



#### 8.1.4.3 Conducted Power of LTE

| LTE Band 2 Hotspot off |            |         |           | Conducted Power(dBm) |               |               |         |
|------------------------|------------|---------|-----------|----------------------|---------------|---------------|---------|
| Bandwidth              | Modulation | RB size | RB offset | Channel 18607        | Channel 18900 | Channel 19193 | Tune up |
| 1.4MHz                 | QPSK       | 1       | 0         | 22.19                | 22.12         | 22.13         | 24.00   |
|                        |            | 1       | 2         | 22.32                | 22.32         | 22.29         | 24.00   |
|                        |            | 1       | 5         | 22.16                | 22.28         | 22.28         | 24.00   |
|                        |            | 3       | 0         | 22.21                | 22.19         | 22.23         | 24.00   |
|                        |            | 3       | 2         | 22.27                | 22.19         | 22.21         | 24.00   |
|                        |            | 3       | 3         | 22.16                | 22.16         | 22.21         | 24.00   |
|                        |            | 6       | 0         | 21.34                | 21.27         | 21.30         | 23.00   |
|                        | 16QAM      | 1       | 0         | 21.46                | 21.55         | 21.78         | 23.00   |
|                        |            | 1       | 2         | 21.39                | 21.38         | 21.39         | 23.00   |
|                        |            | 1       | 5         | 21.73                | 21.31         | 21.33         | 23.00   |
|                        |            | 3       | 0         | 21.49                | 21.33         | 21.43         | 23.00   |
|                        |            | 3       | 2         | 21.28                | 21.36         | 21.32         | 23.00   |
|                        |            | 3       | 3         | 21.47                | 21.17         | 21.22         | 23.00   |
|                        |            | 6       | 0         | 20.45                | 20.39         | 20.32         | 22.00   |
|                        | 64QAM      | 1       | 0         | 20.46                | 20.58         | 20.82         | 22.00   |
|                        |            | 1       | 2         | 20.37                | 20.37         | 20.41         | 22.00   |
|                        |            | 1       | 5         | 20.71                | 20.28         | 20.30         | 22.00   |
|                        |            | 3       | 0         | 20.47                | 20.32         | 20.49         | 22.00   |
|                        |            | 3       | 2         | 20.30                | 20.41         | 20.28         | 22.00   |
|                        |            | 3       | 3         | 20.47                | 20.19         | 20.21         | 22.00   |
|                        |            | 6       | 0         | 19.49                | 19.41         | 19.35         | 21.00   |
| Bandwidth              | Modulation | RB size | RB offset | Channel 18615        | Channel 18900 | Channel 19185 | Tune up |
| 3MHz                   | QPSK       | 1       | 0         | 22.22                | 22.27         | 22.37         | 24.00   |
|                        |            | 1       | 7         | 22.25                | 22.22         | 22.38         | 24.00   |
|                        |            | 1       | 14        | 22.22                | 22.20         | 22.10         | 24.00   |
|                        |            | 8       | 0         | 21.43                | 21.37         | 21.43         | 23.00   |
|                        |            | 8       | 4         | 21.42                | 21.38         | 21.44         | 23.00   |
|                        |            | 8       | 7         | 21.33                | 21.37         | 21.38         | 23.00   |
|                        |            | 15      | 0         | 21.43                | 21.33         | 21.38         | 23.00   |
|                        | 16QAM      | 1       | 0         | 21.49                | 21.43         | 21.56         | 23.00   |
|                        |            | 1       | 7         | 21.72                | 21.21         | 21.53         | 23.00   |
|                        |            | 1       | 14        | 21.50                | 21.38         | 21.55         | 23.00   |
|                        |            | 8       | 0         | 20.50                | 20.45         | 20.52         | 22.00   |
|                        |            | 8       | 4         | 20.45                | 20.49         | 20.52         | 22.00   |
|                        |            | 8       | 7         | 20.46                | 20.53         | 20.44         | 22.00   |
|                        |            | 15      | 0         | 20.34                | 20.45         | 20.38         | 22.00   |
|                        | 64QAM      | 1       | 0         | 20.46                | 20.45         | 20.56         | 22.00   |
|                        |            | 1       | 7         | 20.78                | 20.26         | 20.59         | 22.00   |
|                        |            | 1       | 14        | 20.49                | 20.36         | 20.59         | 22.00   |
|                        |            | 8       | 0         | 19.48                | 19.50         | 19.57         | 21.00   |
|                        |            | 8       | 4         | 19.41                | 19.55         | 19.55         | 21.00   |
|                        |            | 8       | 7         | 19.43                | 19.52         | 19.41         | 21.00   |
|                        |            | 15      | 0         | 19.36                | 19.47         | 19.43         | 21.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 22.25   | 22.04   | 22.12   | 24.00   |
|           |            | 1       | 13        | 22.20   | 22.31   | 22.35   | 24.00   |
|           |            | 1       | 24        | 22.21   | 22.27   | 22.20   | 24.00   |
|           |            | 12      | 0         | 21.32   | 21.39   | 21.34   | 23.00   |
|           |            | 12      | 6         | 21.44   | 21.40   | 21.42   | 23.00   |
|           |            | 12      | 13        | 21.34   | 21.33   | 21.30   | 23.00   |
|           |            | 25      | 0         | 21.35   | 21.33   | 21.32   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.51   | 21.49   | 21.29   | 23.00   |
|           |            | 1       | 13        | 21.42   | 21.23   | 21.95   | 23.00   |
|           |            | 1       | 24        | 21.09   | 21.29   | 21.11   | 23.00   |
|           |            | 12      | 0         | 20.37   | 20.41   | 20.39   | 22.00   |
|           |            | 12      | 6         | 20.42   | 20.29   | 20.32   | 22.00   |
|           |            | 12      | 13        | 20.41   | 20.35   | 20.34   | 22.00   |
|           |            | 25      | 0         | 20.45   | 20.46   | 20.33   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.47   | 20.48   | 20.28   | 22.00   |
|           |            | 1       | 13        | 20.38   | 20.23   | 20.96   | 22.00   |
|           |            | 1       | 24        | 20.13   | 20.34   | 20.14   | 22.00   |
|           |            | 12      | 0         | 19.40   | 19.47   | 19.41   | 21.00   |
|           |            | 12      | 6         | 19.38   | 19.35   | 19.38   | 21.00   |
|           |            | 12      | 13        | 19.40   | 19.32   | 19.33   | 21.00   |
|           |            | 25      | 0         | 19.48   | 19.44   | 19.39   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 22.12   | 22.10   | 22.19   | 24.00   |
|           |            | 1       | 25        | 22.20   | 22.14   | 22.10   | 24.00   |
|           |            | 1       | 49        | 22.13   | 22.07   | 22.27   | 24.00   |
|           |            | 25      | 0         | 21.30   | 21.20   | 21.31   | 23.00   |
|           |            | 25      | 13        | 21.43   | 21.37   | 21.36   | 23.00   |
|           |            | 25      | 25        | 21.27   | 21.31   | 21.30   | 23.00   |
|           |            | 50      | 0         | 21.33   | 21.22   | 21.34   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.41   | 21.43   | 21.21   | 23.00   |
|           |            | 1       | 25        | 21.56   | 21.64   | 21.52   | 23.00   |
|           |            | 1       | 49        | 21.49   | 21.33   | 21.47   | 23.00   |
|           |            | 25      | 0         | 20.07   | 20.37   | 20.25   | 22.00   |
|           |            | 25      | 13        | 20.36   | 20.33   | 20.37   | 22.00   |
|           |            | 25      | 25        | 20.19   | 20.43   | 20.34   | 22.00   |
|           |            | 50      | 0         | 20.32   | 20.12   | 20.29   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.38   | 20.47   | 20.19   | 22.00   |
|           |            | 1       | 25        | 20.56   | 20.64   | 20.51   | 22.00   |
|           |            | 1       | 49        | 20.49   | 20.37   | 20.52   | 22.00   |
|           |            | 25      | 0         | 19.03   | 19.35   | 19.30   | 21.00   |
|           |            | 25      | 13        | 19.37   | 19.30   | 19.37   | 21.00   |
|           |            | 25      | 25        | 19.24   | 19.41   | 19.34   | 21.00   |
|           |            | 50      | 0         | 19.36   | 19.14   | 19.32   | 21.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.21   | 22.39   | 22.32   | 24.00   |
|           |            | 1       | 38        | 22.27   | 22.34   | 22.38   | 24.00   |
|           |            | 1       | 74        | 22.34   | 22.39   | 22.39   | 24.00   |
|           |            | 36      | 0         | 21.37   | 21.34   | 21.31   | 23.00   |
|           |            | 36      | 18        | 21.44   | 21.43   | 21.60   | 23.00   |
|           |            | 36      | 39        | 21.44   | 21.51   | 21.49   | 23.00   |
|           |            | 75      | 0         | 21.46   | 21.38   | 21.47   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.73   | 21.52   | 21.67   | 23.00   |
|           |            | 1       | 38        | 21.66   | 21.53   | 21.96   | 23.00   |
|           |            | 1       | 74        | 21.63   | 21.71   | 21.35   | 23.00   |
|           |            | 36      | 0         | 20.40   | 20.40   | 20.37   | 22.00   |
|           |            | 36      | 18        | 20.40   | 20.36   | 20.54   | 22.00   |
|           |            | 36      | 39        | 20.52   | 20.45   | 20.48   | 22.00   |
|           |            | 75      | 0         | 20.52   | 20.45   | 20.45   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.77   | 20.58   | 20.66   | 22.00   |
|           |            | 1       | 38        | 20.67   | 20.54   | 21.00   | 22.00   |
|           |            | 1       | 74        | 20.64   | 20.68   | 20.33   | 22.00   |
|           |            | 36      | 0         | 19.40   | 19.43   | 19.42   | 21.00   |
|           |            | 36      | 18        | 19.45   | 19.34   | 19.53   | 21.00   |
|           |            | 36      | 39        | 19.57   | 19.48   | 19.46   | 21.00   |
|           |            | 75      | 0         | 19.48   | 19.44   | 19.47   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |
| 20MHz     | QPSK       | 1       | 0         | 22.37   | 22.45   | 22.27   | 24.00   |
|           |            | 1       | 50        | 22.34   | 22.40   | 22.44   | 24.00   |
|           |            | 1       | 99        | 22.43   | 22.35   | 22.33   | 24.00   |
|           |            | 50      | 0         | 21.45   | 21.37   | 21.32   | 23.00   |
|           |            | 50      | 25        | 21.50   | 21.45   | 21.40   | 23.00   |
|           |            | 50      | 50        | 21.53   | 21.50   | 21.58   | 23.00   |
|           |            | 100     | 0         | 21.39   | 21.41   | 21.39   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.86   | 21.98   | 21.33   | 23.00   |
|           |            | 1       | 50        | 21.65   | 21.74   | 21.31   | 23.00   |
|           |            | 1       | 99        | 21.72   | 21.33   | 21.36   | 23.00   |
|           |            | 50      | 0         | 20.36   | 20.37   | 20.43   | 22.00   |
|           |            | 50      | 25        | 20.53   | 20.44   | 20.49   | 22.00   |
|           |            | 50      | 50        | 20.44   | 20.50   | 20.51   | 22.00   |
|           |            | 100     | 0         | 20.43   | 20.39   | 20.37   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.88   | 21.02   | 20.38   | 22.00   |
|           |            | 1       | 50        | 20.62   | 20.71   | 20.34   | 22.00   |
|           |            | 1       | 99        | 20.71   | 20.30   | 20.40   | 22.00   |
|           |            | 50      | 0         | 19.37   | 19.42   | 19.44   | 21.00   |
|           |            | 50      | 25        | 19.52   | 19.46   | 19.50   | 21.00   |
|           |            | 50      | 50        | 19.42   | 19.54   | 19.52   | 21.00   |
|           |            | 100     | 0         | 19.49   | 19.43   | 19.43   | 21.00   |



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| LTE Band 2 Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz                | QPSK       | 1       | 0         | 19.13                | 19.03   | 19.19   | 21.00   |
|                       |            | 1       | 2         | 19.20                | 19.25   | 19.12   | 21.00   |
|                       |            | 1       | 5         | 19.09                | 19.17   | 19.08   | 21.00   |
|                       |            | 3       | 0         | 19.16                | 19.16   | 19.08   | 21.00   |
|                       |            | 3       | 2         | 19.30                | 19.39   | 19.09   | 21.00   |
|                       |            | 3       | 3         | 19.14                | 19.16   | 19.09   | 21.00   |
|                       |            | 6       | 0         | 19.16                | 19.18   | 19.19   | 21.00   |
|                       | 16QAM      | 1       | 0         | 19.61                | 19.36   | 19.35   | 21.00   |
|                       |            | 1       | 2         | 19.76                | 19.44   | 19.77   | 21.00   |
|                       |            | 1       | 5         | 19.49                | 19.94   | 19.04   | 21.00   |
|                       |            | 3       | 0         | 19.21                | 19.18   | 19.29   | 21.00   |
|                       |            | 3       | 2         | 19.19                | 19.20   | 19.27   | 21.00   |
|                       |            | 3       | 3         | 19.08                | 19.10   | 19.00   | 21.00   |
|                       |            | 6       | 0         | 19.19                | 19.42   | 19.42   | 21.00   |
|                       | 64QAM      | 1       | 0         | 19.49                | 19.55   | 19.77   | 21.00   |
|                       |            | 1       | 2         | 19.29                | 19.40   | 19.43   | 21.00   |
|                       |            | 1       | 5         | 19.76                | 19.30   | 19.25   | 21.00   |
|                       |            | 3       | 0         | 19.57                | 19.41   | 19.45   | 21.00   |
|                       |            | 3       | 2         | 19.37                | 19.39   | 19.29   | 21.00   |
|                       |            | 3       | 3         | 19.42                | 19.23   | 19.23   | 21.00   |
|                       |            | 6       | 0         | 19.44                | 19.34   | 19.25   | 21.00   |
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 18615                | 18900   | 19185   |         |
| 3MHz                  | QPSK       | 1       | 0         | 19.23                | 19.18   | 19.19   | 21.00   |
|                       |            | 1       | 7         | 19.17                | 19.22   | 19.16   | 21.00   |
|                       |            | 1       | 14        | 19.03                | 19.06   | 19.10   | 21.00   |
|                       |            | 8       | 0         | 19.24                | 19.18   | 19.26   | 21.00   |
|                       |            | 8       | 4         | 19.23                | 19.21   | 19.29   | 21.00   |
|                       |            | 8       | 7         | 19.10                | 19.18   | 19.25   | 21.00   |
|                       |            | 15      | 0         | 19.19                | 19.29   | 19.30   | 21.00   |
|                       | 16QAM      | 1       | 0         | 19.27                | 19.17   | 19.44   | 21.00   |
|                       |            | 1       | 7         | 19.17                | 19.75   | 19.77   | 21.00   |
|                       |            | 1       | 14        | 19.63                | 19.85   | 19.10   | 21.00   |
|                       |            | 8       | 0         | 19.35                | 19.33   | 19.42   | 21.00   |
|                       |            | 8       | 4         | 19.46                | 19.26   | 19.29   | 21.00   |
|                       |            | 8       | 7         | 19.31                | 19.71   | 19.33   | 21.00   |
|                       |            | 15      | 0         | 19.29                | 19.35   | 19.13   | 21.00   |
|                       | 64QAM      | 1       | 0         | 19.42                | 19.52   | 19.54   | 21.00   |
|                       |            | 1       | 7         | 19.68                | 19.22   | 19.67   | 21.00   |
|                       |            | 1       | 14        | 19.45                | 19.28   | 19.67   | 21.00   |
|                       |            | 8       | 0         | 19.43                | 19.41   | 19.50   | 21.00   |
|                       |            | 8       | 4         | 19.33                | 19.49   | 19.49   | 21.00   |
|                       |            | 8       | 7         | 19.36                | 19.44   | 19.32   | 21.00   |
|                       |            | 15      | 0         | 19.31                | 19.41   | 19.37   | 21.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 19.10   | 19.10   | 19.12   | 21.00   |
|           |            | 1       | 13        | 19.28   | 19.42   | 19.21   | 21.00   |
|           |            | 1       | 24        | 19.26   | 19.16   | 19.01   | 21.00   |
|           |            | 12      | 0         | 19.21   | 19.37   | 19.21   | 21.00   |
|           |            | 12      | 6         | 19.46   | 19.24   | 19.25   | 21.00   |
|           |            | 12      | 13        | 19.25   | 19.13   | 19.24   | 21.00   |
|           |            | 25      | 0         | 19.25   | 19.27   | 19.25   | 21.00   |
|           | 16QAM      | 1       | 0         | 19.61   | 19.64   | 19.63   | 21.00   |
|           |            | 1       | 13        | 19.90   | 19.56   | 19.53   | 21.00   |
|           |            | 1       | 24        | 19.36   | 19.79   | 19.28   | 21.00   |
|           |            | 12      | 0         | 19.20   | 19.20   | 19.25   | 21.00   |
|           |            | 12      | 6         | 19.25   | 19.37   | 19.22   | 21.00   |
|           |            | 12      | 13        | 19.28   | 19.33   | 19.32   | 21.00   |
|           |            | 25      | 0         | 19.27   | 19.26   | 19.29   | 21.00   |
|           | 64QAM      | 1       | 0         | 19.41   | 19.54   | 19.26   | 21.00   |
|           |            | 1       | 13        | 19.45   | 19.23   | 19.98   | 21.00   |
|           |            | 1       | 24        | 19.08   | 19.32   | 19.22   | 21.00   |
|           |            | 12      | 0         | 19.31   | 19.41   | 19.34   | 21.00   |
|           |            | 12      | 6         | 19.32   | 19.25   | 19.30   | 21.00   |
|           |            | 12      | 13        | 19.35   | 19.27   | 19.26   | 21.00   |
|           |            | 25      | 0         | 19.39   | 19.34   | 19.34   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 19.09   | 19.11   | 19.26   | 21.00   |
|           |            | 1       | 25        | 19.15   | 19.06   | 19.07   | 21.00   |
|           |            | 1       | 49        | 19.09   | 19.08   | 19.22   | 21.00   |
|           |            | 25      | 0         | 19.11   | 19.18   | 19.24   | 21.00   |
|           |            | 25      | 13        | 19.37   | 19.21   | 19.29   | 21.00   |
|           |            | 25      | 25        | 19.24   | 19.21   | 19.25   | 21.00   |
|           |            | 50      | 0         | 19.27   | 19.22   | 19.19   | 21.00   |
|           | 16QAM      | 1       | 0         | 19.49   | 19.14   | 19.87   | 21.00   |
|           |            | 1       | 25        | 19.76   | 19.41   | 19.75   | 21.00   |
|           |            | 1       | 49        | 19.32   | 19.36   | 19.74   | 21.00   |
|           |            | 25      | 0         | 19.09   | 19.09   | 19.12   | 21.00   |
|           |            | 25      | 13        | 19.38   | 19.18   | 19.22   | 21.00   |
|           |            | 25      | 25        | 19.17   | 19.26   | 19.01   | 21.00   |
|           |            | 50      | 0         | 19.30   | 19.13   | 19.14   | 21.00   |
|           | 64QAM      | 1       | 0         | 19.35   | 19.40   | 19.23   | 21.00   |
|           |            | 1       | 25        | 19.48   | 19.60   | 19.58   | 21.00   |
|           |            | 1       | 49        | 19.39   | 19.29   | 19.58   | 21.00   |
|           |            | 25      | 0         | 19.03   | 19.29   | 19.20   | 21.00   |
|           |            | 25      | 13        | 19.27   | 19.20   | 19.31   | 21.00   |
|           |            | 25      | 25        | 19.16   | 19.36   | 19.24   | 21.00   |
|           |            | 50      | 0         | 19.31   | 19.06   | 19.23   | 21.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 19.29   | 19.50   | 19.35   | 21.00   |
|           |            | 1       | 38        | 19.18   | 19.44   | 19.29   | 21.00   |
|           |            | 1       | 74        | 19.21   | 19.33   | 19.33   | 21.00   |
|           |            | 36      | 0         | 19.34   | 19.35   | 19.27   | 21.00   |
|           |            | 36      | 18        | 19.44   | 19.41   | 19.52   | 21.00   |
|           |            | 36      | 39        | 19.40   | 19.48   | 19.50   | 21.00   |
|           |            | 75      | 0         | 19.47   | 19.44   | 19.44   | 21.00   |
|           | 16QAM      | 1       | 0         | 19.57   | 19.50   | 19.46   | 21.00   |
|           |            | 1       | 38        | 19.52   | 19.38   | 19.66   | 21.00   |
|           |            | 1       | 74        | 19.51   | 19.59   | 19.49   | 21.00   |
|           |            | 36      | 0         | 19.48   | 19.38   | 19.34   | 21.00   |
|           |            | 36      | 18        | 19.51   | 19.40   | 19.46   | 21.00   |
|           |            | 36      | 39        | 19.52   | 19.52   | 19.37   | 21.00   |
|           |            | 75      | 0         | 19.40   | 19.10   | 19.54   | 21.00   |
|           | 64QAM      | 1       | 0         | 19.77   | 19.66   | 19.72   | 21.00   |
|           |            | 1       | 38        | 19.58   | 19.52   | 19.95   | 21.00   |
|           |            | 1       | 74        | 19.67   | 19.74   | 19.29   | 21.00   |
|           |            | 36      | 0         | 19.33   | 19.38   | 19.37   | 21.00   |
|           |            | 36      | 18        | 19.37   | 19.28   | 19.46   | 21.00   |
|           |            | 36      | 39        | 19.49   | 19.39   | 19.38   | 21.00   |
|           |            | 75      | 0         | 19.38   | 19.39   | 19.38   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |
| 20MHz     | QPSK       | 1       | 0         | 19.32   | 19.66   | 19.30   | 21.00   |
|           |            | 1       | 50        | 19.31   | 19.31   | 19.34   | 21.00   |
|           |            | 1       | 99        | 19.33   | 19.24   | 19.24   | 21.00   |
|           |            | 50      | 0         | 19.26   | 19.55   | 19.33   | 21.00   |
|           |            | 50      | 25        | 19.45   | 19.32   | 19.41   | 21.00   |
|           |            | 50      | 50        | 19.38   | 19.36   | 19.45   | 21.00   |
|           |            | 100     | 0         | 19.36   | 19.34   | 19.31   | 21.00   |
|           | 16QAM      | 1       | 0         | 19.50   | 19.45   | 19.39   | 21.00   |
|           |            | 1       | 50        | 19.35   | 19.25   | 19.22   | 21.00   |
|           |            | 1       | 99        | 19.36   | 19.25   | 19.33   | 21.00   |
|           |            | 50      | 0         | 19.32   | 19.32   | 19.26   | 21.00   |
|           |            | 50      | 25        | 19.43   | 19.46   | 19.37   | 21.00   |
|           |            | 50      | 50        | 19.39   | 19.47   | 19.36   | 21.00   |
|           |            | 100     | 0         | 19.50   | 19.27   | 19.34   | 21.00   |
|           | 64QAM      | 1       | 0         | 19.83   | 20.11   | 19.32   | 21.00   |
|           |            | 1       | 50        | 19.58   | 19.76   | 19.39   | 21.00   |
|           |            | 1       | 99        | 19.61   | 19.38   | 19.32   | 21.00   |
|           |            | 50      | 0         | 19.32   | 19.36   | 19.34   | 21.00   |
|           |            | 50      | 25        | 19.43   | 19.36   | 19.42   | 21.00   |
|           |            | 50      | 50        | 19.32   | 19.44   | 19.43   | 21.00   |
|           |            | 100     | 0         | 19.44   | 19.37   | 19.37   | 21.00   |



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| LTE Band 4 Hotspot off |            |         |           | Conducted Power(dBm) |               |               |         |
|------------------------|------------|---------|-----------|----------------------|---------------|---------------|---------|
| Bandwidth              | Modulation | RB size | RB offset | Channel 19957        | Channel 20175 | Channel 20393 | Tune up |
| 1.4MHz                 | QPSK       | 1       | 0         | 22.05                | 22.14         | 22.13         | 24.00   |
|                        |            | 1       | 2         | 22.11                | 22.11         | 22.26         | 24.00   |
|                        |            | 1       | 5         | 22.14                | 22.12         | 22.10         | 24.00   |
|                        |            | 3       | 0         | 22.12                | 22.14         | 22.14         | 24.00   |
|                        |            | 3       | 2         | 22.07                | 22.22         | 22.23         | 24.00   |
|                        |            | 3       | 3         | 22.19                | 22.17         | 22.19         | 24.00   |
|                        | 16QAM      | 6       | 0         | 21.22                | 21.23         | 21.27         | 23.00   |
|                        |            | 1       | 0         | 21.45                | 21.52         | 21.90         | 23.00   |
|                        |            | 1       | 2         | 21.22                | 21.70         | 21.69         | 23.00   |
|                        |            | 1       | 5         | 21.16                | 21.51         | 21.50         | 23.00   |
|                        |            | 3       | 0         | 21.11                | 21.29         | 21.25         | 23.00   |
|                        |            | 3       | 2         | 21.26                | 21.15         | 21.15         | 23.00   |
|                        | 64QAM      | 3       | 3         | 21.26                | 21.12         | 21.16         | 23.00   |
|                        |            | 6       | 0         | 20.21                | 20.48         | 20.27         | 22.00   |
|                        |            | 1       | 0         | 20.49                | 20.57         | 20.92         | 22.00   |
|                        |            | 1       | 2         | 20.28                | 20.76         | 20.73         | 22.00   |
|                        |            | 1       | 5         | 20.16                | 20.53         | 20.53         | 22.00   |
|                        |            | 3       | 0         | 20.07                | 20.32         | 20.21         | 22.00   |
| 3MHz                   | QPSK       | 3       | 2         | 20.23                | 20.16         | 20.11         | 22.00   |
|                        |            | 3       | 3         | 20.32                | 20.13         | 20.16         | 22.00   |
|                        |            | 6       | 0         | 19.25                | 19.51         | 19.27         | 21.00   |
|                        | 16QAM      | 1       | 0         | 22.04                | 22.18         | 22.32         | 24.00   |
|                        |            | 1       | 7         | 22.24                | 22.29         | 22.38         | 24.00   |
|                        |            | 1       | 14        | 22.19                | 22.09         | 22.22         | 24.00   |
|                        | 64QAM      | 8       | 0         | 21.27                | 21.33         | 21.30         | 23.00   |
|                        |            | 8       | 4         | 21.29                | 21.35         | 21.35         | 23.00   |
|                        |            | 8       | 7         | 21.21                | 21.24         | 21.30         | 23.00   |
|                        | QPSK       | 15      | 0         | 21.28                | 21.26         | 21.27         | 23.00   |
|                        |            | 1       | 0         | 21.19                | 21.58         | 21.46         | 23.00   |
|                        |            | 1       | 7         | 21.31                | 21.36         | 21.91         | 23.00   |
|                        |            | 1       | 14        | 21.58                | 21.49         | 21.69         | 23.00   |
|                        |            | 8       | 0         | 20.28                | 20.34         | 20.35         | 22.00   |
|                        | 16QAM      | 8       | 4         | 20.48                | 20.42         | 20.29         | 22.00   |
|                        |            | 8       | 7         | 20.35                | 20.26         | 20.34         | 22.00   |
|                        |            | 15      | 0         | 20.40                | 20.43         | 20.21         | 22.00   |
|                        | 64QAM      | 1       | 0         | 20.23                | 20.54         | 20.50         | 22.00   |
|                        |            | 1       | 7         | 20.35                | 20.35         | 20.87         | 22.00   |
|                        |            | 1       | 14        | 20.55                | 20.51         | 20.70         | 22.00   |
|                        |            | 8       | 0         | 19.27                | 19.39         | 19.37         | 21.00   |
|                        |            | 8       | 4         | 19.48                | 19.47         | 19.25         | 21.00   |
|                        |            | 8       | 7         | 19.36                | 19.27         | 19.39         | 21.00   |
|                        |            | 15      | 0         | 19.43                | 19.43         | 19.22         | 21.00   |





| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 22.02   | 22.22   | 22.24   | 24.00   |
|           |            | 1       | 13        | 22.21   | 22.22   | 22.28   | 24.00   |
|           |            | 1       | 24        | 22.14   | 22.28   | 22.06   | 24.00   |
|           |            | 12      | 0         | 21.31   | 21.30   | 21.26   | 23.00   |
|           |            | 12      | 6         | 21.29   | 21.32   | 21.30   | 23.00   |
|           |            | 12      | 13        | 21.25   | 21.31   | 21.29   | 23.00   |
|           |            | 25      | 0         | 21.24   | 21.27   | 21.29   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.07   | 21.23   | 21.59   | 23.00   |
|           |            | 1       | 13        | 21.43   | 21.88   | 21.28   | 23.00   |
|           |            | 1       | 24        | 21.39   | 21.18   | 21.29   | 23.00   |
|           |            | 12      | 0         | 20.16   | 20.35   | 20.19   | 22.00   |
|           |            | 12      | 6         | 20.33   | 20.44   | 20.26   | 22.00   |
|           |            | 12      | 13        | 20.17   | 20.23   | 20.32   | 22.00   |
|           |            | 25      | 0         | 20.31   | 20.20   | 20.20   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.09   | 20.20   | 20.58   | 22.00   |
|           |            | 1       | 13        | 20.45   | 20.87   | 20.31   | 22.00   |
|           |            | 1       | 24        | 20.43   | 20.18   | 20.25   | 22.00   |
|           |            | 12      | 0         | 19.12   | 19.33   | 19.21   | 21.00   |
|           |            | 12      | 6         | 19.36   | 19.40   | 19.31   | 21.00   |
|           |            | 12      | 13        | 19.15   | 19.19   | 19.30   | 21.00   |
|           |            | 25      | 0         | 19.32   | 19.17   | 19.24   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |
| 10MHz     | QPSK       | 1       | 0         | 22.07   | 22.04   | 22.09   | 24.00   |
|           |            | 1       | 25        | 22.37   | 22.25   | 22.09   | 24.00   |
|           |            | 1       | 49        | 22.04   | 22.12   | 22.02   | 24.00   |
|           |            | 25      | 0         | 21.05   | 21.21   | 21.16   | 23.00   |
|           |            | 25      | 13        | 21.33   | 21.31   | 21.17   | 23.00   |
|           |            | 25      | 25        | 21.14   | 21.13   | 21.22   | 23.00   |
|           |            | 50      | 0         | 21.23   | 21.20   | 21.11   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.11   | 21.89   | 21.13   | 23.00   |
|           |            | 1       | 25        | 21.39   | 21.32   | 21.33   | 23.00   |
|           |            | 1       | 49        | 21.50   | 21.08   | 21.37   | 23.00   |
|           |            | 25      | 0         | 20.22   | 20.26   | 20.27   | 22.00   |
|           |            | 25      | 13        | 20.34   | 20.32   | 20.17   | 22.00   |
|           |            | 25      | 25        | 20.29   | 20.22   | 20.21   | 22.00   |
|           |            | 50      | 0         | 20.19   | 20.22   | 20.19   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.95   | 20.94   | 20.19   | 22.00   |
|           |            | 1       | 25        | 20.37   | 20.37   | 20.36   | 22.00   |
|           |            | 1       | 49        | 20.51   | 20.53   | 20.38   | 22.00   |
|           |            | 25      | 0         | 19.23   | 19.32   | 19.27   | 21.00   |
|           |            | 25      | 13        | 19.36   | 19.33   | 19.22   | 21.00   |
|           |            | 25      | 25        | 19.32   | 19.27   | 19.18   | 21.00   |
|           |            | 50      | 0         | 19.21   | 19.20   | 19.21   | 21.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 20025   | 20175   | 20325   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.12   | 22.15   | 22.19   | 24.00   |
|           |            | 1       | 38        | 22.21   | 22.39   | 22.22   | 24.00   |
|           |            | 1       | 74        | 22.27   | 22.31   | 22.31   | 24.00   |
|           |            | 36      | 0         | 21.38   | 21.28   | 21.31   | 23.00   |
|           |            | 36      | 18        | 21.47   | 21.50   | 21.41   | 23.00   |
|           |            | 36      | 39        | 21.50   | 21.50   | 21.39   | 23.00   |
|           |            | 75      | 0         | 21.32   | 21.42   | 21.27   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.25   | 21.06   | 21.28   | 23.00   |
|           |            | 1       | 38        | 21.85   | 21.49   | 21.52   | 23.00   |
|           |            | 1       | 74        | 21.74   | 21.55   | 21.45   | 23.00   |
|           |            | 36      | 0         | 20.28   | 20.35   | 20.34   | 22.00   |
|           |            | 36      | 18        | 20.48   | 20.54   | 20.39   | 22.00   |
|           |            | 36      | 39        | 20.42   | 20.46   | 20.45   | 22.00   |
|           |            | 75      | 0         | 20.44   | 20.44   | 20.38   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.22   | 20.09   | 20.27   | 22.00   |
|           |            | 1       | 38        | 20.81   | 20.54   | 20.51   | 22.00   |
|           |            | 1       | 74        | 20.77   | 20.58   | 20.41   | 22.00   |
|           |            | 36      | 0         | 19.25   | 19.39   | 19.39   | 21.00   |
|           |            | 36      | 18        | 19.45   | 19.53   | 19.39   | 21.00   |
|           |            | 36      | 39        | 19.38   | 19.43   | 19.51   | 21.00   |
|           |            | 75      | 0         | 19.42   | 19.42   | 19.36   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20050   | 20175   | 20300   |         |
| 20MHz     | QPSK       | 1       | 0         | 22.13   | 22.16   | 22.06   | 24.00   |
|           |            | 1       | 50        | 22.26   | 22.37   | 22.33   | 24.00   |
|           |            | 1       | 99        | 22.05   | 22.24   | 22.13   | 24.00   |
|           |            | 50      | 0         | 21.27   | 21.31   | 21.32   | 23.00   |
|           |            | 50      | 25        | 21.41   | 21.49   | 21.50   | 23.00   |
|           |            | 50      | 50        | 21.43   | 21.46   | 21.40   | 23.00   |
|           |            | 100     | 0         | 21.32   | 21.39   | 21.47   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.71   | 21.13   | 21.62   | 23.00   |
|           |            | 1       | 50        | 21.50   | 21.79   | 21.72   | 23.00   |
|           |            | 1       | 99        | 21.14   | 21.44   | 21.37   | 23.00   |
|           |            | 50      | 0         | 20.30   | 20.36   | 20.34   | 22.00   |
|           |            | 50      | 25        | 20.60   | 20.53   | 20.52   | 22.00   |
|           |            | 50      | 50        | 20.45   | 20.46   | 20.42   | 22.00   |
|           |            | 100     | 0         | 20.33   | 20.44   | 20.41   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.75   | 20.17   | 20.62   | 22.00   |
|           |            | 1       | 50        | 20.50   | 20.75   | 20.73   | 22.00   |
|           |            | 1       | 99        | 20.14   | 20.40   | 20.40   | 22.00   |
|           |            | 50      | 0         | 19.33   | 19.38   | 19.39   | 21.00   |
|           |            | 50      | 25        | 19.58   | 19.54   | 19.53   | 21.00   |
|           |            | 50      | 50        | 19.48   | 19.47   | 19.38   | 21.00   |
|           |            | 100     | 0         | 19.39   | 19.49   | 19.43   | 21.00   |



