                       | 0.513                   | 0.55                    | 0.04            |
| 1732.5                      | 20175 | 50RB_Low  | Rear          | /          | 19.93                      | 21                       | 0.473                   | 0.61                    | 0.03            |
| 1732.5                      | 20175 | 1RB_Low   | Left          | /          | 20.68                      | 21                       | <0.001                  | < 0.01                  | 0.00            |
| 1732.5                      | 20175 | 50RB_Low  | Left          | /          | 19.93                      | 21                       | <0.001                  | < 0.01                  | 0.03            |
| 1732.5                      | 20175 | 1RB_Low   | Right         | /          | 20.68                      | 21                       | 0.052                   | 0.06                    | -0.12           |
| 1732.5                      | 20175 | 50RB_Low  | Right         | /          | 19.93                      | 21                       | 0.041                   | 0.05                    | -0.07           |
| 1732.5                      | 20175 | 1RB_Low   | Bottom        | /          | 20.68                      | 21                       | 0.922                   | 0.99                    | -0.05           |
| 1732.5                      | 20175 | 50RB_Low  | Bottom        | /          | 19.93                      | 21                       | 0.811                   | 1.04                    | 0.01            |
| 1745                        | 20300 | 1RB_Low   | Bottom        | Fig.20     | 20.68                      | 21                       | 0.976                   | 1.05                    | 0.02            |
| 1720                        | 20050 | 1RB_Low   | Bottom        | /          | 20.62                      | 21                       | 0.799                   | 0.87                    | -0.05           |
| 1745                        | 20300 | 50RB_Low  | Bottom        | /          | 19.93                      | 21                       | 0.835                   | 1.07                    | 0.03            |
| 1720                        | 20050 | 50RB_Low  | Bottom        | /          | 19.85                      | 21                       | 0.687                   | 0.90                    | 0.02            |
| 1732.5                      | 20175 | 100RB     | Bottom        | /          | 19.87                      | 21                       | 0.825                   | 1.07                    | 0.04            |
| Body-Worn Test Data (15mm)  |       |           |               |            |                            |                          |                         |                         |                 |
| 1732.5                      | 20175 | 1RB_Low   | Front         | /          | 24.53                      | 25                       | 0.702                   | 0.78                    | 0.17            |
| 1732.5                      | 20175 | 50RB_Low  | Front         | /          | 22.74                      | 24                       | 0.475                   | 0.63                    | 0.04            |
| 1732.5                      | 20175 | 1RB_Low   | Rear          | /          | 24.53                      | 25                       | 0.672                   | 0.75                    | 0.09            |
| 1732.5                      | 20175 | 50RB_Low  | Rear          | /          | 22.74                      | 24                       | 0.458                   | 0.61                    | 0.01            |
| The worst case with B2      |       |           |               |            |                            |                          |                         |                         |                 |
| 1745                        | 20300 | 50RB_Low  | Bottom        | /          | 19.93                      | 21                       | 0.824                   | 1.05                    | -0.07           |

**Table 14.21: SAR Values (LTE Band 5 - Head)**

| Ambient Temperature: 22.5°C   |       |           |               |               | Liquid Temperature: 22.0°C |                          |                         |                         |                 |
|-------------------------------|-------|-----------|---------------|---------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                     |       | Test Mode | Test Position | Figure No.    | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                           | Ch.   |           |               |               |                            |                          |                         |                         |                 |
| 836.5                         | 20525 | 1RB_High  | Left Touch    | <b>Fig.21</b> | 23.60                      | 24                       | <b>0.162</b>            | <b>0.18</b>             | 0.06            |
| 836.5                         | 20525 | 25RB_High | Left Touch    | /             | 22.35                      | 23                       | 0.118                   | 0.14                    | -0.18           |
| 836.5                         | 20525 | 1RB_High  | Left Tilt     | /             | 23.60                      | 24                       | 0.106                   | 0.12                    | -0.03           |
| 836.5                         | 20525 | 25RB_High | Left Tilt     | /             | 22.35                      | 23                       | 0.078                   | 0.09                    | 0.10            |
| 836.5                         | 20525 | 1RB_High  | Right Touch   | /             | 23.60                      | 24                       | 0.154                   | 0.17                    | -0.15           |
| 836.5                         | 20525 | 25RB_High | Right Touch   | /             | 22.35                      | 23                       | 0.129                   | 0.15                    | 0.04            |
| 836.5                         | 20525 | 1RB_High  | Right Tilt    | /             | 23.60                      | 24                       | 0.069                   | 0.08                    | -0.09           |
| 836.5                         | 20525 | 25RB_High | Right Tilt    | /             | 22.35                      | 23                       | 0.062                   | 0.07                    | 0.04            |
| <b>The worst case with B2</b> |       |           |               |               |                            |                          |                         |                         |                 |
| 836.5                         | 20525 | 1RB_High  | Left Touch    | /             | 23.60                      | 24                       | 0.137                   | 0.15                    | -0.04           |