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| LTE Band 4 Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz                | QPSK       | 1       | 0         | 21.04                | 21.04   | 21.04   | 23.00   |
|                       |            | 1       | 2         | 21.10                | 21.02   | 21.11   | 23.00   |
|                       |            | 1       | 5         | 21.00                | 21.09   | 21.06   | 23.00   |
|                       |            | 3       | 0         | 21.03                | 21.05   | 21.04   | 23.00   |
|                       |            | 3       | 2         | 21.04                | 21.09   | 21.12   | 23.00   |
|                       |            | 3       | 3         | 21.07                | 21.01   | 21.05   | 23.00   |
|                       |            | 6       | 0         | 21.07                | 21.08   | 21.19   | 23.00   |
|                       | 16QAM      | 1       | 0         | 21.37                | 21.02   | 21.45   | 23.00   |
|                       |            | 1       | 2         | 21.40                | 21.63   | 21.67   | 23.00   |
|                       |            | 1       | 5         | 21.12                | 21.61   | 21.12   | 23.00   |
|                       |            | 3       | 0         | 21.21                | 21.19   | 21.15   | 23.00   |
|                       |            | 3       | 2         | 21.16                | 21.24   | 21.18   | 23.00   |
|                       |            | 3       | 3         | 21.16                | 21.06   | 21.15   | 23.00   |
|                       |            | 6       | 0         | 20.31                | 20.14   | 20.30   | 22.00   |
|                       | 64QAM      | 1       | 0         | 20.42                | 20.54   | 20.88   | 22.00   |
|                       |            | 1       | 2         | 20.21                | 20.71   | 20.67   | 22.00   |
|                       |            | 1       | 5         | 20.13                | 20.45   | 20.45   | 22.00   |
|                       |            | 3       | 0         | 20.03                | 20.28   | 20.14   | 22.00   |
|                       |            | 3       | 2         | 20.20                | 20.08   | 20.04   | 22.00   |
|                       |            | 3       | 3         | 20.24                | 20.05   | 20.12   | 22.00   |
|                       |            | 6       | 0         | 19.21                | 19.47   | 19.23   | 21.00   |
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 19965                | 20175   | 20385   |         |
| 3MHz                  | QPSK       | 1       | 0         | 21.09                | 21.12   | 21.02   | 23.00   |
|                       |            | 1       | 7         | 21.15                | 21.10   | 21.15   | 23.00   |
|                       |            | 1       | 14        | 21.09                | 21.09   | 21.09   | 23.00   |
|                       |            | 8       | 0         | 21.22                | 21.17   | 21.21   | 23.00   |
|                       |            | 8       | 4         | 21.19                | 21.17   | 21.26   | 23.00   |
|                       |            | 8       | 7         | 21.14                | 21.20   | 21.23   | 23.00   |
|                       |            | 15      | 0         | 21.19                | 21.23   | 21.12   | 23.00   |
|                       | 16QAM      | 1       | 0         | 21.29                | 21.72   | 21.33   | 23.00   |
|                       |            | 1       | 7         | 21.03                | 21.39   | 21.67   | 23.00   |
|                       |            | 1       | 14        | 21.47                | 21.64   | 21.29   | 23.00   |
|                       |            | 8       | 0         | 20.17                | 20.34   | 20.26   | 22.00   |
|                       |            | 8       | 4         | 20.26                | 20.21   | 20.28   | 22.00   |
|                       |            | 8       | 7         | 20.20                | 20.24   | 20.20   | 22.00   |
|                       |            | 15      | 0         | 20.21                | 20.12   | 20.26   | 22.00   |
|                       | 64QAM      | 1       | 0         | 20.15                | 20.47   | 20.47   | 22.00   |
|                       |            | 1       | 7         | 20.30                | 20.31   | 20.82   | 22.00   |
|                       |            | 1       | 14        | 20.52                | 20.45   | 20.66   | 22.00   |
|                       |            | 8       | 0         | 19.23                | 19.36   | 19.34   | 21.00   |
|                       |            | 8       | 4         | 19.41                | 19.43   | 19.19   | 21.00   |
|                       |            | 8       | 7         | 19.32                | 19.21   | 19.31   | 21.00   |
|                       |            | 15      | 0         | 19.35                | 19.37   | 19.14   | 21.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 21.03   | 21.13   | 21.23   | 23.00   |
|           |            | 1       | 13        | 21.19   | 21.27   | 21.18   | 23.00   |
|           |            | 1       | 24        | 21.07   | 21.23   | 21.09   | 23.00   |
|           |            | 12      | 0         | 21.27   | 21.31   | 21.28   | 23.00   |
|           |            | 12      | 6         | 21.25   | 21.27   | 21.29   | 23.00   |
|           |            | 12      | 13        | 21.22   | 21.26   | 21.26   | 23.00   |
|           |            | 25      | 0         | 21.27   | 21.18   | 21.16   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.21   | 21.68   | 21.09   | 23.00   |
|           |            | 1       | 13        | 21.44   | 21.61   | 21.48   | 23.00   |
|           |            | 1       | 24        | 21.33   | 21.03   | 21.28   | 23.00   |
|           |            | 12      | 0         | 20.35   | 20.35   | 20.29   | 22.00   |
|           |            | 12      | 6         | 20.26   | 20.27   | 20.23   | 22.00   |
|           |            | 12      | 13        | 20.26   | 20.26   | 20.16   | 22.00   |
|           |            | 25      | 0         | 20.24   | 20.30   | 20.22   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.05   | 20.13   | 20.54   | 22.00   |
|           |            | 1       | 13        | 20.41   | 20.79   | 20.27   | 22.00   |
|           |            | 1       | 24        | 20.37   | 20.14   | 20.22   | 22.00   |
|           |            | 12      | 0         | 19.05   | 19.29   | 19.14   | 21.00   |
|           |            | 12      | 6         | 19.28   | 19.36   | 19.24   | 21.00   |
|           |            | 12      | 13        | 19.07   | 19.13   | 19.27   | 21.00   |
|           |            | 25      | 0         | 19.29   | 19.13   | 19.18   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |
| 10MHz     | QPSK       | 1       | 0         | 21.08   | 21.03   | 21.01   | 23.00   |
|           |            | 1       | 25        | 21.02   | 21.21   | 21.20   | 23.00   |
|           |            | 1       | 49        | 21.08   | 21.06   | 21.02   | 23.00   |
|           |            | 25      | 0         | 21.11   | 21.21   | 21.21   | 23.00   |
|           |            | 25      | 13        | 21.26   | 21.21   | 21.22   | 23.00   |
|           |            | 25      | 25        | 21.15   | 21.23   | 21.10   | 23.00   |
|           |            | 50      | 0         | 21.16   | 21.13   | 21.11   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.40   | 21.19   | 21.54   | 23.00   |
|           |            | 1       | 25        | 21.40   | 21.33   | 21.69   | 23.00   |
|           |            | 1       | 49        | 21.13   | 21.37   | 21.14   | 23.00   |
|           |            | 25      | 0         | 20.08   | 20.05   | 20.22   | 22.00   |
|           |            | 25      | 13        | 20.26   | 20.40   | 20.31   | 22.00   |
|           |            | 25      | 25        | 20.15   | 20.00   | 20.22   | 22.00   |
|           |            | 50      | 0         | 20.11   | 20.19   | 20.26   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.90   | 20.91   | 20.13   | 22.00   |
|           |            | 1       | 25        | 20.29   | 20.33   | 20.33   | 22.00   |
|           |            | 1       | 49        | 20.44   | 20.49   | 20.30   | 22.00   |
|           |            | 25      | 0         | 19.15   | 19.27   | 19.20   | 21.00   |
|           |            | 25      | 13        | 19.33   | 19.27   | 19.17   | 21.00   |
|           |            | 25      | 25        | 19.24   | 19.21   | 19.11   | 21.00   |
|           |            | 50      | 0         | 19.15   | 19.14   | 19.13   | 21.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel      | Tune up |
|-----------|------------|---------|-----------|---------|---------|--------------|---------|
|           |            |         |           | 20025   | 20175   | 20325        |         |
| 15MHz     | QPSK       | 1       | 0         | 21.12   | 21.10   | 21.28        | 23.00   |
|           |            | 1       | 38        | 21.31   | 21.29   | 21.34        | 23.00   |
|           |            | 1       | 74        | 21.19   | 21.10   | 21.25        | 23.00   |
|           |            | 36      | 0         | 21.33   | 21.37   | 21.30        | 23.00   |
|           |            | 36      | 18        | 21.45   | 21.46   | 21.37        | 23.00   |
|           |            | 36      | 39        | 21.38   | 21.40   | 21.49        | 23.00   |
|           |            | 75      | 0         | 21.38   | 21.44   | 21.37        | 23.00   |
|           | 16QAM      | 1       | 0         | 21.39   | 21.58   | 21.44        | 23.00   |
|           |            | 1       | 38        | 21.76   | 21.84   | 21.54        | 23.00   |
|           |            | 1       | 74        | 21.59   | 21.78   | 21.55        | 23.00   |
|           |            | 36      | 0         | 20.32   | 20.27   | 20.34        | 22.00   |
|           |            | 36      | 18        | 20.42   | 20.52   | 20.44        | 22.00   |
|           |            | 36      | 39        | 20.45   | 20.58   | 20.48        | 22.00   |
|           |            | 75      | 0         | 20.42   | 20.40   | 20.38        | 22.00   |
|           | 64QAM      | 1       | 0         | 20.14   | 20.04   | 20.20        | 22.00   |
|           |            | 1       | 38        | 20.78   | 20.51   | 20.44        | 22.00   |
|           |            | 1       | 74        | 20.72   | 20.51   | 20.33        | 22.00   |
|           |            | 36      | 0         | 19.18   | 19.33   | 19.32        | 21.00   |
|           |            | 36      | 18        | 19.42   | 19.47   | 19.36        | 21.00   |
|           |            | 36      | 39        | 19.34   | 19.38   | 19.47        | 21.00   |
|           |            | 75      | 0         | 19.37   | 19.37   | 19.33        | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel      | Tune up |
|           |            |         |           | 20050   | 20175   | 20300        |         |
| 20MHz     | QPSK       | 1       | 0         | 21.12   | 21.23   | <b>21.48</b> | 23.00   |
|           |            | 1       | 50        | 21.18   | 21.38   | 21.31        | 23.00   |
|           |            | 1       | 99        | 21.03   | 21.17   | 21.01        | 23.00   |
|           |            | 50      | 0         | 21.21   | 21.25   | 21.31        | 23.00   |
|           |            | 50      | 25        | 21.43   | 21.42   | 21.47        | 23.00   |
|           |            | 50      | 50        | 21.34   | 21.27   | 21.27        | 23.00   |
|           |            | 100     | 0         | 21.30   | 21.35   | 21.30        | 23.00   |
|           | 16QAM      | 1       | 0         | 21.24   | 21.22   | 21.37        | 23.00   |
|           |            | 1       | 50        | 21.29   | 21.35   | 21.28        | 23.00   |
|           |            | 1       | 99        | 21.36   | 21.22   | 21.25        | 23.00   |
|           |            | 50      | 0         | 20.29   | 20.23   | 20.25        | 22.00   |
|           |            | 50      | 25        | 20.47   | 20.51   | 20.47        | 22.00   |
|           |            | 50      | 50        | 20.29   | 20.34   | 20.47        | 22.00   |
|           |            | 100     | 0         | 20.27   | 20.33   | 20.40        | 22.00   |
|           | 64QAM      | 1       | 0         | 20.70   | 20.12   | 20.59        | 22.00   |
|           |            | 1       | 50        | 20.46   | 20.71   | 20.68        | 22.00   |
|           |            | 1       | 99        | 20.06   | 20.34   | 20.35        | 22.00   |
|           |            | 50      | 0         | 19.27   | 19.33   | 19.32        | 21.00   |
|           |            | 50      | 25        | 19.54   | 19.51   | 19.49        | 21.00   |
|           |            | 50      | 50        | 19.41   | 19.39   | 19.34        | 21.00   |
|           |            | 100     | 0         | 19.32   | 19.46   | 19.39        | 21.00   |



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| LTE Band 7 Hotspot off |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz                   | QPSK       | 1       | 0         | 22.82                | 22.97   | 22.96   | 24.00   |
|                        |            | 1       | 13        | 23.07                | 23.02   | 23.05   | 24.00   |
|                        |            | 1       | 24        | 22.77                | 22.87   | 22.87   | 24.00   |
|                        |            | 12      | 0         | 21.99                | 21.98   | 22.06   | 23.00   |
|                        |            | 12      | 6         | 22.04                | 22.01   | 22.06   | 23.00   |
|                        |            | 12      | 13        | 21.83                | 21.96   | 21.94   | 23.00   |
|                        |            | 25      | 0         | 21.98                | 21.92   | 21.92   | 23.00   |
|                        | 16QAM      | 1       | 0         | 22.56                | 21.99   | 22.54   | 23.00   |
|                        |            | 1       | 13        | 22.35                | 22.20   | 22.14   | 23.00   |
|                        |            | 1       | 24        | 22.30                | 21.99   | 21.99   | 23.00   |
|                        |            | 12      | 0         | 20.98                | 20.94   | 20.98   | 22.00   |
|                        |            | 12      | 6         | 21.01                | 21.02   | 20.95   | 22.00   |
|                        |            | 12      | 13        | 20.87                | 20.98   | 21.03   | 22.00   |
|                        |            | 25      | 0         | 20.98                | 20.87   | 21.02   | 22.00   |
|                        | 64QAM      | 1       | 0         | 21.58                | 21.00   | 21.59   | 22.00   |
|                        |            | 1       | 13        | 21.39                | 21.25   | 21.19   | 22.00   |
|                        |            | 1       | 24        | 21.33                | 20.95   | 21.03   | 22.00   |
|                        |            | 12      | 0         | 20.00                | 19.93   | 20.01   | 21.00   |
|                        |            | 12      | 6         | 20.07                | 20.03   | 19.97   | 21.00   |
|                        |            | 12      | 13        | 19.90                | 19.99   | 20.03   | 21.00   |
|                        |            | 25      | 0         | 19.96                | 19.86   | 20.04   | 21.00   |
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz                  | QPSK       | 1       | 0         | 22.83                | 22.92   | 22.77   | 24.00   |
|                        |            | 1       | 25        | 22.82                | 22.81   | 22.85   | 24.00   |
|                        |            | 1       | 49        | 22.87                | 22.82   | 23.08   | 24.00   |
|                        |            | 25      | 0         | 21.88                | 22.05   | 21.95   | 23.00   |
|                        |            | 25      | 13        | 21.94                | 21.98   | 21.97   | 23.00   |
|                        |            | 25      | 25        | 22.00                | 21.98   | 21.99   | 23.00   |
|                        |            | 50      | 0         | 21.85                | 21.81   | 21.84   | 23.00   |
|                        | 16QAM      | 1       | 0         | 22.53                | 21.97   | 22.43   | 23.00   |
|                        |            | 1       | 25        | 22.31                | 22.04   | 22.23   | 23.00   |
|                        |            | 1       | 49        | 22.19                | 22.45   | 22.19   | 23.00   |
|                        |            | 25      | 0         | 21.16                | 20.96   | 20.87   | 22.00   |
|                        |            | 25      | 13        | 20.90                | 20.86   | 21.03   | 22.00   |
|                        |            | 25      | 25        | 20.83                | 20.92   | 21.01   | 22.00   |
|                        |            | 50      | 0         | 20.74                | 20.93   | 20.88   | 22.00   |
|                        | 64QAM      | 1       | 0         | 21.53                | 21.02   | 21.43   | 22.00   |
|                        |            | 1       | 25        | 21.34                | 21.09   | 21.20   | 22.00   |
|                        |            | 1       | 49        | 21.25                | 21.46   | 21.25   | 22.00   |
|                        |            | 25      | 0         | 20.15                | 19.97   | 19.89   | 21.00   |
|                        |            | 25      | 13        | 19.91                | 19.86   | 20.02   | 21.00   |
|                        |            | 25      | 25        | 19.88                | 19.88   | 19.99   | 21.00   |
|                        |            | 50      | 0         | 19.70                | 19.99   | 19.87   | 21.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel      | Tune up |
|-----------|------------|---------|-----------|---------|---------|--------------|---------|
|           |            |         |           | 20825   | 21100   | 21375        |         |
| 15MHz     | QPSK       | 1       | 0         | 22.99   | 23.09   | 23.12        | 24.00   |
|           |            | 1       | 38        | 22.96   | 22.94   | 22.96        | 24.00   |
|           |            | 1       | 74        | 23.15   | 23.08   | 23.07        | 24.00   |
|           |            | 36      | 0         | 22.11   | 22.08   | 22.10        | 23.00   |
|           |            | 36      | 18        | 22.18   | 22.15   | 22.17        | 23.00   |
|           |            | 36      | 39        | 22.12   | 22.13   | 22.18        | 23.00   |
|           |            | 75      | 0         | 22.11   | 22.07   | 22.13        | 23.00   |
|           | 16QAM      | 1       | 0         | 22.49   | 22.21   | 22.59        | 23.00   |
|           |            | 1       | 38        | 22.71   | 22.32   | 22.18        | 23.00   |
|           |            | 1       | 74        | 22.22   | 22.56   | 22.08        | 23.00   |
|           |            | 36      | 0         | 21.05   | 21.19   | 21.29        | 22.00   |
|           |            | 36      | 18        | 21.18   | 21.11   | 21.21        | 22.00   |
|           |            | 36      | 39        | 21.19   | 21.02   | 21.17        | 22.00   |
|           |            | 75      | 0         | 21.17   | 20.96   | 21.07        | 22.00   |
|           | 64QAM      | 1       | 0         | 21.49   | 21.20   | 21.56        | 22.00   |
|           |            | 1       | 38        | 21.71   | 21.32   | 21.14        | 22.00   |
|           |            | 1       | 74        | 21.26   | 21.53   | 21.06        | 22.00   |
|           |            | 36      | 0         | 20.07   | 20.20   | 20.30        | 21.00   |
|           |            | 36      | 18        | 20.24   | 20.17   | 20.19        | 21.00   |
|           |            | 36      | 39        | 20.20   | 20.06   | 20.17        | 21.00   |
|           |            | 75      | 0         | 20.23   | 20.02   | 20.11        | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel      | Tune up |
|           |            |         |           | 20850   | 21100   | 21350        |         |
| 20MHz     | QPSK       | 1       | 0         | 23.05   | 22.98   | <b>23.16</b> | 24.00   |
|           |            | 1       | 50        | 22.95   | 23.05   | 23.02        | 24.00   |
|           |            | 1       | 99        | 23.12   | 22.99   | 22.89        | 24.00   |
|           |            | 50      | 0         | 22.13   | 22.12   | 22.20        | 23.00   |
|           |            | 50      | 25        | 22.25   | 22.09   | 22.24        | 23.00   |
|           |            | 50      | 50        | 22.13   | 22.09   | 22.23        | 23.00   |
|           |            | 100     | 0         | 22.14   | 22.00   | 22.21        | 23.00   |
|           | 16QAM      | 1       | 0         | 22.38   | 22.35   | 22.53        | 23.00   |
|           |            | 1       | 50        | 22.83   | 22.07   | 22.28        | 23.00   |
|           |            | 1       | 99        | 22.55   | 22.48   | 22.16        | 23.00   |
|           |            | 50      | 0         | 21.21   | 21.17   | 21.23        | 22.00   |
|           |            | 50      | 25        | 21.18   | 21.20   | 21.24        | 22.00   |
|           |            | 50      | 50        | 21.18   | 21.12   | 21.25        | 22.00   |
|           |            | 100     | 0         | 21.05   | 21.13   | 21.14        | 22.00   |
|           | 64QAM      | 1       | 0         | 21.38   | 21.35   | 21.58        | 22.00   |
|           |            | 1       | 50        | 21.80   | 21.13   | 21.29        | 22.00   |
|           |            | 1       | 99        | 21.57   | 21.47   | 21.15        | 22.00   |
|           |            | 50      | 0         | 20.18   | 20.23   | 20.29        | 21.00   |
|           |            | 50      | 25        | 20.24   | 20.18   | 20.23        | 21.00   |
|           |            | 50      | 50        | 20.16   | 20.17   | 20.26        | 21.00   |
|           |            | 100     | 0         | 20.05   | 20.13   | 20.11        | 21.00   |



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| LTE Band 7 Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz                  | QPSK       | 1       | 0         | 18.26                | 18.14   | 18.32   | 20.00   |
|                       |            | 1       | 13        | 18.26                | 18.36   | 18.47   | 20.00   |
|                       |            | 1       | 24        | 18.24                | 18.26   | 18.31   | 20.00   |
|                       |            | 12      | 0         | 18.26                | 18.29   | 18.32   | 20.00   |
|                       |            | 12      | 6         | 18.32                | 18.34   | 18.33   | 20.00   |
|                       |            | 12      | 13        | 18.28                | 18.30   | 18.34   | 20.00   |
|                       |            | 25      | 0         | 18.21                | 18.29   | 18.34   | 20.00   |
|                       | 16QAM      | 1       | 0         | 18.11                | 18.42   | 18.45   | 20.00   |
|                       |            | 1       | 13        | 18.40                | 18.46   | 18.50   | 20.00   |
|                       |            | 1       | 24        | 18.45                | 18.38   | 18.47   | 20.00   |
|                       |            | 12      | 0         | 18.30                | 18.25   | 18.32   | 20.00   |
|                       |            | 12      | 6         | 18.32                | 18.42   | 18.35   | 20.00   |
|                       |            | 12      | 13        | 18.25                | 18.33   | 18.40   | 20.00   |
|                       |            | 25      | 0         | 18.28                | 18.18   | 18.37   | 20.00   |
|                       | 64QAM      | 1       | 0         | 18.03                | 18.35   | 18.45   | 20.00   |
|                       |            | 1       | 13        | 18.32                | 18.49   | 18.47   | 20.00   |
|                       |            | 1       | 24        | 18.37                | 18.28   | 18.41   | 20.00   |
|                       |            | 12      | 0         | 18.20                | 18.15   | 18.25   | 20.00   |
|                       |            | 12      | 6         | 18.23                | 18.37   | 18.25   | 20.00   |
|                       |            | 12      | 13        | 18.18                | 18.25   | 18.34   | 20.00   |
|                       |            | 25      | 0         | 18.18                | 18.13   | 18.31   | 20.00   |
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz                 | QPSK       | 1       | 0         | 18.20                | 18.16   | 18.20   | 20.00   |
|                       |            | 1       | 25        | 18.11                | 18.26   | 18.15   | 20.00   |
|                       |            | 1       | 49        | 18.49                | 18.23   | 18.22   | 20.00   |
|                       |            | 25      | 0         | 18.22                | 18.37   | 18.33   | 20.00   |
|                       |            | 25      | 13        | 18.31                | 18.29   | 18.46   | 20.00   |
|                       |            | 25      | 25        | 18.29                | 18.35   | 18.40   | 20.00   |
|                       |            | 50      | 0         | 18.20                | 18.22   | 18.28   | 20.00   |
|                       | 16QAM      | 1       | 0         | 18.38                | 18.37   | 18.41   | 20.00   |
|                       |            | 1       | 25        | 18.55                | 18.54   | 18.42   | 20.00   |
|                       |            | 1       | 49        | 18.45                | 18.49   | 18.38   | 20.00   |
|                       |            | 25      | 0         | 18.07                | 18.25   | 18.32   | 20.00   |
|                       |            | 25      | 13        | 18.21                | 18.38   | 18.42   | 20.00   |
|                       |            | 25      | 25        | 18.17                | 18.29   | 18.41   | 20.00   |
|                       |            | 50      | 0         | 18.26                | 18.28   | 18.20   | 20.00   |
|                       | 64QAM      | 1       | 0         | 18.28                | 18.29   | 18.36   | 20.00   |
|                       |            | 1       | 25        | 18.57                | 18.46   | 18.56   | 20.00   |
|                       |            | 1       | 49        | 18.56                | 18.44   | 18.33   | 20.00   |
|                       |            | 25      | 0         | 18.07                | 18.16   | 18.24   | 20.00   |
|                       |            | 25      | 13        | 18.11                | 18.33   | 18.32   | 20.00   |
|                       |            | 25      | 25        | 18.08                | 18.23   | 18.31   | 20.00   |
|                       |            | 50      | 0         | 18.17                | 18.18   | 18.13   | 20.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel      | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|--------------|---------|---------|---------|
|           |            |         |           | 20825        | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 18.48        | 18.38   | 18.35   | 20.00   |
|           |            | 1       | 38        | 18.45        | 18.47   | 18.49   | 20.00   |
|           |            | 1       | 74        | 18.49        | 18.53   | 18.55   | 20.00   |
|           |            | 36      | 0         | 18.53        | 18.45   | 18.46   | 20.00   |
|           |            | 36      | 18        | 18.58        | 18.48   | 18.55   | 20.00   |
|           |            | 36      | 39        | 18.55        | 18.54   | 18.36   | 20.00   |
|           |            | 75      | 0         | 18.49        | 18.54   | 18.43   | 20.00   |
|           | 16QAM      | 1       | 0         | 18.55        | 18.47   | 18.54   | 20.00   |
|           |            | 1       | 38        | 18.54        | 18.48   | 18.57   | 20.00   |
|           |            | 1       | 74        | 18.54        | 18.51   | 18.46   | 20.00   |
|           |            | 36      | 0         | 18.50        | 18.48   | 18.53   | 20.00   |
|           |            | 36      | 18        | 18.49        | 18.54   | 18.50   | 20.00   |
|           |            | 36      | 39        | 18.54        | 18.44   | 18.58   | 20.00   |
|           |            | 75      | 0         | 18.50        | 18.45   | 18.53   | 20.00   |
|           | 64QAM      | 1       | 0         | 18.49        | 18.53   | 18.48   | 20.00   |
|           |            | 1       | 38        | 18.49        | 18.58   | 18.44   | 20.00   |
|           |            | 1       | 74        | 18.46        | 18.55   | 18.58   | 20.00   |
|           |            | 36      | 0         | 18.44        | 18.38   | 18.46   | 20.00   |
|           |            | 36      | 18        | 18.43        | 18.46   | 18.42   | 20.00   |
|           |            | 36      | 39        | 18.49        | 18.36   | 18.53   | 20.00   |
|           |            | 75      | 0         | 18.51        | 18.39   | 18.49   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel      | Channel | Channel | Tune up |
|           |            |         |           | 20850        | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 18.29        | 18.45   | 18.35   | 20.00   |
|           |            | 1       | 50        | 18.44        | 18.36   | 18.23   | 20.00   |
|           |            | 1       | 99        | <b>18.59</b> | 18.42   | 18.36   | 20.00   |
|           |            | 50      | 0         | 18.35        | 18.40   | 18.37   | 20.00   |
|           |            | 50      | 25        | 18.49        | 18.44   | 18.56   | 20.00   |
|           |            | 50      | 50        | 18.57        | 18.49   | 18.55   | 20.00   |
|           |            | 100     | 0         | 18.42        | 18.41   | 18.51   | 20.00   |
|           | 16QAM      | 1       | 0         | 18.32        | 18.24   | 18.24   | 20.00   |
|           |            | 1       | 50        | 18.56        | 18.38   | 18.39   | 20.00   |
|           |            | 1       | 99        | 18.32        | 18.23   | 18.47   | 20.00   |
|           |            | 50      | 0         | 18.44        | 18.44   | 18.46   | 20.00   |
|           |            | 50      | 25        | 18.56        | 18.25   | 18.21   | 20.00   |
|           |            | 50      | 50        | 18.58        | 18.21   | 18.26   | 20.00   |
|           |            | 100     | 0         | 18.37        | 18.30   | 18.48   | 20.00   |
|           | 64QAM      | 1       | 0         | 18.23        | 18.14   | 18.15   | 20.00   |
|           |            | 1       | 50        | 18.47        | 18.31   | 18.31   | 20.00   |
|           |            | 1       | 99        | 18.26        | 18.18   | 18.37   | 20.00   |
|           |            | 50      | 0         | 18.34        | 18.39   | 18.41   | 20.00   |
|           |            | 50      | 25        | 18.49        | 18.19   | 18.12   | 20.00   |
|           |            | 50      | 50        | 18.51        | 18.14   | 18.20   | 20.00   |
|           |            | 100     | 0         | 18.28        | 18.25   | 18.39   | 20.00   |



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| LTE Band 38 Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz                   | QPSK       | 1       | 0         | 20.16                | 20.31   | 20.25   | 22.00   |
|                        |            | 1       | 13        | 20.42                | 20.35   | 20.42   | 22.00   |
|                        |            | 1       | 24        | 20.28                | 20.26   | 20.32   | 22.00   |
|                        |            | 12      | 0         | 20.41                | 20.40   | 20.37   | 22.00   |
|                        |            | 12      | 6         | 20.43                | 20.43   | 20.41   | 22.00   |
|                        |            | 12      | 13        | 20.33                | 20.35   | 20.46   | 22.00   |
|                        |            | 25      | 0         | 20.37                | 20.39   | 20.44   | 22.00   |
|                        | 16QAM      | 1       | 0         | 20.27                | 20.33   | 20.34   | 22.00   |
|                        |            | 1       | 13        | 20.51                | 20.44   | 20.45   | 22.00   |
|                        |            | 1       | 24        | 20.39                | 20.42   | 20.39   | 22.00   |
|                        |            | 12      | 0         | 20.37                | 20.40   | 20.31   | 22.00   |
|                        |            | 12      | 6         | 20.43                | 20.44   | 20.35   | 22.00   |
|                        |            | 12      | 13        | 20.38                | 20.36   | 20.31   | 22.00   |
|                        |            | 25      | 0         | 20.38                | 20.42   | 20.45   | 22.00   |
|                        | 64QAM      | 1       | 0         | 20.48                | 20.61   | 20.38   | 22.00   |
|                        |            | 1       | 13        | 20.54                | 20.50   | 20.61   | 22.00   |
|                        |            | 1       | 24        | 20.42                | 20.53   | 20.46   | 22.00   |
|                        |            | 12      | 0         | 19.93                | 20.01   | 19.95   | 21.00   |
|                        |            | 12      | 6         | 19.85                | 19.95   | 20.00   | 21.00   |
|                        |            | 12      | 13        | 19.93                | 19.97   | 19.87   | 21.00   |
|                        |            | 25      | 0         | 20.05                | 19.91   | 20.05   | 21.00   |
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 37800                | 38000   | 38200   |         |
| 10MHz                  | QPSK       | 1       | 0         | 20.12                | 20.26   | 20.20   | 22.00   |
|                        |            | 1       | 25        | 20.39                | 20.28   | 20.35   | 22.00   |
|                        |            | 1       | 49        | 20.21                | 20.22   | 20.25   | 22.00   |
|                        |            | 25      | 0         | 20.33                | 20.32   | 20.31   | 22.00   |
|                        |            | 25      | 13        | 20.36                | 20.38   | 20.37   | 22.00   |
|                        |            | 25      | 25        | 20.25                | 20.29   | 20.43   | 22.00   |
|                        |            | 50      | 0         | 20.33                | 20.35   | 20.37   | 22.00   |
|                        | 16QAM      | 1       | 0         | 20.19                | 20.29   | 20.31   | 22.00   |
|                        |            | 1       | 25        | 20.44                | 20.36   | 20.38   | 22.00   |
|                        |            | 1       | 49        | 20.31                | 20.36   | 20.35   | 22.00   |
|                        |            | 25      | 0         | 20.33                | 20.36   | 20.26   | 22.00   |
|                        |            | 25      | 13        | 20.40                | 20.39   | 20.28   | 22.00   |
|                        |            | 25      | 25        | 20.31                | 20.33   | 20.24   | 22.00   |
|                        |            | 50      | 0         | 20.34                | 20.35   | 20.38   | 22.00   |
|                        | 64QAM      | 1       | 0         | 20.20                | 20.54   | 20.65   | 22.00   |
|                        |            | 1       | 25        | 20.50                | 20.56   | 20.49   | 22.00   |
|                        |            | 1       | 49        | 20.11                | 20.39   | 20.41   | 22.00   |
|                        |            | 25      | 0         | 19.80                | 19.85   | 19.85   | 21.00   |
|                        |            | 25      | 13        | 19.93                | 19.90   | 19.96   | 21.00   |
|                        |            | 25      | 25        | 19.93                | 19.81   | 19.90   | 21.00   |
|                        |            | 50      | 0         | 19.90                | 19.92   | 20.02   | 21.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 37825   | 38000   | 38175   |         |
| 15MHz     | QPSK       | 1       | 0         | 20.51   | 20.55   | 20.56   | 22.00   |
|           |            | 1       | 38        | 20.52   | 20.54   | 20.52   | 22.00   |
|           |            | 1       | 74        | 20.46   | 20.60   | 20.59   | 22.00   |
|           |            | 36      | 0         | 20.51   | 20.53   | 20.50   | 22.00   |
|           |            | 36      | 18        | 20.62   | 20.63   | 20.53   | 22.00   |
|           |            | 36      | 39        | 20.52   | 20.54   | 20.61   | 22.00   |
|           |            | 75      | 0         | 20.57   | 20.54   | 20.53   | 22.00   |
|           | 16QAM      | 1       | 0         | 20.65   | 20.63   | 20.63   | 22.00   |
|           |            | 1       | 38        | 20.63   | 20.65   | 20.61   | 22.00   |
|           |            | 1       | 74        | 20.62   | 20.64   | 20.63   | 22.00   |
|           |            | 36      | 0         | 20.53   | 20.53   | 20.47   | 22.00   |
|           |            | 36      | 18        | 20.62   | 20.64   | 20.47   | 22.00   |
|           |            | 36      | 39        | 20.61   | 20.56   | 20.56   | 22.00   |
|           |            | 75      | 0         | 20.63   | 20.62   | 20.57   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.64   | 20.65   | 20.63   | 22.00   |
|           |            | 1       | 38        | 20.64   | 20.61   | 20.65   | 22.00   |
|           |            | 1       | 74        | 20.58   | 20.59   | 20.65   | 22.00   |
|           |            | 36      | 0         | 19.99   | 20.08   | 20.01   | 21.00   |
|           |            | 36      | 18        | 20.18   | 20.13   | 20.12   | 21.00   |
|           |            | 36      | 39        | 20.04   | 20.14   | 20.08   | 21.00   |
|           |            | 75      | 0         | 20.14   | 20.20   | 20.02   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37850   | 38000   | 38150   |         |
| 20MHz     | QPSK       | 1       | 0         | 20.66   | 20.46   | 20.49   | 22.00   |
|           |            | 1       | 50        | 20.43   | 20.48   | 20.55   | 22.00   |
|           |            | 1       | 99        | 20.53   | 20.55   | 20.49   | 22.00   |
|           |            | 50      | 0         | 20.46   | 20.43   | 20.41   | 22.00   |
|           |            | 50      | 25        | 20.55   | 20.62   | 20.58   | 22.00   |
|           |            | 50      | 50        | 20.50   | 20.53   | 20.44   | 22.00   |
|           |            | 100     | 0         | 20.52   | 20.49   | 20.33   | 22.00   |
|           | 16QAM      | 1       | 0         | 20.43   | 20.49   | 20.64   | 22.00   |
|           |            | 1       | 50        | 20.27   | 20.37   | 20.39   | 22.00   |
|           |            | 1       | 99        | 20.32   | 20.65   | 20.45   | 22.00   |
|           |            | 50      | 0         | 20.49   | 20.49   | 20.41   | 22.00   |
|           |            | 50      | 25        | 20.54   | 20.64   | 20.60   | 22.00   |
|           |            | 50      | 50        | 20.61   | 20.53   | 20.53   | 22.00   |
|           |            | 100     | 0         | 20.43   | 20.53   | 20.52   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.59   | 20.58   | 20.62   | 22.00   |
|           |            | 1       | 50        | 20.58   | 20.56   | 20.59   | 22.00   |
|           |            | 1       | 99        | 20.63   | 20.57   | 20.55   | 22.00   |
|           |            | 50      | 0         | 20.07   | 20.06   | 20.13   | 21.00   |
|           |            | 50      | 25        | 20.24   | 20.25   | 20.23   | 21.00   |
|           |            | 50      | 50        | 20.11   | 20.09   | 20.20   | 21.00   |
|           |            | 100     | 0         | 20.05   | 20.20   | 20.11   | 21.00   |



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Shenzhen Branch

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
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| LTE Band 41 Hotspot off |            |         |           | Conducted Power(dBm) |         |         |         |         |         |
|-------------------------|------------|---------|-----------|----------------------|---------|---------|---------|---------|---------|
| Bandwidth               | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Channel | Tune up |
|                         |            |         |           | 39675                | 40148   | 40620   | 41093   | 41565   |         |
| 5MHz                    | QPSK       | 1       | 0         | 22.30                | 22.34   | 22.34   | 22.27   | 22.31   | 24.00   |
|                         |            | 1       | 13        | 22.38                | 22.35   | 22.36   | 22.38   | 22.40   | 24.00   |
|                         |            | 1       | 24        | 22.25                | 22.28   | 22.27   | 22.24   | 22.26   | 24.00   |
|                         |            | 12      | 0         | 21.40                | 21.46   | 21.37   | 21.36   | 21.39   | 23.00   |
|                         |            | 12      | 6         | 21.42                | 21.45   | 21.41   | 21.40   | 21.42   | 23.00   |
|                         |            | 12      | 13        | 21.38                | 21.44   | 21.43   | 21.42   | 21.40   | 23.00   |
|                         |            | 25      | 0         | 21.46                | 21.47   | 21.35   | 21.34   | 21.35   | 23.00   |
|                         | 16QAM      | 1       | 0         | 21.54                | 21.44   | 21.37   | 21.41   | 21.57   | 23.00   |
|                         |            | 1       | 13        | 21.52                | 21.46   | 21.55   | 21.48   | 21.55   | 23.00   |
|                         |            | 1       | 24        | 21.57                | 21.52   | 21.57   | 21.42   | 21.56   | 23.00   |
|                         |            | 12      | 0         | 20.40                | 20.41   | 20.37   | 20.32   | 20.39   | 22.00   |
|                         |            | 12      | 6         | 20.42                | 20.44   | 20.37   | 20.32   | 20.39   | 22.00   |
|                         |            | 12      | 13        | 20.38                | 20.42   | 20.36   | 20.40   | 20.33   | 22.00   |
|                         |            | 25      | 0         | 20.47                | 20.43   | 20.36   | 20.39   | 20.44   | 22.00   |
|                         | 64QAM      | 1       | 0         | 20.56                | 20.45   | 20.38   | 20.38   | 20.59   | 22.00   |
|                         |            | 1       | 13        | 20.50                | 20.48   | 20.51   | 20.46   | 20.56   | 22.00   |
|                         |            | 1       | 24        | 20.60                | 20.52   | 20.58   | 20.39   | 20.52   | 22.00   |
|                         |            | 12      | 0         | 19.41                | 19.39   | 19.36   | 19.30   | 19.40   | 21.00   |
|                         |            | 12      | 6         | 19.43                | 19.50   | 19.39   | 19.32   | 19.37   | 21.00   |
|                         |            | 12      | 13        | 19.41                | 19.43   | 19.35   | 19.40   | 19.30   | 21.00   |
|                         |            | 25      | 0         | 19.49                | 19.45   | 19.37   | 19.44   | 19.45   | 21.00   |
| Bandwidth               | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Channel | Tune up |
|                         |            |         |           | 39700                | 40160   | 40620   | 41080   | 41540   |         |
| 10MHz                   | QPSK       | 1       | 0         | 22.38                | 22.18   | 22.00   | 22.12   | 22.19   | 24.00   |
|                         |            | 1       | 25        | 22.16                | 22.31   | 22.24   | 22.30   | 22.29   | 24.00   |
|                         |            | 1       | 49        | 22.37                | 22.08   | 22.06   | 22.11   | 22.13   | 24.00   |
|                         |            | 25      | 0         | 21.43                | 21.25   | 21.29   | 21.28   | 21.26   | 23.00   |
|                         |            | 25      | 13        | 21.49                | 21.56   | 21.35   | 21.49   | 21.35   | 23.00   |
|                         |            | 25      | 25        | 21.34                | 21.31   | 21.39   | 21.28   | 21.36   | 23.00   |
|                         |            | 50      | 0         | 21.36                | 21.34   | 21.37   | 21.36   | 21.25   | 23.00   |
|                         | 16QAM      | 1       | 0         | 21.44                | 21.25   | 21.30   | 21.24   | 21.26   | 23.00   |
|                         |            | 1       | 25        | 21.46                | 21.48   | 21.37   | 21.53   | 21.51   | 23.00   |
|                         |            | 1       | 49        | 21.41                | 21.18   | 21.14   | 21.08   | 21.18   | 23.00   |
|                         |            | 25      | 0         | 20.41                | 20.24   | 20.33   | 20.24   | 20.37   | 22.00   |
|                         |            | 25      | 13        | 20.42                | 20.39   | 20.38   | 20.42   | 20.28   | 22.00   |
|                         |            | 25      | 25        | 20.32                | 20.30   | 20.29   | 20.32   | 20.30   | 22.00   |
|                         |            | 50      | 0         | 20.41                | 20.34   | 20.31   | 20.38   | 20.22   | 22.00   |
|                         | 64QAM      | 1       | 0         | 20.40                | 20.29   | 20.30   | 20.23   | 20.28   | 22.00   |
|                         |            | 1       | 25        | 20.48                | 20.45   | 20.39   | 20.59   | 20.52   | 22.00   |
|                         |            | 1       | 49        | 20.37                | 20.16   | 20.19   | 20.04   | 20.17   | 22.00   |
|                         |            | 25      | 0         | 19.43                | 19.23   | 19.35   | 19.24   | 19.39   | 21.00   |
|                         |            | 25      | 13        | 19.47                | 19.40   | 19.40   | 19.47   | 19.31   | 21.00   |
|                         |            | 25      | 25        | 19.32                | 19.28   | 19.25   | 19.33   | 19.27   | 21.00   |
|                         |            | 50      | 0         | 19.46                | 19.35   | 19.27   | 19.44   | 19.26   | 21.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|           |            |         |           | 39725   | 40173   | 40620   | 41068   | 41515   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.59   | 22.35   | 22.31   | 22.48   | 22.26   | 24.00   |
|           |            | 1       | 38        | 22.50   | 22.55   | 22.52   | 22.47   | 22.57   | 24.00   |
|           |            | 1       | 74        | 22.45   | 22.22   | 22.39   | 22.25   | 22.49   | 24.00   |
|           |            | 36      | 0         | 21.59   | 21.44   | 21.50   | 21.51   | 21.46   | 23.00   |
|           |            | 36      | 18        | 21.66   | 21.57   | 21.55   | 21.55   | 21.64   | 23.00   |
|           |            | 36      | 39        | 21.55   | 21.45   | 21.56   | 21.54   | 21.52   | 23.00   |
|           |            | 75      | 0         | 21.55   | 21.58   | 21.48   | 21.45   | 21.51   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.64   | 21.46   | 21.43   | 21.65   | 21.46   | 23.00   |
|           |            | 1       | 38        | 21.61   | 21.59   | 21.74   | 21.64   | 21.58   | 23.00   |
|           |            | 1       | 74        | 21.66   | 21.40   | 21.45   | 21.47   | 21.65   | 23.00   |
|           |            | 36      | 0         | 20.68   | 20.53   | 20.50   | 20.47   | 20.51   | 22.00   |
|           |            | 36      | 18        | 20.56   | 20.51   | 20.60   | 20.51   | 20.54   | 22.00   |
|           |            | 36      | 39        | 20.50   | 20.54   | 20.56   | 20.49   | 20.49   | 22.00   |
|           |            | 75      | 0         | 20.60   | 20.54   | 20.53   | 20.44   | 20.43   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.69   | 20.42   | 20.41   | 20.66   | 20.51   | 22.00   |
|           |            | 1       | 38        | 20.62   | 20.62   | 20.77   | 20.60   | 20.61   | 22.00   |
|           |            | 1       | 74        | 20.66   | 20.38   | 20.50   | 20.51   | 20.69   | 22.00   |
|           |            | 36      | 0         | 19.70   | 19.59   | 19.49   | 19.46   | 19.56   | 21.00   |
|           |            | 36      | 18        | 19.53   | 19.48   | 19.66   | 19.50   | 19.59   | 21.00   |
|           |            | 36      | 39        | 19.52   | 19.50   | 19.60   | 19.46   | 19.51   | 21.00   |
|           |            | 75      | 0         | 19.56   | 19.54   | 19.59   | 19.49   | 19.40   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39750   | 40185   | 40620   | 41055   | 41490   |         |
| 20MHz     | QPSK       | 1       | 0         | 22.64   | 22.62   | 22.26   | 22.45   | 22.23   | 24.00   |
|           |            | 1       | 50        | 22.51   | 22.57   | 22.54   | 22.48   | 22.51   | 24.00   |
|           |            | 1       | 99        | 22.54   | 22.51   | 22.27   | 22.07   | 22.38   | 24.00   |
|           |            | 50      | 0         | 21.50   | 21.50   | 21.56   | 21.48   | 21.39   | 23.00   |
|           |            | 50      | 25        | 21.68   | 21.57   | 21.58   | 21.47   | 21.58   | 23.00   |
|           |            | 50      | 50        | 21.60   | 21.58   | 21.61   | 21.42   | 21.62   | 23.00   |
|           |            | 100     | 0         | 21.56   | 21.46   | 21.48   | 21.39   | 21.54   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.63   | 21.67   | 21.33   | 21.53   | 21.33   | 23.00   |
|           |            | 1       | 50        | 21.67   | 21.60   | 21.66   | 21.65   | 21.63   | 23.00   |
|           |            | 1       | 99        | 21.60   | 21.47   | 21.35   | 21.10   | 21.41   | 23.00   |
|           |            | 50      | 0         | 20.63   | 20.54   | 20.55   | 20.60   | 20.50   | 22.00   |
|           |            | 50      | 25        | 20.62   | 20.61   | 20.69   | 20.62   | 20.71   | 22.00   |
|           |            | 50      | 50        | 20.67   | 20.58   | 20.61   | 20.44   | 20.62   | 22.00   |
|           |            | 100     | 0         | 20.56   | 20.51   | 20.51   | 20.56   | 20.62   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.62   | 20.66   | 20.33   | 20.50   | 20.32   | 22.00   |
|           |            | 1       | 50        | 20.69   | 20.65   | 20.68   | 20.71   | 20.61   | 22.00   |
|           |            | 1       | 99        | 20.56   | 20.44   | 20.38   | 20.11   | 20.37   | 22.00   |
|           |            | 50      | 0         | 19.69   | 19.57   | 19.52   | 19.61   | 19.56   | 21.00   |
|           |            | 50      | 25        | 19.66   | 19.57   | 19.74   | 19.68   | 19.72   | 21.00   |
|           |            | 50      | 50        | 19.65   | 19.55   | 19.62   | 19.44   | 19.67   | 21.00   |
|           |            | 100     | 0         | 19.61   | 19.57   | 19.57   | 19.52   | 19.59   | 21.00   |



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| LTE Band 41 Hotspot on |            |         |           | Conducted Power(dBm) |               |               |               |               |         |
|------------------------|------------|---------|-----------|----------------------|---------------|---------------|---------------|---------------|---------|
| Bandwidth              | Modulation | RB size | RB offset | Channel 39675        | Channel 40148 | Channel 40620 | Channel 41093 | Channel 41565 | Tune up |
| 5MHz                   | QPSK       | 1       | 0         | 19.70                | 19.69         | 19.70         | 19.64         | 19.74         | 21.50   |
|                        |            | 1       | 13        | 19.81                | 19.90         | 19.85         | 19.89         | 19.72         | 21.50   |
|                        |            | 1       | 24        | 19.76                | 19.72         | 19.74         | 19.68         | 19.64         | 21.50   |
|                        |            | 12      | 0         | 19.92                | 19.89         | 19.84         | 19.89         | 19.79         | 21.50   |
|                        |            | 12      | 6         | 19.88                | 19.92         | 19.89         | 19.85         | 19.80         | 21.50   |
|                        |            | 12      | 13        | 19.88                | 19.87         | 19.90         | 19.94         | 19.79         | 21.50   |
|                        |            | 25      | 0         | 19.86                | 19.85         | 19.87         | 19.81         | 19.79         | 21.50   |
|                        | 16QAM      | 1       | 0         | 20.01                | 19.84         | 19.86         | 19.94         | 19.96         | 21.50   |
|                        |            | 1       | 13        | 19.92                | 20.03         | 19.95         | 19.94         | 19.85         | 21.50   |
|                        |            | 1       | 24        | 19.90                | 19.96         | 19.91         | 19.91         | 19.77         | 21.50   |
|                        |            | 12      | 0         | 19.77                | 19.94         | 19.84         | 19.85         | 19.91         | 21.50   |
|                        |            | 12      | 6         | 19.84                | 19.92         | 19.88         | 19.86         | 19.86         | 21.50   |
|                        |            | 12      | 13        | 19.82                | 19.92         | 19.89         | 19.83         | 19.76         | 21.50   |
|                        |            | 25      | 0         | 19.93                | 19.97         | 19.88         | 19.85         | 19.80         | 21.50   |
|                        | 64QAM      | 1       | 0         | 19.95                | 19.85         | 19.83         | 19.86         | 20.08         | 21.50   |
|                        |            | 1       | 13        | 19.90                | 19.97         | 19.92         | 19.91         | 19.99         | 21.50   |
|                        |            | 1       | 24        | 20.05                | 19.99         | 20.08         | 19.80         | 19.97         | 21.50   |
|                        |            | 12      | 0         | 19.35                | 19.31         | 19.30         | 19.24         | 19.32         | 21.00   |
|                        |            | 12      | 6         | 19.35                | 19.43         | 19.33         | 19.25         | 19.29         | 21.00   |
|                        |            | 12      | 13        | 19.35                | 19.36         | 19.27         | 19.32         | 19.24         | 21.00   |
|                        |            | 25      | 0         | 19.44                | 19.37         | 19.31         | 19.37         | 19.40         | 21.00   |
| Bandwidth              | Modulation | RB size | RB offset | Channel 39700        | Channel 40160 | Channel 40620 | Channel 41080 | Channel 41540 | Tune up |
| 10MHz                  | QPSK       | 1       | 0         | 19.63                | 19.63         | 19.65         | 19.56         | 19.69         | 21.50   |
|                        |            | 1       | 25        | 19.75                | 19.85         | 19.77         | 19.82         | 19.65         | 21.50   |
|                        |            | 1       | 49        | 19.69                | 19.65         | 19.69         | 19.62         | 19.59         | 21.50   |
|                        |            | 25      | 0         | 19.84                | 19.81         | 19.77         | 19.83         | 19.72         | 21.50   |
|                        |            | 25      | 13        | 19.81                | 19.86         | 19.82         | 19.80         | 19.74         | 21.50   |
|                        |            | 25      | 25        | 19.82                | 19.82         | 19.82         | 19.87         | 19.73         | 21.50   |
|                        |            | 50      | 0         | 19.78                | 19.80         | 19.81         | 19.75         | 19.74         | 21.50   |
|                        | 16QAM      | 1       | 0         | 19.95                | 19.78         | 19.78         | 19.88         | 19.90         | 21.50   |
|                        |            | 1       | 25        | 19.84                | 19.98         | 19.87         | 19.89         | 19.80         | 21.50   |
|                        |            | 1       | 49        | 19.84                | 19.91         | 19.83         | 19.84         | 19.72         | 21.50   |
|                        |            | 25      | 0         | 19.72                | 19.88         | 19.78         | 19.77         | 19.83         | 21.50   |
|                        |            | 25      | 13        | 19.78                | 19.86         | 19.83         | 19.78         | 19.81         | 21.50   |
|                        |            | 25      | 25        | 19.75                | 19.85         | 19.83         | 19.78         | 19.70         | 21.50   |
|                        |            | 50      | 0         | 19.86                | 19.91         | 19.83         | 19.79         | 19.75         | 21.50   |
|                        | 64QAM      | 1       | 0         | 19.80                | 19.78         | 19.78         | 19.63         | 19.70         | 21.50   |
|                        |            | 1       | 25        | 19.95                | 19.93         | 19.89         | 20.04         | 20.02         | 21.50   |
|                        |            | 1       | 49        | 19.86                | 19.63         | 19.65         | 19.51         | 19.59         | 21.50   |
|                        |            | 25      | 0         | 19.36                | 19.16         | 19.29         | 19.16         | 19.34         | 21.00   |
|                        |            | 25      | 13        | 19.40                | 19.32         | 19.32         | 19.39         | 19.24         | 21.00   |
|                        |            | 25      | 25        | 19.26                | 19.22         | 19.18         | 19.25         | 19.21         | 21.00   |
|                        |            | 50      | 0         | 19.40                | 19.27         | 19.22         | 19.38         | 19.18         | 21.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|           |            |         |           | 39725   | 40173   | 40620   | 41068   | 41515   |         |
| 15MHz     | QPSK       | 1       | 0         | 19.97   | 19.78   | 19.79   | 19.91   | 19.70   | 21.50   |
|           |            | 1       | 38        | 19.98   | 19.99   | 20.06   | 19.98   | 19.99   | 21.50   |
|           |            | 1       | 74        | 20.04   | 19.80   | 19.88   | 19.82   | 19.84   | 21.50   |
|           |            | 36      | 0         | 20.08   | 19.93   | 19.96   | 19.96   | 19.95   | 21.50   |
|           |            | 36      | 18        | 20.08   | 20.05   | 20.04   | 20.03   | 20.04   | 21.50   |
|           |            | 36      | 39        | 20.01   | 19.97   | 20.05   | 20.03   | 20.04   | 21.50   |
|           |            | 75      | 0         | 20.04   | 20.06   | 19.95   | 20.00   | 19.87   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.11   | 19.94   | 19.95   | 20.14   | 19.74   | 21.50   |
|           |            | 1       | 38        | 20.08   | 20.10   | 20.13   | 20.08   | 19.96   | 21.50   |
|           |            | 1       | 74        | 20.13   | 19.94   | 20.05   | 19.91   | 20.01   | 21.50   |
|           |            | 36      | 0         | 20.05   | 19.99   | 19.86   | 20.02   | 19.92   | 21.50   |
|           |            | 36      | 18        | 20.11   | 20.08   | 19.90   | 20.08   | 20.00   | 21.50   |
|           |            | 36      | 39        | 20.05   | 19.95   | 20.06   | 20.04   | 20.00   | 21.50   |
|           |            | 75      | 0         | 20.08   | 20.03   | 20.01   | 20.05   | 19.99   | 21.50   |
|           | 64QAM      | 1       | 0         | 20.12   | 19.86   | 19.91   | 20.12   | 19.97   | 21.50   |
|           |            | 1       | 38        | 20.04   | 20.07   | 20.12   | 20.07   | 20.01   | 21.50   |
|           |            | 1       | 74        | 20.10   | 19.87   | 19.97   | 20.01   | 20.13   | 21.50   |
|           |            | 36      | 0         | 19.64   | 19.54   | 19.41   | 19.40   | 19.49   | 21.00   |
|           |            | 36      | 18        | 19.48   | 19.42   | 19.59   | 19.44   | 19.52   | 21.00   |
|           |            | 36      | 39        | 19.44   | 19.42   | 19.52   | 19.40   | 19.44   | 21.00   |
|           |            | 75      | 0         | 19.51   | 19.46   | 19.53   | 19.42   | 19.34   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39750   | 40185   | 40620   | 41055   | 41490   |         |
| 20MHz     | QPSK       | 1       | 0         | 20.15   | 19.94   | 19.60   | 19.70   | 19.53   | 21.50   |
|           |            | 1       | 50        | 19.81   | 19.94   | 19.87   | 19.93   | 19.96   | 21.50   |
|           |            | 1       | 99        | 20.01   | 20.00   | 19.65   | 19.55   | 19.78   | 21.50   |
|           |            | 50      | 0         | 19.91   | 20.01   | 19.84   | 19.90   | 19.78   | 21.50   |
|           |            | 50      | 25        | 20.03   | 20.08   | 20.06   | 19.99   | 20.06   | 21.50   |
|           |            | 50      | 50        | 20.07   | 20.01   | 20.04   | 19.93   | 20.03   | 21.50   |
|           |            | 100     | 0         | 20.12   | 20.00   | 19.95   | 19.87   | 19.95   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.16   | 20.09   | 19.78   | 20.02   | 19.62   | 21.50   |
|           |            | 1       | 50        | 20.11   | 20.10   | 20.03   | 20.10   | 20.03   | 21.50   |
|           |            | 1       | 99        | 20.08   | 20.05   | 19.79   | 19.72   | 19.91   | 21.50   |
|           |            | 50      | 0         | 20.10   | 20.11   | 20.00   | 20.09   | 19.89   | 21.50   |
|           |            | 50      | 25        | 20.08   | 20.03   | 19.97   | 20.08   | 20.12   | 21.50   |
|           |            | 50      | 50        | 20.07   | 20.09   | 20.04   | 19.95   | 20.00   | 21.50   |
|           |            | 100     | 0         | 19.97   | 19.91   | 19.91   | 19.94   | 20.00   | 21.50   |
|           | 64QAM      | 1       | 0         | 20.05   | 20.15   | 19.81   | 19.93   | 19.74   | 21.50   |
|           |            | 1       | 50        | 20.10   | 20.09   | 20.09   | 20.15   | 20.11   | 21.50   |
|           |            | 1       | 99        | 20.01   | 19.92   | 19.81   | 19.58   | 19.86   | 21.50   |
|           |            | 50      | 0         | 19.62   | 19.51   | 19.47   | 19.55   | 19.50   | 21.00   |
|           |            | 50      | 25        | 19.58   | 19.51   | 19.67   | 19.62   | 19.66   | 21.00   |
|           |            | 50      | 50        | 19.58   | 19.50   | 19.54   | 19.36   | 19.61   | 21.00   |
|           |            | 100     | 0         | 19.55   | 19.52   | 19.51   | 19.45   | 19.54   | 21.00   |

Table 22: Conducted Power of LTE



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## 8.1.5 Conducted Power of Uplink & Downlink LTE CA

### 8.1.5.1 Conducted Power of uplink LTE CA

#### • Uplink LTE CA Conducted Power of Ant5

| Combination | Modulation | PCC  |          |            |        |              |            | SCC  |          |            |        |              | Receiver off/Hotspot off |              | Receiver on/Hotspot on |              |
|-------------|------------|------|----------|------------|--------|--------------|------------|------|----------|------------|--------|--------------|--------------------------|--------------|------------------------|--------------|
|             |            | Band | BW (MHz) | UL Channel | UL# RB | UL RB Offset | DL Channel | Band | BW (MHz) | UL Channel | UL# RB | UL RB Offset | Power                    | Tune-up(dBm) | Power                  | Tune-up(dBm) |
| CA_7C       | QPSK       | 7    | 20       | 20850      | 1      | 99           | 2850       | 7    | 20       | 21048      | 1      | 0            | 20.50                    | 21.00        | 14.19                  | 14.50        |
| CA_7C       | QPSK       | 7    | 20       | 21100      | 1      | 99           | 3100       | 7    | 20       | 21298      | 1      | 0            | 20.46                    | 21.00        | 14.15                  | 14.50        |
| CA_7C       | QPSK       | 7    | 20       | 21100      | 1      | 0            | 3100       | 7    | 20       | 20902      | 1      | 99           | 20.41                    | 21.00        | 14.13                  | 14.50        |
| CA_7C       | QPSK       | 7    | 20       | 21350      | 1      | 0            | 3350       | 7    | 20       | 21152      | 1      | 99           | 20.53                    | 21.00        | 14.16                  | 14.50        |
| Combination | Modulation | PCC  |          |            |        |              |            | SCC  |          |            |        |              | Receiver off/Hotspot off |              | Receiver on/Hotspot on |              |
|             |            | Band | BW (MHz) | UL Channel | UL# RB | UL RB Offset | DL Channel | Band | BW (MHz) | UL Channel | UL# RB | UL RB Offset | Power                    | Tune-up(dBm) | Power                  | Tune-up(dBm) |
| CA_38C      | QPSK       | 38   | 20       | 37850      | 1      | 99           | 37850      | 38   | 20       | 38048      | 1      | 0            | 22.51                    | 23.00        | 17.10                  | 17.50        |
| CA_38C      | QPSK       | 38   | 20       | 37901      | 1      | 99           | 37901      | 38   | 20       | 38099      | 1      | 0            | 22.35                    | 23.00        | 17.05                  | 17.50        |
| CA_38C      | QPSK       | 38   | 20       | 38099      | 1      | 0            | 38099      | 38   | 20       | 37901      | 1      | 99           | 22.44                    | 23.00        | 17.08                  | 17.50        |
| CA_38C      | QPSK       | 38   | 20       | 38150      | 1      | 0            | 38150      | 38   | 20       | 37952      | 1      | 99           | 22.48                    | 23.00        | 17.11                  | 17.50        |

#### • Uplink LTE CA Conducted Power of Ant10

| Combination | Modulation | PCC  |          |            |        |              |            | SCC  |          |            |        |              | Hotspot off |              | Hotspot on |              |
|-------------|------------|------|----------|------------|--------|--------------|------------|------|----------|------------|--------|--------------|-------------|--------------|------------|--------------|
|             |            | Band | BW (MHz) | UL Channel | UL# RB | UL RB Offset | DL Channel | Band | BW (MHz) | UL Channel | UL# RB | UL RB Offset | Power       | Tune-up(dBm) | Power      | Tune-up(dBm) |
| CA_7C       | QPSK       | 7    | 20       | 20850      | 1      | 99           | 2850       | 7    | 20       | 21048      | 1      | 0            | 23.10       | 24.00        | 19.59      | 20.00        |
| CA_7C       | QPSK       | 7    | 20       | 21100      | 1      | 99           | 3100       | 7    | 20       | 21298      | 1      | 0            | 23.07       | 24.00        | 19.51      | 20.00        |
| CA_7C       | QPSK       | 7    | 20       | 21100      | 1      | 0            | 3100       | 7    | 20       | 20902      | 1      | 99           | 23.09       | 24.00        | 19.40      | 20.00        |
| CA_7C       | QPSK       | 7    | 20       | 21350      | 1      | 0            | 3350       | 7    | 20       | 21152      | 1      | 99           | 23.12       | 24.00        | 19.55      | 20.00        |
| Combination | Modulation | PCC  |          |            |        |              |            | SCC  |          |            |        |              | Hotspot off |              | Hotspot on |              |
|             |            | Band | BW (MHz) | UL Channel | UL# RB | UL RB Offset | DL Channel | Band | BW (MHz) | UL Channel | UL# RB | UL RB Offset | Power       | Tune-up(dBm) | Power      | Tune-up(dBm) |
| CA_38C      | QPSK       | 38   | 20       | 37850      | 1      | 99           | 37850      | 38   | 20       | 38048      | 1      | 0            | 23.42       | 24.00        | 21.74      | 22.00        |
| CA_38C      | QPSK       | 38   | 20       | 37901      | 1      | 99           | 37901      | 38   | 20       | 38099      | 1      | 0            | 23.41       | 24.00        | 21.38      | 22.00        |
| CA_38C      | QPSK       | 38   | 20       | 38099      | 1      | 0            | 38099      | 38   | 20       | 37901      | 1      | 99           | 23.29       | 24.00        | 21.53      | 22.00        |
| CA_38C      | QPSK       | 38   | 20       | 38150      | 1      | 0            | 38150      | 38   | 20       | 37952      | 1      | 99           | 23.40       | 24.00        | 21.67      | 22.00        |



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#### 8.1.5.2 Conducted Power of Downlink LTE CA

In this section, the following conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than 1/4 dB higher than the maximum output power measured when downlink carrier aggregation is inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.

Power test equipment: Anritsu Radio Communication Analyzer MT8821C

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.

The conducted power measurement results of downlink LTE CA Conducted Power are as below, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing

In applying the existing power measurement procedures for DL CA SAR test exclusion, the configurations that require power measurements are highlighted in the table as below:

| 1 band / 2CC | 2 bands / 2CC | 2 bands / 3CC |
|--------------|---------------|---------------|
| CA_7C        |               | CA_5A-7C      |
| CA_7A-7A     |               | CA_5A-7A-7A   |
|              | CA_5A-7A      | CA_5A-7A-7A   |
| CA_38C       |               |               |



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• Downlink LTE CA Conducted Power of Ant1 & Ant10

| Hotspot off     |          |          |            |                |            |        |              |          |          |                |            |          |          |                |            |                    |                    |         |
|-----------------|----------|----------|------------|----------------|------------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|--------------------|--------------------|---------|
| DL LTE CA Class | PCC      |          |            |                |            |        |              | SCC1     |          |                |            | SCC2     |          |                |            | Power(dBm)         |                    |         |
|                 | LTE Band | BW (MHz) | Modulation | UL Freq. (MHz) | UL Channel | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | DL LTE CA Tx Power | LTE Rel 8 Tx Power | Tune-up |
| CA_38C          | Band 38  | 20M      | QPSK       | 2580           | 37850      | 1      | 0            | Band 38  | 20M      | 2599.8         | 38048      | /        | /        | /              | /          | 23.15              | 23.21              | 24.00   |
| CA_5A-7C        | Band 5   | 10M      | QPSK       | 829            | 20450      | 1      | 0            | Band 7   | 20M      | 2680           | 3350       | Band 7   | 20M      | 3152           | 2660.2     | 22.44              | 22.49              | 23.50   |
| CA_5A-7C        | Band 7   | 20M      | QPSK       | 2560           | 21350      | 1      | 0            | Band 7   | 20M      | 3152           | 2660.2     | Band 5   | 10M      | 881.5          | 2525       | 23.11              | 23.16              | 24.00   |
| CA_5A-7A-7A     | Band 5   | 10M      | QPSK       | 829            | 20450      | 1      | 0            | Band 7   | 20M      | 2680           | 3350       | Band 7   | 20M      | 2630           | 2850       | 22.44              | 22.49              | 23.50   |
| CA_5A-7A-7A     | Band 7   | 20M      | QPSK       | 2560           | 21350      | 1      | 0            | Band 7   | 20M      | 2630           | 2850       | Band 5   | 10M      | 881.5          | 2525       | 23.09              | 23.16              | 24.00   |
| Hotspot on      |          |          |            |                |            |        |              |          |          |                |            |          |          |                |            |                    |                    |         |
| DL LTE CA Class | PCC      |          |            |                |            |        |              | SCC1     |          |                |            | SCC2     |          |                |            | Power(dBm)         |                    |         |
|                 | LTE Band | BW (MHz) | Modulation | UL Freq. (MHz) | UL Channel | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | DL LTE CA Tx Power | LTE Rel 8 Tx Power | Tune-up |
| CA_38C          | Band 38  | 20M      | QPSK       | 2610           | 38150      | 1      | 0            | Band 7   | 20M      | 2590.2         | 37952      | /        | /        | /              | /          | 20.59              | 20.66              | 22.00   |
| CA_5A-7C        | Band 5   | 10M      | QPSK       | 829            | 20450      | 1      | 0            | Band 7   | 20M      | 2680           | 3350       | Band 7   | 20M      | 2649.8         | 3048       | 22.44              | 22.49              | 23.50   |
| CA_5A-7C        | Band 7   | 20M      | QPSK       | 2510           | 20850      | 1      | 99           | Band 7   | 20M      | 2649.8         | 3048       | Band 5   | 10M      | 881.5          | 2525       | 18.51              | 18.59              | 20.00   |
| CA_5A-7A-7A     | Band 5   | 10M      | QPSK       | 829            | 20450      | 1      | 0            | Band 7   | 20M      | 2630           | 2850       | Band 7   | 20M      | 2680           | 3350       | 22.42              | 22.49              | 23.50   |
| CA_5A-7A-7A     | Band 7   | 20M      | QPSK       | 2510           | 20850      | 1      | 99           | Band 7   | 20M      | 2680           | 3350       | Band 5   | 10M      | 881.5          | 2525       | 18.53              | 18.59              | 20.00   |

• Downlink LTE CA Conducted Power of Ant4 & Ant5

| Receiver off/Hotspot off |          |          |            |                |            |        |              |          |          |                |            |          |          |                |            |                    |                    |         |
|--------------------------|----------|----------|------------|----------------|------------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|--------------------|--------------------|---------|
| DL LTE CA Class          | PCC      |          |            |                |            |        |              | SCC1     |          |                |            | SCC2     |          |                |            | Power(dBm)         |                    |         |
|                          | LTE Band | BW (MHz) | Modulation | UL Freq. (MHz) | UL Channel | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | DL LTE CA Tx Power | LTE Rel 8 Tx Power | Tune-up |
| CA_38C                   | Band 38  | 20M      | QPSK       | 2580           | 37850      | 1      | 0            | Band 38  | 20M      | 2599.8         | 38048      | /        | /        | /              | /          | 22.22              | 22.27              | 23.00   |
| CA_5A-7C                 | Band 5   | 10M      | QPSK       | 829            | 20450      | 1      | 25           | Band 7   | 20M      | 2680           | 3350       | Band 7   | 20M      | 3152           | 2660.2     | 23.71              | 23.75              | 24.50   |
| CA_5A-7C                 | Band 7   | 20M      | QPSK       | 2560           | 21350      | 1      | 99           | Band 7   | 20M      | 3152           | 2660.2     | Band 5   | 10M      | 881.5          | 2525       | 20.27              | 20.29              | 21.00   |
| CA_5A-7A-7A              | Band 5   | 10M      | QPSK       | 829            | 20450      | 1      | 25           | Band 7   | 20M      | 2680           | 3350       | Band 7   | 20M      | 2630           | 2850       | 23.73              | 23.75              | 24.50   |
| CA_5A-7A-7A              | Band 7   | 20M      | QPSK       | 2560           | 21350      | 1      | 99           | Band 7   | 20M      | 2630           | 2850       | Band 5   | 10M      | 881.5          | 2525       | 20.25              | 20.29              | 21.00   |
| Receiver on/Hotspot on   |          |          |            |                |            |        |              |          |          |                |            |          |          |                |            |                    |                    |         |
| DL LTE CA Class          | PCC      |          |            |                |            |        |              | SCC1     |          |                |            | SCC2     |          |                |            | Power(dBm)         |                    |         |
|                          | LTE Band | BW (MHz) | Modulation | UL Freq. (MHz) | UL Channel | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | DL LTE CA Tx Power | LTE Rel 8 Tx Power | Tune-up |
| CA_38C                   | Band 38  | 20M      | QPSK       | 2610           | 38150      | 1      | 0            | Band 7   | 20M      | 2590.2         | 37952      | /        | /        | /              | /          | 16.82              | 16.88              | 17.50   |
| CA_5A-7C                 | Band 5   | 10M      | 16QAM      | 829            | 20450      | 1      | 0            | Band 7   | 20M      | 2630           | 2850       | Band 7   | 20M      | 2649.8         | 3048       | 21.49              | 21.55              | 22.50   |
| CA_5A-7C                 | Band 7   | 20M      | QPSK       | 2510           | 20850      | 1      | 50           | Band 7   | 20M      | 2649.8         | 3048       | Band 5   | 10M      | 881.5          | 2525       | 13.86              | 13.90              | 14.50   |
| CA_5A-7A-7A              | Band 5   | 10M      | QPSK       | 829            | 20450      | 1      | 0            | Band 7   | 20M      | 2680           | 3350       | Band 7   | 20M      | 2630           | 2850       | 21.52              | 21.55              | 22.50   |
| CA_5A-7A-7A              | Band 7   | 20M      | QPSK       | 2510           | 20850      | 1      | 50           | Band 7   | 20M      | 2680           | 3350       | Band 5   | 10M      | 881.5          | 2525       | 13.88              | 13.90              | 14.50   |

Table 23: Conducted Power of Downlink LTE CA

Note: The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.