**Table 14.22: SAR Values (LTE Band 5 - Body)**

| Ambient Temperature: 22.8°C |       |           |               |            | Liquid Temperature: 22.2°C |                          |                         |                         |                 |
|-----------------------------|-------|-----------|---------------|------------|----------------------------|--------------------------|-------------------------|-------------------------|-----------------|
| Frequency                   |       | Test Mode | Test Position | Figure No. | Conducted Power (dBm)      | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| MHz                         | Ch.   |           |               |            |                            |                          |                         |                         |                 |
| Hotspot Test Data (10mm)    |       |           |               |            |                            |                          |                         |                         |                 |
| 836.5                       | 20525 | 1RB_High  | Front         | /          | 23.60                      | 24                       | 0.374                   | 0.41                    | 0.05            |
| 836.5                       | 20525 | 25RB_High | Front         | /          | 22.35                      | 23                       | 0.339                   | 0.39                    | -0.05           |
| 836.5                       | 20525 | 1RB_High  | Rear          | Fig.22     | 23.60                      | 24                       | 0.540                   | 0.59                    | -0.02           |
| 836.5                       | 20525 | 25RB_High | Rear          | /          | 22.35                      | 23                       | 0.393                   | 0.46                    | -0.04           |
| 836.5                       | 20525 | 1RB_High  | Left          | /          | 23.60                      | 24                       | 0.082                   | 0.09                    | 0.04            |
| 836.5                       | 20525 | 25RB_High | Left          | /          | 22.35                      | 23                       | 0.062                   | 0.07                    | 0.05            |
| 836.5                       | 20525 | 1RB_High  | Right         | /          | 23.60                      | 24                       | 0.217                   | 0.24                    | 0.02            |
| 836.5                       | 20525 | 25RB_High | Right         | /          | 22.35                      | 23                       | 0.162                   | 0.19                    | 0.04            |
| 836.5                       | 20525 | 1RB_High  | Bottom        | /          | 23.60                      | 24                       | 0.277                   | 0.30                    | 0.04            |
| 836.5                       | 20525 | 25RB_High | Bottom        | /          | 22.35                      | 23                       | 0.194                   | 0.23                    | 0.01            |
| Body-Worn Test Data (15mm)  |       |           |               |            |                            |                          |                         |                         |                 |
| 836.5                       | 20525 | 1RB_High  | Front         | /          | 23.60                      | 24                       | 0.226                   | 0.25                    | -0.08           |
| 836.5                       | 20525 | 25RB_High | Front         | /          | 22.35                      | 23                       | 0.153                   | 0.18                    | 0.17            |
| 836.5                       | 20525 | 1RB_High  | Rear          | /          | 23.60                      | 24                       | 0.240                   | 0.26                    | 0.06            |
| 836.5                       | 20525 | 25RB_High | Rear          | /          | 22.35                      | 23                       | 0.177                   | 0.21                    | 0.06            |
| The worst case with B2      |       |           |               |            |                            |                          |                         |                         |                 |
| 836.5                       | 20525 | 1RB_High  | Rear          | /          | 23.60                      | 24                       | 0.443                   | 0.49                    | 0.03            |

**Table 14.23: SAR Values (LTE Band 7 - Head)**

| Frequency                     |       | Ambient Temperature: 22.5°C |               | Liquid Temperature: 22.0°C |                       |                          |                         |                         |                 |
|-------------------------------|-------|-----------------------------|---------------|----------------------------|-----------------------|--------------------------|-------------------------|-------------------------|-----------------|
| MHz                           | Ch.   | Test Mode                   | Test Position | Figure No.                 | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift(dB) |
| 2535                          | 21100 | 1RB_Low                     | Left Touch    | <b>Fig.23</b>              | 23.76                 | 24.5                     | <b>0.125</b>            | <b>0.15</b>             | 0.07            |
| 2535                          | 21100 | 50RB_Low                    | Left Touch    | /                          | 22.37                 | 23.5                     | 0.093                   | 0.12                    | 0.02            |
| 2535                          | 21100 | 1RB_Low                     | Left Tilt     | /                          | 23.76                 | 24.5                     | 0.089                   | 0.11                    | 0.05            |
| 2535                          | 21100 | 25RB_Mid                    | Left Tilt     | /                          | 22.37                 | 23.5                     | 0.075                   | 0.10                    | 0.06            |
| 2535                          | 21100 | 1RB_Low                     | Right Touch   | /                          | 23.76                 | 24.5                     | 0.096                   | 0.11                    | 0.07            |
| 2535                          | 21100 | 25RB_Mid                    | Right Touch   | /                          | 22.37                 | 23.5                     | 0.066                   | 0.09                    | 0.08            |
| 2535                          | 21100 | 1RB_Low                     | Right Tilt    | /                          | 23.76                 | 24.5                     | 0.122                   | 0.14                    | 0.01            |
| 2535                          | 21100 | 25RB_Mid                    | Right Tilt    | /                          | 22.37                 | 23.5                     | 0.088                   | 0.11                    | 0.09            |
| <b>The worst case with B2</b> |       |                             |               |                            |                       |                          |                         |                         |                 |
| 2535                          | 21100 | 1RB_Low                     | Left Touch    | /                          | 23.76                 | 24.5                     | 0.117                   | 0.14                    | 0.04            |