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### 8.1.6 Conducted Power of WIFI and BT

| WiFi 2.4G Ant8(Chain0) Receiver off |         |                 |                 |         |                     |          |
|-------------------------------------|---------|-----------------|-----------------|---------|---------------------|----------|
| Mode                                | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11b                             | 1       | 2412            | 1               | 19.50   | 19.07               | Yes      |
|                                     | 6       | 2437            |                 | 19.50   | 18.98               | No       |
|                                     | 11      | 2462            |                 | 19.50   | 19.04               | No       |
| 802.11g                             | 1       | 2412            | 6               | 19.50   | 18.92               | No       |
|                                     | 6       | 2437            |                 | 19.50   | 19.00               | No       |
|                                     | 11      | 2462            |                 | 19.50   | 19.21               | No       |
| 802.11n 20M                         | 1       | 2412            | 6.5             | 16.50   | 16.00               | No       |
|                                     | 6       | 2437            |                 | 16.50   | 16.01               | No       |
|                                     | 11      | 2462            |                 | 16.50   | 16.02               | No       |
| 802.11n 40M                         | 3       | 2422            | 13.5            | 14.50   | 13.72               | No       |
|                                     | 6       | 2437            |                 | 14.50   | 13.78               | No       |
|                                     | 9       | 2452            |                 | 14.50   | 13.86               | No       |
| WiFi 2.4G Ant8(Chain0) Receiver on  |         |                 |                 |         |                     |          |
| Mode                                | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11b                             | 1       | 2412            | 1               | 15.50   | 14.02               | No       |
|                                     | 6       | 2437            |                 | 15.50   | 14.06               | Yes      |
|                                     | 11      | 2462            |                 | 15.50   | 14.01               | No       |
| 802.11g                             | 1       | 2412            | 6               | 15.50   | 14.05               | No       |
|                                     | 6       | 2437            |                 | 15.50   | 14.05               | No       |
|                                     | 11      | 2462            |                 | 15.50   | 14.07               | No       |
| 802.11n 20M                         | 1       | 2412            | 6.5             | 12.50   | 11.07               | No       |
|                                     | 6       | 2437            |                 | 12.50   | 10.92               | No       |
|                                     | 11      | 2462            |                 | 12.50   | 10.91               | No       |
| 802.11n 40M                         | 3       | 2422            | 13.5            | 10.50   | 9.05                | No       |
|                                     | 6       | 2437            |                 | 10.50   | 9.21                | No       |
|                                     | 9       | 2452            |                 | 10.50   | 8.67                | No       |



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| WiFi 2.4G MIMO Receiver off |         |                 |                 |         |                     |          |
|-----------------------------|---------|-----------------|-----------------|---------|---------------------|----------|
| Mode                        | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11b                     | 1       | 2412            | 1               | 22.50   | 22.06               | Yes      |
|                             | 6       | 2437            |                 | 22.50   | 22.08               | Yes      |
|                             | 11      | 2462            |                 | 22.50   | 22.04               | No       |
| 802.11g                     | 1       | 2412            | 6               | 22.50   | 21.88               | No       |
|                             | 6       | 2437            |                 | 22.50   | 22.09               | No       |
|                             | 11      | 2462            |                 | 22.50   | 22.01               | No       |
| 802.11n 20M                 | 1       | 2412            | 6.5             | 19.50   | 18.77               | No       |
|                             | 6       | 2437            |                 | 19.50   | 18.91               | No       |
|                             | 11      | 2462            |                 | 19.50   | 18.92               | No       |
| 802.11n 40M                 | 3       | 2422            | 13.5            | 17.50   | 16.82               | No       |
|                             | 6       | 2437            |                 | 17.50   | 16.72               | No       |
|                             | 9       | 2452            |                 | 17.50   | 16.71               | No       |
|                             |         |                 |                 |         |                     |          |
| WiFi 2.4G MIMO Receiver on  |         |                 |                 |         |                     |          |
| Mode                        | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11b                     | 1       | 2412            | 1               | 18.50   | 17.00               | No       |
|                             | 6       | 2437            |                 | 18.50   | 17.05               | Yes      |
|                             | 11      | 2462            |                 | 18.50   | 17.04               | No       |
| 802.11g                     | 1       | 2412            | 6               | 18.50   | 17.12               | No       |
|                             | 6       | 2437            |                 | 18.50   | 16.96               | No       |
|                             | 11      | 2462            |                 | 18.50   | 17.04               | No       |
| 802.11n 20M                 | 1       | 2412            | 6.5             | 15.50   | 13.81               | No       |
|                             | 6       | 2437            |                 | 15.50   | 13.70               | No       |
|                             | 11      | 2462            |                 | 15.50   | 13.84               | No       |
| 802.11n 40M                 | 3       | 2422            | 13.5            | 13.50   | 11.78               | No       |
|                             | 6       | 2437            |                 | 13.50   | 12.03               | No       |
|                             | 9       | 2452            |                 | 13.50   | 11.54               | No       |



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| WiFi 5G Ant7(Chain1) Receiver off |          |         |                 |                 |         |                     |          |
|-----------------------------------|----------|---------|-----------------|-----------------|---------|---------------------|----------|
| 5GHz                              | mode     | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11a                           | U-NII-1  | 36      | 5180            | 6               | 18.00   | 17.23               | No       |
|                                   |          | 40      | 5200            |                 | 18.00   | 17.48               | No       |
|                                   |          | 44      | 5220            |                 | 18.00   | 17.52               | No       |
|                                   |          | 48      | 5240            |                 | 18.00   | 17.56               | Yes      |
|                                   | U-NII-2A | 52      | 5260            |                 | 18.00   | 17.58               | Yes      |
|                                   |          | 56      | 5280            |                 | 18.00   | 17.43               | No       |
|                                   |          | 60      | 5300            |                 | 18.00   | 17.52               | No       |
|                                   |          | 64      | 5320            |                 | 18.00   | 17.37               | No       |
|                                   | U-NII-2C | 100     | 5500            |                 | 18.00   | 17.43               | No       |
|                                   |          | 104     | 5520            |                 | 18.00   | 17.41               | No       |
|                                   |          | 108     | 5540            |                 | 18.00   | 17.25               | No       |
|                                   |          | 112     | 5560            |                 | 18.00   | 17.32               | No       |
|                                   |          | 116     | 5580            |                 | 18.00   | 17.11               | No       |
|                                   |          | 120     | 5600            |                 | 18.00   | 17.50               | Yes      |
|                                   |          | 124     | 5620            |                 | 18.00   | 17.21               | No       |
|                                   |          | 128     | 5640            |                 | 18.00   | 17.23               | No       |
|                                   |          | 132     | 5660            |                 | 18.00   | 17.35               | No       |
|                                   |          | 136     | 5680            |                 | 18.00   | 17.33               | No       |
|                                   |          | 140     | 5700            |                 | 18.00   | 17.25               | No       |
|                                   | U-NII-3  | 149     | 5745            |                 | 18.00   | 17.21               | Yes      |
|                                   |          | 153     | 5765            |                 | 18.00   | 17.17               | No       |
|                                   |          | 157     | 5785            |                 | 18.00   | 17.38               | Yes      |
|                                   |          | 161     | 5805            |                 | 18.00   | 17.11               | No       |
| 5GHz                              | mode     | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-HT20                      | U-NII-1  | 36      | 5180            | MCS0            | 17.00   | 16.01               | No       |
|                                   |          | 40      | 5200            |                 | 17.00   | 15.21               | No       |
|                                   |          | 44      | 5220            |                 | 17.00   | 15.11               | No       |
|                                   |          | 48      | 5240            |                 | 17.00   | 15.06               | No       |
|                                   | U-NII-2A | 52      | 5260            |                 | 17.00   | 15.11               | No       |
|                                   |          | 56      | 5280            |                 | 17.00   | 15.21               | No       |
|                                   |          | 60      | 5300            |                 | 17.00   | 15.26               | No       |
|                                   |          | 64      | 5320            |                 | 17.00   | 15.09               | No       |
|                                   | U-NII-2C | 100     | 5500            |                 | 17.00   | 15.01               | No       |
|                                   |          | 104     | 5520            |                 | 17.00   | 15.02               | No       |
|                                   |          | 108     | 5540            |                 | 17.00   | 15.11               | No       |
|                                   |          | 112     | 5560            |                 | 17.00   | 15.03               | No       |
|                                   |          | 116     | 5580            |                 | 17.00   | 14.99               | No       |



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|              |          | 120     | 5600            |                  | 17.00   | 15.21               | No       |
|--------------|----------|---------|-----------------|------------------|---------|---------------------|----------|
|              |          | 124     | 5620            |                  | 17.00   | 15.02               | No       |
|              |          | 128     | 5640            |                  | 17.00   | 15.20               | No       |
|              |          | 132     | 5660            |                  | 17.00   | 15.11               | No       |
|              |          | 136     | 5680            |                  | 17.00   | 15.06               | No       |
|              |          | 140     | 5700            |                  | 17.00   | 15.03               | No       |
|              | U-NII-3  | 149     | 5745            |                  | 17.00   | 15.89               | No       |
|              |          | 153     | 5765            |                  | 17.00   | 15.95               | No       |
|              |          | 157     | 5785            |                  | 17.00   | 15.93               | No       |
|              |          | 161     | 5805            |                  | 17.00   | 16.02               | No       |
| 5GHz         | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-HT40 | U-NII-1  | 38      | 5190            | MCS0             | 17.00   | 16.05               | No       |
|              |          | 46      | 5230            |                  | 17.00   | 15.78               | No       |
|              | U-NII-2A | 54      | 5270            |                  | 17.00   | 15.89               | No       |
|              |          | 62      | 5310            |                  | 17.00   | 15.84               | No       |
|              | U-NII-2C | 102     | 5510            |                  | 17.00   | 15.64               | No       |
|              |          | 110     | 5550            |                  | 17.00   | 16.01               | No       |
|              |          | 118     | 5590            |                  | 17.00   | 15.99               | No       |
|              |          | 126     | 5630            |                  | 17.00   | 15.78               | No       |
|              |          | 134     | 5670            |                  | 17.00   | 15.98               | No       |
|              | U-NII-3  | 151     | 5755            |                  | 17.00   | 15.88               | No       |
|              |          | 159     | 5795            |                  | 17.00   | 15.85               | No       |
| 5GHz         | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac 20M | U-NII-1  | 36      | 5180            | MCS0             | 18.00   | 16.99               | No       |
|              |          | 40      | 5200            |                  | 18.00   | 17.02               | No       |
|              |          | 44      | 5220            |                  | 18.00   | 17.02               | No       |
|              |          | 48      | 5240            |                  | 18.00   | 16.85               | No       |
|              | U-NII-2A | 52      | 5260            |                  | 18.00   | 16.95               | No       |
|              |          | 56      | 5280            |                  | 18.00   | 16.98               | No       |
|              |          | 60      | 5300            |                  | 18.00   | 16.89               | No       |
|              |          | 64      | 5320            |                  | 18.00   | 17.01               | No       |
|              | U-NII-2C | 100     | 5500            |                  | 18.00   | 17.02               | No       |
|              |          | 104     | 5520            |                  | 18.00   | 17.06               | No       |
|              |          | 108     | 5540            |                  | 18.00   | 17.01               | No       |
|              |          | 112     | 5560            |                  | 18.00   | 17.11               | No       |
|              |          | 116     | 5580            |                  | 18.00   | 16.98               | No       |
|              |          | 120     | 5600            |                  | 18.00   | 16.99               | No       |
|              |          | 124     | 5620            |                  | 18.00   | 16.78               | No       |
|              |          | 128     | 5640            |                  | 18.00   | 17.21               | No       |



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|                 | U-NII-3  | 132     | 5660            |                  | 18.00   | 17.01               | No       |
|-----------------|----------|---------|-----------------|------------------|---------|---------------------|----------|
|                 |          | 136     | 5680            |                  | 18.00   | 17.02               | No       |
|                 |          | 140     | 5700            |                  | 18.00   | 16.98               | No       |
|                 |          | 149     | 5745            |                  | 18.00   | 16.92               | No       |
|                 |          | 153     | 5765            |                  | 18.00   | 16.85               | No       |
|                 |          | 157     | 5785            |                  | 18.00   | 16.59               | No       |
|                 |          | 161     | 5805            |                  | 18.00   | 16.74               | No       |
| 5GHz            | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>40M | U-NII-1  | 38      | 5190            | MCS0             | 17.00   | 16.21               | No       |
|                 |          | 46      | 5230            |                  | 17.00   | 16.01               | No       |
|                 | U-NII-2A | 54      | 5270            |                  | 17.00   | 16.11               | No       |
|                 |          | 62      | 5310            |                  | 17.00   | 16.01               | No       |
|                 | U-NII-2C | 102     | 5510            |                  | 17.00   | 16.21               | No       |
|                 |          | 110     | 5550            |                  | 17.00   | 16.47               | No       |
|                 |          | 118     | 5590            |                  | 17.00   | 16.54               | No       |
|                 |          | 126     | 5630            |                  | 17.00   | 16.25               | No       |
|                 |          | 134     | 5670            |                  | 17.00   | 16.21               | No       |
|                 | U-NII-3  | 151     | 5755            |                  | 17.00   | 16.01               | No       |
|                 |          | 159     | 5795            |                  | 17.00   | 16.11               | No       |
| 5GHz            | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>80M | U-NII-1  | 42      | 5210            | MCS0             | 16.00   | 14.98               | No       |
|                 | U-NII-2A | 58      | 5290            |                  | 16.00   | 14.96               | No       |
|                 | U-NII-2C | 106     | 5530            |                  | 16.00   | 14.93               | No       |
|                 |          | 122     | 5610            |                  | 16.00   | 14.89               | No       |
|                 | U-NII-3  | 155     | 5775            |                  | 16.00   | 14.89               | No       |

| WWAN + WLAN 5G Ant7(Chain1) Receiver off |          |         |                 |                 |         |                     |          |
|------------------------------------------|----------|---------|-----------------|-----------------|---------|---------------------|----------|
| 5GHz                                     | mode     | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11a                                  | U-NII-1  | 36      | 5180            | 6               | 16.50   | 15.65               | No       |
|                                          |          | 40      | 5200            |                 | 16.50   | 15.54               | No       |
|                                          |          | 44      | 5220            |                 | 16.50   | 15.51               | No       |
|                                          |          | 48      | 5240            |                 | 16.50   | 15.70               | No       |
|                                          | U-NII-2A | 52      | 5260            |                 | 16.50   | 15.54               | No       |
|                                          |          | 56      | 5280            |                 | 16.50   | 15.71               | No       |
|                                          |          | 60      | 5300            |                 | 16.50   | 15.83               | No       |
|                                          |          | 64      | 5320            |                 | 16.50   | 15.82               | No       |
|                                          | U-NII-   | 100     | 5500            |                 | 16.50   | 15.56               | No       |
|                                          |          |         |                 |                 |         |                     |          |



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|              | 2C       | 104     | 5520            |                 | 16.50   | 15.90               | No       |
|--------------|----------|---------|-----------------|-----------------|---------|---------------------|----------|
|              |          | 108     | 5540            |                 | 16.50   | 15.68               | No       |
|              |          | 112     | 5560            |                 | 16.50   | 15.84               | No       |
|              |          | 116     | 5580            |                 | 16.50   | 15.86               | No       |
|              |          | 120     | 5600            |                 | 16.50   | 15.96               | No       |
|              |          | 124     | 5620            |                 | 16.50   | 16.17               | No       |
|              |          | 128     | 5640            |                 | 16.50   | 16.08               | No       |
|              |          | 132     | 5660            |                 | 16.50   | 16.06               | No       |
|              |          | 136     | 5680            |                 | 16.50   | 15.62               | No       |
|              |          | 140     | 5700            |                 | 16.50   | 15.48               | No       |
|              | U-NII-3  | 149     | 5745            |                 | 16.50   | 15.18               | No       |
|              |          | 153     | 5765            |                 | 16.50   | 15.17               | No       |
|              |          | 157     | 5785            |                 | 16.50   | 16.09               | Yes      |
|              |          | 161     | 5805            |                 | 16.50   | 15.95               | No       |
| 5GHz         | mode     | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-HT20 | U-NII-1  | 36      | 5180            | MCS0            | 15.50   | 14.45               | No       |
|              |          | 40      | 5200            |                 | 15.50   | 14.28               | No       |
|              |          | 44      | 5220            |                 | 15.50   | 14.54               | No       |
|              |          | 48      | 5240            |                 | 15.50   | 14.69               | No       |
|              | U-NII-2A | 52      | 5260            |                 | 15.50   | 14.40               | No       |
|              |          | 56      | 5280            |                 | 15.50   | 14.53               | No       |
|              |          | 60      | 5300            |                 | 15.50   | 14.34               | No       |
|              |          | 64      | 5320            |                 | 15.50   | 14.40               | No       |
|              | U-NII-2C | 100     | 5500            |                 | 15.50   | 14.45               | No       |
|              |          | 104     | 5520            |                 | 15.50   | 14.50               | No       |
|              |          | 108     | 5540            |                 | 15.50   | 14.57               | No       |
|              |          | 112     | 5560            |                 | 15.50   | 14.53               | No       |
|              |          | 116     | 5580            |                 | 15.50   | 14.60               | No       |
|              |          | 120     | 5600            |                 | 15.50   | 14.75               | No       |
|              |          | 124     | 5620            |                 | 15.50   | 14.54               | No       |
|              |          | 128     | 5640            |                 | 15.50   | 14.43               | No       |
|              |          | 132     | 5660            |                 | 15.50   | 14.32               | No       |
|              |          | 136     | 5680            |                 | 15.50   | 14.32               | No       |
|              |          | 140     | 5700            |                 | 15.50   | 14.29               | No       |
|              |          | 149     | 5745            |                 | 15.50   | 14.19               | No       |
|              | U-NII-3  | 153     | 5765            |                 | 15.50   | 14.24               | No       |
|              |          | 157     | 5785            |                 | 15.50   | 14.25               | No       |
|              |          | 161     | 5805            |                 | 15.50   | 14.58               | No       |
| 5GHz         | mode     | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |



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| 802.11n-HT40 | U-NII-1  | 38      | 5190            | MCS0            | 15.50   | 14.28               | No       |
|--------------|----------|---------|-----------------|-----------------|---------|---------------------|----------|
|              |          | 46      | 5230            |                 | 15.50   | 14.41               | No       |
|              | U-NII-2A | 54      | 5270            |                 | 15.50   | 14.44               | No       |
|              |          | 62      | 5310            |                 | 15.50   | 14.58               | No       |
|              | U-NII-2C | 102     | 5510            |                 | 15.50   | 14.69               | No       |
|              |          | 110     | 5550            |                 | 15.50   | 14.97               | No       |
|              |          | 118     | 5590            |                 | 15.50   | 15.11               | No       |
|              |          | 126     | 5630            |                 | 15.50   | 14.90               | No       |
|              |          | 134     | 5670            |                 | 15.50   | 14.83               | No       |
|              | U-NII-3  | 151     | 5755            |                 | 15.50   | 14.10               | No       |
|              |          | 159     | 5795            |                 | 15.50   | 13.99               | No       |
| 5GHz         | mode     | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac 20M | U-NII-1  | 36      | 5180            | MCS0            | 16.50   | 15.32               | No       |
|              |          | 40      | 5200            |                 | 16.50   | 15.38               | No       |
|              |          | 44      | 5220            |                 | 16.50   | 15.41               | No       |
|              |          | 48      | 5240            |                 | 16.50   | 15.58               | No       |
|              | U-NII-2A | 52      | 5260            |                 | 16.50   | 15.57               | No       |
|              |          | 56      | 5280            |                 | 16.50   | 15.50               | No       |
|              |          | 60      | 5300            |                 | 16.50   | 15.55               | No       |
|              |          | 64      | 5320            |                 | 16.50   | 15.51               | No       |
|              | U-NII-2C | 100     | 5500            |                 | 16.50   | 15.32               | No       |
|              |          | 104     | 5520            |                 | 16.50   | 15.60               | No       |
|              |          | 108     | 5540            |                 | 16.50   | 15.62               | No       |
|              |          | 112     | 5560            |                 | 16.50   | 15.64               | No       |
|              |          | 116     | 5580            |                 | 16.50   | 15.97               | No       |
|              |          | 120     | 5600            |                 | 16.50   | 16.01               | No       |
|              |          | 124     | 5620            |                 | 16.50   | 15.81               | No       |
|              |          | 128     | 5640            |                 | 16.50   | 15.90               | No       |
|              |          | 132     | 5660            |                 | 16.50   | 15.80               | No       |
|              |          | 136     | 5680            |                 | 16.50   | 15.76               | No       |
|              | U-NII-3  | 140     | 5700            |                 | 16.50   | 15.69               | No       |
|              |          | 149     | 5745            |                 | 16.50   | 15.49               | No       |
|              |          | 153     | 5765            |                 | 16.50   | 15.38               | No       |
|              |          | 157     | 5785            |                 | 16.50   | 15.55               | No       |
|              |          | 161     | 5805            |                 | 16.50   | 15.49               | No       |
|              |          |         |                 |                 |         |                     |          |
| 5GHz         | mode     | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac 40M | U-NII-1  | 38      | 5190            | MCS0            | 15.50   | 14.43               | No       |
|              |          | 46      | 5230            |                 | 15.50   | 14.22               | No       |
|              | U-NII-   | 54      | 5270            |                 | 15.50   | 14.07               | No       |



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|                 | 2A       | 62      | 5310            |                 | 15.50   | 14.66               | No       |
|-----------------|----------|---------|-----------------|-----------------|---------|---------------------|----------|
|                 | U-NII-2C | 102     | 5510            |                 | 15.50   | 14.76               | No       |
|                 |          | 110     | 5550            |                 | 15.50   | 14.79               | No       |
|                 |          | 118     | 5590            |                 | 15.50   | 14.88               | No       |
|                 |          | 126     | 5630            |                 | 15.50   | 14.95               | No       |
|                 |          | 134     | 5670            |                 | 15.50   | 14.91               | No       |
|                 | U-NII-3  | 151     | 5755            |                 | 15.50   | 14.09               | No       |
|                 |          | 159     | 5795            |                 | 15.50   | 14.20               | No       |
| 5GHz            | mode     | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>80M | U-NII-1  | 42      | 5210            | MCS0            | 14.00   | 12.95               | No       |
|                 | U-NII-2A | 58      | 5290            |                 | 14.00   | 13.05               | No       |
|                 | U-NII-2C | 106     | 5530            |                 | 14.00   | 13.21               | No       |
|                 |          | 122     | 5610            |                 | 14.00   | 13.60               | No       |
|                 | U-NII-3  | 155     | 5775            |                 | 14.00   | 13.34               | No       |

| WiFi 5G Ant7(Chain1) Receiver on |          |         |                 |                  |         |                     |          |
|----------------------------------|----------|---------|-----------------|------------------|---------|---------------------|----------|
| 5GHz                             | mode     | Channel | Frequency (MHz) | Data Rate (Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11a                          | U-NII-1  | 36      | 5180            | 6                | 13.50   | 12.81               | No       |
|                                  |          | 40      | 5200            |                  | 13.50   | 12.69               | No       |
|                                  |          | 44      | 5220            |                  | 13.50   | 12.83               | No       |
|                                  |          | 48      | 5240            |                  | 13.50   | 12.87               | No       |
|                                  | U-NII-2A | 52      | 5260            |                  | 13.50   | 12.97               | Yes      |
|                                  |          | 56      | 5280            |                  | 13.50   | 12.91               | No       |
|                                  |          | 60      | 5300            |                  | 13.50   | 12.96               | No       |
|                                  |          | 64      | 5320            |                  | 13.50   | 12.96               | No       |
|                                  | U-NII-2C | 100     | 5500            |                  | 13.50   | 12.85               | No       |
|                                  |          | 104     | 5520            |                  | 13.50   | 13.08               | No       |
|                                  |          | 108     | 5540            |                  | 13.50   | 13.03               | No       |
|                                  |          | 112     | 5560            |                  | 13.50   | 13.18               | No       |
|                                  |          | 116     | 5580            |                  | 13.50   | 13.15               | No       |
|                                  |          | 120     | 5600            |                  | 13.50   | 13.41               | Yes      |
|                                  |          | 124     | 5620            |                  | 13.50   | 13.33               | No       |
|                                  |          | 128     | 5640            |                  | 13.50   | 13.39               | No       |
|                                  |          | 132     | 5660            |                  | 13.50   | 13.28               | No       |
|                                  |          | 136     | 5680            |                  | 13.50   | 12.88               | No       |
|                                  |          | 140     | 5700            |                  | 13.50   | 12.83               | No       |
|                                  | U-NII-3  | 149     | 5745            |                  | 13.50   | 12.52               | No       |
|                                  |          | 153     | 5765            |                  | 13.50   | 12.47               | No       |
|                                  |          | 157     | 5785            |                  | 13.50   | 13.30               | Yes      |



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|              |          |         |                 |                 |         |                     |          |
|--------------|----------|---------|-----------------|-----------------|---------|---------------------|----------|
|              |          | 161     | 5805            |                 | 13.50   | 13.26               | No       |
| 5GHz         | mode     | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-HT20 | U-NII-1  | 36      | 5180            | MCS0            | 12.50   | 11.66               | No       |
|              |          | 40      | 5200            |                 | 12.50   | 11.63               | No       |
|              |          | 44      | 5220            |                 | 12.50   | 11.78               | No       |
|              |          | 48      | 5240            |                 | 12.50   | 11.84               | No       |
|              | U-NII-2A | 52      | 5260            |                 | 12.50   | 11.74               | No       |
|              |          | 56      | 5280            |                 | 12.50   | 11.68               | No       |
|              |          | 60      | 5300            |                 | 12.50   | 11.62               | No       |
|              |          | 64      | 5320            |                 | 12.50   | 11.68               | No       |
|              | U-NII-2C | 100     | 5500            |                 | 12.50   | 11.68               | No       |
|              |          | 104     | 5520            |                 | 12.50   | 11.71               | No       |
|              |          | 108     | 5540            |                 | 12.50   | 11.75               | No       |
|              |          | 112     | 5560            |                 | 12.50   | 11.86               | No       |
|              |          | 116     | 5580            |                 | 12.50   | 11.93               | No       |
|              |          | 120     | 5600            |                 | 12.50   | 12.02               | No       |
|              |          | 124     | 5620            |                 | 12.50   | 11.86               | No       |
|              |          | 128     | 5640            |                 | 12.50   | 11.75               | No       |
|              |          | 132     | 5660            |                 | 12.50   | 11.64               | No       |
|              |          | 136     | 5680            |                 | 12.50   | 11.63               | No       |
|              |          | 140     | 5700            |                 | 12.50   | 11.61               | No       |
|              | U-NII-3  | 149     | 5745            |                 | 12.50   | 11.43               | No       |
|              |          | 153     | 5765            |                 | 12.50   | 11.51               | No       |
|              |          | 157     | 5785            |                 | 12.50   | 11.58               | No       |
|              |          | 161     | 5805            |                 | 12.50   | 11.86               | No       |
| 5GHz         | mode     | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-HT40 | U-NII-1  | 38      | 5190            | MCS0            | 12.50   | 11.62               | No       |
|              |          | 46      | 5230            |                 | 12.50   | 11.71               | No       |
|              | U-NII-2A | 54      | 5270            |                 | 12.50   | 11.78               | No       |
|              |          | 62      | 5310            |                 | 12.50   | 11.86               | No       |
|              | U-NII-2C | 102     | 5510            |                 | 12.50   | 12.01               | No       |
|              |          | 110     | 5550            |                 | 12.50   | 12.14               | No       |
|              |          | 118     | 5590            |                 | 12.50   | 12.28               | No       |
|              |          | 126     | 5630            |                 | 12.50   | 12.16               | No       |
|              |          | 134     | 5670            |                 | 12.50   | 12.01               | No       |
|              | U-NII-3  | 151     | 5755            |                 | 12.50   | 11.43               | No       |
|              |          | 159     | 5795            |                 | 12.50   | 11.34               | No       |
| 5GHz         | mode     | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |



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| 802.11ac<br>20M | U-NII-1  | 36      | 5180            | MCS0            | 13.50   | 12.62               | No       |
|-----------------|----------|---------|-----------------|-----------------|---------|---------------------|----------|
|                 |          | 40      | 5200            |                 | 13.50   | 12.54               | No       |
|                 |          | 44      | 5220            |                 | 13.50   | 12.68               | No       |
|                 |          | 48      | 5240            |                 | 13.50   | 12.85               | No       |
|                 | U-NII-2A | 52      | 5260            |                 | 13.50   | 12.74               | No       |
|                 |          | 56      | 5280            |                 | 13.50   | 12.65               | No       |
|                 |          | 60      | 5300            |                 | 13.50   | 12.71               | No       |
|                 |          | 64      | 5320            |                 | 13.50   | 12.77               | No       |
|                 | U-NII-2C | 100     | 5500            |                 | 13.50   | 12.64               | No       |
|                 |          | 104     | 5520            |                 | 13.50   | 12.75               | No       |
|                 |          | 108     | 5540            |                 | 13.50   | 12.82               | No       |
|                 |          | 112     | 5560            |                 | 13.50   | 12.98               | No       |
|                 |          | 116     | 5580            |                 | 13.50   | 13.15               | No       |
|                 |          | 120     | 5600            |                 | 13.50   | 13.24               | No       |
|                 |          | 124     | 5620            |                 | 13.50   | 13.12               | No       |
|                 |          | 128     | 5640            |                 | 13.50   | 13.15               | No       |
|                 |          | 132     | 5660            |                 | 13.50   | 13.12               | No       |
|                 |          | 136     | 5680            |                 | 13.50   | 12.98               | No       |
|                 |          | 140     | 5700            |                 | 13.50   | 12.86               | No       |
|                 |          | 149     | 5745            |                 | 13.50   | 12.77               | No       |
|                 | U-NII-3  | 153     | 5765            |                 | 13.50   | 12.71               | No       |
|                 |          | 157     | 5785            |                 | 13.50   | 12.75               | No       |
|                 |          | 161     | 5805            |                 | 13.50   | 12.69               | No       |
|                 |          |         |                 |                 |         |                     |          |
| 5GHz            | mode     | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>40M | U-NII-1  | 38      | 5190            | MCS0            | 12.50   | 11.58               | No       |
|                 |          | 46      | 5230            |                 | 12.50   | 11.51               | No       |
|                 | U-NII-2A | 54      | 5270            |                 | 12.50   | 11.42               | No       |
|                 |          | 62      | 5310            |                 | 12.50   | 11.83               | No       |
|                 | U-NII-2C | 102     | 5510            |                 | 12.50   | 12.04               | No       |
|                 |          | 110     | 5550            |                 | 12.50   | 12.13               | No       |
|                 |          | 118     | 5590            |                 | 12.50   | 12.23               | No       |
|                 |          | 126     | 5630            |                 | 12.50   | 12.15               | No       |
|                 |          | 134     | 5670            |                 | 12.50   | 12.06               | No       |
|                 |          | 151     | 5755            |                 | 12.50   | 11.41               | No       |
|                 | U-NII-3  | 159     | 5795            |                 | 12.50   | 11.35               | No       |
|                 |          |         |                 |                 |         |                     |          |
| 5GHz            | mode     | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>80M | U-NII-1  | 42      | 5210            | MCS0            | 11.00   | 10.21               | No       |
|                 | U-NII-2A | 58      | 5290            |                 | 11.00   | 10.24               | No       |
|                 | U-NII-   | 106     | 5530            |                 | 11.00   | 10.45               | No       |



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|  |         |     |      |       |       |    |
|--|---------|-----|------|-------|-------|----|
|  | 2C      | 122 | 5610 | 11.00 | 10.76 | No |
|  | U-NII-3 | 155 | 5775 | 11.00 | 10.53 | No |

| WWAN + WLAN 5G Ant7(Chain1) Receiver on |          |         |                 |                 |         |                     |          |
|-----------------------------------------|----------|---------|-----------------|-----------------|---------|---------------------|----------|
| 5GHz                                    | mode     | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11a                                 | U-NII-1  | 36      | 5180            | 6               | 11.50   | 10.76               | No       |
|                                         |          | 40      | 5200            |                 | 11.50   | 10.59               | No       |
|                                         |          | 44      | 5220            |                 | 11.50   | 10.86               | No       |
|                                         |          | 48      | 5240            |                 | 11.50   | 10.81               | No       |
|                                         | U-NII-2A | 52      | 5260            |                 | 11.50   | 10.85               | No       |
|                                         |          | 56      | 5280            |                 | 11.50   | 10.91               | No       |
|                                         |          | 60      | 5300            |                 | 11.50   | <b>10.99</b>        | Yes      |
|                                         |          | 64      | 5320            |                 | 11.50   | 10.90               | No       |
|                                         | U-NII-2C | 100     | 5500            |                 | 11.50   | 10.92               | No       |
|                                         |          | 104     | 5520            |                 | 11.50   | 10.92               | No       |
|                                         |          | 108     | 5540            |                 | 11.50   | 11.02               | No       |
|                                         |          | 112     | 5560            |                 | 11.50   | 11.05               | No       |
|                                         |          | 116     | 5580            |                 | 11.50   | 11.20               | No       |
|                                         |          | 120     | 5600            |                 | 11.50   | 11.40               | No       |
|                                         |          | 124     | 5620            |                 | 11.50   | 11.22               | No       |
|                                         |          | 128     | 5640            |                 | 11.50   | 11.26               | No       |
|                                         |          | 132     | 5660            |                 | 11.50   | 11.21               | No       |
|                                         |          | 136     | 5680            |                 | 11.50   | 11.05               | No       |
|                                         |          | 140     | 5700            |                 | 11.50   | 10.89               | No       |
|                                         | U-NII-3  | 149     | 5745            |                 | 11.50   | 10.60               | No       |
|                                         |          | 153     | 5765            |                 | 11.50   | 10.58               | No       |
|                                         |          | 157     | 5785            |                 | 11.50   | 10.79               | No       |
|                                         |          | 161     | 5805            |                 | 11.50   | 10.86               | No       |
| 5GHz                                    | mode     | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-HT20                            | U-NII-1  | 36      | 5180            | MCS0            | 10.50   | 9.61                | No       |
|                                         |          | 40      | 5200            |                 | 10.50   | 9.58                | No       |
|                                         |          | 44      | 5220            |                 | 10.50   | 9.86                | No       |
|                                         |          | 48      | 5240            |                 | 10.50   | 9.87                | No       |
|                                         | U-NII-2A | 52      | 5260            |                 | 10.50   | 9.73                | No       |
|                                         |          | 56      | 5280            |                 | 10.50   | 9.73                | No       |
|                                         |          | 60      | 5300            |                 | 10.50   | 9.58                | No       |
|                                         |          | 64      | 5320            |                 | 10.50   | 9.59                | No       |
|                                         | U-NII-2C | 100     | 5500            |                 | 10.50   | 9.74                | No       |
|                                         |          | 104     | 5520            |                 | 10.50   | 9.68                | No       |
|                                         |          | 108     | 5540            |                 | 10.50   | 9.83                | No       |
|                                         |          | 112     | 5560            |                 | 10.50   | 9.87                | No       |



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|              |          | 116     | 5580            |                 | 10.50   | 9.90                | No       |
|--------------|----------|---------|-----------------|-----------------|---------|---------------------|----------|
|              |          | 120     | 5600            |                 | 10.50   | 10.01               | No       |
|              |          | 124     | 5620            |                 | 10.50   | 9.80                | No       |
|              |          | 128     | 5640            |                 | 10.50   | 9.84                | No       |
|              |          | 132     | 5660            |                 | 10.50   | 9.58                | No       |
|              |          | 136     | 5680            |                 | 10.50   | 9.70                | No       |
|              |          | 140     | 5700            |                 | 10.50   | 9.66                | No       |
|              | U-NII-3  | 149     | 5745            |                 | 10.50   | 9.38                | No       |
|              |          | 153     | 5765            |                 | 10.50   | 9.55                | No       |
|              |          | 157     | 5785            |                 | 10.50   | 9.48                | No       |
|              |          | 161     | 5805            |                 | 10.50   | 9.86                | No       |
| 5GHz         | mode     | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-HT40 | U-NII-1  | 38      | 5190            | MCS0            | 10.50   | 9.51                | No       |
|              |          | 46      | 5230            |                 | 10.50   | 9.66                | No       |
|              | U-NII-2A | 54      | 5270            |                 | 10.50   | 9.72                | No       |
|              |          | 62      | 5310            |                 | 10.50   | 9.86                | No       |
|              | U-NII-2C | 102     | 5510            |                 | 10.50   | 9.97                | No       |
|              |          | 110     | 5550            |                 | 10.50   | 10.08               | No       |
|              |          | 118     | 5590            |                 | 10.50   | 10.32               | No       |
|              |          | 126     | 5630            |                 | 10.50   | 10.05               | No       |
|              |          | 134     | 5670            |                 | 10.50   | 9.96                | No       |
|              | U-NII-3  | 151     | 5755            |                 | 10.50   | 9.51                | No       |
|              |          | 159     | 5795            |                 | 10.50   | 9.35                | No       |
| 5GHz         | mode     | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac 20M | U-NII-1  | 36      | 5180            | MCS0            | 11.50   | 10.66               | No       |
|              |          | 40      | 5200            |                 | 11.50   | 10.60               | No       |
|              |          | 44      | 5220            |                 | 11.50   | 10.62               | No       |
|              |          | 48      | 5240            |                 | 11.50   | 10.94               | No       |
|              | U-NII-2A | 52      | 5260            |                 | 11.50   | 10.82               | No       |
|              |          | 56      | 5280            |                 | 11.50   | 10.62               | No       |
|              |          | 60      | 5300            |                 | 11.50   | 10.82               | No       |
|              |          | 64      | 5320            |                 | 11.50   | 10.77               | No       |
|              | U-NII-2C | 100     | 5500            |                 | 11.50   | 10.55               | No       |
|              |          | 104     | 5520            |                 | 11.50   | 10.70               | No       |
|              |          | 108     | 5540            |                 | 11.50   | 10.85               | No       |
|              |          | 112     | 5560            |                 | 11.50   | 10.95               | No       |
|              |          | 116     | 5580            |                 | 11.50   | 11.11               | No       |
|              |          | 120     | 5600            |                 | 11.50   | 11.25               | No       |
|              |          | 124     | 5620            |                 | 11.50   | 11.15               | No       |
|              |          | 128     | 5640            |                 | 11.50   | 11.08               | No       |
|              |          | 132     | 5660            |                 | 11.50   | 11.09               | No       |



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|                 |          |         |                 |                 |         |                     |          |
|-----------------|----------|---------|-----------------|-----------------|---------|---------------------|----------|
|                 | U-NII-3  | 136     | 5680            |                 | 11.50   | 10.84               | No       |
|                 |          | 140     | 5700            |                 | 11.50   | 10.75               | No       |
|                 |          | 149     | 5745            |                 | 11.50   | 10.79               | No       |
|                 |          | 153     | 5765            |                 | 11.50   | 10.76               | No       |
|                 |          | 157     | 5785            |                 | 11.50   | 10.76               | No       |
|                 |          | 161     | 5805            |                 | 11.50   | 10.70               | No       |
| 5GHz            | mode     | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>40M | U-NII-1  | 38      | 5190            | MCS0            | 10.50   | 9.48                | No       |
|                 |          | 46      | 5230            |                 | 10.50   | 9.53                | No       |
|                 | U-NII-2A | 54      | 5270            |                 | 10.50   | 9.55                | No       |
|                 |          | 62      | 5310            |                 | 10.50   | 9.80                | No       |
|                 | U-NII-2C | 102     | 5510            |                 | 10.50   | 10.05               | No       |
|                 |          | 110     | 5550            |                 | 10.50   | 10.14               | No       |
|                 |          | 118     | 5590            |                 | 10.50   | 10.24               | No       |
|                 |          | 126     | 5630            |                 | 10.50   | 10.17               | No       |
|                 |          | 134     | 5670            |                 | 10.50   | 10.01               | No       |
|                 | U-NII-3  | 151     | 5755            |                 | 10.50   | 9.51                | No       |
|                 |          | 159     | 5795            |                 | 10.50   | 9.28                | No       |
| 5GHz            | mode     | Channel | Frequency (MHz) | Data Rate(Mbps) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>80M | U-NII-1  | 42      | 5210            | MCS0            | 9.00    | 8.14                | No       |
|                 | U-NII-2A | 58      | 5290            |                 | 9.00    | 8.18                | No       |
|                 | U-NII-2C | 106     | 5530            |                 | 9.00    | 8.42                | No       |
|                 |          | 122     | 5610            |                 | 9.00    | 8.71                | No       |
|                 | U-NII-3  | 155     | 5775            |                 | 9.00    | 8.51                | No       |



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| WiFi 5G MIMO Receiver off |          |         |                 |         |                     |          |
|---------------------------|----------|---------|-----------------|---------|---------------------|----------|
| 5GHz                      | mode     | Channel | Frequency (MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11a                   | U-NII-1  | 36      | 5180            | 21.00   | <b>19.83</b>        | Yes      |
|                           |          | 40      | 5200            | 21.00   | 19.57               | No       |
|                           |          | 44      | 5220            | 21.00   | 19.72               | No       |
|                           |          | 48      | 5240            | 21.00   | 19.72               | No       |
|                           | U-NII-2A | 52      | 5260            | 21.00   | <b>19.98</b>        | Yes      |
|                           |          | 56      | 5280            | 21.00   | 19.90               | No       |
|                           |          | 60      | 5300            | 21.00   | 19.80               | No       |
|                           |          | 64      | 5320            | 21.00   | 19.73               | No       |
|                           | U-NII-2C | 100     | 5500            | 21.00   | 19.84               | Yes      |
|                           |          | 104     | 5520            | 21.00   | 19.66               | No       |
|                           |          | 108     | 5540            | 21.00   | 19.70               | No       |
|                           |          | 112     | 5560            | 21.00   | 19.33               | No       |
|                           |          | 116     | 5580            | 21.00   | 19.59               | No       |
|                           |          | 120     | 5600            | 21.00   | <b>20.03</b>        | Yes      |
|                           |          | 124     | 5620            | 21.00   | 19.69               | No       |
|                           |          | 128     | 5640            | 21.00   | 19.54               | No       |
|                           |          | 132     | 5660            | 21.00   | 19.71               | No       |
|                           |          | 136     | 5680            | 21.00   | 19.50               | No       |
|                           | U-NII-3  | 140     | 5700            | 21.00   | 19.53               | No       |
|                           |          | 149     | 5745            | 21.00   | 20.13               | Yes      |
|                           |          | 153     | 5765            | 21.00   | 20.03               | No       |
|                           |          | 157     | 5785            | 21.00   | <b>20.39</b>        | Yes      |
|                           |          | 161     | 5805            | 21.00   | 19.95               | No       |
| 5GHz                      | mode     | Channel | Frequency(MHz)  | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-HT20              | U-NII-1  | 36      | 5180            | 20.00   | 18.60               | No       |
|                           |          | 40      | 5200            | 20.00   | 18.52               | No       |
|                           |          | 44      | 5220            | 20.00   | 18.70               | No       |
|                           |          | 48      | 5240            | 20.00   | 18.63               | No       |
|                           | U-NII-2A | 52      | 5260            | 20.00   | 18.86               | No       |
|                           |          | 56      | 5280            | 20.00   | 18.90               | No       |
|                           |          | 60      | 5300            | 20.00   | 18.79               | No       |
|                           |          | 64      | 5320            | 20.00   | 18.68               | No       |
|                           | U-NII-2C | 100     | 5500            | 20.00   | 18.79               | No       |
|                           |          | 104     | 5520            | 20.00   | 18.62               | No       |
|                           |          | 108     | 5540            | 20.00   | 18.44               | No       |
|                           |          | 112     | 5560            | 20.00   | 18.38               | No       |
|                           |          | 116     | 5580            | 20.00   | 18.50               | No       |
|                           |          | 120     | 5600            | 20.00   | 18.57               | No       |



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|                  |          |         |                |         |                     |          |
|------------------|----------|---------|----------------|---------|---------------------|----------|
|                  |          | 124     | 5620           | 20.00   | 18.69               | No       |
|                  |          | 128     | 5640           | 20.00   | 18.60               | No       |
|                  |          | 132     | 5660           | 20.00   | 18.63               | No       |
|                  |          | 136     | 5680           | 20.00   | 18.43               | No       |
|                  |          | 140     | 5700           | 20.00   | 18.56               | No       |
|                  | U-NII-3  | 149     | 5745           | 20.00   | 18.43               | No       |
|                  |          | 153     | 5765           | 20.00   | 18.39               | No       |
|                  |          | 157     | 5785           | 20.00   | 18.58               | No       |
|                  |          | 161     | 5805           | 20.00   | 18.55               | No       |
|                  |          |         |                |         |                     |          |
|                  |          |         |                |         |                     |          |
|                  |          |         |                |         |                     |          |
| 5GHz             | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-<br>HT40 | U-NII-1  | 38      | 5190           | 20.00   | 18.62               | No       |
|                  |          | 46      | 5230           | 20.00   | 18.56               | No       |
|                  | U-NII-2A | 54      | 5270           | 20.00   | 18.47               | No       |
|                  |          | 62      | 5310           | 20.00   | 18.40               | No       |
|                  | U-NII-2C | 102     | 5510           | 20.00   | 18.20               | No       |
|                  |          | 110     | 5550           | 20.00   | 18.38               | No       |
|                  |          | 118     | 5590           | 20.00   | 18.45               | No       |
|                  |          | 126     | 5630           | 20.00   | 18.31               | No       |
|                  |          | 134     | 5670           | 20.00   | 18.35               | No       |
|                  | U-NII-3  | 151     | 5755           | 20.00   | 18.29               | No       |
|                  |          | 159     | 5795           | 20.00   | 18.22               | No       |
| 5GHz             | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>20M  | U-NII-1  | 36      | 5180           | 21.00   | 19.85               | No       |
|                  |          | 40      | 5200           | 21.00   | 19.80               | No       |
|                  |          | 44      | 5220           | 21.00   | 19.76               | No       |
|                  |          | 48      | 5240           | 21.00   | 19.85               | No       |
|                  | U-NII-2A | 52      | 5260           | 21.00   | 19.89               | No       |
|                  |          | 56      | 5280           | 21.00   | 19.61               | No       |
|                  |          | 60      | 5300           | 21.00   | 19.69               | No       |
|                  |          | 64      | 5320           | 21.00   | 19.75               | No       |
|                  | U-NII-2C | 100     | 5500           | 21.00   | 19.89               | No       |
|                  |          | 104     | 5520           | 21.00   | 19.80               | No       |
|                  |          | 108     | 5540           | 21.00   | 19.77               | No       |
|                  |          | 112     | 5560           | 21.00   | 19.63               | No       |
|                  |          | 116     | 5580           | 21.00   | 19.60               | No       |
|                  |          | 120     | 5600           | 21.00   | 19.70               | No       |
|                  |          | 124     | 5620           | 21.00   | 19.54               | No       |
|                  |          | 128     | 5640           | 21.00   | 19.66               | No       |
|                  |          | 132     | 5660           | 21.00   | 19.74               | No       |
|                  |          | 136     | 5680           | 21.00   | 19.79               | No       |
|                  |          | 140     | 5700           | 21.00   | 19.79               | No       |



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|                 |          |         |                |         |                     |          |
|-----------------|----------|---------|----------------|---------|---------------------|----------|
|                 |          | 149     | 5745           | 21.00   | 19.45               | No       |
|                 |          | 153     | 5765           | 21.00   | 19.35               | No       |
|                 |          | 157     | 5785           | 21.00   | 19.33               | No       |
|                 |          | 161     | 5805           | 21.00   | 19.40               | No       |
| 5GHz            | mode     | Channel | Frequency(MHz) | 21      | Average Power (dBm) | SAR Test |
| 802.11ac<br>40M | U-NII-1  | 38      | 5190           | 20      | 18.48               | No       |
|                 |          | 46      | 5230           | 20      | 18.65               | No       |
|                 | U-NII-2A | 54      | 5270           | 20      | 18.58               | No       |
|                 |          | 62      | 5310           | 20      | 18.56               | No       |
|                 | U-NII-2C | 102     | 5510           | 20      | 18.93               | No       |
|                 |          | 110     | 5550           | 20      | 18.89               | No       |
|                 |          | 118     | 5590           | 20      | 18.85               | No       |
|                 |          | 126     | 5630           | 20      | 18.75               | No       |
|                 |          | 134     | 5670           | 20      | 18.67               | No       |
|                 | U-NII-3  | 151     | 5755           | 20      | 18.70               | No       |
|                 |          | 159     | 5795           | 20      | 18.79               | No       |
| 5GHz            | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>80M | U-NII-1  | 42      | 5210           | 19.00   | 17.43               | No       |
|                 | U-NII-2A | 58      | 5290           | 19.00   | 17.32               | No       |
|                 | U-NII-2C | 106     | 5530           | 19.00   | 17.38               | No       |
|                 |          | 122     | 5610           | 19.00   | 17.43               | No       |
|                 | U-NII-3  | 155     | 5775           | 19.00   | 17.29               | No       |

| WWAN + WiFi 5G MIMO Receiver off |          |         |                |         |                     |          |
|----------------------------------|----------|---------|----------------|---------|---------------------|----------|
| 5GHz                             | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11a                          | U-NII-1  | 36      | 5180           | 19.50   | 17.91               | No       |
|                                  |          | 40      | 5200           | 19.50   | 17.92               | No       |
|                                  |          | 44      | 5220           | 19.50   | 18.00               | No       |
|                                  |          | 48      | 5240           | 19.50   | 18.09               | No       |
|                                  | U-NII-2A | 52      | 5260           | 19.50   | 18.09               | No       |
|                                  |          | 56      | 5280           | 19.50   | 18.23               | No       |
|                                  |          | 60      | 5300           | 19.50   | 18.33               | No       |
|                                  |          | 64      | 5320           | 19.50   | 18.27               | No       |
|                                  | U-NII-2C | 100     | 5500           | 19.50   | 18.32               | No       |
|                                  |          | 104     | 5520           | 19.50   | 18.37               | No       |
|                                  |          | 108     | 5540           | 19.50   | 18.41               | No       |
|                                  |          | 112     | 5560           | 19.50   | 18.45               | No       |
|                                  |          | 116     | 5580           | 19.50   | 18.39               | No       |
|                                  |          | 120     | 5600           | 19.50   | 18.16               | No       |
|                                  |          | 124     | 5620           | 19.50   | 18.52               | No       |



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|                  |          |         |                |         |                     |          |
|------------------|----------|---------|----------------|---------|---------------------|----------|
|                  |          | 128     | 5640           | 19.50   | 18.56               | No       |
|                  |          | 132     | 5660           | 19.50   | 18.29               | No       |
|                  |          | 136     | 5680           | 19.50   | 18.23               | No       |
|                  |          | 140     | 5700           | 19.50   | 18.09               | No       |
|                  | U-NII-3  | 149     | 5745           | 19.50   | 17.64               | No       |
|                  |          | 153     | 5765           | 19.50   | 17.63               | No       |
|                  |          | 157     | 5785           | 19.50   | <b>18.25</b>        | Yes      |
|                  |          | 161     | 5805           | 19.50   | 18.05               | No       |
| 5GHz             | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-<br>HT20 | U-NII-1  | 36      | 5180           | 18.50   | 17.05               | No       |
|                  |          | 40      | 5200           | 18.50   | 17.01               | No       |
|                  |          | 44      | 5220           | 18.50   | 17.05               | No       |
|                  |          | 48      | 5240           | 18.50   | 17.16               | No       |
|                  | U-NII-2A | 52      | 5260           | 18.50   | 17.26               | No       |
|                  |          | 56      | 5280           | 18.50   | 17.05               | No       |
|                  |          | 60      | 5300           | 18.50   | 17.18               | No       |
|                  |          | 64      | 5320           | 18.50   | 17.11               | No       |
|                  | U-NII-2C | 100     | 5500           | 18.50   | 17.20               | No       |
|                  |          | 104     | 5520           | 18.50   | 17.04               | No       |
|                  |          | 108     | 5540           | 18.50   | 17.21               | No       |
|                  |          | 112     | 5560           | 18.50   | 17.14               | No       |
|                  |          | 116     | 5580           | 18.50   | 17.18               | No       |
|                  |          | 120     | 5600           | 18.50   | 17.38               | No       |
|                  |          | 124     | 5620           | 18.50   | 17.32               | No       |
|                  |          | 128     | 5640           | 18.50   | 17.29               | No       |
|                  |          | 132     | 5660           | 18.50   | 17.19               | No       |
|                  |          | 136     | 5680           | 18.50   | 17.13               | No       |
|                  |          | 140     | 5700           | 18.50   | 16.90               | No       |
|                  | U-NII-3  | 149     | 5745           | 18.50   | 16.83               | No       |
|                  |          | 153     | 5765           | 18.50   | 16.53               | No       |
|                  |          | 157     | 5785           | 18.50   | 16.90               | No       |
|                  |          | 161     | 5805           | 18.50   | 17.08               | No       |
| 5GHz             | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-<br>HT40 | U-NII-1  | 38      | 5190           | 18.50   | 16.99               | No       |
|                  |          | 46      | 5230           | 18.50   | 17.02               | No       |
|                  | U-NII-2A | 54      | 5270           | 18.50   | 17.07               | No       |
|                  |          | 62      | 5310           | 18.50   | 17.11               | No       |
|                  | U-NII-2C | 102     | 5510           | 18.50   | 17.17               | No       |
|                  |          | 110     | 5550           | 18.50   | 17.13               | No       |
|                  |          | 118     | 5590           | 18.50   | 17.19               | No       |
|                  |          | 126     | 5630           | 18.50   | 17.19               | No       |



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|                 |          |         |                |         |                     |          |
|-----------------|----------|---------|----------------|---------|---------------------|----------|
|                 | U-NII-3  | 134     | 5670           | 18.50   | 17.31               | No       |
|                 |          | 151     | 5755           | 18.50   | 17.32               | No       |
|                 |          | 159     | 5795           | 18.50   | 17.45               | No       |
| 5GHz            | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>20M | U-NII-1  | 36      | 5180           | 19.50   | 18.00               | No       |
|                 |          | 40      | 5200           | 19.50   | 18.25               | No       |
|                 |          | 44      | 5220           | 19.50   | 18.11               | No       |
|                 |          | 48      | 5240           | 19.50   | 18.08               | No       |
|                 | U-NII-2A | 52      | 5260           | 19.50   | 18.22               | No       |
|                 |          | 56      | 5280           | 19.50   | 18.22               | No       |
|                 |          | 60      | 5300           | 19.50   | 18.11               | No       |
|                 |          | 64      | 5320           | 19.50   | 18.04               | No       |
|                 | U-NII-2C | 100     | 5500           | 19.50   | 18.09               | No       |
|                 |          | 104     | 5520           | 19.50   | 17.95               | No       |
|                 |          | 108     | 5540           | 19.50   | 17.95               | No       |
|                 |          | 112     | 5560           | 19.50   | 18.23               | No       |
|                 |          | 116     | 5580           | 19.50   | 18.15               | No       |
|                 |          | 120     | 5600           | 19.50   | 18.17               | No       |
|                 |          | 124     | 5620           | 19.50   | 18.36               | No       |
|                 |          | 128     | 5640           | 19.50   | 18.26               | No       |
|                 |          | 132     | 5660           | 19.50   | 18.11               | No       |
|                 |          | 136     | 5680           | 19.50   | 18.14               | No       |
|                 |          | 140     | 5700           | 19.50   | 17.98               | No       |
|                 |          | 149     | 5745           | 19.50   | 17.55               | No       |
|                 | U-NII-3  | 153     | 5765           | 19.50   | 17.58               | No       |
|                 |          | 157     | 5785           | 19.50   | 17.68               | No       |
|                 |          | 161     | 5805           | 19.50   | 17.73               | No       |
| 5GHz            | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>40M | U-NII-1  | 38      | 5190           | 18.50   | 16.99               | No       |
|                 |          | 46      | 5230           | 18.50   | 17.03               | No       |
|                 | U-NII-2A | 54      | 5270           | 18.50   | 17.09               | No       |
|                 |          | 62      | 5310           | 18.50   | 17.09               | No       |
|                 | U-NII-2C | 102     | 5510           | 18.50   | 17.29               | No       |
|                 |          | 110     | 5550           | 18.50   | 17.23               | No       |
|                 |          | 118     | 5590           | 18.50   | 17.36               | No       |
|                 |          | 126     | 5630           | 18.50   | 17.26               | No       |
|                 |          | 134     | 5670           | 18.50   | 17.37               | No       |
|                 |          | 151     | 5755           | 18.50   | 17.30               | No       |
|                 | U-NII-3  | 159     | 5795           | 18.50   | 17.25               | No       |
| 5GHz            | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |



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|                 |          |     |      |       |       |    |
|-----------------|----------|-----|------|-------|-------|----|
| 802.11ac<br>80M | U-NII-1  | 42  | 5210 | 17.00 | 15.64 | No |
|                 | U-NII-2A | 58  | 5290 | 17.00 | 15.82 | No |
|                 | U-NII-2C | 106 | 5530 | 17.00 | 15.77 | No |
|                 |          | 122 | 5610 | 17.00 | 15.65 | No |
|                 | U-NII-3  | 155 | 5775 | 17.00 | 15.66 | No |

| WiFi 5G MIMO Receiver on |          |         |                |         |                     |          |
|--------------------------|----------|---------|----------------|---------|---------------------|----------|
| 5GHz                     | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11a                  | U-NII-1  | 36      | 5180           | 16.50   | 15.32               | No       |
|                          |          | 40      | 5200           | 16.50   | 15.38               | No       |
|                          |          | 44      | 5220           | 16.50   | 15.45               | No       |
|                          |          | 48      | 5240           | 16.50   | 15.42               | No       |
|                          | U-NII-2A | 52      | 5260           | 16.50   | <b>15.89</b>        | Yes      |
|                          |          | 56      | 5280           | 16.50   | 15.65               | No       |
|                          |          | 60      | 5300           | 16.50   | <b>15.66</b>        | Yes      |
|                          |          | 64      | 5320           | 16.50   | 15.39               | No       |
|                          | U-NII-2C | 100     | 5500           | 16.50   | 15.52               | No       |
|                          |          | 104     | 5520           | 16.50   | 15.54               | No       |
|                          |          | 108     | 5540           | 16.50   | 15.54               | No       |
|                          |          | 112     | 5560           | 16.50   | 15.64               | No       |
|                          |          | 116     | 5580           | 16.50   | 15.60               | No       |
|                          |          | 120     | 5600           | 16.50   | <b>15.76</b>        | Yes      |
|                          |          | 124     | 5620           | 16.50   | 15.74               | No       |
|                          |          | 128     | 5640           | 16.50   | 15.63               | No       |
|                          |          | 132     | 5660           | 16.50   | 15.49               | No       |
|                          |          | 136     | 5680           | 16.50   | 15.45               | No       |
|                          | U-NII-3  | 140     | 5700           | 16.50   | 15.28               | No       |
|                          |          | 149     | 5745           | 16.50   | 14.79               | No       |
|                          |          | 153     | 5765           | 16.50   | 14.79               | No       |
|                          |          | 157     | 5785           | 16.50   | <b>15.08</b>        | Yes      |
|                          |          | 161     | 5805           | 16.50   | 14.99               | No       |
| 5GHz                     | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-<br>HT20         | U-NII-1  | 36      | 5180           | 15.50   | 14.19               | No       |
|                          |          | 40      | 5200           | 15.50   | 14.26               | No       |
|                          |          | 44      | 5220           | 15.50   | 14.31               | No       |
|                          |          | 48      | 5240           | 15.50   | 14.37               | No       |
|                          | U-NII-2A | 52      | 5260           | 15.50   | 14.45               | No       |
|                          |          | 56      | 5280           | 15.50   | 14.31               | No       |
|                          |          | 60      | 5300           | 15.50   | 14.38               | No       |
|                          |          | 64      | 5320           | 15.50   | 14.23               | No       |
|                          | U-NII-2C | 100     | 5500           | 15.50   | 14.33               | No       |



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|                  |          |         |                |         |                     |          |
|------------------|----------|---------|----------------|---------|---------------------|----------|
|                  |          | 104     | 5520           | 15.50   | 14.29               | No       |
|                  |          | 108     | 5540           | 15.50   | 14.41               | No       |
|                  |          | 112     | 5560           | 15.50   | 14.40               | No       |
|                  |          | 116     | 5580           | 15.50   | 14.45               | No       |
|                  |          | 120     | 5600           | 15.50   | 14.48               | No       |
|                  |          | 124     | 5620           | 15.50   | 14.58               | No       |
|                  |          | 128     | 5640           | 15.50   | 14.48               | No       |
|                  |          | 132     | 5660           | 15.50   | 14.33               | No       |
|                  |          | 136     | 5680           | 15.50   | 14.20               | No       |
|                  |          | 140     | 5700           | 15.50   | 14.03               | No       |
|                  | U-NII-3  | 149     | 5745           | 15.50   | 13.91               | No       |
|                  |          | 153     | 5765           | 15.50   | 13.61               | No       |
|                  |          | 157     | 5785           | 15.50   | 14.04               | No       |
|                  |          | 161     | 5805           | 15.50   | 14.24               | No       |
| 5GHz             | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-<br>HT40 | U-NII-1  | 38      | 5190           | 15.50   | 14.12               | No       |
|                  |          | 46      | 5230           | 15.50   | 14.18               | No       |
|                  | U-NII-2A | 54      | 5270           | 15.50   | 14.23               | No       |
|                  |          | 62      | 5310           | 15.50   | 14.27               | No       |
|                  | U-NII-2C | 102     | 5510           | 15.50   | 14.30               | No       |
|                  |          | 110     | 5550           | 15.50   | 14.33               | No       |
|                  |          | 118     | 5590           | 15.50   | 14.36               | No       |
|                  |          | 126     | 5630           | 15.50   | 14.43               | No       |
|                  |          | 134     | 5670           | 15.50   | 14.48               | No       |
|                  | U-NII-3  | 151     | 5755           | 15.50   | 14.53               | No       |
|                  |          | 159     | 5795           | 15.50   | 14.64               | No       |
| 5GHz             | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>20M  | U-NII-1  | 36      | 5180           | 16.50   | 15.25               | No       |
|                  |          | 40      | 5200           | 16.50   | 15.43               | No       |
|                  |          | 44      | 5220           | 16.50   | 15.35               | No       |
|                  |          | 48      | 5240           | 16.50   | 15.36               | No       |
|                  | U-NII-2A | 52      | 5260           | 16.50   | 15.42               | No       |
|                  |          | 56      | 5280           | 16.50   | 15.36               | No       |
|                  |          | 60      | 5300           | 16.50   | 15.34               | No       |
|                  |          | 64      | 5320           | 16.50   | 15.30               | No       |
|                  | U-NII-2C | 100     | 5500           | 16.50   | 15.34               | No       |
|                  |          | 104     | 5520           | 16.50   | 15.24               | No       |
|                  |          | 108     | 5540           | 16.50   | 15.17               | No       |
|                  |          | 112     | 5560           | 16.50   | 15.42               | No       |
|                  |          | 116     | 5580           | 16.50   | 15.43               | No       |
|                  |          | 120     | 5600           | 16.50   | 15.43               | No       |



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|                 |          |         |                |         |                     |          |
|-----------------|----------|---------|----------------|---------|---------------------|----------|
|                 |          | 124     | 5620           | 16.50   | 15.53               | No       |
|                 |          | 128     | 5640           | 16.50   | 15.44               | No       |
|                 |          | 132     | 5660           | 16.50   | 15.36               | No       |
|                 |          | 136     | 5680           | 16.50   | 15.28               | No       |
|                 |          | 140     | 5700           | 16.50   | 15.17               | No       |
|                 | U-NII-3  | 149     | 5745           | 16.50   | 14.65               | No       |
|                 |          | 153     | 5765           | 16.50   | 14.72               | No       |
|                 |          | 157     | 5785           | 16.50   | 14.85               | No       |
|                 |          | 161     | 5805           | 16.50   | 14.98               | No       |
| 5GHz            | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>40M | U-NII-1  | 38      | 5190           | 15.50   | 14.13               | No       |
|                 |          | 46      | 5230           | 15.50   | 14.19               | No       |
|                 | U-NII-2A | 54      | 5270           | 15.50   | 14.27               | No       |
|                 |          | 62      | 5310           | 15.50   | 14.27               | No       |
|                 | U-NII-2C | 102     | 5510           | 15.50   | 14.36               | No       |
|                 |          | 110     | 5550           | 15.50   | 14.34               | No       |
|                 |          | 118     | 5590           | 15.50   | 14.44               | No       |
|                 |          | 126     | 5630           | 15.50   | 14.51               | No       |
|                 |          | 134     | 5670           | 15.50   | 14.55               | No       |
|                 | U-NII-3  | 151     | 5755           | 15.50   | 14.48               | No       |
| 159             |          | 5795    | 15.50          | 14.41   | No                  |          |
| 5GHz            | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>80M | U-NII-1  | 42      | 5210           | 14.00   | 12.86               | No       |
|                 | U-NII-2A | 58      | 5290           | 14.00   | 12.91               | No       |
|                 | U-NII-2C | 106     | 5530           | 14.00   | 13.03               | No       |
|                 |          | 122     | 5610           | 14.00   | 12.95               | No       |
|                 | U-NII-3  | 155     | 5775           | 14.00   | 12.85               | No       |



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| WWAN + WiFi 5G MIMO Receiver on |          |         |                |         |                     |          |
|---------------------------------|----------|---------|----------------|---------|---------------------|----------|
| 5GHz                            | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11a                         | U-NII-1  | 36      | 5180           | 14.50   | 13.35               | No       |
|                                 |          | 40      | 5200           | 14.50   | 13.50               | No       |
|                                 |          | 44      | 5220           | 14.50   | 13.45               | No       |
|                                 |          | 48      | 5240           | 14.50   | 13.38               | No       |
|                                 | U-NII-2A | 52      | 5260           | 14.50   | 13.46               | No       |
|                                 |          | 56      | 5280           | 14.50   | 13.42               | No       |
|                                 |          | 60      | 5300           | 14.50   | <b>13.56</b>        | Yes      |
|                                 |          | 64      | 5320           | 14.50   | 13.55               | No       |
|                                 | U-NII-2C | 100     | 5500           | 14.50   | 13.71               | No       |
|                                 |          | 104     | 5520           | 14.50   | 13.81               | No       |
|                                 |          | 108     | 5540           | 14.50   | 13.74               | No       |
|                                 |          | 112     | 5560           | 14.50   | 13.80               | No       |
|                                 |          | 116     | 5580           | 14.50   | 13.66               | No       |
|                                 |          | 120     | 5600           | 14.50   | 14.00               | No       |
|                                 |          | 124     | 5620           | 14.50   | 13.63               | No       |
|                                 |          | 128     | 5640           | 14.50   | 13.86               | No       |
|                                 |          | 132     | 5660           | 14.50   | 13.75               | No       |
|                                 |          | 136     | 5680           | 14.50   | 13.61               | No       |
|                                 |          | 140     | 5700           | 14.50   | 13.39               | No       |
|                                 | U-NII-3  | 149     | 5745           | 14.50   | 13.02               | No       |
|                                 |          | 153     | 5765           | 14.50   | 13.13               | No       |
|                                 |          | 157     | 5785           | 14.50   | 13.10               | No       |
|                                 |          | 161     | 5805           | 14.50   | 13.10               | No       |
| 5GHz                            | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-HT20                    | U-NII-1  | 36      | 5180           | 13.50   | 12.34               | No       |
|                                 |          | 40      | 5200           | 13.50   | 12.48               | No       |
|                                 |          | 44      | 5220           | 13.50   | 12.47               | No       |
|                                 |          | 48      | 5240           | 13.50   | 12.53               | No       |
|                                 | U-NII-2A | 52      | 5260           | 13.50   | 12.56               | No       |
|                                 |          | 56      | 5280           | 13.50   | 12.57               | No       |
|                                 |          | 60      | 5300           | 13.50   | 12.56               | No       |
|                                 |          | 64      | 5320           | 13.50   | 12.48               | No       |
|                                 | U-NII-2C | 100     | 5500           | 13.50   | 12.50               | No       |
|                                 |          | 104     | 5520           | 13.50   | 12.50               | No       |
|                                 |          | 108     | 5540           | 13.50   | 12.65               | No       |
|                                 |          | 112     | 5560           | 13.50   | 12.56               | No       |
|                                 |          | 116     | 5580           | 13.50   | 12.72               | No       |
|                                 |          | 120     | 5600           | 13.50   | 12.69               | No       |
|                                 |          | 124     | 5620           | 13.50   | 12.86               | No       |



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|                  |          | 128     | 5640           | 13.50   | 12.75               | No       |
|------------------|----------|---------|----------------|---------|---------------------|----------|
|                  |          | 132     | 5660           | 13.50   | 12.48               | No       |
|                  |          | 136     | 5680           | 13.50   | 12.34               | No       |
|                  |          | 140     | 5700           | 13.50   | 12.14               | No       |
|                  | U-NII-3  | 149     | 5745           | 13.50   | 12.15               | No       |
|                  |          | 153     | 5765           | 13.50   | 11.84               | No       |
|                  |          | 157     | 5785           | 13.50   | 12.25               | No       |
|                  |          | 161     | 5805           | 13.50   | 12.40               | No       |
| 5GHz             | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11n-<br>HT40 | U-NII-1  | 38      | 5190           | 13.50   | 12.32               | No       |
|                  |          | 46      | 5230           | 13.50   | 12.38               | No       |
|                  | U-NII-2A | 54      | 5270           | 13.50   | 12.56               | No       |
|                  |          | 62      | 5310           | 13.50   | 12.46               | No       |
|                  | U-NII-2C | 102     | 5510           | 13.50   | 12.56               | No       |
|                  |          | 110     | 5550           | 13.50   | 12.55               | No       |
|                  |          | 118     | 5590           | 13.50   | 12.62               | No       |
|                  |          | 126     | 5630           | 13.50   | 12.51               | No       |
|                  | U-NII-3  | 134     | 5670           | 13.50   | 12.60               | No       |
|                  |          | 151     | 5755           | 13.50   | 12.74               | No       |
|                  |          | 159     | 5795           | 13.50   | 12.89               | No       |
|                  |          |         |                |         |                     |          |
| 5GHz             | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>20M  | U-NII-1  | 36      | 5180           | 14.50   | 13.36               | No       |
|                  |          | 40      | 5200           | 14.50   | 13.60               | No       |
|                  |          | 44      | 5220           | 14.50   | 13.59               | No       |
|                  |          | 48      | 5240           | 14.50   | 13.64               | No       |
|                  | U-NII-2A | 52      | 5260           | 14.50   | 13.63               | No       |
|                  |          | 56      | 5280           | 14.50   | 13.47               | No       |
|                  |          | 60      | 5300           | 14.50   | 13.60               | No       |
|                  |          | 64      | 5320           | 14.50   | 13.50               | No       |
|                  | U-NII-2C | 100     | 5500           | 14.50   | 13.57               | No       |
|                  |          | 104     | 5520           | 14.50   | 13.47               | No       |
|                  |          | 108     | 5540           | 14.50   | 13.34               | No       |
|                  |          | 112     | 5560           | 14.50   | 13.48               | No       |
|                  |          | 116     | 5580           | 14.50   | 13.61               | No       |
|                  |          | 120     | 5600           | 14.50   | 13.70               | No       |
|                  |          | 124     | 5620           | 14.50   | 13.69               | No       |
|                  |          | 128     | 5640           | 14.50   | 13.69               | No       |
|                  |          | 132     | 5660           | 14.50   | 13.59               | No       |
|                  |          | 136     | 5680           | 14.50   | 13.51               | No       |
|                  |          | 140     | 5700           | 14.50   | 13.28               | No       |
|                  | U-NII-3  | 149     | 5745           | 14.50   | 12.84               | No       |



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|                 |          | 153     | 5765           | 14.50   | 12.91               | No       |
|-----------------|----------|---------|----------------|---------|---------------------|----------|
|                 |          | 157     | 5785           | 14.50   | 13.07               | No       |
|                 |          | 161     | 5805           | 14.50   | 13.13               | No       |
| 5GHz            | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>40M | U-NII-1  | 38      | 5190           | 13.50   | 12.34               | No       |
|                 |          | 46      | 5230           | 13.50   | 12.43               | No       |
|                 | U-NII-2A | 54      | 5270           | 13.50   | 12.43               | No       |
|                 |          | 62      | 5310           | 13.50   | 12.47               | No       |
|                 | U-NII-2C | 102     | 5510           | 13.50   | 12.57               | No       |
|                 |          | 110     | 5550           | 13.50   | 12.57               | No       |
|                 |          | 118     | 5590           | 13.50   | 12.65               | No       |
|                 |          | 126     | 5630           | 13.50   | 12.59               | No       |
|                 |          | 134     | 5670           | 13.50   | 12.83               | No       |
|                 | U-NII-3  | 151     | 5755           | 13.50   | 12.73               | No       |
|                 |          | 159     | 5795           | 13.50   | 12.66               | No       |
| 5GHz            | mode     | Channel | Frequency(MHz) | Tune up | Average Power (dBm) | SAR Test |
| 802.11ac<br>80M | U-NII-1  | 42      | 5210           | 12.00   | 11.05               | No       |
|                 | U-NII-2A | 58      | 5290           | 12.00   | 11.08               | No       |
|                 | U-NII-2C | 106     | 5530           | 12.00   | 11.23               | No       |
|                 |          | 122     | 5610           | 12.00   | 11.14               | No       |
|                 | U-NII-3  | 155     | 5775           | 12.00   | 11.00               | No       |

Table 24: Conducted Power of WiFi

| BT            |         |                 | Tune up (dBm) | Average Conducted Power(dBm) |
|---------------|---------|-----------------|---------------|------------------------------|
| Modulation    | Channel | Frequency (MHz) |               |                              |
| GFSK          | 0       | 2402            | 10.00         | 9.53                         |
|               | 39      | 2441            | 10.00         | <b>9.61</b>                  |
|               | 78      | 2480            | 10.00         | 9.58                         |
| $\pi/4$ DQPSK | 0       | 2402            | 10.00         | 9.53                         |
|               | 39      | 2441            | 10.00         | 9.46                         |
|               | 78      | 2480            | 10.00         | 9.42                         |
| 8DPSK         | 0       | 2402            | 10.00         | 9.54                         |
|               | 39      | 2441            | 10.00         | 9.48                         |
|               | 78      | 2480            | 10.00         | 9.46                         |



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| BLE 1M     |         |                 | Tune up (dBm) | Average Conducted Power(dBm) |
|------------|---------|-----------------|---------------|------------------------------|
| Modulation | Channel | Frequency (MHz) |               |                              |
| GFSK       | 0       | 2402            | 1.00          | -0.70                        |
|            | 19      | 2440            | 1.00          | 0.93                         |
|            | 39      | 2480            | 1.00          | -0.57                        |
| BLE-2M     |         |                 | Tune up (dBm) | Average Conducted Power(dBm) |
| Modulation | Channel | Frequency (MHz) |               |                              |
| GFSK       | 0       | 2402            | -1.00         | -3.50                        |
|            | 19      | 2440            | -1.00         | -2.01                        |
|            | 39      | 2480            | -1.00         | -3.40                        |

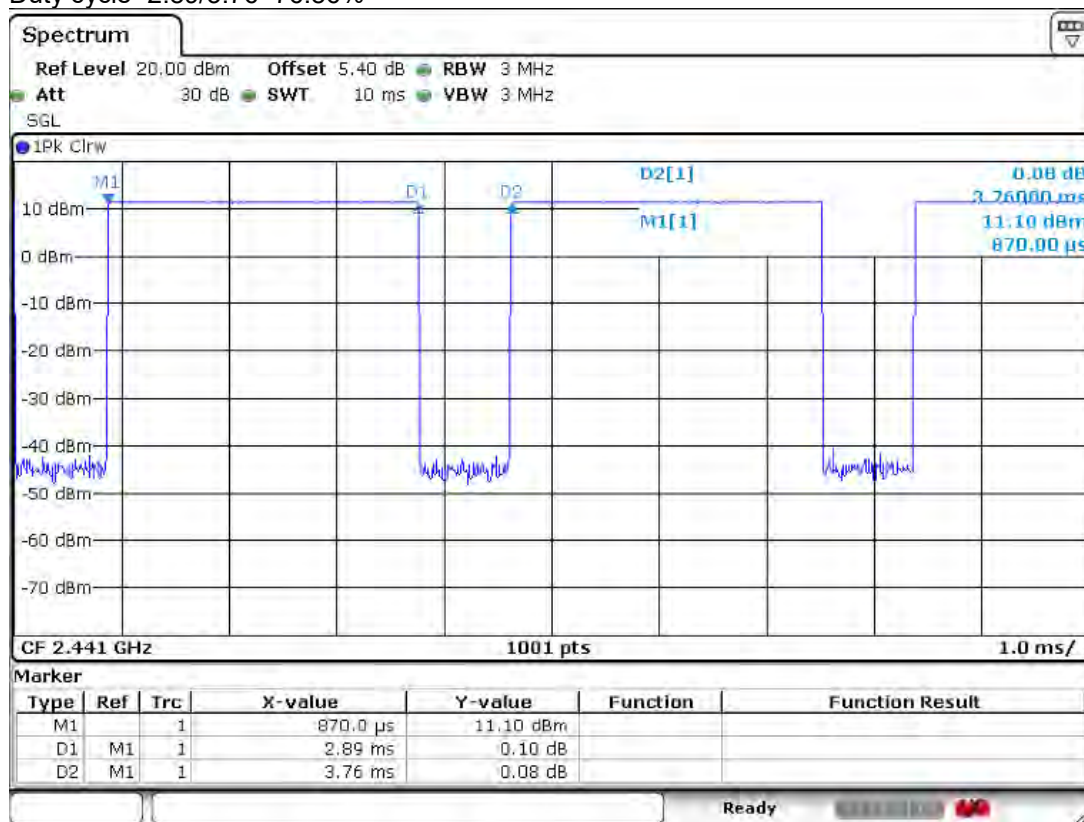
Table 25: Conducted Power of BT

Note:

- 1)The conducted power of BT is measured with RMS detector.
- 2)The bolded mode was selected for SAR testing.

#### Bluetooth DH5(GFSK):

Duty cycle=2.89/3.76=76.86%



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## 8.2 Stand-alone SAR test evaluation

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and Product specific 10g SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

| Freq. Band              | Frequency (GHz) | Position  | Average Power |        | Test Separation (mm) | Calculate Value | Exclusion Threshold | Exclusion (Y/N) |
|-------------------------|-----------------|-----------|---------------|--------|----------------------|-----------------|---------------------|-----------------|
|                         |                 |           | dBm           | mW     |                      |                 |                     |                 |
| Wi-Fi 2.4G Ant8(Chain0) | 2.472           | Head      | 15.5          | 35.48  | 5                    | 11.16           | 3                   | N               |
|                         |                 | Body-worn | 19.5          | 89.13  | 15                   | 9.34            | 3                   | N               |
|                         |                 | Hotspot   | 19.5          | 89.13  | 10                   | 14.01           | 3                   | N               |
| Wi-Fi 2.4G MIMO         | 2.472           | Head      | 18.5          | 70.79  | 5                    | 22.26           | 3                   | N               |
|                         |                 | Body-worn | 22.5          | 177.83 | 15                   | 18.64           | 3                   | N               |
|                         |                 | Hotspot   | 22.5          | 177.83 | 10                   | 27.96           | 3                   | N               |
| Wi-Fi 5G Ant7(Chain1)   | 5.85            | Head      | 13.5          | 22.39  | 5                    | 10.83           | 3                   | N               |
|                         |                 | Body-worn | 18.0          | 63.10  | 15                   | 10.17           | 3                   | N               |
|                         |                 | Hotspot   | 18.0          | 63.10  | 10                   | 15.26           | 3                   | N               |
| Wi-Fi 5G MIMO           | 5.85            | Head      | 16.5          | 44.67  | 5                    | 21.61           | 3                   | N               |
|                         |                 | Body-worn | 21.0          | 125.89 | 15                   | 20.30           | 3                   | N               |
|                         |                 | Hotspot   | 21.0          | 125.89 | 10                   | 30.45           | 3                   | N               |
| Bluetooth               | 2.48            | Head      | 10.0          | 10.00  | 5                    | 3.15            | 3                   | N               |
|                         |                 | Body-worn | 10.0          | 10.00  | 15                   | 1.05            | 3                   | Y               |
|                         |                 | Hotspot   | 10.0          | 10.00  | 10                   | 1.57            | 3                   | Y               |

The 1-g and 10-g SAR test exclusion thresholds 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 and  $\leq 7.5$  for 10-g extremity 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

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.



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## 8.3 Measurement of SAR Data

### 8.3.1 SAR Result of GSM850

| Ant 1 Test Record                  |           |                |            |                |                  |                      |                    |               |                       |                  |
|------------------------------------|-----------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                      | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data                     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                         | GSM       | 190/836.6      | 1:8.3      | 0.128          | 0.16             | 31.72                | 32.50              | 1.197         | <b>0.153</b>          | 22.0             |
| Left tilted                        | GSM       | 190/836.6      | 1:8.3      | 0.054          | 0.04             | 31.72                | 32.50              | 1.197         | 0.065                 | 22.0             |
| Right cheek                        | GSM       | 190/836.6      | 1:8.3      | 0.099          | 0.06             | 31.72                | 32.50              | 1.197         | 0.119                 | 22.0             |
| Right tilted                       | GSM       | 190/836.6      | 1:8.3      | 0.056          | -0.09            | 31.72                | 32.50              | 1.197         | 0.067                 | 22.0             |
| Body worn Test data(Separate 15mm) |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                         | GSM       | 190/836.6      | 1:8.3      | 0.149          | -0.06            | 31.72                | 32.50              | 1.197         | 0.178                 | 22.0             |
| Back side                          | GSM       | 190/836.6      | 1:8.3      | 0.209          | 0.05             | 31.72                | 32.50              | 1.197         | <b>0.250</b>          | 22.0             |
| Hotspot Test data(Separate 10mm)   |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                         | GPRS 4TS  | 190/836.6      | 1:2.075    | 0.242          | 0.10             | 25.18                | 26.50              | 1.355         | 0.328                 | 22.0             |
| Back side                          | GPRS 4TS  | 190/836.6      | 1:2.075    | 0.322          | -0.04            | 25.18                | 26.50              | 1.355         | <b>0.436</b>          | 22.0             |
| Right side                         | GPRS 4TS  | 190/836.6      | 1:2.075    | 0.083          | 0.17             | 25.18                | 26.50              | 1.355         | 0.112                 | 22.0             |
| Bottom side                        | GPRS 4TS  | 190/836.6      | 1:2.075    | 0.134          | -0.15            | 25.18                | 26.50              | 1.355         | 0.182                 | 22.0             |
| Ant 4 Test Record                  |           |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                      | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data                     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                         | GSM       | 190/836.6      | 1:8.3      | 0.318          | -0.02            | 27.79                | 29.50              | 1.483         | 0.471                 | 22.0             |
| Left tilted                        | GSM       | 190/836.6      | 1:8.3      | 0.348          | 0.05             | 27.79                | 29.50              | 1.483         | 0.516                 | 22.0             |
| Right cheek                        | GSM       | 190/836.6      | 1:8.3      | 0.409          | 0.03             | 27.79                | 29.50              | 1.483         | 0.606                 | 22.0             |
| Right tilted                       | GSM       | 190/836.6      | 1:8.3      | 0.494          | -0.04            | 27.79                | 29.50              | 1.483         | <b>0.732</b>          | 22.0             |
| Body worn Test data(Separate 15mm) |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                         | GSM       | 190/836.6      | 1:8.3      | 0.150          | 0.18             | 32.44                | 33.50              | 1.276         | 0.191                 | 22.0             |
| Back side                          | GSM       | 190/836.6      | 1:8.3      | 0.220          | -0.04            | 32.44                | 33.50              | 1.276         | <b>0.281</b>          | 22.0             |
| Hotspot Test data(Separate 10mm)   |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                         | GPRS 4TS  | 190/836.6      | 1:2.77     | 0.124          | 0.13             | 21.91                | 23.50              | 1.442         | 0.179                 | 22.0             |
| Back side                          | GPRS 4TS  | 190/836.6      | 1:2.77     | 0.134          | -0.06            | 21.91                | 23.50              | 1.442         | 0.193                 | 22.0             |
| Left side                          | GPRS 4TS  | 190/836.6      | 1:2.77     | 0.066          | -0.01            | 21.91                | 23.50              | 1.442         | 0.095                 | 22.0             |
| Top side                           | GPRS 4TS  | 190/836.6      | 1:2.77     | 0.154          | 0.05             | 21.91                | 23.50              | 1.442         | <b>0.222</b>          | 22.0             |

Table 26: SAR of GSM850 for Head and Body

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR  $< 1.2$  W/kg.



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### 8.3.2 SAR Result of GSM1900

| Ant 10 Test Record                 |           |                |            |                |                  |                      |                    |               |                       |                  |
|------------------------------------|-----------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                      | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data                     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                         | GSM       | 661/1880       | 1:8.3      | 0.073          | 0.04             | 29.21                | 30.50              | 1.346         | 0.098                 | 22.0             |
| Left tilted                        | GSM       | 661/1880       | 1:8.3      | 0.057          | 0.11             | 29.21                | 30.50              | 1.346         | 0.077                 | 22.0             |
| Right cheek                        | GSM       | 661/1880       | 1:8.3      | 0.074          | 0.07             | 29.21                | 30.50              | 1.346         | <b>0.099</b>          | 22.0             |
| Right tilted                       | GSM       | 661/1880       | 1:8.3      | 0.058          | 0.14             | 29.21                | 30.50              | 1.346         | 0.078                 | 22.0             |
| Body worn Test data(Separate 15mm) |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                         | GSM       | 661/1880       | 1:8.3      | 0.189          | 0.11             | 29.21                | 30.50              | 1.346         | 0.254                 | 22.0             |
| Back side                          | GSM       | 661/1880       | 1:8.3      | 0.239          | 0.17             | 29.21                | 30.50              | 1.346         | <b>0.322</b>          | 22.0             |
| Hotspot Test data(Separate 10mm)   |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                         | GPRS 4TS  | 661/1880       | 1:2.075    | 0.273          | 0.03             | 23.29                | 24.50              | 1.321         | 0.361                 | 22.0             |
| Back side                          | GPRS 4TS  | 661/1880       | 1:2.075    | 0.309          | -0.07            | 23.29                | 24.50              | 1.321         | 0.408                 | 22.0             |
| Left side                          | GPRS 4TS  | 661/1880       | 1:2.075    | 0.105          | -0.02            | 23.29                | 24.50              | 1.321         | 0.139                 | 22.0             |
| Bottom side                        | GPRS 4TS  | 661/1880       | 1:2.075    | 0.466          | 0.05             | 23.29                | 24.50              | 1.321         | <b>0.616</b>          | 22.0             |
| Ant 5 Test Record                  |           |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                      | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data                     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                         | GSM       | 661/1880       | 1:8.3      | 0.210          | 0.07             | 25.26                | 27.00              | 1.493         | 0.313                 | 22.0             |
| Left tilted                        | GSM       | 661/1880       | 1:8.3      | 0.095          | -0.04            | 25.26                | 27.00              | 1.493         | 0.142                 | 22.0             |
| Right cheek                        | GSM       | 661/1880       | 1:8.3      | 0.565          | -0.02            | 25.26                | 27.00              | 1.493         | <b>0.843</b>          | 22.0             |
| Right cheek                        | GSM       | 512/1850.2     | 1:8.3      | 0.557          | 0.03             | 25.35                | 27.00              | 1.462         | 0.814                 | 22.0             |
| Right cheek                        | GSM       | 810/1909.8     | 1:8.3      | 0.564          | -0.02            | 25.34                | 27.00              | 1.466         | 0.827                 | 22.0             |
| Right tilted                       | GSM       | 661/1880       | 1:8.3      | 0.136          | 0.08             | 25.26                | 27.00              | 1.493         | 0.203                 | 22.0             |
| Body worn Test data(Separate 15mm) |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                         | GSM       | 661/1880       | 1:8.3      | 0.090          | -0.19            | 29.31                | 30.50              | 1.315         | 0.118                 | 22.0             |
| Back side                          | GSM       | 661/1880       | 1:8.3      | 0.137          | 0.07             | 29.31                | 30.50              | 1.315         | <b>0.180</b>          | 22.0             |
| Hotspot Test data(Separate 10mm)   |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                         | GPRS 4TS  | 661/1880       | 1:2.075    | 0.076          | 0.15             | 19.08                | 21.00              | 1.556         | 0.118                 | 22.0             |
| Back side                          | GPRS 4TS  | 661/1880       | 1:2.075    | 0.060          | 0.12             | 19.08                | 21.00              | 1.556         | 0.093                 | 22.0             |
| Left side                          | GPRS 4TS  | 661/1880       | 1:2.075    | 0.227          | 0.08             | 19.08                | 21.00              | 1.556         | <b>0.353</b>          | 22.0             |

Table 27: SAR of GSM1900 for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR  $< 1.2$  W/kg.



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### 8.3.3 SAR Result of WCDMA Band II

| Ant 5 Test Record                  |           |                |            |                |                  |                      |                    |               |                       |                  |
|------------------------------------|-----------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                      | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data                     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                         | RMC       | 9400/1880      | 1:1        | 0.195          | 0.16             | 15.27                | 16.50              | 1.327         | 0.259                 | 22.0             |
| Left tilted                        | RMC       | 9400/1880      | 1:1        | 0.086          | 0.01             | 15.27                | 16.50              | 1.327         | 0.113                 | 22.0             |
| Right cheek                        | RMC       | 9400/1880      | 1:1        | 0.597          | 0.04             | 15.27                | 16.50              | 1.327         | <b>0.792</b>          | 22.0             |
| Right tilted                       | RMC       | 9400/1880      | 1:1        | 0.163          | -0.01            | 15.27                | 16.50              | 1.327         | 0.216                 | 22.0             |
| Body worn Test data(Separate 15mm) |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                         | RMC       | 9400/1880      | 1:1        | 0.165          | -0.05            | 21.82                | 23.00              | 1.312         | 0.217                 | 22.0             |
| Back side                          | RMC       | 9400/1880      | 1:1        | 0.231          | 0.13             | 21.82                | 23.00              | 1.312         | <b>0.303</b>          | 22.0             |
| Hotspot Test data(Separate 10mm)   |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                         | RMC       | 9400/1880      | 1:1        | 0.077          | 0.02             | 15.27                | 16.50              | 1.327         | 0.102                 | 22.0             |
| Back side                          | RMC       | 9400/1880      | 1:1        | 0.072          | -0.01            | 15.27                | 16.50              | 1.327         | 0.096                 | 22.0             |
| Left side                          | RMC       | 9400/1880      | 1:1        | 0.194          | 0.03             | 15.27                | 16.50              | 1.327         | <b>0.258</b>          | 22.0             |
| Ant 10 Test Record                 |           |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                      | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data                     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                         | RMC       | 9400/1880      | 1:1        | 0.173          | 0.03             | 23.68                | 24.50              | 1.208         | 0.209                 | 22.0             |
| Left tilted                        | RMC       | 9400/1880      | 1:1        | 0.157          | 0.08             | 23.68                | 24.50              | 1.208         | 0.190                 | 22.0             |
| Right cheek                        | RMC       | 9400/1880      | 1:1        | 0.186          | 0.09             | 23.68                | 24.50              | 1.208         | 0.225                 | 22.0             |
| Right tilted                       | RMC       | 9400/1880      | 1:1        | 0.193          | 0.00             | 23.68                | 24.50              | 1.208         | <b>0.233</b>          | 22.0             |
| Body worn Test data(Separate 15mm) |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                         | RMC       | 9400/1880      | 1:1        | 0.455          | 0.07             | 23.68                | 24.50              | 1.208         | 0.550                 | 22.0             |
| Back side                          | RMC       | 9400/1880      | 1:1        | 0.544          | -0.06            | 23.68                | 24.50              | 1.208         | <b>0.657</b>          | 22.0             |
| Hotspot Test data(Separate 10mm)   |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                         | RMC       | 9400/1880      | 1:1        | 0.399          | 0.15             | 20.51                | 22.00              | 1.409         | 0.562                 | 22.0             |
| Back side                          | RMC       | 9400/1880      | 1:1        | 0.462          | -0.16            | 20.51                | 22.00              | 1.409         | 0.651                 | 22.0             |
| Left side                          | RMC       | 9400/1880      | 1:1        | 0.167          | -0.01            | 20.51                | 22.00              | 1.409         | 0.235                 | 22.0             |
| Bottom side                        | RMC       | 9262/1852.4    | 1:1        | 0.576          | 0.06             | 20.51                | 22.00              | 1.409         | 0.812                 | 22.0             |
| Bottom side                        | RMC       | 9400/1880      | 1:1        | 0.692          | 0.06             | 20.53                | 22.00              | 1.403         | <b>0.971</b>          | 22.0             |
| Bottom side                        | RMC       | 9538/1907.6    | 1:1        | 0.581          | -0.14            | 20.46                | 22.00              | 1.426         | 0.828                 | 22.0             |





| Test position                                    | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|--------------------------------------------------|-----------|----------------|------------|-----------------|------------------|----------------------|--------------------|---------------|------------------------|------------------|
| Product specific 10g SAR Test data(Separate 0mm) |           |                |            |                 |                  |                      |                    |               |                        |                  |
| Bottom side                                      | RMC       | 9400/1880      | 1:1        | 2.590           | 0.10             | 23.68                | 24.50              | 1.208         | 3.128                  | 22.0             |
| Bottom side-repeat                               | RMC       | 9400/1880      | 1:1        | 2.530           | -0.09            | 23.68                | 24.50              | 1.208         | 3.056                  | 22.0             |
| Bottom side                                      | RMC       | 9262/1852.4    | 1:1        | 2.410           | 0.09             | 23.70                | 24.50              | 1.202         | 2.897                  | 22.0             |
| Bottom side                                      | RMC       | 9538/1907.6    | 1:1        | 2.560           | 0.18             | 23.71                | 24.50              | 1.199         | 3.071                  | 22.0             |

Table 28: SAR of WCDMA Band II for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR  $< 1.2$  W/kg.

| Test Position   | Channel/Frequency (MHz) | Measured SAR (1g) | 1 <sup>st</sup> Repeated SAR (1g) | Ratio | 2 <sup>nd</sup> Repeated SAR (1g) | 3 <sup>rd</sup> Repeated SAR (1g) |
|-----------------|-------------------------|-------------------|-----------------------------------|-------|-----------------------------------|-----------------------------------|
| Bottom side 0mm | 9400/1880               | 2.590             | 2.530                             | 1.024 | N/A                               | N/A                               |

Note: 1) When the original highest measured SAR is  $\geq 0.80$  W/kg, the measurement was repeated once.

2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was  $> 1.20$  or when the original or repeated measurement was  $\geq 1.45$  W/kg ( $\sim 10\%$  from the 1-g SAR limit).

3) A third repeated measurement was performed only if the original, first or second repeated measurement was  $\geq 1.5$  W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ .

4) Repeated measurements are not required when the original highest measured SAR is  $< 0.80$  W/kg



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### 8.3.4 SAR Result of WCDMA Band IV

| Ant 5 Test Record                                |           |                |            |                 |                  |                      |                    |               |                        |                  |
|--------------------------------------------------|-----------|----------------|------------|-----------------|------------------|----------------------|--------------------|---------------|------------------------|------------------|
| Test position                                    | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g  | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg)  | Liquid Temp.(°C) |
| Head Test Data                                   |           |                |            |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                       | RMC       | 1412/1732.4    | 1:1        | 0.161           | 0.09             | 17.04                | 18.50              | 1.400         | 0.225                  | 22.0             |
| Left tilted                                      | RMC       | 1412/1732.4    | 1:1        | 0.088           | 0.01             | 17.04                | 18.50              | 1.400         | 0.123                  | 22.0             |
| Right cheek                                      | RMC       | 1412/1732.4    | 1:1        | 0.604           | 0.09             | 17.04                | 18.50              | 1.400         | 0.845                  | 22.0             |
| Right cheek                                      | RMC       | 1312/1712.4    | 1:1        | 0.566           | 0.05             | 17.12                | 18.50              | 1.374         | 0.778                  | 22.0             |
| Right cheek                                      | RMC       | 1513/1752.6    | 1:1        | 0.648           | 0.09             | 17.04                | 18.50              | 1.400         | <b>0.907</b>           | 22.0             |
| Right tilted                                     | RMC       | 1412/1732.4    | 1:1        | 0.120           | 0.02             | 17.04                | 18.50              | 1.400         | 0.168                  | 22.0             |
| Body worn Test data(Separate 15mm)               |           |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                       | RMC       | 1412/1732.4    | 1:1        | 0.142           | -0.11            | 23.57                | 24.50              | 1.239         | 0.176                  | 22.0             |
| Back side                                        | RMC       | 1412/1732.4    | 1:1        | 0.269           | -0.06            | 23.57                | 24.50              | 1.239         | <b>0.333</b>           | 22.0             |
| Hotspot Test data(Separate 10mm)                 |           |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                       | RMC       | 1412/1732.4    | 1:1        | 0.078           | -0.20            | 17.04                | 18.50              | 1.400         | 0.109                  | 22.0             |
| Back side                                        | RMC       | 1412/1732.4    | 1:1        | 0.078           | 0.09             | 17.04                | 18.50              | 1.400         | 0.109                  | 22.0             |
| Left side                                        | RMC       | 1412/1732.4    | 1:1        | 0.186           | 0.12             | 17.04                | 18.50              | 1.400         | 0.260                  | 22.0             |
| Ant 10 Test Record                               |           |                |            |                 |                  |                      |                    |               |                        |                  |
| Test position                                    | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g  | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg)  | Liquid Temp.(°C) |
| Head Test Data                                   |           |                |            |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                       | RMC       | 1412/1732.4    | 1:1        | 0.154           | 0.05             | 23.55                | 24.50              | 1.245         | 0.192                  | 22.0             |
| Left tilted                                      | RMC       | 1412/1732.4    | 1:1        | 0.131           | 0.06             | 23.55                | 24.50              | 1.245         | 0.163                  | 22.0             |
| Right cheek                                      | RMC       | 1412/1732.4    | 1:1        | 0.181           | 0.13             | 23.55                | 24.50              | 1.245         | 0.225                  | 22.0             |
| Right tilted                                     | RMC       | 1412/1732.4    | 1:1        | 0.183           | 0.03             | 23.55                | 24.50              | 1.245         | <b>0.228</b>           | 22.0             |
| Body worn Test data(Separate 15mm)               |           |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                       | RMC       | 1412/1732.4    | 1:1        | 0.338           | -0.03            | 23.55                | 24.50              | 1.245         | 0.421                  | 22.0             |
| Back side                                        | RMC       | 1412/1732.4    | 1:1        | 0.396           | 0.00             | 23.55                | 24.50              | 1.245         | <b>0.493</b>           | 22.0             |
| Hotspot Test data(Separate 10mm)                 |           |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                       | RMC       | 1412/1732.4    | 1:1        | 0.452           | -0.07            | 21.51                | 23.00              | 1.409         | 0.637                  | 22.0             |
| Back side                                        | RMC       | 1412/1732.4    | 1:1        | 0.487           | 0.05             | 21.51                | 23.00              | 1.409         | 0.686                  | 22.0             |
| Left side                                        | RMC       | 1412/1732.4    | 1:1        | 0.188           | 0.09             | 21.51                | 23.00              | 1.409         | 0.265                  | 22.0             |
| Bottom side                                      | RMC       | 1412/1732.4    | 1:1        | 0.614           | 0.05             | 21.51                | 23.00              | 1.409         | 0.865                  | 22.0             |
| Bottom side                                      | RMC       | 1312/1712.4    | 1:1        | 0.554           | 0.04             | 21.37                | 23.00              | 1.455         | 0.806                  | 22.0             |
| Bottom side                                      | RMC       | 1513/1752.6    | 1:1        | 0.685           | 0.01             | 21.45                | 23.00              | 1.429         | <b>0.979</b>           | 22.0             |
| Test position                                    | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Product specific 10g SAR Test data(Separate 0mm) |           |                |            |                 |                  |                      |                    |               |                        |                  |
| Bottom side                                      | RMC       | 1412/1732.4    | 1:1        | 1.650           | 0.18             | 23.55                | 24.50              | 1.245         | 2.053                  | 22.0             |
| Bottom side                                      | RMC       | 1312/1712.4    | 1:1        | 1.560           | 0.15             | 23.64                | 24.50              | 1.219         | 1.902                  | 22.0             |
| Bottom side                                      | RMC       | 1513/1752.6    | 1:1        | 1.750           | 0.12             | 23.65                | 24.50              | 1.216         | <b>2.128</b>           | 22.0             |

Table 29: SAR of WCDMA Band IV for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR  $< 1.2$  W/kg.





### 8.3.5 SAR Result of WCDMA Band V

| Ant 1 Test Record                  |           |                |            |                |                  |                      |                    |               |                       |                  |
|------------------------------------|-----------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                      | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data                     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                         | RMC       | 4182/836.4     | 1:1        | 0.128          | 0.02             | 22.94                | 24.00              | 1.276         | <b>0.163</b>          | 22.0             |
| Left tilted                        | RMC       | 4182/836.4     | 1:1        | 0.054          | 0.06             | 22.94                | 24.00              | 1.276         | 0.069                 | 22.0             |
| Right cheek                        | RMC       | 4182/836.4     | 1:1        | 0.098          | 0.02             | 22.94                | 24.00              | 1.276         | 0.125                 | 22.0             |
| Right tilted                       | RMC       | 4182/836.4     | 1:1        | 0.054          | 0.18             | 22.94                | 24.00              | 1.276         | 0.069                 | 22.0             |
| Body worn Test data(Separate 15mm) |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                         | RMC       | 4182/836.4     | 1:1        | 0.166          | 0.11             | 22.94                | 24.00              | 1.276         | 0.212                 | 22.0             |
| Back side                          | RMC       | 4182/836.4     | 1:1        | 0.222          | 0.04             | 22.94                | 24.00              | 1.276         | <b>0.283</b>          | 22.0             |
| Hotspot Test data(Separate 10mm)   |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                         | RMC       | 4182/836.4     | 1:1        | 0.310          | -0.02            | 22.94                | 24.00              | 1.276         | 0.396                 | 22.0             |
| Back side                          | RMC       | 4182/836.4     | 1:1        | 0.416          | 0.17             | 22.94                | 24.00              | 1.276         | <b>0.531</b>          | 22.0             |
| Right side                         | RMC       | 4182/836.4     | 1:1        | 0.105          | -0.16            | 22.94                | 24.00              | 1.276         | 0.134                 | 22.0             |
| Bottom side                        | RMC       | 4182/836.4     | 1:1        | 0.157          | 0.02             | 22.94                | 24.00              | 1.276         | 0.200                 | 22.0             |
| Ant 4 Test Record                  |           |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                      | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data                     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                         | RMC       | 4182/836.4     | 1:1        | 0.611          | 0.01             | 21.35                | 22.50              | 1.303         | 0.796                 | 22.0             |
| Left tilted                        | RMC       | 4182/836.4     | 1:1        | 0.640          | 0.08             | 21.35                | 22.50              | 1.303         | 0.834                 | 22.0             |
| Left tilted                        | RMC       | 4132/826.4     | 1:1        | 0.565          | -0.04            | 21.29                | 22.50              | 1.321         | 0.747                 | 22.0             |
| Left tilted                        | RMC       | 4233/846.6     | 1:1        | 0.621          | -0.05            | 21.32                | 22.50              | 1.312         | 0.815                 | 22.0             |
| Right cheek                        | RMC       | 4182/836.4     | 1:1        | 0.789          | -0.06            | 21.35                | 22.50              | 1.303         | 1.028                 | 22.0             |
| Right cheek                        | RMC       | 4132/826.4     | 1:1        | 0.750          | 0.03             | 21.29                | 22.50              | 1.321         | 0.991                 | 22.0             |
| Right cheek                        | RMC       | 4233/846.6     | 1:1        | 0.786          | -0.03            | 21.32                | 22.50              | 1.312         | <b>1.031</b>          | 22.0             |
| Right tilted                       | RMC       | 4182/836.4     | 1:1        | 0.759          | 0.01             | 21.35                | 22.50              | 1.303         | 0.989                 | 22.0             |
| Right tilted                       | RMC       | 4132/826.4     | 1:1        | 0.704          | 0.09             | 21.29                | 22.50              | 1.321         | 0.930                 | 22.0             |
| Right tilted                       | RMC       | 4233/846.6     | 1:1        | 0.726          | 0.03             | 21.32                | 22.50              | 1.312         | 0.953                 | 22.0             |
| Body worn Test data(Separate 15mm) |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                         | RMC       | 4182/836.4     | 1:1        | 0.146          | 0.06             | 23.82                | 24.50              | 1.169         | 0.171                 | 22.0             |
| Back side                          | RMC       | 4182/836.4     | 1:1        | 0.228          | -0.02            | 23.82                | 24.50              | 1.169         | <b>0.267</b>          | 22.0             |
| Hotspot Test data(Separate 10mm)   |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                         | RMC       | 4182/836.4     | 1:1        | 0.212          | 0.05             | 21.35                | 22.50              | 1.303         | 0.276                 | 22.0             |
| Back side                          | RMC       | 4182/836.4     | 1:1        | 0.214          | 0.03             | 21.35                | 22.50              | 1.303         | 0.279                 | 22.0             |
| Left side                          | RMC       | 4182/836.4     | 1:1        | 0.124          | 0.19             | 21.35                | 22.50              | 1.303         | 0.162                 | 22.0             |
| Top side                           | RMC       | 4182/836.4     | 1:1        | 0.275          | -0.05            | 21.35                | 22.50              | 1.303         | <b>0.358</b>          | 22.0             |

Table 30: SAR of WCDMA Band V for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR  $< 1.2$  W/kg.



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### 8.3.6 SAR Result of LTE Band 2

| Ant 5 Test Record                        |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
|------------------------------------------|-----------|------------|--------------------|----------------|------------|----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------|
| Test position                            | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
|                                          | BW        | Modulation | RB Size_ RB offset |                |            |                |                  |                       |                     |               |                       |                  |
| Head Test Data(1RB)                      |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 20        | QPSK       | 1_50               | 18700/1860     | 1:1        | 0.251          | 0.15             | 15.56                 | 16.50               | 1.242         | 0.312                 | 22.1             |
| Left tilted                              | 20        | QPSK       | 1_50               | 18700/1860     | 1:1        | 0.079          | 0.09             | 15.56                 | 16.50               | 1.242         | 0.098                 | 22.1             |
| Right cheek                              | 20        | QPSK       | 1_50               | 18700/1860     | 1:1        | 0.570          | -0.02            | 15.56                 | 16.50               | 1.242         | 0.708                 | 22.1             |
| Right tilted                             | 20        | QPSK       | 1_50               | 18700/1860     | 1:1        | 0.098          | 0.01             | 15.56                 | 16.50               | 1.242         | 0.122                 | 22.1             |
| Head Test Data(50%RB)                    |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 20        | QPSK       | 50_50              | 19100/1900     | 1:1        | 0.277          | 0.08             | 15.66                 | 16.50               | 1.213         | 0.336                 | 22.1             |
| Left tilted                              | 20        | QPSK       | 50_50              | 19100/1900     | 1:1        | 0.086          | 0.09             | 15.66                 | 16.50               | 1.213         | 0.104                 | 22.1             |
| Right cheek                              | 20        | QPSK       | 50_50              | 19100/1900     | 1:1        | 0.651          | 0.06             | 15.66                 | 16.50               | 1.213         | 0.790                 | 22.1             |
| Right tilted                             | 20        | QPSK       | 50_50              | 19100/1900     | 1:1        | 0.108          | 0.15             | 15.66                 | 16.50               | 1.213         | 0.131                 | 22.1             |
| Body worn Test data(Separate 15mm 1RB)   |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 1_50               | 18700/1860     | 1:1        | 0.157          | -0.13            | 22.60                 | 23.00               | 1.096         | 0.172                 | 22.1             |
| Back side                                | 20        | QPSK       | 1_50               | 18700/1860     | 1:1        | 0.298          | 0.00             | 22.60                 | 23.00               | 1.096         | 0.327                 | 22.1             |
| Body worn Test data(Separate 15mm 50%RB) |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 50_50              | 19100/1900     | 1:1        | 0.148          | -0.07            | 21.52                 | 22.00               | 1.117         | 0.165                 | 22.1             |
| Back side                                | 20        | QPSK       | 50_50              | 19100/1900     | 1:1        | 0.158          | 0.02             | 21.52                 | 22.00               | 1.117         | 0.176                 | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)     |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 1_50               | 18700/1860     | 1:1        | 0.081          | 0.13             | 15.56                 | 16.50               | 1.242         | 0.101                 | 22.1             |
| Back side                                | 20        | QPSK       | 1_50               | 18700/1860     | 1:1        | 0.068          | 0.20             | 15.56                 | 16.50               | 1.242         | 0.084                 | 22.1             |
| Left side                                | 20        | QPSK       | 1_50               | 18700/1860     | 1:1        | 0.146          | -0.01            | 15.56                 | 16.50               | 1.242         | 0.181                 | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)   |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 50_50              | 19100/1900     | 1:1        | 0.085          | 0.06             | 15.66                 | 16.50               | 1.213         | 0.103                 | 22.1             |
| Back side                                | 20        | QPSK       | 50_50              | 19100/1900     | 1:1        | 0.069          | 0.11             | 15.66                 | 16.50               | 1.213         | 0.084                 | 22.1             |
| Left side                                | 20        | QPSK       | 50_50              | 19100/1900     | 1:1        | 0.218          | -0.15            | 15.66                 | 16.50               | 1.213         | 0.265                 | 22.1             |
| Ant 10 Test Record                       |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Test position                            | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
|                                          | BW        | Modulation | RB Size_ RB offset |                |            |                |                  |                       |                     |               |                       |                  |
| Head Test Data(1RB)                      |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 20        | QPSK       | 1_0                | 18900/1880     | 1:1        | 0.156          | 0.04             | 22.45                 | 24.00               | 1.429         | 0.223                 | 22.1             |
| Left tilted                              | 20        | QPSK       | 1_0                | 18900/1880     | 1:1        | 0.131          | 0.08             | 22.45                 | 24.00               | 1.429         | 0.187                 | 22.1             |
| Right cheek                              | 20        | QPSK       | 1_0                | 18900/1880     | 1:1        | 0.169          | -0.02            | 22.45                 | 24.00               | 1.429         | 0.241                 | 22.1             |
| Right tilted                             | 20        | QPSK       | 1_0                | 18900/1880     | 1:1        | 0.124          | 0.01             | 22.45                 | 24.00               | 1.429         | 0.177                 | 22.1             |
| Head Test Data(50%RB)                    |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 20        | QPSK       | 50_50              | 19100/1900     | 1:1        | 0.116          | 0.05             | 21.58                 | 23.00               | 1.387         | 0.161                 | 22.1             |
| Left tilted                              | 20        | QPSK       | 50_50              | 19100/1900     | 1:1        | 0.092          | 0.09             | 21.58                 | 23.00               | 1.387         | 0.127                 | 22.1             |
| Right cheek                              | 20        | QPSK       | 50_50              | 19100/1900     | 1:1        | 0.128          | 0.03             | 21.58                 | 23.00               | 1.387         | 0.178                 | 22.1             |
| Right tilted                             | 20        | QPSK       | 50_50              | 19100/1900     | 1:1        | 0.089          | 0.02             | 21.58                 | 23.00               | 1.387         | 0.123                 | 22.1             |
| Body worn Test data(Separate 15mm 1RB)   |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 1_0                | 18900/1880     | 1:1        | 0.397          | -0.05            | 22.45                 | 24.00               | 1.429         | 0.567                 | 22.1             |
| Back side                                | 20        | QPSK       | 1_0                | 18900/1880     | 1:1        | 0.483          | 0.00             | 22.45                 | 24.00               | 1.429         | 0.690                 | 22.1             |
| Body worn Test data(Separate 15mm 50%RB) |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 50_50              | 19100/1900     | 1:1        | 0.297          | 0.02             | 21.58                 | 23.00               | 1.387         | 0.412                 | 22.1             |
| Back side                                | 20        | QPSK       | 50_50              | 19100/1900     | 1:1        | 0.390          | 0.07             | 21.58                 | 23.00               | 1.387         | 0.541                 | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)     |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 1_0                | 18900/1880     | 1:1        | 0.306          | 0.10             | 19.66                 | 21.00               | 1.361         | 0.417                 | 22.1             |



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|                                                         |           |            |                    |                |            |                 |                  |                       |                     |               |                        |                  |
|---------------------------------------------------------|-----------|------------|--------------------|----------------|------------|-----------------|------------------|-----------------------|---------------------|---------------|------------------------|------------------|
| Back side                                               | 20        | QPSK       | 1_0                | 18900/1880     | 1:1        | 0.351           | 0.03             | 19.66                 | 21.00               | 1.361         | 0.478                  | 22.1             |
| Left side                                               | 20        | QPSK       | 1_0                | 18900/1880     | 1:1        | 0.122           | 0.17             | 19.66                 | 21.00               | 1.361         | 0.166                  | 22.1             |
| Bottom side                                             | 20        | QPSK       | 1_0                | 18900/1880     | 1:1        | 0.460           | 0.02             | 19.66                 | 21.00               | 1.361         | 0.626                  | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)                  |           |            |                    |                |            |                 |                  |                       |                     |               |                        |                  |
| Front side                                              | 20        | QPSK       | 50_0               | 18900/1880     | 1:1        | 0.305           | 0.06             | 19.55                 | 21.00               | 1.396         | 0.426                  | 22.1             |
| Back side                                               | 20        | QPSK       | 50_0               | 18900/1880     | 1:1        | 0.347           | 0.15             | 19.55                 | 21.00               | 1.396         | 0.485                  | 22.1             |
| Left side                                               | 20        | QPSK       | 50_0               | 18900/1880     | 1:1        | 0.129           | 0.05             | 19.55                 | 21.00               | 1.396         | 0.180                  | 22.1             |
| Bottom side                                             | 20        | QPSK       | 50_0               | 18900/1880     | 1:1        | 0.566           | 0.06             | 19.55                 | 21.00               | 1.396         | 0.790                  | 22.1             |
| Test position                                           | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
|                                                         | BW        | Modulation | RB Size_ RB offset |                |            |                 |                  |                       |                     |               |                        |                  |
| Product specific 10g SAR Test data(Separate 0mm 1RB)    |           |            |                    |                |            |                 |                  |                       |                     |               |                        |                  |
| Bottom side                                             | 20        | QPSK       | 1_0                | 18900/1880     | 1:1        | 2.150           | 0.09             | 22.45                 | 24.00               | 1.429         | 3.072                  | 22.1             |
| Bottom side                                             | 20        | QPSK       | 1_99               | 18700/1860     | 1:1        | 2.090           | 0.02             | 22.43                 | 24.00               | 1.435         | 3.000                  | 22.1             |
| Bottom side                                             | 20        | QPSK       | 1_50               | 19100/1900     | 1:1        | 2.250           | 0.16             | 22.44                 | 24.00               | 1.432         | 3.222                  | 22.1             |
| Bottom side-repeat                                      | 20        | QPSK       | 1_50               | 19100/1900     | 1:1        | 2.220           | 0.01             | 22.44                 | 24.00               | 1.432         | 3.179                  | 22.1             |
| Product specific 10g SAR Test data(Separate 0mm 50%RB)  |           |            |                    |                |            |                 |                  |                       |                     |               |                        |                  |
| Bottom side                                             | 20        | QPSK       | 50_50              | 19100/1900     | 1:1        | 1.850           | 0.13             | 21.58                 | 23.00               | 1.387         | 2.565                  | 22.1             |
| Bottom side                                             | 20        | QPSK       | 50_50              | 18700/1860     | 1:1        | 1.770           | 0.01             | 21.53                 | 23.00               | 1.403         | 2.483                  | 22.1             |
| Bottom side                                             | 20        | QPSK       | 50_50              | 18900/1880     | 1:1        | 1.810           | 0.14             | 21.50                 | 23.00               | 1.413         | 2.557                  | 22.1             |
| Product specific 10g SAR Test data(Separate 0mm 100%RB) |           |            |                    |                |            |                 |                  |                       |                     |               |                        |                  |
| Bottom side                                             | 20        | QPSK       | 100_0              | 18900/1880     | 1:1        | 1.780           | 0.17             | 21.41                 | 23.00               | 1.442         | 2.567                  | 22.1             |

Table 31: SAR of LTE Band 2 for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR  $< 1.2$  W/kg.

| Test Position   | Channel/Frequency (MHz) | Measured SAR (1g) | 1 <sup>st</sup> Repeated SAR (1g) | Ratio | 2 <sup>nd</sup> Repeated SAR (1g) | 3 <sup>rd</sup> Repeated SAR (1g) |
|-----------------|-------------------------|-------------------|-----------------------------------|-------|-----------------------------------|-----------------------------------|
| Bottom side 0mm | 19100/1900              | 2.250             | 2.220                             | 1.014 | N/A                               | N/A                               |

Note:

- 1) When the original highest measured SAR is  $\geq 0.80$  W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was  $> 1.20$  or when the original or repeated measurement was  $\geq 1.45$  W/kg ( $\sim 10\%$  from the 1-g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was  $\geq 1.5$  W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ .
- 4) Repeated measurements are not required when the original highest measured SAR is  $< 0.80$  W/kg



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### 8.3.7 SAR Result of LTE Band 4

| Ant 5 Test Record                        |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
|------------------------------------------|-----------|------------|--------------------|----------------|------------|----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------|
| Test position                            | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
|                                          | BW.       | Modulation | RB Size_ RB offset |                |            |                |                  |                       |                     |               |                       |                  |
| Head Test Data(1RB)                      |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 20        | QPSK       | 1_50               | 20175/1732.5   | 1:1        | 0.218          | 0.13             | 16.40                 | 17.50               | 1.288         | 0.281                 | 22.1             |
| Left tilted                              | 20        | QPSK       | 1_50               | 20175/1732.5   | 1:1        | 0.067          | 0.11             | 16.40                 | 17.50               | 1.288         | 0.086                 | 22.1             |
| Right cheek                              | 20        | QPSK       | 1_50               | 20175/1732.5   | 1:1        | 0.495          | 0.16             | 16.40                 | 17.50               | 1.288         | 0.638                 | 22.1             |
| Right tilted                             | 20        | QPSK       | 1_50               | 20175/1732.5   | 1:1        | 0.095          | 0.11             | 16.40                 | 17.50               | 1.288         | 0.122                 | 22.1             |
| Head Test Data(50%RB)                    |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 20        | QPSK       | 50_25              | 20050/1720     | 1:1        | 0.221          | 0.12             | 16.57                 | 17.50               | 1.239         | 0.274                 | 22.1             |
| Left tilted                              | 20        | QPSK       | 50_25              | 20050/1720     | 1:1        | 0.070          | 0.08             | 16.57                 | 17.50               | 1.239         | 0.087                 | 22.1             |
| Right cheek                              | 20        | QPSK       | 50_25              | 20050/1720     | 1:1        | 0.504          | 0.13             | 16.57                 | 17.50               | 1.239         | 0.624                 | 22.1             |
| Right tilted                             | 20        | QPSK       | 50_25              | 20050/1720     | 1:1        | 0.098          | 0.10             | 16.57                 | 17.50               | 1.239         | 0.122                 | 22.1             |
| Body worn Test data(Separate 15mm 1RB)   |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 1_50               | 20175/1732.5   | 1:1        | 0.122          | -0.17            | 22.23                 | 23.50               | 1.340         | 0.163                 | 22.1             |
| Back side                                | 20        | QPSK       | 1_50               | 20175/1732.5   | 1:1        | 0.215          | 0.05             | 22.23                 | 23.50               | 1.340         | 0.288                 | 22.1             |
| Body worn Test data(Separate 15mm 50%RB) |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 50_25              | 20050/1720     | 1:1        | 0.089          | 0.03             | 21.48                 | 22.50               | 1.265         | 0.113                 | 22.1             |
| Back side                                | 20        | QPSK       | 50_25              | 20050/1720     | 1:1        | 0.103          | 0.07             | 21.48                 | 22.50               | 1.265         | 0.130                 | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)     |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 1_50               | 20175/1732.5   | 1:1        | 0.059          | -0.19            | 16.40                 | 17.50               | 1.288         | 0.076                 | 22.1             |
| Back side                                | 20        | QPSK       | 1_50               | 20175/1732.5   | 1:1        | 0.070          | -0.02            | 16.40                 | 17.50               | 1.288         | 0.090                 | 22.1             |
| Left side                                | 20        | QPSK       | 1_50               | 20175/1732.5   | 1:1        | 0.144          | -0.03            | 16.40                 | 17.50               | 1.288         | 0.186                 | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)   |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 50_25              | 20050/1720     | 1:1        | 0.061          | 0.04             | 16.57                 | 17.50               | 1.239         | 0.076                 | 22.1             |
| Back side                                | 20        | QPSK       | 50_25              | 20050/1720     | 1:1        | 0.075          | -0.12            | 16.57                 | 17.50               | 1.239         | 0.093                 | 22.1             |
| Left side                                | 20        | QPSK       | 50_25              | 20050/1720     | 1:1        | 0.130          | -0.05            | 16.57                 | 17.50               | 1.239         | 0.161                 | 22.1             |
| Ant 10 Test Record                       |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Test position                            | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
|                                          | BW.       | Modulation | RB Size_ RB offset |                |            |                |                  |                       |                     |               |                       |                  |
| Head Test Data(1RB)                      |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 20        | QPSK       | 1_50               | 20175/1732.5   | 1:1        | 0.138          | 0.12             | 22.37                 | 24.00               | 1.455         | 0.201                 | 22.1             |
| Left tilted                              | 20        | QPSK       | 1_50               | 20175/1732.5   | 1:1        | 0.102          | 0.02             | 22.37                 | 24.00               | 1.455         | 0.148                 | 22.1             |
| Right cheek                              | 20        | QPSK       | 1_50               | 20175/1732.5   | 1:1        | 0.139          | 0.05             | 22.37                 | 24.00               | 1.455         | 0.202                 | 22.1             |
| Right tilted                             | 20        | QPSK       | 1_50               | 20175/1732.5   | 1:1        | 0.145          | 0.04             | 22.37                 | 24.00               | 1.455         | 0.211                 | 22.1             |
| Head Test Data(50%RB)                    |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 20        | QPSK       | 50_25              | 20300/1745     | 1:1        | 0.121          | 0.13             | 21.50                 | 23.00               | 1.413         | 0.171                 | 22.1             |
| Left tilted                              | 20        | QPSK       | 50_25              | 20300/1745     | 1:1        | 0.090          | 0.14             | 21.50                 | 23.00               | 1.413         | 0.128                 | 22.1             |
| Right cheek                              | 20        | QPSK       | 50_25              | 20300/1745     | 1:1        | 0.109          | 0.15             | 21.50                 | 23.00               | 1.413         | 0.154                 | 22.1             |
| Right tilted                             | 20        | QPSK       | 50_25              | 20300/1745     | 1:1        | 0.122          | 0.03             | 21.50                 | 23.00               | 1.413         | 0.172                 | 22.1             |



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| Body worn Test data(Separate 15mm 1RB)   |    |      |       |              |     |       |       |       |       |       |              |      |
|------------------------------------------|----|------|-------|--------------|-----|-------|-------|-------|-------|-------|--------------|------|
| Front side                               | 20 | QPSK | 1_50  | 20175/1732.5 | 1:1 | 0.282 | 0.05  | 22.37 | 24.00 | 1.455 | 0.410        | 22.1 |
| Back side                                | 20 | QPSK | 1_50  | 20175/1732.5 | 1:1 | 0.339 | 0.09  | 22.37 | 24.00 | 1.455 | <b>0.493</b> | 22.1 |
| Body worn Test data(Separate 15mm 50%RB) |    |      |       |              |     |       |       |       |       |       |              |      |
| Front side                               | 20 | QPSK | 50_25 | 20300/1745   | 1:1 | 0.255 | 0.13  | 21.50 | 23.00 | 1.413 | 0.360        | 22.1 |
| Back side                                | 20 | QPSK | 50_25 | 20300/1745   | 1:1 | 0.302 | 0.08  | 21.50 | 23.00 | 1.413 | 0.427        | 22.1 |
| Hotspot Test data(Separate 10mm 1RB)     |    |      |       |              |     |       |       |       |       |       |              |      |
| Front side                               | 20 | QPSK | 1_0   | 20300/1745   | 1:1 | 0.415 | -0.16 | 21.48 | 23.00 | 1.419 | 0.589        | 22.1 |
| Back side                                | 20 | QPSK | 1_0   | 20300/1745   | 1:1 | 0.447 | -0.01 | 21.48 | 23.00 | 1.419 | 0.634        | 22.1 |
| Left side                                | 20 | QPSK | 1_0   | 20300/1745   | 1:1 | 0.186 | -0.09 | 21.48 | 23.00 | 1.419 | 0.264        | 22.1 |
| Bottom side                              | 20 | QPSK | 1_0   | 20300/1745   | 1:1 | 0.516 | 0.14  | 21.48 | 23.00 | 1.419 | 0.732        | 22.1 |
| Hotspot Test data(Separate 10mm 50%RB)   |    |      |       |              |     |       |       |       |       |       |              |      |
| Front side                               | 20 | QPSK | 50_25 | 20300/1745   | 1:1 | 0.446 | 0.05  | 21.47 | 23.00 | 1.422 | 0.634        | 22.1 |
| Back side                                | 20 | QPSK | 50_25 | 20300/1745   | 1:1 | 0.479 | -0.17 | 21.47 | 23.00 | 1.422 | 0.681        | 22.1 |
| Left side                                | 20 | QPSK | 50_25 | 20300/1745   | 1:1 | 0.170 | -0.01 | 21.47 | 23.00 | 1.422 | 0.242        | 22.1 |
| Bottom side                              | 20 | QPSK | 50_25 | 20300/1745   | 1:1 | 0.653 | 0.06  | 21.47 | 23.00 | 1.422 | <b>0.929</b> | 22.1 |
| Bottom side                              | 20 | QPSK | 50_25 | 20050/1720   | 1:1 | 0.635 | 0.04  | 21.43 | 23.00 | 1.435 | 0.912        | 22.1 |
| Bottom side                              | 20 | QPSK | 50_25 | 20175/1732.5 | 1:1 | 0.644 | 0.03  | 21.42 | 23.00 | 1.439 | 0.927        | 22.1 |

Table 32: SAR of LTE Band 4 for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR  $< 1.2$  W/kg.



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### 8.3.8 SAR Result of LTE Band 5

| Ant 1 Test Record                        |           |            |                   |                |            |                |                  |                       |                     |               |                       |                  |
|------------------------------------------|-----------|------------|-------------------|----------------|------------|----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------|
| Test position                            | Test mode |            |                   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
|                                          | BW        | Modulation | RB Size_RB offset |                |            |                |                  |                       |                     |               |                       |                  |
| Head Test Data(1RB)                      |           |            |                   |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 10        | QPSK       | 1_0               | 20450/829      | 1:1        | 0.092          | 0.17             | 22.49                 | 23.50               | 1.262         | 0.116                 | 22.1             |
| Left tilted                              | 10        | QPSK       | 1_0               | 20450/829      | 1:1        | 0.040          | 0.05             | 22.49                 | 23.50               | 1.262         | 0.051                 | 22.1             |
| Right cheek                              | 10        | QPSK       | 1_0               | 20450/829      | 1:1        | 0.074          | 0.00             | 22.49                 | 23.50               | 1.262         | 0.094                 | 22.1             |
| Right tilted                             | 10        | QPSK       | 1_0               | 20450/829      | 1:1        | 0.078          | -0.12            | 22.49                 | 23.50               | 1.262         | 0.098                 | 22.1             |
| Head Test Data(50%RB)                    |           |            |                   |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 10        | QPSK       | 25_0              | 20450/829      | 1:1        | 0.075          | 0.01             | 21.47                 | 22.50               | 1.268         | 0.095                 | 22.1             |
| Left tilted                              | 10        | QPSK       | 25_0              | 20450/829      | 1:1        | 0.034          | 0.07             | 21.47                 | 22.50               | 1.268         | 0.044                 | 22.1             |
| Right cheek                              | 10        | QPSK       | 25_0              | 20450/829      | 1:1        | 0.066          | 0.00             | 21.47                 | 22.50               | 1.268         | 0.084                 | 22.1             |
| Right tilted                             | 10        | QPSK       | 25_0              | 20450/829      | 1:1        | 0.036          | -0.02            | 21.47                 | 22.50               | 1.268         | 0.046                 | 22.1             |
| Body worn Test data(Separate 15mm 1RB)   |           |            |                   |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 10        | QPSK       | 1_0               | 20450/829      | 1:1        | 0.107          | 0.04             | 22.49                 | 23.50               | 1.262         | 0.135                 | 22.1             |
| Back side                                | 10        | QPSK       | 1_0               | 20450/829      | 1:1        | 0.160          | 0.02             | 22.49                 | 23.50               | 1.262         | 0.202                 | 22.1             |
| Body worn Test data(Separate 15mm 50%RB) |           |            |                   |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 10        | QPSK       | 25_0              | 20450/829      | 1:1        | 0.093          | 0.00             | 21.47                 | 22.50               | 1.268         | 0.118                 | 22.1             |
| Back side                                | 10        | QPSK       | 25_0              | 20450/829      | 1:1        | 0.135          | -0.04            | 21.47                 | 22.50               | 1.268         | 0.171                 | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)     |           |            |                   |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 10        | QPSK       | 1_0               | 20450/829      | 1:1        | 0.207          | -0.04            | 22.49                 | 23.50               | 1.262         | 0.261                 | 22.1             |
| Back side                                | 10        | QPSK       | 1_0               | 20450/829      | 1:1        | 0.302          | 0.03             | 22.49                 | 23.50               | 1.262         | 0.381                 | 22.1             |
| Right side                               | 10        | QPSK       | 1_0               | 20450/829      | 1:1        | 0.063          | 0.19             | 22.49                 | 23.50               | 1.262         | 0.079                 | 22.1             |
| Bottom Side                              | 10        | QPSK       | 1_0               | 20450/829      | 1:1        | 0.115          | 0.11             | 22.49                 | 23.50               | 1.262         | 0.145                 | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)   |           |            |                   |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 10        | QPSK       | 25_0              | 20450/829      | 1:1        | 0.180          | 0.19             | 21.47                 | 22.50               | 1.268         | 0.228                 | 22.1             |
| Back side                                | 10        | QPSK       | 25_0              | 20450/829      | 1:1        | 0.237          | 0.05             | 21.47                 | 22.50               | 1.268         | 0.300                 | 22.1             |
| Right side                               | 10        | QPSK       | 25_0              | 20450/829      | 1:1        | 0.055          | -0.09            | 21.47                 | 22.50               | 1.268         | 0.070                 | 22.1             |
| Bottom Side                              | 10        | QPSK       | 25_0              | 20450/829      | 1:1        | 0.098          | -0.02            | 21.47                 | 22.50               | 1.268         | 0.124                 | 22.1             |
| Ant 4 Test Record                        |           |            |                   |                |            |                |                  |                       |                     |               |                       |                  |
| Test position                            | Test mode |            |                   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
|                                          | BW        | Modulation | RB Size_RB offset |                |            |                |                  |                       |                     |               |                       |                  |
| Head Test Data(1RB)                      |           |            |                   |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 10        | QPSK       | 1_0               | 20525/836.5    | 1:1        | 0.535          | 0.14             | 21.35                 | 22.50               | 1.303         | 0.697                 | 22.1             |
| Left tilted                              | 10        | QPSK       | 1_0               | 20525/836.5    | 1:1        | 0.539          | 0.02             | 21.35                 | 22.50               | 1.303         | 0.702                 | 22.1             |
| Right cheek                              | 10        | QPSK       | 1_0               | 20525/836.5    | 1:1        | 0.605          | 0.02             | 21.35                 | 22.50               | 1.303         | 0.788                 | 22.1             |
| Right tilted                             | 10        | QPSK       | 1_0               | 20525/836.5    | 1:1        | 0.581          | -0.08            | 21.35                 | 22.50               | 1.303         | 0.757                 | 22.1             |
| Head Test Data(50%RB)                    |           |            |                   |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 10        | QPSK       | 25_25             | 20525/836.5    | 1:1        | 0.585          | -0.06            | 21.37                 | 22.50               | 1.297         | 0.759                 | 22.1             |
| Left tilted                              | 10        | QPSK       | 25_25             | 20525/836.5    | 1:1        | 0.573          | 0.03             | 21.37                 | 22.50               | 1.297         | 0.743                 | 22.1             |



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|                                          |    |      |       |             |     |       |       |       |       |       |              |      |
|------------------------------------------|----|------|-------|-------------|-----|-------|-------|-------|-------|-------|--------------|------|
| Right cheek                              | 10 | QPSK | 25_25 | 20525/836.5 | 1:1 | 0.705 | 0.02  | 21.37 | 22.50 | 1.297 | 0.915        | 22.1 |
| Right cheek                              | 10 | QPSK | 25_25 | 20450/829   | 1:1 | 0.673 | 0.03  | 21.21 | 22.50 | 1.346 | 0.906        | 22.1 |
| Right cheek                              | 10 | QPSK | 25_0  | 20600/844   | 1:1 | 0.701 | 0.04  | 21.32 | 22.50 | 1.312 | <b>0.920</b> | 22.1 |
| Right tilted                             | 10 | QPSK | 25_25 | 20525/836.5 | 1:1 | 0.621 | 0.03  | 21.37 | 22.50 | 1.297 | 0.806        | 22.1 |
| Right tilted                             | 10 | QPSK | 25_25 | 20450/829   | 1:1 | 0.616 | 0.06  | 21.21 | 22.50 | 1.346 | 0.829        | 22.1 |
| Right tilted                             | 10 | QPSK | 25_0  | 20600/844   | 1:1 | 0.627 | 0.07  | 21.32 | 22.50 | 1.312 | 0.823        | 22.1 |
| Head Test Data(100%RB)                   |    |      |       |             |     |       |       |       |       |       |              |      |
| Right cheek                              | 10 | QPSK | 50_0  | 20600/844   | 1:1 | 0.686 | 0.02  | 21.36 | 22.50 | 1.300 | 0.892        | 22.1 |
| Right tilted                             | 10 | QPSK | 50_0  | 20600/844   | 1:1 | 0.607 | 0.06  | 21.36 | 22.50 | 1.300 | 0.789        | 22.1 |
| Body worn Test data(Separate 15mm 1RB)   |    |      |       |             |     |       |       |       |       |       |              |      |
| Front side                               | 10 | QPSK | 1_0   | 20525/836.5 | 1:1 | 0.135 | 0.18  | 23.75 | 24.50 | 1.189 | 0.160        | 22.1 |
| Back side                                | 10 | QPSK | 1_0   | 20525/836.5 | 1:1 | 0.219 | -0.10 | 23.75 | 24.50 | 1.189 | <b>0.260</b> | 22.1 |
| Body worn Test data(Separate 15mm 50%RB) |    |      |       |             |     |       |       |       |       |       |              |      |
| Front side                               | 10 | QPSK | 25_25 | 20450/829   | 1:1 | 0.100 | -0.11 | 22.68 | 23.50 | 1.208 | 0.121        | 22.1 |
| Back side                                | 10 | QPSK | 25_25 | 20450/829   | 1:1 | 0.112 | -0.06 | 22.68 | 23.50 | 1.208 | 0.135        | 22.1 |
| Hotspot Test data(Separate 10mm 1RB)     |    |      |       |             |     |       |       |       |       |       |              |      |
| Front side                               | 10 | QPSK | 1_0   | 20525/836.5 | 1:1 | 0.169 | 0.00  | 21.35 | 22.50 | 1.303 | 0.220        | 22.1 |
| Back side                                | 10 | QPSK | 1_0   | 20525/836.5 | 1:1 | 0.170 | 0.01  | 21.35 | 22.50 | 1.303 | 0.222        | 22.1 |
| Left side                                | 10 | QPSK | 1_0   | 20525/836.5 | 1:1 | 0.090 | -0.10 | 21.35 | 22.50 | 1.303 | 0.117        | 22.1 |
| Top side                                 | 10 | QPSK | 1_0   | 20525/836.5 | 1:1 | 0.177 | -0.19 | 21.35 | 22.50 | 1.303 | 0.231        | 22.1 |
| Hotspot Test data(Separate 10mm 50%RB)   |    |      |       |             |     |       |       |       |       |       |              |      |
| Front side                               | 10 | QPSK | 25_25 | 20525/836.5 | 1:1 | 0.176 | 0.14  | 21.37 | 22.50 | 1.297 | 0.228        | 22.1 |
| Back side                                | 10 | QPSK | 25_25 | 20525/836.5 | 1:1 | 0.179 | -0.15 | 21.37 | 22.50 | 1.297 | 0.232        | 22.1 |
| Left side                                | 10 | QPSK | 25_25 | 20525/836.5 | 1:1 | 0.095 | -0.08 | 21.37 | 22.50 | 1.297 | 0.123        | 22.1 |
| Top side                                 | 10 | QPSK | 25_25 | 20525/836.5 | 1:1 | 0.241 | 0.17  | 21.37 | 22.50 | 1.297 | <b>0.313</b> | 22.1 |

Table 33: SAR of LTE Band 5 for Head and Body.

Note:

- 1)The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is not required for such test configuration(s).
- 3)Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR  $> 1.2$  W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:





### 8.3.9 SAR Result of LTE Band 7

| Ant 5 Test Record                        |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
|------------------------------------------|-----------|------------|--------------------|----------------|------------|----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------|
| Test position                            | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
|                                          | BW.       | Modulation | RB Size_ RB offset |                |            |                |                  |                       |                     |               |                       |                  |
| Head Test Data(1RB)                      |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 20        | QPSK       | 1_50               | 20850/2510     | 1:1        | 0.141          | 0.04             | 13.90                 | 14.50               | 1.148         | 0.162                 | 22.1             |
| Left tilted                              | 20        | QPSK       | 1_50               | 20850/2510     | 1:1        | 0.044          | 0.01             | 13.90                 | 14.50               | 1.148         | 0.051                 | 22.1             |
| Right cheek                              | 20        | QPSK       | 1_50               | 20850/2510     | 1:1        | 0.430          | 0.09             | 13.90                 | 14.50               | 1.148         | 0.494                 | 22.1             |
| Right tilted                             | 20        | QPSK       | 1_50               | 20850/2510     | 1:1        | 0.091          | 0.08             | 13.90                 | 14.50               | 1.148         | 0.104                 | 22.1             |
| Head Test Data(50%RB)                    |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 20        | QPSK       | 50_25              | 20850/2510     | 1:1        | 0.143          | 0.14             | 13.77                 | 14.50               | 1.183         | 0.169                 | 22.1             |
| Left tilted                              | 20        | QPSK       | 50_25              | 20850/2510     | 1:1        | 0.045          | 0.05             | 13.77                 | 14.50               | 1.183         | 0.053                 | 22.1             |
| Right cheek                              | 20        | QPSK       | 50_25              | 20850/2510     | 1:1        | 0.428          | -0.19            | 13.77                 | 14.50               | 1.183         | 0.506                 | 22.1             |
| Right cheek                              | 20        | QPSK       | PCC 1_99           | 20850/2510     | 1:1        | 0.412          | -0.05            | 14.19                 | 14.50               | 1.074         | 0.442                 | 22.1             |
|                                          |           |            | SCC 1_0            | 21048/2529.8   |            |                |                  |                       |                     |               |                       |                  |
| Right tilted                             | 20        | QPSK       | 50_25              | 20850/2510     | 1:1        | 0.087          | 0.05             | 13.77                 | 14.50               | 1.183         | 0.103                 | 22.1             |
| Body worn Test data(Separate 15mm 1RB)   |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 1_0                | 21350/2560     | 1:1        | 0.189          | -0.02            | 20.29                 | 21.00               | 1.178         | 0.223                 | 22.1             |
| Back side                                | 20        | QPSK       | 1_0                | 21350/2560     | 1:1        | 0.238          | 0.07             | 20.29                 | 21.00               | 1.178         | 0.280                 | 22.1             |
| Back side                                | 20        | QPSK       | PCC 1_0            | 21350/2560     | 1:1        | 0.193          | -0.11            | 20.53                 | 21.00               | 1.114         | 0.215                 | 22.1             |
|                                          |           |            | SCC 1_99           | 21152/2540.2   |            |                |                  |                       |                     |               |                       |                  |
| Body worn Test data(Separate 15mm 50%RB) |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 50_0               | 21100/2535     | 1:1        | 0.145          | -0.18            | 19.44                 | 20.00               | 1.138         | 0.165                 | 22.1             |
| Front side                               | 20        | QPSK       | 50_0               | 21100/2535     | 1:1        | 0.141          | -0.08            | 19.44                 | 20.00               | 1.138         | 0.160                 | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)     |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 1_50               | 20850/2510     | 1:1        | 0.075          | -0.08            | 13.90                 | 14.50               | 1.148         | 0.086                 | 22.1             |
| Back side                                | 20        | QPSK       | 1_50               | 20850/2510     | 1:1        | 0.071          | -0.08            | 13.90                 | 14.50               | 1.148         | 0.082                 | 22.1             |
| Left side                                | 20        | QPSK       | 1_50               | 20850/2510     | 1:1        | 0.104          | 0.15             | 13.90                 | 14.50               | 1.148         | 0.119                 | 22.1             |
| Left side                                | 20        | QPSK       | PCC 1_99           | 20850/2510     | 1:1        | 0.093          | -0.01            | 14.19                 | 14.50               | 1.074         | 0.100                 | 22.1             |
|                                          |           |            | SCC 1_0            | 21048/2529.8   |            |                |                  |                       |                     |               |                       |                  |
| Hotspot Test data(Separate 10mm 50%RB)   |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 50_25              | 20850/2510     | 1:1        | 0.074          | 0.02             | 13.77                 | 14.50               | 1.183         | 0.088                 | 22.1             |
| Back side                                | 20        | QPSK       | 50_25              | 20850/2510     | 1:1        | 0.069          | -0.13            | 13.77                 | 14.50               | 1.183         | 0.082                 | 22.1             |
| Left side                                | 20        | QPSK       | 50_25              | 20850/2510     | 1:1        | 0.081          | -0.11            | 13.77                 | 14.50               | 1.183         | 0.096                 | 22.1             |
| Ant 10 Test Record                       |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Test position                            | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
|                                          | BW.       | Modulation | RB Size_ RB offset |                |            |                |                  |                       |                     |               |                       |                  |
| Head Test Data(1RB)                      |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 20        | QPSK       | 1_0                | 21350/2560     | 1:1        | 0.212          | 0.09             | 23.16                 | 24.00               | 1.213         | 0.257                 | 22.1             |
| Left cheek                               | 20        | QPSK       | PCC 1_0            | 21350/2560     | 1:1        | 0.203          | 0.11             | 23.12                 | 24.00               | 1.225         | 0.249                 | 22.1             |
|                                          |           |            | SCC 1_99           | 21152/2540.2   |            |                |                  |                       |                     |               |                       |                  |



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|                                          |    |      |          |              |     |       |       |       |       |       |       |      |
|------------------------------------------|----|------|----------|--------------|-----|-------|-------|-------|-------|-------|-------|------|
| Left tilted                              | 20 | QPSK | 1_0      | 21350/2560   | 1:1 | 0.086 | 0.00  | 23.16 | 24.00 | 1.213 | 0.105 | 22.1 |
| Right cheek                              | 20 | QPSK | 1_0      | 21350/2560   | 1:1 | 0.151 | 0.09  | 23.16 | 24.00 | 1.213 | 0.183 | 22.1 |
| Right tilted                             | 20 | QPSK | 1_0      | 21350/2560   | 1:1 | 0.056 | 0.00  | 23.16 | 24.00 | 1.213 | 0.068 | 22.1 |
| Head Test Data(50%RB)                    |    |      |          |              |     |       |       |       |       |       |       |      |
| Left cheek                               | 20 | QPSK | 50_25    | 20850/2510   | 1:1 | 0.176 | 0.00  | 22.25 | 23.00 | 1.189 | 0.209 | 22.1 |
| Left tilted                              | 20 | QPSK | 50_25    | 20850/2510   | 1:1 | 0.069 | 0.00  | 22.25 | 23.00 | 1.189 | 0.082 | 22.1 |
| Right cheek                              | 20 | QPSK | 50_25    | 20850/2510   | 1:1 | 0.140 | 0.01  | 22.25 | 23.00 | 1.189 | 0.166 | 22.1 |
| Right tilted                             | 20 | QPSK | 50_25    | 20850/2510   | 1:1 | 0.041 | -0.08 | 22.25 | 23.00 | 1.189 | 0.048 | 22.1 |
| Body worn Test data(Separate 15mm 1RB)   |    |      |          |              |     |       |       |       |       |       |       |      |
| Front side                               | 20 | QPSK | 1_0      | 21350/2560   | 1:1 | 0.317 | -0.16 | 23.16 | 24.00 | 1.213 | 0.385 | 22.1 |
| Back side                                | 20 | QPSK | 1_0      | 21350/2560   | 1:1 | 0.449 | -0.05 | 23.16 | 24.00 | 1.213 | 0.545 | 22.1 |
| Back side                                | 20 | QPSK | PCC 1_0  | 21350/2560   | 1:1 | 0.385 | 0.03  | 23.12 | 24.00 | 1.225 | 0.471 | 22.1 |
|                                          |    |      | SCC 1_99 | 21152/2540.2 |     |       |       |       |       |       |       |      |
| Body worn Test data(Separate 15mm 50%RB) |    |      |          |              |     |       |       |       |       |       |       |      |
| Front side                               | 20 | QPSK | 50_25    | 20850/2510   | 1:1 | 0.251 | 0.19  | 22.25 | 23.00 | 1.189 | 0.298 | 22.1 |
| Back side                                | 20 | QPSK | 50_25    | 20850/2510   | 1:1 | 0.312 | -0.19 | 22.25 | 23.00 | 1.189 | 0.371 | 22.1 |
| Hotspot Test data(Separate 10mm 1RB)     |    |      |          |              |     |       |       |       |       |       |       |      |
| Front side                               | 20 | QPSK | 1_99     | 20850/2510   | 1:1 | 0.234 | 0.16  | 18.59 | 20.00 | 1.384 | 0.324 | 22.1 |
| Back side                                | 20 | QPSK | 1_99     | 20850/2510   | 1:1 | 0.289 | 0.16  | 18.59 | 20.00 | 1.384 | 0.400 | 22.1 |
| Left side                                | 20 | QPSK | 1_99     | 20850/2510   | 1:1 | 0.102 | -0.14 | 18.59 | 20.00 | 1.384 | 0.141 | 22.1 |
| Bottom side                              | 20 | QPSK | 1_99     | 20850/2510   | 1:1 | 0.264 | -0.07 | 18.59 | 20.00 | 1.384 | 0.365 | 22.1 |
| Hotspot Test data(Separate 10mm 50%RB)   |    |      |          |              |     |       |       |       |       |       |       |      |
| Front side                               | 20 | QPSK | 50_50    | 20850/2510   | 1:1 | 0.232 | 0.04  | 18.57 | 20.00 | 1.390 | 0.322 | 22.1 |
| Back side                                | 20 | QPSK | 50_50    | 20850/2510   | 1:1 | 0.386 | 0.08  | 18.57 | 20.00 | 1.390 | 0.537 | 22.1 |
| Back side                                | 20 | QPSK | PCC 1_99 | 20850/2510   | 1:1 | 0.334 | 0.02  | 19.59 | 20.00 | 1.099 | 0.367 | 22.1 |
|                                          |    |      | SCC 1_0  | 21048/2529.8 |     |       |       |       |       |       |       |      |
| Left side                                | 20 | QPSK | 50_50    | 20850/2510   | 1:1 | 0.107 | 0.00  | 18.57 | 20.00 | 1.390 | 0.149 | 22.1 |
| Bottom side                              | 20 | QPSK | 50_50    | 20850/2510   | 1:1 | 0.273 | 0.15  | 18.57 | 20.00 | 1.390 | 0.379 | 22.1 |

Table 34: SAR of LTE Band 7 for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB648474D04, when hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR  $> 1.2$  W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold:



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### 8.3.10 SAR Result of LTE Band 38

| Ant 5 Test Record                        |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
|------------------------------------------|-----------|------------|--------------------|----------------|------------|----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------|
| Test position                            | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
|                                          | BW.       | Modulation | RB Size_ RB offset |                |            |                |                  |                       |                     |               |                       |                  |
| Head Test Data(1RB)                      |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 20        | QPSK       | 1_0                | 38150/2610     | 1:1.58     | 0.178          | 0.05             | 16.88                 | 17.50               | 1.153         | 0.205                 | 22.1             |
| Left tilted                              | 20        | QPSK       | 1_0                | 38150/2610     | 1:1.58     | 0.062          | 0.08             | 16.88                 | 17.50               | 1.153         | 0.071                 | 22.1             |
| Right cheek                              | 20        | QPSK       | 1_0                | 38150/2610     | 1:1.58     | 0.503          | 0.02             | 16.88                 | 17.50               | 1.153         | 0.580                 | 22.1             |
| Right cheek                              | 20        | QPSK       | PCC 1_0            | 38150/2610     | 1:1.58     | 0.473          | 0.15             | 17.11                 | 17.50               | 1.094         | 0.517                 | 22.1             |
|                                          |           |            | SCC 1_99           | 37952/2590.2   |            |                |                  |                       |                     |               |                       |                  |
| Right tilted                             | 20        | QPSK       | 1_0                | 38150/2610     | 1:1.58     | 0.111          | 0.08             | 16.88                 | 17.50               | 1.153         | 0.128                 | 22.1             |
| Head Test Data(50%RB)                    |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 20        | QPSK       | 50_25              | 38150/2610     | 1:1.58     | 0.183          | 0.03             | 16.86                 | 17.50               | 1.159         | 0.212                 | 22.1             |
| Left tilted                              | 20        | QPSK       | 50_25              | 38150/2610     | 1:1.58     | 0.063          | -0.04            | 16.86                 | 17.50               | 1.159         | 0.073                 | 22.1             |
| Right cheek                              | 20        | QPSK       | 50_25              | 38150/2610     | 1:1.58     | 0.497          | 0.04             | 16.86                 | 17.50               | 1.159         | 0.576                 | 22.1             |
| Right tilted                             | 20        | QPSK       | 50_25              | 38150/2610     | 1:1.58     | 0.109          | 0.09             | 16.86                 | 17.50               | 1.159         | 0.126                 | 22.1             |
| Body worn Test data(Separate 15mm 1RB)   |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 1_0                | 38000/2595     | 1:1.58     | 0.193          | -0.16            | 22.27                 | 23.00               | 1.183         | 0.228                 | 22.1             |
| Back side                                | 20        | QPSK       | 1_0                | 38000/2595     | 1:1.58     | 0.229          | -0.09            | 22.27                 | 23.00               | 1.183         | 0.271                 | 22.1             |
| Back side                                | 20        | QPSK       | PCC 1_99           | 37850/2580     | 1:1.58     | 0.207          | -0.06            | 22.51                 | 23.00               | 1.119         | 0.232                 | 22.1             |
|                                          |           |            | SCC 1_0            | 38048/2599.8   |            |                |                  |                       |                     |               |                       |                  |
| Body worn Test data(Separate 15mm 50%RB) |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 50_25              | 38150/2610     | 1:1.58     | 0.149          | -0.13            | 21.31                 | 22.00               | 1.172         | 0.175                 | 22.1             |
| Back side                                | 20        | QPSK       | 50_25              | 38150/2610     | 1:1.58     | 0.155          | 0.17             | 21.31                 | 22.00               | 1.172         | 0.182                 | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)     |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 1_0                | 38150/2610     | 1:1.58     | 0.101          | -0.06            | 16.88                 | 17.50               | 1.153         | 0.116                 | 22.1             |
| Back side                                | 20        | QPSK       | 1_0                | 38150/2610     | 1:1.58     | 0.112          | 0.19             | 16.88                 | 17.50               | 1.153         | 0.129                 | 22.1             |
| Left side                                | 20        | QPSK       | 1_0                | 38150/2610     | 1:1.58     | 0.160          | 0.10             | 16.88                 | 17.50               | 1.153         | 0.185                 | 22.1             |
| Left side                                | 20        | QPSK       | PCC 1_0            | 38150/2610     | 1:1.58     | 0.147          | -0.03            | 17.11                 | 17.50               | 1.094         | 0.161                 | 22.1             |
|                                          |           |            | SCC 1_99           | 37952/2590.2   |            |                |                  |                       |                     |               |                       |                  |
| Hotspot Test data(Separate 10mm 50%RB)   |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 50_25              | 38150/2610     | 1:1.58     | 0.106          | -0.14            | 16.86                 | 17.50               | 1.159         | 0.123                 | 22.1             |
| Back side                                | 20        | QPSK       | 50_25              | 38150/2610     | 1:1.58     | 0.102          | 0.18             | 16.86                 | 17.50               | 1.159         | 0.118                 | 22.1             |
| Left side                                | 20        | QPSK       | 50_25              | 38150/2610     | 1:1.58     | 0.139          | -0.05            | 16.86                 | 17.50               | 1.159         | 0.161                 | 22.1             |
| Ant 10 Test Record                       |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Test position                            | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
|                                          | BW.       | Modulation | RB Size_ RB offset |                |            |                |                  |                       |                     |               |                       |                  |
| Head Test Data(1RB)                      |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 20        | QPSK       | 1_50               | 38000/2595     | 1:1.58     | 0.130          | -0.01            | 23.21                 | 24.00               | 1.199         | 0.156                 | 22.1             |
| Left cheek                               | 20        | QPSK       | PCC 1_99           | 37850/2580     | 1:1.58     | 0.104          | 0.05             | 23.42                 | 24.00               | 1.143         | 0.119                 | 22.1             |
|                                          |           |            | SCC 1_0            | 38048/2599.8   |            |                |                  |                       |                     |               |                       |                  |



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|                                          |    |      |          |              |        |       |       |       |       |       |       |      |
|------------------------------------------|----|------|----------|--------------|--------|-------|-------|-------|-------|-------|-------|------|
| Left tilted                              | 20 | QPSK | 1_50     | 38000/2595   | 1:1.58 | 0.044 | 0.00  | 23.21 | 24.00 | 1.199 | 0.052 | 22.1 |
| Right cheek                              | 20 | QPSK | 1_50     | 38000/2595   | 1:1.58 | 0.084 | -0.02 | 23.21 | 24.00 | 1.199 | 0.101 | 22.1 |
| Right tilted                             | 20 | QPSK | 1_50     | 38000/2595   | 1:1.58 | 0.036 | 0.00  | 23.21 | 24.00 | 1.199 | 0.043 | 22.1 |
| Head Test Data(50%RB)                    |    |      |          |              |        |       |       |       |       |       |       |      |
| Left cheek                               | 20 | QPSK | 50_25    | 38150/2610   | 1:1.58 | 0.108 | 0.00  | 22.26 | 23.00 | 1.186 | 0.128 | 22.1 |
| Left tilted                              | 20 | QPSK | 50_25    | 38150/2610   | 1:1.58 | 0.051 | 0.00  | 22.26 | 23.00 | 1.186 | 0.061 | 22.1 |
| Right cheek                              | 20 | QPSK | 50_25    | 38150/2610   | 1:1.58 | 0.083 | -0.03 | 22.26 | 23.00 | 1.186 | 0.098 | 22.1 |
| Right tilted                             | 20 | QPSK | 50_25    | 38150/2610   | 1:1.58 | 0.034 | -0.02 | 22.26 | 23.00 | 1.186 | 0.040 | 22.1 |
| Body worn Test data(Separate 15mm 1RB)   |    |      |          |              |        |       |       |       |       |       |       |      |
| Front side                               | 20 | QPSK | 1_50     | 38000/2595   | 1:1.58 | 0.189 | 0.06  | 23.21 | 24.00 | 1.199 | 0.227 | 22.1 |
| Back side                                | 20 | QPSK | 1_50     | 38000/2595   | 1:1.58 | 0.279 | 0.11  | 23.21 | 24.00 | 1.199 | 0.335 | 22.1 |
| Back side                                | 20 | QPSK | PCC 1_99 | 37850/2580   | 1:1.58 | 0.237 | 0.04  | 23.42 | 24.00 | 1.143 | 0.271 | 22.1 |
|                                          |    |      | SCC 1_0  | 38048/2599.8 |        |       |       |       |       |       |       |      |
| Body worn Test data(Separate 15mm 50%RB) |    |      |          |              |        |       |       |       |       |       |       |      |
| Front side                               | 20 | QPSK | 50_25    | 38150/2610   | 1:1.58 | 0.149 | -0.01 | 22.26 | 23.00 | 1.186 | 0.177 | 22.1 |
| Back side                                | 20 | QPSK | 50_25    | 38150/2610   | 1:1.58 | 0.186 | 0.13  | 22.26 | 23.00 | 1.186 | 0.221 | 22.1 |
| Hotspot Test data(Separate 10mm 1RB)     |    |      |          |              |        |       |       |       |       |       |       |      |
| Front side                               | 20 | QPSK | 1_0      | 37850/2580   | 1:1.58 | 0.220 | -0.19 | 20.66 | 22.00 | 1.361 | 0.300 | 22.1 |
| Back side                                | 20 | QPSK | 1_0      | 37850/2580   | 1:1.58 | 0.384 | 0.04  | 20.66 | 22.00 | 1.361 | 0.523 | 22.1 |
| Back side                                | 20 | QPSK | PCC 1_99 | 37850/2580   | 1:1.58 | 0.351 | 0.13  | 21.74 | 22.00 | 1.062 | 0.373 | 22.1 |
|                                          |    |      | SCC 1_0  | 38048/2599.8 |        |       |       |       |       |       |       |      |
| Left side                                | 20 | QPSK | 1_0      | 37850/2580   | 1:1.58 | 0.097 | 0.05  | 20.66 | 22.00 | 1.361 | 0.132 | 22.1 |
| Bottom side                              | 20 | QPSK | 1_0      | 37850/2580   | 1:1.58 | 0.270 | -0.16 | 20.66 | 22.00 | 1.361 | 0.368 | 22.1 |
| Hotspot Test data(Separate 10mm 50%RB)   |    |      |          |              |        |       |       |       |       |       |       |      |
| Front side                               | 20 | QPSK | 50_25    | 38000/2595   | 1:1.58 | 0.218 | -0.13 | 20.62 | 22.00 | 1.374 | 0.300 | 22.1 |
| Back side                                | 20 | QPSK | 50_25    | 38000/2595   | 1:1.58 | 0.284 | -0.14 | 20.62 | 22.00 | 1.374 | 0.390 | 22.1 |
| Left side                                | 20 | QPSK | 50_25    | 38000/2595   | 1:1.58 | 0.088 | -0.12 | 20.62 | 22.00 | 1.374 | 0.121 | 22.1 |
| Bottom side                              | 20 | QPSK | 50_25    | 38000/2595   | 1:1.58 | 0.272 | -0.15 | 20.62 | 22.00 | 1.374 | 0.374 | 22.1 |

Table 35: SAR of LTE Band 38 for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR  $< 1.2$  W/kg.



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### 8.3.11 SAR Result of LTE Band 41

| Ant 5 Test Record                        |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
|------------------------------------------|-----------|------------|--------------------|----------------|------------|----------------|------------------|-----------------------|---------------------|---------------|-----------------------|------------------|
| Test position                            | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
|                                          | BW.       | Modulation | RB Size_ RB offset |                |            |                |                  |                       |                     |               |                       |                  |
| Head Test Data(1RB)                      |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 20        | QPSK       | 1_0                | 40185/2549.5   | 1:1.58     | 0.151          | 0.02             | 15.76                 | 16.50               | 1.186         | 0.179                 | 22.1             |
| Left tilted                              | 20        | QPSK       | 1_0                | 40185/2549.5   | 1:1.58     | 0.047          | -0.08            | 15.76                 | 16.50               | 1.186         | 0.055                 | 22.1             |
| Right cheek                              | 20        | QPSK       | 1_0                | 40185/2549.5   | 1:1.58     | 0.430          | 0.04             | 15.76                 | 16.50               | 1.186         | 0.510                 | 22.1             |
| Right tilted                             | 20        | QPSK       | 1_0                | 40620/2593     | 1:1.58     | 0.081          | 0.08             | 15.76                 | 16.50               | 1.186         | 0.096                 | 22.1             |
| Head Test Data(50%RB)                    |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 20        | QPSK       | 50_25              | 41490/2680     | 1:1.58     | 0.116          | 0.01             | 15.84                 | 16.50               | 1.164         | 0.135                 | 22.1             |
| Left tilted                              | 20        | QPSK       | 50_25              | 41490/2680     | 1:1.58     | 0.037          | 0.03             | 15.84                 | 16.50               | 1.164         | 0.042                 | 22.1             |
| Right cheek                              | 20        | QPSK       | 50_25              | 41490/2680     | 1:1.58     | 0.318          | -0.02            | 15.84                 | 16.50               | 1.164         | 0.370                 | 22.1             |
| Right tilted                             | 20        | QPSK       | 50_25              | 41490/2680     | 1:1.58     | 0.063          | 0.06             | 15.84                 | 16.50               | 1.164         | 0.073                 | 22.1             |
| Body worn Test data(Separate 15mm 1RB)   |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 1_50               | 41490/2680     | 1:1.58     | 0.150          | 0.01             | 22.68                 | 23.50               | 1.208         | 0.181                 | 22.1             |
| Back side                                | 20        | QPSK       | 1_50               | 41490/2680     | 1:1.58     | 0.183          | -0.14            | 22.68                 | 23.50               | 1.208         | 0.221                 | 22.1             |
| Body worn Test data(Separate 15mm 50%RB) |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 50_50              | 41490/2680     | 1:1.58     | 0.122          | -0.10            | 21.72                 | 22.50               | 1.197         | 0.146                 | 22.1             |
| Back side                                | 20        | QPSK       | 50_50              | 41490/2680     | 1:1.58     | 0.119          | -0.05            | 21.72                 | 22.50               | 1.197         | 0.142                 | 22.1             |
| Hotspot Test data(Separate 10mm 1RB)     |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 1_0                | 40185/2549.5   | 1:1.58     | 0.080          | -0.18            | 15.76                 | 16.50               | 1.186         | 0.095                 | 22.1             |
| Back side                                | 20        | QPSK       | 1_0                | 40185/2549.5   | 1:1.58     | 0.073          | -0.12            | 15.76                 | 16.50               | 1.186         | 0.087                 | 22.1             |
| Left side                                | 20        | QPSK       | 1_0                | 40185/2549.5   | 1:1.58     | 0.098          | 0.05             | 15.76                 | 16.50               | 1.186         | 0.116                 | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB)   |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Front side                               | 20        | QPSK       | 50_25              | 41490/2680     | 1:1.58     | 0.080          | -0.09            | 15.84                 | 16.50               | 1.164         | 0.093                 | 22.1             |
| Back side                                | 20        | QPSK       | 50_25              | 41490/2680     | 1:1.58     | 0.071          | -0.19            | 15.84                 | 16.50               | 1.164         | 0.083                 | 22.1             |
| Left side                                | 20        | QPSK       | 50_25              | 41490/2680     | 1:1.58     | 0.135          | 0.06             | 15.84                 | 16.50               | 1.164         | 0.157                 | 22.1             |
| Ant 10 Test Record                       |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Test position                            | Test mode |            |                    | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm)  | Tune up Limit (dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
|                                          | BW.       | Modulation | RB Size_ RB offset |                |            |                |                  |                       |                     |               |                       |                  |
| Head Test Data(1RB)                      |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 20        | QPSK       | 1_0                | 39750/2506     | 1:1.58     | 0.146          | 0.06             | 22.64                 | 24.00               | 1.368         | 0.200                 | 22.1             |
| Left tilted                              | 20        | QPSK       | 1_0                | 39750/2506     | 1:1.58     | 0.044          | 0.00             | 22.64                 | 24.00               | 1.368         | 0.060                 | 22.1             |
| Right cheek                              | 20        | QPSK       | 1_0                | 39750/2506     | 1:1.58     | 0.076          | 0.00             | 22.64                 | 24.00               | 1.368         | 0.104                 | 22.1             |
| Right tilted                             | 20        | QPSK       | 1_0                | 39750/2506     | 1:1.58     | 0.032          | -0.01            | 22.64                 | 24.00               | 1.368         | 0.043                 | 22.1             |
| Head Test Data(50%RB)                    |           |            |                    |                |            |                |                  |                       |                     |               |                       |                  |
| Left cheek                               | 20        | QPSK       | 50_25              | 39750/2506     | 1:1.58     | 0.102          | 0.00             | 21.68                 | 23.00               | 1.355         | 0.138                 | 22.1             |
| Left tilted                              | 20        | QPSK       | 50_25              | 39750/2506     | 1:1.58     | 0.036          | 0.02             | 21.68                 | 23.00               | 1.355         | 0.049                 | 22.1             |
| Right cheek                              | 20        | QPSK       | 50_25              | 39750/2506     | 1:1.58     | 0.086          | -0.01            | 21.68                 | 23.00               | 1.355         | 0.116                 | 22.1             |
| Right tilted                             | 20        | QPSK       | 50_25              | 39750/2506     | 1:1.58     | 0.025          | -0.04            | 21.68                 | 23.00               | 1.355         | 0.034                 | 22.1             |



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| Body worn Test data(Separate 15mm 1RB)   |    |      |       |              |        |       |       |       |       |       |              |      |
|------------------------------------------|----|------|-------|--------------|--------|-------|-------|-------|-------|-------|--------------|------|
| Front side                               | 20 | QPSK | 1_0   | 39750/2506   | 1:1.58 | 0.180 | -0.11 | 22.64 | 24.00 | 1.368 | 0.246        | 22.1 |
| Back side                                | 20 | QPSK | 1_0   | 39750/2506   | 1:1.58 | 0.265 | -0.01 | 22.64 | 24.00 | 1.368 | <b>0.362</b> | 22.1 |
| Body worn Test data(Separate 15mm 50%RB) |    |      |       |              |        |       |       |       |       |       |              |      |
| Front side                               | 20 | QPSK | 50_25 | 39750/2506   | 1:1.58 | 0.140 | -0.12 | 21.68 | 23.00 | 1.355 | 0.190        | 22.1 |
| Back side                                | 20 | QPSK | 50_25 | 39750/2506   | 1:1.58 | 0.180 | -0.18 | 21.68 | 23.00 | 1.355 | 0.244        | 22.1 |
| Hotspot Test data(Separate 10mm 1RB)     |    |      |       |              |        |       |       |       |       |       |              |      |
| Front side                               | 20 | QPSK | 1_0   | 39750/2506   | 1:1.58 | 0.197 | -0.03 | 20.15 | 21.50 | 1.365 | 0.269        | 22.1 |
| Back side                                | 20 | QPSK | 1_0   | 39750/2506   | 1:1.58 | 0.248 | 0.00  | 20.15 | 21.50 | 1.365 | 0.338        | 22.1 |
| Left side                                | 20 | QPSK | 1_0   | 39750/2506   | 1:1.58 | 0.087 | 0.16  | 20.15 | 21.50 | 1.365 | 0.119        | 22.1 |
| Bottom side                              | 20 | QPSK | 1_0   | 39750/2506   | 1:1.58 | 0.232 | -0.15 | 20.15 | 21.50 | 1.365 | 0.317        | 22.1 |
| Hotspot Test data(Separate 10mm 50%RB)   |    |      |       |              |        |       |       |       |       |       |              |      |
| Front side                               | 20 | QPSK | 50_25 | 40185/2549.5 | 1:1.58 | 0.198 | -0.14 | 20.08 | 21.50 | 1.387 | 0.275        | 22.1 |
| Back side                                | 20 | QPSK | 50_25 | 40185/2549.5 | 1:1.58 | 0.348 | 0.03  | 20.08 | 21.50 | 1.387 | <b>0.483</b> | 22.1 |
| Left side                                | 20 | QPSK | 50_25 | 40185/2549.5 | 1:1.58 | 0.091 | 0.00  | 20.08 | 21.50 | 1.387 | 0.126        | 22.1 |
| Bottom side                              | 20 | QPSK | 50_25 | 40185/2549.5 | 1:1.58 | 0.247 | -0.04 | 20.08 | 21.50 | 1.387 | 0.343        | 22.1 |

Table 36: SAR of LTE Band 41 for Head and Body.

Note:

- 1)The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2)Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR < 1.2 W/kg.



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### 8.3.12 SAR Result of WIFI 2.4G

| Ant8(Chian0) Test Record           |           |                |            |                          |               |                 |                      |                    |               |                  |              |
|------------------------------------|-----------|----------------|------------|--------------------------|---------------|-----------------|----------------------|--------------------|---------------|------------------|--------------|
| Test position                      | Test mode | Test Ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg)1-g | Power drift(dB) | Conducted power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp. |
| Head Test data                     |           |                |            |                          |               |                 |                      |                    |               |                  |              |
| Left cheek                         | 802.11b   | 6/2437         | 99.04%     | 1.010                    | 0.237         | 0.05            | 14.06                | 15.50              | 1.393         | <b>0.333</b>     | 22           |
| Left tilted                        | 802.11b   | 6/2437         | 99.04%     | 1.010                    | 0.054         | 0.01            | 14.06                | 15.50              | 1.393         | 0.076            | 22           |
| Right cheek                        | 802.11b   | 6/2437         | 99.04%     | 1.010                    | 0.093         | -0.03           | 14.06                | 15.50              | 1.393         | 0.130            | 22           |
| Right tilted                       | 802.11b   | 6/2437         | 99.04%     | 1.010                    | 0.016         | 0.02            | 14.06                | 15.50              | 1.393         | 0.022            | 22           |
| Body worn Test data(Separate 15mm) |           |                |            |                          |               |                 |                      |                    |               |                  |              |
| Front side                         | 802.11b   | 1/2412         | 99.04%     | 1.010                    | 0.096         | 0.01            | 19.07                | 19.50              | 1.104         | 0.106            | 22           |
| Back side                          | 802.11b   | 1/2412         | 99.04%     | 1.010                    | 0.151         | 0.16            | 19.07                | 19.50              | 1.104         | 0.168            | 22           |
| Hotspot Test data (Separate 10mm)  |           |                |            |                          |               |                 |                      |                    |               |                  |              |
| Front side                         | 802.11b   | 1/2412         | 99.04%     | 1.010                    | 0.193         | -0.15           | 19.07                | 19.50              | 1.104         | 0.215            | 22           |
| Back side                          | 802.11b   | 1/2412         | 99.04%     | 1.010                    | 0.196         | 0.07            | 19.07                | 19.50              | 1.104         | 0.218            | 22           |
| Right side                         | 802.11b   | 1/2412         | 99.04%     | 1.010                    | 0.317         | -0.12           | 19.07                | 19.50              | 1.104         | <b>0.353</b>     | 22           |
| Top side                           | 802.11b   | 1/2412         | 99.04%     | 1.010                    | 0.025         | 0.01            | 19.07                | 19.50              | 1.104         | 0.028            | 22           |
| MIMO Test Record                   |           |                |            |                          |               |                 |                      |                    |               |                  |              |
| Test position                      | Test mode | Test Ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg)1-g | Power drift(dB) | Conducted power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR(W/kg) | Liquid Temp. |
| Head Test data                     |           |                |            |                          |               |                 |                      |                    |               |                  |              |
| Left cheek                         | 802.11b   | 6/2437         | 98.57%     | 1.015                    | 0.301         | 0.05            | 17.05                | 18.50              | 1.396         | <b>0.426</b>     | 22           |
| Left tilted                        | 802.11b   | 6/2437         | 98.57%     | 1.015                    | 0.157         | -0.03           | 17.05                | 18.50              | 1.396         | 0.222            | 22           |
| Right cheek                        | 802.11b   | 6/2437         | 98.57%     | 1.015                    | 0.098         | 0.01            | 17.05                | 18.50              | 1.396         | 0.139            | 22           |
| Right tilted                       | 802.11b   | 6/2437         | 98.57%     | 1.015                    | 0.119         | 0.05            | 17.05                | 18.50              | 1.396         | 0.169            | 22           |
| Body worn Test data(Separate 15mm) |           |                |            |                          |               |                 |                      |                    |               |                  |              |
| Front side                         | 802.11b   | 6/2437         | 98.57%     | 1.015                    | 0.166         | 0.09            | 22.08                | 22.50              | 1.102         | 0.186            | 22           |
| Back side                          | 802.11b   | 6/2437         | 98.57%     | 1.015                    | 0.207         | 0.04            | 22.08                | 22.50              | 1.102         | <b>0.231</b>     | 22           |
| Hotspot Test data (Separate 10mm)  |           |                |            |                          |               |                 |                      |                    |               |                  |              |
| Front side                         | 802.11b   | 6/2437         | 98.57%     | 1.015                    | 0.287         | 0.02            | 22.08                | 22.50              | 1.102         | 0.321            | 22           |
| Back side                          | 802.11b   | 6/2437         | 98.57%     | 1.015                    | 0.264         | 0.01            | 22.08                | 22.50              | 1.102         | 0.295            | 22           |
| Right side                         | 802.11b   | 6/2437         | 98.57%     | 1.015                    | 0.720         | -0.02           | 22.08                | 22.50              | 1.102         | <b>0.805</b>     | 22           |
| Right side                         | 802.11b   | 1/2412         | 98.57%     | 1.015                    | 0.704         | -0.01           | 22.06                | 22.50              | 1.107         | 0.790            | 22           |
| Top side                           | 802.11b   | 6/2437         | 98.57%     | 1.015                    | 0.220         | -0.04           | 22.08                | 22.50              | 1.102         | 0.246            | 22           |

Table 37: SAR of WIFI 2.4G for Head and Body.

Note:

- 1) The maximum measured SAR value and Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is not required for such test configuration(s).
- 3) Per KDB 648474 D04, Product Specific 10-g SAR test is not required for this frequency band since hotspot mode 1-g reported SAR  $< 1.2$  W/kg.
- 4) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg, SAR test for the other 802.11 modes are not required.





### 8.3.13 SAR Result of WIFI 5G

| Ant7(Chian1) Test Record                                                                     |           |                |            |                          |                |                 |                       |                     |               |                   |              |
|----------------------------------------------------------------------------------------------|-----------|----------------|------------|--------------------------|----------------|-----------------|-----------------------|---------------------|---------------|-------------------|--------------|
| Test position                                                                                | Test mode | Test Ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg)1-g  | Power drift(dB) | Conducted power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR (W/kg) | Liquid Temp. |
| Head Test data of U-NII-2A                                                                   |           |                |            |                          |                |                 |                       |                     |               |                   |              |
| Left cheek                                                                                   | 802.11a   | 52/5260        | 96.67%     | 1.034                    | 0.672          | 0.08            | 12.97                 | 13.50               | 1.130         | <b>0.785</b>      | 22.2         |
| Left tilted                                                                                  | 802.11a   | 52/5260        | 96.67%     | 1.034                    | 0.367          | 0.12            | 12.97                 | 13.50               | 1.130         | 0.429             | 22.2         |
| Right cheek                                                                                  | 802.11a   | 52/5260        | 96.67%     | 1.034                    | 0.187          | 0.06            | 12.97                 | 13.50               | 1.130         | 0.219             | 22.2         |
| Right tilted                                                                                 | 802.11a   | 52/5260        | 96.67%     | 1.034                    | 0.154          | 0.05            | 12.97                 | 13.50               | 1.130         | 0.180             | 22.2         |
| Head Test data of U-NII-2C                                                                   |           |                |            |                          |                |                 |                       |                     |               |                   |              |
| Left cheek                                                                                   | 802.11a   | 120/5600       | 96.67%     | 1.034                    | 0.157          | 0.04            | 13.41                 | 13.50               | 1.021         | 0.166             | 22.2         |
| Left tilted                                                                                  | 802.11a   | 120/5600       | 96.67%     | 1.034                    | 0.076          | 0.02            | 13.41                 | 13.50               | 1.021         | 0.081             | 22.2         |
| Right cheek                                                                                  | 802.11a   | 120/5600       | 96.67%     | 1.034                    | 0.045          | 0.01            | 13.41                 | 13.50               | 1.021         | 0.048             | 22.2         |
| Right tilted                                                                                 | 802.11a   | 120/5600       | 96.67%     | 1.034                    | 0.044          | 0.01            | 13.41                 | 13.50               | 1.021         | 0.046             | 22.2         |
| Head Test data of U-NII-3                                                                    |           |                |            |                          |                |                 |                       |                     |               |                   |              |
| Left cheek                                                                                   | 802.11a   | 157/5785       | 96.67%     | 1.034                    | 0.247          | 0.07            | 13.30                 | 13.50               | 1.047         | 0.268             | 22.2         |
| Left tilted                                                                                  | 802.11a   | 157/5785       | 96.67%     | 1.034                    | 0.226          | 0.07            | 13.30                 | 13.50               | 1.047         | 0.245             | 22.2         |
| Right cheek                                                                                  | 802.11a   | 157/5785       | 96.67%     | 1.034                    | 0.094          | 0.03            | 13.30                 | 13.50               | 1.047         | 0.101             | 22.2         |
| Right tilted                                                                                 | 802.11a   | 157/5785       | 96.67%     | 1.034                    | 0.100          | 0.03            | 13.30                 | 13.50               | 1.047         | 0.108             | 22.2         |
| Body worn Test data of U-NII-2A (Separate 15mm)                                              |           |                |            |                          |                |                 |                       |                     |               |                   |              |
| Front side                                                                                   | 802.11a   | 52/5260        | 96.67%     | 1.034                    | 0.213          | 0.08            | 17.58                 | 18.00               | 1.102         | 0.243             | 22.2         |
| Back side                                                                                    | 802.11a   | 52/5260        | 96.67%     | 1.034                    | 0.386          | -0.04           | 17.58                 | 18.00               | 1.102         | 0.440             | 22.2         |
| Body worn Test data of U-NII-2C(Separate 15mm)                                               |           |                |            |                          |                |                 |                       |                     |               |                   |              |
| Front side                                                                                   | 802.11a   | 120/5600       | 96.67%     | 1.034                    | 0.082          | -0.01           | 17.50                 | 18.00               | 1.122         | 0.095             | 22.2         |
| Back side                                                                                    | 802.11a   | 120/5600       | 96.67%     | 1.034                    | 0.635          | 0.06            | 17.50                 | 18.00               | 1.122         | <b>0.737</b>      | 22.2         |
| Body worn Test data of U-NII-3(Separate 15mm)                                                |           |                |            |                          |                |                 |                       |                     |               |                   |              |
| Front side                                                                                   | 802.11a   | 157/5785       | 96.67%     | 1.034                    | 0.056          | 0.01            | 17.38                 | 18.00               | 1.153         | 0.067             | 22.2         |
| Back side                                                                                    | 802.11a   | 157/5785       | 96.67%     | 1.034                    | 0.324          | 0.01            | 17.38                 | 18.00               | 1.153         | 0.387             | 22.2         |
| Hotspot Test data of U-NII-1(Separate 10mm)                                                  |           |                |            |                          |                |                 |                       |                     |               |                   |              |
| Front side                                                                                   | 802.11a   | 48/5240        | 96.67%     | 1.034                    | 0.345          | 0.01            | 17.56                 | 18.00               | 1.107         | 0.395             | 22.2         |
| Back side                                                                                    | 802.11a   | 48/5240        | 96.67%     | 1.034                    | 0.659          | 0.06            | 17.56                 | 18.00               | 1.107         | 0.754             | 22.2         |
| Right side                                                                                   | 802.11a   | 48/5240        | 96.67%     | 1.034                    | 0.274          | 0.03            | 17.56                 | 18.00               | 1.107         | 0.314             | 22.2         |
| Top side                                                                                     | 802.11a   | 48/5240        | 96.67%     | 1.034                    | 0.373          | 0.10            | 17.56                 | 18.00               | 1.107         | 0.427             | 22.2         |
| Hotspot Test data of U-NII-3 (Separate 10mm)                                                 |           |                |            |                          |                |                 |                       |                     |               |                   |              |
| Front side                                                                                   | 802.11a   | 157/5785       | 96.67%     | 1.034                    | 0.083          | -0.02           | 17.38                 | 18.00               | 1.153         | 0.099             | 22.2         |
| Back side                                                                                    | 802.11a   | 157/5785       | 96.67%     | 1.034                    | 0.913          | 0.01            | 17.38                 | 18.00               | 1.153         | <b>1.089</b>      | 22.2         |
| Back side-repeat                                                                             | 802.11a   | 157/5785       | 96.67%     | 1.034                    | 0.907          | 0.05            | 17.38                 | 18.00               | 1.153         | 1.082             | 22.2         |
| Back side                                                                                    | 802.11a   | 149/5745       | 96.67%     | 1.034                    | 0.741          | 0.04            | 17.21                 | 18.00               | 1.199         | 0.919             | 22.2         |
| Right side                                                                                   | 802.11a   | 157/5785       | 96.67%     | 1.034                    | 0.330          | 0.05            | 17.38                 | 18.00               | 1.153         | 0.394             | 22.2         |
| Top side                                                                                     | 802.11a   | 157/5785       | 96.67%     | 1.034                    | 0.378          | 0.06            | 17.38                 | 18.00               | 1.153         | 0.451             | 22.2         |
| Additional Test data(simultaneous transmission with WWAN + WiFi 5G Ant7(Chain1) Receiver on) |           |                |            |                          |                |                 |                       |                     |               |                   |              |
| Test position                                                                                | Test mode | Test Ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg)10-g | Power drift(dB) | Conducted power (dBm) | Tune up Limit (dBm) | Scaled factor | Scaled SAR (W/kg) | Liquid Temp. |
| Head Test data of U-NII-2A                                                                   |           |                |            |                          |                |                 |                       |                     |               |                   |              |
| Left cheek                                                                                   | 802.11a   | 60/5300        | 96.67%     | 1.034                    | 0.435          | 0.16            | 10.99                 | 11.50               | 1.125         | 0.506             | 22.2         |
| Hotspot Test data of U-NII-3 (Separate 10mm)                                                 |           |                |            |                          |                |                 |                       |                     |               |                   |              |
| Back side                                                                                    | 802.11a   | 157/5785       | 96.67%     | 1.034                    | 0.453          | 0.08            | 16.09                 | 16.50               | 1.099         | 0.515             | 22.2         |



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